



चौधरी रणबीर सिंह विश्वविद्यालय, जीन्द
Chaudhary Ranbir Singh University, Jind
(Haryana Government University under Act 28 of 2014)
Recognized u/s 2(F) & 12-B of UGC Act, 1956



E-TENDER DOCUMENT

FOR

**Smart Entrance System with Body Temperature and Mask
Detection solution on Face & Palm Verification for Building
Entrance on Turn-Key basis**

Tender No.: 2020_HRY_142367

Name of Work: Smart Entrance System with Body Temperature and
Mask Detection solution on Face & Palm Verification for Building
Entrance on Turn-Key basis.



E-TENDER SHORT TERM NOTICE

Online E-Tender on behalf of Registrar, Chaudhary Ranbir Singh University, Jind, Haryana is invited through e-Procurement System of Govt. of Haryana from the eligible bidders for “**Smart Entrance System with Body Temperature and Mask Detection solution on Face & Palm Verification for Building Entrance on Turn-Key basis**” in Chaudhary Ranbir Singh University, Jind, Haryana (CRSU, Jind) as per the Technical Specifications mentioned in **E-tender** document available on Haryana Govt. E-Tender portal <https://etenders.hrya.nic.in>.

Name of Work	Smart Entrance System with Body Temperature and Mask Detection solution on Face & Palm Verification for Building Entrance on Turn-Key basis
Estimated Cost of the Work	Rs. 60 Lakhs
Earnest Money	Rs. 1,20,000/-
Tender Fee (Non-refundable)	Rs. 5000/- + GST
e-service Fees (Non-refundable)	Rs. 1000/- + GST
Start date and time of Bid preparation & submission on e- procurement portal	03.09.2020 at 09:00 A.M.
Last date and time for Bid preparation & submission by bidders	10.09.2020 at 11:00 A.M.
Date and time of Tender Opening (Technical Bid)	10.09.2020 at 11:30 A.M. at Conference Hall, CRSU, Jind
Date and time of Tender Opening (Financial Bid)	To be announced later on

The e-tenders shall be opened in the Conference Room, Chaudhary Ranbir Singh University, Jind in the presence of the agencies or their authorized representative who may like to be present by having proper authorization letter.

The complete bidding documents, fee details, technical specifications and key dates can be viewed/ downloaded from the web sites <https://haryanaeprocurement.gov.in> and www.crsu.ac.in. The Bidders are requested to go through the tender document carefully before submitting the online bid.

The performance guarantee of the e-tender (to be paid through offline i.e. FD/BG in favour of Registrar, CRS University, Jind) is 10% percent of total project cost.

The Chaudhary Ranbir Singh University, Jind reserves the right to accept or reject the tendering process at any stage without assigning any reason whatsoever. The university reserve the right to increase or decrease the items without any change of terms and conditions on proportionate to increase and decrease in rates.

Registrar
Chaudhary Ranbir Singh University, Jind

Key Dates

Sr. No.	Department Stage	Bidder's Stage	Start date and time	Closing date and time
1.		Tender Document Download and Bid Preparations/Submission	<u>03.09.2020</u> 09:00 A.M.	<u>10.09.2020</u> 11:00 A.M.
2.	Technical Bid Opening	-	<u>10.09.2020</u> 11:30 A.M.	-
3.	Financial Bid Opening	-	To be notified later on	-

Eligibility Criteria for Prequalification of Bidders:

1. Manufacturer / Bidders shall not be under any declaration of ineligibility for corrupt and fraudulent practices issued by any state Government / GOI / Union territory. The Manufacturer / Bidders shall not be blacklisted by any state Government / GOI / Union territory/State and Central Educational Institutes. An affidavit in this regard on stamp paper of Rs. 100 attested from Notary shall be attached /uploaded.
2. The Manufacturer / Bidder should have the turnover of Rs. 100 Lakhs in any financial year for the last 3 years. This should be supported by audited balance sheet of the company and duly audited by the Chartered accountant or Turn over Certificate from Chartered accountant as per **Annexure-II**.
3. The Manufacturer / Bidder should have executed / Implemented work order at any Govt. Institution/Central and State Universities /IIT /NIT /PSU /Research Organisation /Private Sector. It should have:
 - a. Three similar completed works executed and costing not less than the amount equal to 40% of the estimated cost.
 - OR**
 - b. Two similar completed works executed and costing not less than the amount equal to 50% of the estimated cost.
 - OR**
 - c. One similar completed work executed and costing not less than the amount equal to 80% of the estimated cost.

The bidder should furnish the information as per **Annexure-III** supported by Purchase order or Work done certificates from the concerned department.

4. The Manufacturer / Bidder should submit catalogue with complete technical details with Make and Model for technical evaluation purpose. Bids without Catalogue or with incomplete information are liable to be rejected.
5. The Manufacturer / Bidder should submit last three years ITRs.
6. The bidder should submit PAN, GST, and Registration Certificate of the firm.
7. The Bidder should have Authorization certificate from Manufacturer for this Tender with tender No. mentioned in it.
8. The Manufacturer / Bidder should be ready for demonstration of the product quoted on short notice as per the tendered specifications.

Date & Seal

**Name & Signature of
Competent Authority of Bidder**

9. The Manufacturer / Bidder has to quote all the products as per the Tender, no deviation will be considered.
10. University is the final authority to judge the tender called items and has every power to accept or reject the same without assigning any reason.

NOTE: All pages uploaded on the portal should be numbered and in order as per checklist (Annexure-I).

Terms & Conditions:

The Bidder is expected to read and examine all the Terms & Conditions, specifications and instructions given in this E-Tender Document with full understanding of their implications. Failure to furnish all information required for submission of a bid that is not substantially responsive in every respect, will be at the Bidder's own risk and may result in outright rejection of the bid.

(1) Chaudhary Ranbir Singh University, Jind, Haryana shall first evaluate the technical bids. The commercial/financial bids will be opened/ entertained of only those bidders who happened to be responsive/ qualified in the technical bids. Decision of the University in the evaluation of the Technical bids shall be final.

(2) **Financial Bid System:** The bid must be uploaded in as **Financial Bid**.

a) The bid will comprise of

- i. Proof of submission of Bid Security,
- ii. Self-attested copies of the documents in support of bidder's claim for all the points covered under Minimum Eligibility Criterion for Prequalification of Bidders.
- iii. Signed and stamped all Annexure (**except the Financial Bid**) available at the end of this E-Tender document.

b) No price/charges should be mentioned indirectly or under any other heading/note.

(3) **Bid Security:** The Bid Security (i.e. Earnest Money Deposit: EMD) of **Rs. 1,20,000/-** (Rupees One lakh Twenty Thousand only) through online mode only.

a) Offers without Bid Security will not be considered.

b) Bid security of the unsuccessful bidders shall be returned to them at the earliest after expiry of the bid validity and latest on or before the 30th working day after the award of the work, so as to get refund of the Bid Security, all the bidder will provide their bank account details.

c) The Bid Security shall be forfeited,

- (i) if a Bidder withdraws its bid during the period of bid validity; or
- (ii) if a Bidder makes any statement or uploads any form which turns out to be false, incorrect and / or misleading at any time and / or conceals or suppresses material information; or
- (iii) In case of the successful Bidder, if the Bidder fails to sign the agreement or to furnish performance guarantee within the specified time period as given in this document.

(4) **Bid Submission:** The submission of the bids shall be only on <https://etenders.hry.nic.in>. *The Bidder will upload the scanned copies (pdf) of all pages as per the checklist available in Annexure – I of this document and Part – II (FINANCIAL BID) must be uploaded in the format provided in Bill of Quantity (BoQ) document available with Bid document on e-tender portal.*

To participate in the tendering process through Haryana Government procurement website, the Bidder has to register with Haryana E-Governance Society and must have a valid Digital Signature Certificate issued by Government approved Certifying Authority. Bidder shall upload their offer in electronic format on the above mentioned website only on or before the schedule date and time as mentioned in this document. No offer in

physical form will be accepted and any such offer, if received by CRSU, Jind will be out rightly rejected.

- (5) **Validity of the Offer:** The Offer shall be valid for 60 days from the date of opening of the financial bids.
- (6) **Amendment in this document:** At any time up to the last date of receipt of Bids, the University may, for any reason, whether at its own initiative or in response to a clarification requested by a Bidder, modify this e-tender document by an amendment. Clarifications requested by bidders should be submitted at least 02 working days prior from date of closing. The amendment will be notified **on the University website (www.crsu.ac.in) ONLY** and the same shall be binding on Bidders. The University may, at its discretion, extend the last date for the receipt of Bids.
- (7) **Clarification of bids:** No change in prices or substance of the bid shall be sought, offered or permitted. If the bid is not substantially responsive, it will be rejected by the University. Bidder will not be permitted under any circumstances to modify their bids to make them responsive by correction of any non-conformity. Unsigned communications/ bids will not be accepted and will be rejected summarily.
- (8) **Bid Evaluation:** Evaluation of the Bids shall be made strictly in terms of provisions and criteria disclosed in this bidding document. Notwithstanding the above, the university reserves the right to accept or reject any quotation, cancel the bidding process and reject all quotations at any time prior to the award of the contract.
- (9) **Bid Disqualification:** The proposal will be disqualified in the following cases:
 - i. Proposal not uploaded in accordance with instructions provided in this document.
 - ii. Proposal is uploaded in incomplete form.
 - iii. Uploaded proposal does not have all requisite supporting documents.
 - iv. Bidder fails to deposit the Bid Security or fails to upload the scanned copy of receipt of submission of Bid Security or fails to submit Performance Security Bank Guarantee with specified period of issue of letter of intent/work order or fails to enter into a contract within specified date of notice of award of contract or within such extended period, as may be specified by University.
- (10) **Prices:** The price shall include **Purchase, Installation, Hardware Equipments and testing of Smart Entrance System with Body Temperature and Mask Detection solution on Face & Palm Verification for Building Entrance and it's Maintenance, Functional and Onsite Technical training of CRSU personnel at CRSU campus, Jind and Complete Support inclusive of 3 Year warranty after hand holding.** All prices shall be fixed and shall not be subject to escalation of any description. The rates must be quoted *in FINANCIAL BID* as per the Price Format available in Annexure-IV which must be uploaded in the format provided in Bill of Quantity (BoQ) document available with Bid document on this website. Bidder must note the following:
 - a. All costs should be given in INR. All payments will be made in INR only.
 - b. **The rates quoted in Financial Bid should be inclusive of all charges including applicable Government Taxes also.**
- (11) **Time Frame and Delivery Schedule:** **The total project is to be completed within 15 days after award of contract.** If the university observes that the vendor is not following the above mentioned time deadline strictly, vendor may be warned and / or penalized for the delay as decided by university authorities and the same will be binding on the vendor. Also, the competent authority reserves the right to cancel the purchase order if the bidder

fails to comply with the schedules without any notice and Bid Security and/ or Performance Security in any form will be forfeited.

- (12) **System Acceptance:** After successful deployment of the system by the vendor, Acceptance Procedure for the system will include the following, a plan for which will have to be submitted by the bidder.
- a) Operational Tests
 - b) Any other tests/evaluation criteria that CRSU, Jind may specify, if required.
- The Final Acceptance testing will include testing of the system through live functionality for each module. The committee will be free to observe the system's functionality for a period as it may feel deemed fit and vendor will have no objection to it.
- (13) **Warranty:** Warranty (CAMC) of 03 (three) years after handholding (the date on which the university takes over the complete system after full testing) is mandatory. **During Warranty, the vendor is liable to implement any changes in the software/hardware required (bug rectification, or upgrades or addition of new functionalities etc. as the case may be) in the system without any extra charges as and when required on immediate basis. Failure to comply with this clause, may lead to forfeiture of Performance security of the vendor.**
- (14) **Project Design Documents, and Manuals:** The vendor shall provide the following:
- (i) **Operator's Manual:** This manual shall provide a detailed, operational description of all the components of the solution and shall include the application flow showing the various operating instructions.
 - (ii) **Installation Manual and Documentation:** The installation manual shall consist of a section that describes the proper installation procedures for Hardware, System software, Application software etc.
 - (iii) **Database recovery Manual and Documentation:** This manual shall describe detailed procedures to recover the database in case of failure.
 - (iv) Any other Manual or Documentation useful for the user in operating, maintaining, transferring and/or administration of the solution.
- (15) **Training:** The vendor has to provide general training to all users of CRSU, Jind, Haryana at the university premises without any additional charge. Exclusive Onsite Training to CRSU, Jind staff members, as decided by competent authority, CRSU Jind.
- (16) **Customer Support:** The online support 24×7 must be provided as and when required by the University. In case of failure to fix problems in online mode, on-site visit is bidder's responsibility. However, the bidder has to provide onsite support as per project requirement as and when required by the University Dealing Project Incharge for a period of **3 years** during the CMC period at university's premises.
- (17) **Payment:** The 70% payment will be released on delivery of the items and remaining 30% payment will be released after the successful installation/deployment of the system and acceptance of the same by the university. All the payments to the successful Bidder shall be made invariably through Electronic Fund Transfer (ECS/RTGS/NEFT) into their designated bank accounts. Therefore, the bidder will provide their bank account details along with their Bid in the format given in **Annexure-V**.
- (18) **Queries and Clarification:** The queries and clarification for this document must be addressed to "System Analyst, University Computer and Informatics Centre (UCIC), CRSU, Jind, Haryana" and the same must be sent through e-mail (ucic@crsu.ac.in), in the following format:

S. No.	Clause no. (as per e-tender)	Your interpretation	Clarification sought from University

The query must reach 2 days prior of closing date.

- (21) **Right to Accept/Reject Bids:** The University reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any stage, without thereby incurring any liability to the affected Bidders or any obligation to inform the affected Bidders of the grounds for such action.
- (22) **Confidentiality:** The Bidder and their personnel shall not, either during the term or after expiration of this work order, disclose any proprietary or confidential information relating to the services, agreement or the University business or operations without the prior written consent.
- (23) **Arbitration:** All disputes, differences, claims and demands arising under or pursuant to or touching the agreement shall be referred to the sole arbitrator to be appointed by the University. The award of the sole arbitrator shall be final and binding on both the parties under the provisions of the Arbitration and Conciliation Act, 1996 or by statutory modification/re-enactment thereof for the time being in force. Such arbitration shall be held at Jind, Haryana. It is clarified that Civil court shall have no jurisdiction to entertain any such disputes.
- (24) **Jurisdiction of Courts:** In all matters and disputes arising hereunder, the appropriate Courts at Jind, Haryana only shall have jurisdiction to entertain and try them only after the failure of arbitration process, if any.

SCOPE/FEATURES OF WORK

1. Introduction

Chaudhary Ranbir Singh University, Jind, Haryana is in search for a Smart Entrance System with Body Temperature and Mask Detection solution on Face & Palm Verification for Building Entrance on turn-key basis for the campus. For this, flap barrier turnstile along with terminal, RFID based boom barriers and fever screening thermal camera solution may be used to detect body temperature and mask detection and give the smart entry to the people in campus to take the preventive measures for spread of COVID-19 pandemic with the aid of today's technology along with available migration path to emerging technologies in future. This system may be utilized for screening the students and staff who are entering in to campus for the purpose of their safety, monitoring and recording within the premises of CSRU, Jind, Haryana.

2. Scope/Features of Smart Entrance System with Body Temperature and Mask Detection solution on Face & Palm Verification for Building Entrance:

- The scope of work shall include the supply and training of **fever screening thermal camera(s)** for the campus.
- Thermal Camera is an infrared thermal imager combining surface temperature measurement and real-time thermal image. Through the thermal imager, potential problems shall be clearly displayed on the screen.
- Video and alarm management software.
- Detection of people with mask and their body temperature.
- If the body temperature is normal then only access will be granted and records of people coming to campus should be maintained.
- Boom Barrier with RFID for main gate for seamless entry of vehicles to campus.
- All the terminal should be centralised through OFC.
- Turnstile shall secure the premises of campus like main entrance gate and academic block.
- The design should be beautiful, functional, durable and ergonomic.
- It should have excellent performance, adopts a new generation of imported sensor module to ensure excellent infrared resolution and rich color plate mode, can cope with a variety of shooting environments, have wide range of measurement and photography functions.
- The system shall provide secured recording for evidence purposes and user authentication to protect data integrity.
- The system should be compatible with thermal condition of different locations for comprehensive analysis, providing more information for judgment.
- The system should have PC software for data analysis and report output
- The system should avoid judgment errors, reducing labor costs, and discovering poor heat dissipation and hidden trouble points
- The system should be intuitive, efficient and convenient, making users directly see the temperature variation.
- The system should be Fast and Non-Contact fever Screening.
- It should avoid cross infection of traditional body temperature measurement.

- It should have $\pm 0.5^{\circ}\text{C}$ ultra-accuracy designed for accurate fever screening.
- It should 1m+ safe detection distance to keep social distance in control.
- It should have smart features like automatic snapshot, when detecting body temperature higher than 37.3°C , a picture should be taken automatically and trigger the alarm.
- It should have multiple alarm like LED flash/PC sound Alarm
- It should support live view with external PC display support

Proposed Evaluation and Comparison of Bids:

The process of evaluation of bids and identification of successful bidder will be done as per below steps.

Step 1: Prequalification of Bidders

Step2: Financial Bid Evaluation

Step 3: Award of Contract

CRSU, Jind will evaluate the technical bids as per documents submitted by the firms (eligibility criteria) and compare the bids that have been determined to be substantially responsive, pursuant to tender requirements & other eligibility criteria as stated in this bid document.

Step 1: Prequalification of Bidders:

The bidder must possess the requisite experience, strength and capabilities for providing the services necessary to meet the requirements, as described in this document. The bidder must also possess the technical know-how and the financial wherewithal that would be required to successfully provide systems and support services sought by CRSU, Jind. The bids must be complete in all respect and should cover the entire scope of work as stipulated in this document. The invitation to bid is open to all bidders who qualify the eligibility criteria as mentioned in this tender document. Eligibility criteria are mandatory and any deviation in the same will attract bid disqualification. Chaudhary Ranbir Singh University, Jind, Haryana shall first evaluate the technical bids. The commercial bids will be opened/entertained of only those bidders who found to be responsive/qualified in the technical bids.

Step 2: Financial Bid Evaluation:

Financial bids are to be uploaded as per format of BOQ. The financial bid amount shall include all type of cost related to Purchase, Installation, Hardware Equipments and testing of Smart Entrance System with Body Temperature and Mask Detection solution on Face & Palm Verification for Building Entrance and it's Maintenance, Functional and Onsite Technical training of CRSU personnel at CRSU campus, Jind and Complete Support inclusive of 3 Year warranty after hand holding.

Step 3: Award of Contract:

Contract will be awarded to bidder (who has qualified all above steps i.e. step 1 and step 2) having lower price quote. In case of a tie on financial quote, bidder with more number of successful deployment of Smart Entrance System with Body Temperature and Mask Detection solution on Face & Palm Verification for Building Entrance in reputed government institutions (IITs / NITs / Central Universities / Govt. State Universities / Govt. Deemed Universities / Autonomous Government Institutions)/Private Sector in India will be eligible for the award of contract.

The Bidder shall upload the numbered scanned copies (.pdf format) of all pages as per Eligibility Criteria for Prequalification of Bidders and also prepare the checklist in table form as under and mention it as **Annexure –1** and **attach as first page**.

Annexure -I

Sr. No.	Check List of Documents	Attached (Yes/No)
1.	Annexure-I (Check List) (Should be uploaded as First page)	
2.	Affidavit regarding non blacklisting on stamp paper of Rs. 100 duly attested by Notary	
3.	Audited Balance Sheet of Company or Turn Over Certificate from Chartered Accountant as per Annexure-II	
4.	Similar completed work executed and costing as per Annexure-III supported by Purchase Order(s) or Work Done Certificate(s)	
5.	Catalogue with complete technical details with Make and Model	
6.	Last three years Income Tax Returns (ITRs)	
7.	PAN, GST, and Registration Certificate of the firm	
8.	Authorization certificate from Manufacturer	
9.	Bank Account Details as per Annexure-V	
10.	Signed & Stamped DNIT	
11.	Declaration as per Annexure-VI	

CERTIFICATE

The bidder shall also Certify that this complete bid document is carrying _____ (in figures) (_____) (in words) pages and each page is numbered, signed and stamped.

Date _____

Name & Signature of Competent Authority of the Bidder

Annexure-II
(Format for Annual Turnover)

ANNUAL TURNOVER

S. No.	Annual Turnover w.r.t. item quoted			Remarks (if any)
	2016-17	2017-18	2018-19	
(1)	(2)	(3)	(4)	(5)

Signature of the Chartered Account with seal

Name: _____

Note:

- (i) Documentary evidence shall be uploaded along with the format.
- (ii) Certified copies of ITRs of the above years shall be uploaded.

Annexure-III

PROFORMA FOR PAST PERFORMANCE

Orders placed by (Full address Of Purchaser)	Order No. and Date	Description and Quantity of ordered	Value Of Order (Rs)	Date of completion of delivery as per contract/actual	Remarks Indicating reasons for Late delivery if any.
1	2	3	4	5	6

Date _____

Name & Signature of Competent Authority of the Bidder

Annexure-IV

FINANCIAL BID will be uploaded on **e-Procurement Website** only, in **BOQ format** available in Bid Documents on the website.

Item Rate BOQ

Smart Entrance System with Body Temperature and Mask Detection solution on Face & Palm Verification for Building Entrance on Turn-Key basis							
SR. NO	DESCRIPTION		UNIT	QTY	Quoted Price (Inclusive Tax)	Total (Inclusive Tax)	
1	Supply Installation testing & commissioning of Single Lane Flap barrier Trunstile along with tunnel for outdoor use including cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge having following technical specification mentioned in Annexure. : MAKE : HYUNDAI/VIRDI/ZKteco/SOMFY/TEKWIN		Nos	4		-	
	Power requirements						AC110V/220V, 50/60Hz
	Working temperature						-28°C~60°C
	Working humidity						5%~80%
	Working environment						Indoor/Outdoor
	Speed of throughput	RFID Minimum					30/minute
		Fingerprint Minimum					25/minute
	Lane width(mm)						600
	Footprint(mm*m m)						1200*1150
	Dimension(mm)						L=1150 W=300 H=1000
	LED indicator						Y
	Cabinet material						SUS304 Stainless Steel
	Barrier material						SUS304 Stainless Steel
	Barrier movement						Acrylic
Emergency mode		Y					
MCBF		2 million					
2	Supply Installation testing & commissioning of Palm & Face Verification & Body Temperature & Mask Detection terminal including cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge having following technical specification mentioned in Annexure: MAKE : HYUNDAI/VIRDI/ZKteco/SOMFY/TEKWIN		Nos	4		-	
	Capacity	Faces					30,000 (1:N)
		Palm					5,000 (1:N)
		Users					50,000
		Transactions					1,000,000
		User Photos					30,000
		Event Photos					10,000
	Compatibility						Security Relay Box Wiegand / RS485 / RS232 Slave Reader with FP / RFID / Barcode / QR-code
	Access Control Interface						Lock Relay Output Alarm Output / Auxiliary Input Exit Button / Door Sensor
	Communication						TCP/IP Wiegand Input / Output Wi-Fi (Optional) RS485 / RS232
	Special Functions						0.3s Hight Speed Facial Verification Liveness Detection
							HTTPS Communication Encryption (Optional)
							Event Snapshot
	Standard Functions:						Access Levels, Groups, Holidays, DST, Duress Mode (Password), Anti-Passback, Record Query, Tamper Switch Alarm, Custom Wallpaper & Screen Saver

	<table border="1"> <tr> <td>Preventative Measures</td> <td></td> <td>Mask detection Body temperature detection Temperature Measurement Distance: 30cm~50cm (1ft~1.64ft) Temperature Measurement Accuracy: ±0.3°C Temperature Measurement Range: 34°C~45°C</td> </tr> <tr> <td>Additional Info</td> <td></td> <td>Palm: FAR ≤0.01%; FRR ≤1% Working Temperature: 16°C ~ 32°C, (60.8°F ~ 89.6°F) Working Humidity: ≤93% Storage Temperature: -40°C ~ 65°C (-40°F ~ 149°F) Storage Humidity: ≤93%</td> </tr> <tr> <td>Power</td> <td></td> <td>Operating Voltage: 12V DC</td> </tr> <tr> <td>Hardware</td> <td></td> <td>900MHz Dual Core Customized Computer vision CPU 512MB RAM / 8G Flash 8" Hight light (400lux) IPS Touch LCD 2MP WDR Low Light Camera Adjustable Light brightness LED Hi-Fi Voice High Sensitivity Microphone Distance Detection Sensor Reset Button and Tamper Switch</td> </tr> </table>	Preventative Measures		Mask detection Body temperature detection Temperature Measurement Distance: 30cm~50cm (1ft~1.64ft) Temperature Measurement Accuracy: ±0.3°C Temperature Measurement Range: 34°C~45°C	Additional Info		Palm: FAR ≤0.01%; FRR ≤1% Working Temperature: 16°C ~ 32°C, (60.8°F ~ 89.6°F) Working Humidity: ≤93% Storage Temperature: -40°C ~ 65°C (-40°F ~ 149°F) Storage Humidity: ≤93%	Power		Operating Voltage: 12V DC	Hardware		900MHz Dual Core Customized Computer vision CPU 512MB RAM / 8G Flash 8" Hight light (400lux) IPS Touch LCD 2MP WDR Low Light Camera Adjustable Light brightness LED Hi-Fi Voice High Sensitivity Microphone Distance Detection Sensor Reset Button and Tamper Switch																				
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3	<p>Supply, installation, testing and commissioning UHF READER including cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge having following technical specification mentioned in Annexure. : MAKE : HYUNDAI/VIRDI/ZKteco/SOMFY/TEKWIN</p> <table border="1"> <tr> <td>Reading Distance</td> <td>Up to 12Meters</td> </tr> <tr> <td>Read Sensitivity</td> <td>Line polarization</td> </tr> <tr> <td>Communication Interface</td> <td>Wiegand 26(Default) /Wiegand 34, USB</td> </tr> <tr> <td>Frequency</td> <td>902Mhz – 928Mhz, 865MHz – 868MHz</td> </tr> <tr> <td>Shell Material</td> <td>Antenna Panel:ABS Engineering Plastics; Back Cover:Aluminum Shell</td> </tr> <tr> <td>Working Voltage</td> <td>9~12V DC</td> </tr> <tr> <td>Multiple tag identification</td> <td>≥100</td> </tr> <tr> <td>Interface protocol</td> <td>EPC Global UHF Class 1 gen 2/ISO 18000-6c</td> </tr> <tr> <td>I/O Interface</td> <td>Support external tigger</td> </tr> <tr> <td>Working Temperature</td> <td>-20°C-60°C</td> </tr> <tr> <td>IP rating</td> <td>IP66</td> </tr> <tr> <td>Certification</td> <td>CE ,FCC</td> </tr> </table>	Reading Distance	Up to 12Meters	Read Sensitivity	Line polarization	Communication Interface	Wiegand 26(Default) /Wiegand 34, USB	Frequency	902Mhz – 928Mhz, 865MHz – 868MHz	Shell Material	Antenna Panel:ABS Engineering Plastics; Back Cover:Aluminum Shell	Working Voltage	9~12V DC	Multiple tag identification	≥100	Interface protocol	EPC Global UHF Class 1 gen 2/ISO 18000-6c	I/O Interface	Support external tigger	Working Temperature	-20°C-60°C	IP rating	IP66	Certification	CE ,FCC	Each	2						
Reading Distance	Up to 12Meters																																
Read Sensitivity	Line polarization																																
Communication Interface	Wiegand 26(Default) /Wiegand 34, USB																																
Frequency	902Mhz – 928Mhz, 865MHz – 868MHz																																
Shell Material	Antenna Panel:ABS Engineering Plastics; Back Cover:Aluminum Shell																																
Working Voltage	9~12V DC																																
Multiple tag identification	≥100																																
Interface protocol	EPC Global UHF Class 1 gen 2/ISO 18000-6c																																
I/O Interface	Support external tigger																																
Working Temperature	-20°C-60°C																																
IP rating	IP66																																
Certification	CE ,FCC																																
4	<p>Supply, installation, testing and commissioning of Boombarrier with all labour and material required to complete the job in all respect upto the entire satisfaction of Engineer in Charge of the work. MAKE : HYUNDAI/ZKTECO/CAMEY/MAGNETIC/TEKWIN</p> <table border="1"> <tr> <td>Boom Type</td> <td>Telescopic Boom</td> </tr> <tr> <td>Boom Length</td> <td>6m</td> </tr> <tr> <td>Opening/Closing Time</td> <td>6s</td> </tr> <tr> <td>Supply Voltage</td> <td>110V AC or 220V AC</td> </tr> <tr> <td>Frequency</td> <td>50-60Hz</td> </tr> <tr> <td>Cabinet Material</td> <td>Powder Coated Steel</td> </tr> <tr> <td>Boom Material</td> <td>Aluminium alloy</td> </tr> <tr> <td>Working temperature Range</td> <td>-20°C~+60°C</td> </tr> <tr> <td>Working humidity</td> <td><90%</td> </tr> </table>	Boom Type	Telescopic Boom	Boom Length	6m	Opening/Closing Time	6s	Supply Voltage	110V AC or 220V AC	Frequency	50-60Hz	Cabinet Material	Powder Coated Steel	Boom Material	Aluminium alloy	Working temperature Range	-20°C~+60°C	Working humidity	<90%	Each	2												
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5	<p>Supply installation testing and commissioning of Access Control Panel with all labour and material required to complete the job in all respect upto the entire satisfaction of Engineer in Charge of the work.MAKE : HYUNDAI/ZKTECO/CAMEY/MAGNETIC/TEKWIN</p> <table border="1"> <tr> <td>Number of doors Controller</td> <td>2</td> </tr> <tr> <td>Numbers of readers supported</td> <td>4</td> </tr> <tr> <td>Type of readers Supported</td> <td>26-bit Wiegand and RS485</td> </tr> <tr> <td>Numeber of inputs</td> <td>6</td> </tr> <tr> <td>Number of Outputs</td> <td>4</td> </tr> <tr> <td>Cards holder capacity</td> <td>30000</td> </tr> <tr> <td>Fingerprint Capacity</td> <td>3000</td> </tr> <tr> <td>Log Event Capacity</td> <td>100000</td> </tr> <tr> <td>Communication</td> <td>TCP/IP,RD-485 and WIFI Optional</td> </tr> <tr> <td>CPU</td> <td>32bit 400MHz CPU</td> </tr> <tr> <td>Ram</td> <td>32M</td> </tr> <tr> <td>Flash memory</td> <td>128M</td> </tr> <tr> <td>Operating Temperature</td> <td>0-45 °C</td> </tr> <tr> <td>Operating Humidity</td> <td>20% to 80%</td> </tr> </table>	Number of doors Controller	2	Numbers of readers supported	4	Type of readers Supported	26-bit Wiegand and RS485	Numeber of inputs	6	Number of Outputs	4	Cards holder capacity	30000	Fingerprint Capacity	3000	Log Event Capacity	100000	Communication	TCP/IP,RD-485 and WIFI Optional	CPU	32bit 400MHz CPU	Ram	32M	Flash memory	128M	Operating Temperature	0-45 °C	Operating Humidity	20% to 80%	Each	1		
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6	<p>Supply Installation testing & commissioning of Handheld thermal camera along with tripod including cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge having following technical specification : MAKE : HYUNDAI/VIRDI/ZKteco/SOMFY/TEKWIN</p> <table border="1"> <tr> <td rowspan="6">THERMOGRAPHIC</td> <td>IR Resolution</td> <td>256*192</td> </tr> <tr> <td>Pixel pitch</td> <td>12µm</td> </tr> <tr> <td>NETD</td> <td><50mK</td> </tr> <tr> <td>Lens</td> <td>3.2mm</td> </tr> <tr> <td>FOV</td> <td>56° * 42.2°</td> </tr> <tr> <td>IFOV</td> <td>3.8mrad</td> </tr> </table>	THERMOGRAPHIC	IR Resolution	256*192	Pixel pitch	12µm	NETD	<50mK	Lens	3.2mm	FOV	56° * 42.2°	IFOV	3.8mrad	Each	1																	
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	THERMOGRAPHY	Measuring Tools	Center Spot/Hot Spot/Cold Spot			
		Measuring range	30°C ~ 45°C			
		Measuring Accuracy	±0.5°C			
		Temperature unit	°C,°F,K			
		MRTD	0.1°C			
		Emissivity Correction	0.01~1.0 Adjustable			
		Illumination	LED lights			
		Image Mode	Thermal,Thermal Fusion,PIP			
		Palette	White Hot,Black Hot,Iron, Lava,Rainbow,rainbow HC, Black red			
		Temperature Alarm	Full Frame Max. Temperature & Min Temperature Alarm			
		Snapshot	Snapshot with Temperature data			
		Save Snapshot	manual/Auto			
		PC Analysis Software	Support			
		Display	2.8 LCD			
		SD Card	16GB Micro SD Card Supported			
		Battery type	Rechargeable Li- battery			
		Power Interface	USB direct Charge type C			
		Charging Time	About 4H			
		Battery Life	≥11H			
		Auto Power Off	Adjustable (5 Min, 10 Min,20 min)			
	OTHERS	Tripod	Supported			
		Operating temperature	10°C ~ 50°C			
		Humidity	10% 95%, Non Condensing			
		Enclosure Protection	IP54 2m Drop			
7	Supply, installation, testing and commissioning UHF Tags Frequency :- 860~960MHz , Reading Distance:- Up to 10 meters for UHF1-10E and UHF1-10F (Determined by the environment and reader), Protocol type:- ISO/IEC 18000-6C, EPC global Class 1 Gen 2, Working mode:- Passive (No battery), Storage Structure:- EPC: 96bits, UID/TID: 64bits, User: 512bits Kill Password: 32bits, Access Password: 32bits , Erase Endurance:- 100,000times, Data Storage Period:- 10years , Working Temperature:-0~60°C, Curvature:- >60mm with all labour and material required to complete the job in all respect upto the entire satisfaction of Engineer in Charge of the work. MAKE : HYUNDAI/ZKTECO/CAMEY/MAGNETIC/TEKWIN	Each	100			-
8	Supply Installation testing & commissioning of Device self Mount Stand for terminal device including cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge. : MAKE : HYUNDAI/VIRDI/Zkteco/SOMFY	Nos	2			-
9	Supply Installation testing & commissioning of Trunstile Stand for terminal Device including cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge having following technical specification : MAKE : HYUNDAI/VIRDI/Zkteco/SOMFY/TEKWIN	Nos	4			-
10	Supply Installation testing & commissioning of 12-core SingleMode OFC including cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge. (MAKE : MOLEX/DLINK/BELKIN/VPRO)	Mtr	1000			-
11	Supply Installation testing & commissioning of Cat 6 Cable including cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge. (MAKE : MOLEX/DLINK/BELKIN/VPRO)	Mtr	305			-
12	Supply Installation testing & commissioning of Cat 6 Armoured Cable including cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge. (MAKE : MOLEX/DLINK/BELKIN/VPRO)	Mtr	305			-
13	S/E of PVC insulated multi core copper conductor cable (unarmoured) 1100 volts grade (round) in existing pole/ pipe, complete in all respect including making necessary connections. i) Size2.50 Sqmm x 3 core (Finolex/RR Kabel/Havells/VPRO)	Mtr	100			-
14	Supply and erection of PVC conduit pipe ISI marked (Medium) recessed in wall/ceiling etc. including cost of PVC bends, inspection box and all other material required to complete the job in all respect up to the entire satisfaction of Engineer-in-Charge of work.					
15	(b) 25 mm dia on surface	Mtr	150			-
16	S/E of Plain HDPE pipe for optical fibre cable as per IS 4984-1995 laid 1 mtr. below ground level including digging and refilling of earth including cost of suitable size socket / cuppler for HDPE pipe, complete in all respect upto the entire satisfaction of Engineer-in-charge of the work. (i) HDPE pipe 50 mm outer dia. (ISI)	Mtr	1000			-
17	Digging of trench for HDPE pipe and fibre optic cable, 4 mtr below ground level with trenchless Horizontal directional drilling machine pipe pulling (HDD) machine complete in all respect.	Mtr	1000			-
18	Supply Installation testing & commissioning of Black, 12F, 1U, Loaded with, Splice tray, Couplers & Pigtails including cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge (MAKE : MOLEX/DLINK/BELKIN/VPRO)	Nos	5			-
19	Supply installation testing and commissioning of SC-LC Fibre Patch Cord with all labour and material required to complete the job in all respect upto the entire satisfaction of Engineer in Charge of the work. (MAKE : MOLEX/DLINK/BELKIN/VPRO)	Nos	20			-

20	Supply installation testing and commissioning of 1-port mini-GBIC LX Single-mode Fiber Transceiver (up to 10km, support 3.3V power) with all labour and material required to complete the job in all respect upto the entire satisfaction of Engineer in Charge of the work. (MAKE : CISCO/DLINK/RUCKUS)	Nos	10		-
21	Supply installation testing and commissioning of 8-Port PoE Switch Layer 2 - Rack Mountable PoE Gigabit Ethernet standalone chassis, provides 8 RJ-45 10/100/1000 BaseT, 2 SFP/RJ-45 10/100/1000 BaseT or 100/1000 BaseX combo with AC power supply, option for stacking module, with all labour and material required to complete the job in all respect upto the entire satisfaction of Engineer in Charge of the work. (MAKE : CISCO/ALCATEL/RUCKUS/DLINK)	Nos	5		-
22	Supply Installation testing & commissioning of outdoor 12*12 box for PTZ including cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge. It Should be dust and water proof. (MAKE : STRONGER/SYNTEX/VPRO)	Nos	5		-
23	Supply and erection of miniature circuit breaker / isolator 240 /415 V in the existing distribution board including making necessary connections. As per HSR 31.17 (CP@30%)SPN MCB of 9 KA breaking capacity 6 amp. to 32 amp.	Nos	10		-
24	Supply, Installation, testing & commissioning of 6U wall mount rack 400mm deep with front door glass consisting of power distribution 5 amp., mounting hardware, cable manager with all labour and material required to complete the job in all respect upto the entire satisfaction of Engineer in Charge of the work. (MAKE :DLINK/DYNAMIC/VPRO/SUNSHINE)	Nos	5		-
25	Supply installation testing and commissioning of Workstation Core i-7,8GB Ram with Graphic card which can encode camera with all labour and material required to complete the job in all respect upto the entire satisfaction of Engineer in Charge of the work. (MAKE : DELL/HP/LENOVO)	Nos	1		-
26	Supply & erection of 25mm Pvc HDPE Flexible pipe including cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge.	Mtr	50		-
27	Supply Installation testing & commissioning of RJ45 Connector including cost of petty material required to complete the work up to the entire satisfaction of Engineer In Charge. (MAKE : DLINK/AMP/WBOX)	Nos	50		-
28	Supply installation testing and commissioning of 1000VA UPS It should High end Micro Controller based, Wide Input voltage range, Short circuit and Overload Protection, Over Temperature Protection, Output Frequency fixed at 50Hz or can be synchronized with Input Frequency, Static Bypass Enable or Disable, Protection from DC Fan failure, 14 AH Battery Capacity, Power Backup 45Min with all labour and material required to complete the job in all respect upto the entire satisfaction of Engineer in Charge of the work. (MAKE : NUMERIC/APC/EMERSON)	Nos	5		-
29	Supply, Installation , testing & commissioning of Software for integration of Smart Terminal along with temperature detection & Time attendance software with customisation on one platform for whole system complete in all respect.	Each	1		-
30	Supply Installation testing & commissioning of 32 inch Smart TV including cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge having following technical specification : MAKE : HYUNDAI/SAMSUNG/LG/PANASONIC	Each	1		-
31	Supply Installation testing & commissioning of LPR CAMERA to capture the Number Plate including cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge having following technical specification : MAKE : HYUNDAI/TEKWIN/DAHUA/ZKTeKo	Each	1		-
32	Supply Installation testing & commissioning of workstation ,Core i-3 PC including cost of petty material required to complete the work upto the entire satisfaction of Engineer In Charge having following technical specification : MAKE : DELL/LENOVO/HP	Each	1		-
GRAND TOTAL					-

Annexure-V

Bank Account details of Bidder

Bidding Details	Tender No.	
	Name of Work	Smart Entrance System with Body Temperature and Mask Detection solution on Face & Palm Verification for Building Entrance on Turn-Key basis
	Closing date & time of Tender	
	Bidder's Name	
Bank Details <i>(upload a Cancelled cheque for verification of these details)</i>	Account Name	
	Account Number	
	Name of Bank	
	IFSC Code	
	MICR Code	
	Bank Address	
Contact Details	Communication Address	
	Landline Telephone No.	
	Mobile No.	
	Email Address	

Date: _____

Signature of the Bidder with seal

Name: _____

Annexure – VI

(Format for declaration which shall be uploaded **as last page** of the bid document)

DECLARATION

(To be furnished by the Bidder on company's Letter Head)

I / we hereby solemnly declare and affirm that the above documentary evidences / declarations are true and correct to the best of my / our knowledge and belief. No part of it is false and nothing has been concealed therein.

Date: _____

Signature of the Bidder with seal

Name: _____