

FILM AND TELEVISION INSTITUTE OF INDIA
LAW COLLEGE ROAD, PUNE - 411 004



TENDER DOCUMENT

Tender No.: D-21013/PN/1930/2018-19 Dated 03.08.2018

**SUPPLY, INSTALLATION, COMMISSIONING & PERFORMANCE TEST RUN OF
GATE MANAGEMENT SYSTEM FOR FTII PUNE WITH 3 YRS ONSITE WARRANTY**

Bid Evaluation will be based on Technical and Commercial bid

(e-procurement through Central Public Procurement Portal (CPPP))

[All correspondence ie Postal and e-mail from tenderer shall be made only to the
Purchase Authority, who has issued this tender otherwise it will not be accepted]

Last date for submission of tender is 16.08.2018 by 3.00p.m.

Contact No. – 020-25580028
020-25580029

E-mail : purchase@ftiindia.com
website : <http://www.ftiindia.com>

Fax No. : 020-25580151

FILM & TELEVISION INSTITUTE OF INDIA
LAW COLLEGE ROAD, PUNE 411 004

INVITATION TO BID

On behalf of the Director, Film and Television Institute of India, Law College Road, Pune - 411 004, e-tender is invited by this Organization in the prescribed Bid forms. The details of the Tender are given in the schedule below:

1		Tender No. & Date	D.21013/NP/1930 /2018-19/PS, 03.08.2018
2		Issue of Tender Forms	From 03.08.2018 to 16.08.2018 download from website only
3		Last Date of Receipt of Tender	16.08.2018 before 3.00 p.m.
4		Date of opening of Technical Bid	17.08.2018 at 3.30 p.m.
5		Description of stores and quantity	As per Annexure
6		Delivery period	within 6 weeks from the date of P.O.
7		Earnest Money Deposit EMD	Rs. 50,000/- (Rs. Fifty Thousand) only
8	i)	Bid bond Validity	90 days beyond bid validity
	ii)	Bid Validity upto	120 days from the date of opening of Technical Bid
9		Warranty	3 years
10		Performance Bank Guarantee / Security Deposit	Rs. 1,00,000/--(Rs. One Lakh) only
	i)	Validity	90 days from the date of expiry of Warranty / Guarantee
11		Correspondence Address	Purchase Officer, Film & Television Institute of India, Law College Road, Pune 411 004., Ph. No. (020) 25580028 Fax : (020) 25430416
12		Paying authority	Accounts Officer, FTII, Pune 411 004

Proposals are invited from reputed Agencies/Companies for SUPPLY, INSTALLATION COMMISSIONING & PERFORMANCE TEST RUN OF GATE MANAGEMENT SYSTEM FOR FTII PUNE WITH 3 YRS ONSITE WARRANTY .

FTII, Pune is planning to implement Access/Gate Management System at the main entrance of the gate for recording the entry/exit of about 450 staff, faculty and contractual manpower and around 450 students daily.(25 no. 4 wheelers approximately and 100 no. 2 wheelers approx.) In addition, about 100 people and 50-60 vehicles other than staff, faculty and students enter FTII daily. In this connection, FTII invites tender proposals from various vendors for submitting their competitive bids duly indicating the products/solutions that meet FTII's requirement. As part of the requirement it is proposed to implement Visitor Management, Vehicle Management, Gate Access Management with Flap barrier, Boom barrier with local control room.

The tender shall be followed in two bid system. Tenderers should take due care to submit their bid through Central Public Procurement only. No Physical bid will be accepted except the EMD. The Tenderer needs to sign each page of this tender document and send it with your offer through CPPP only.

The "Technical Bid" should contain all details including the list of equipments with Brand Name and Model Number to be supplied but with price column blanked out-(BOM). There will be no mention of price anywhere in the "Technical Bid". Scanned copy of EMD should be submitted alongwith the Technical Bid. Original Earnest Money Deposit should be send in form of Demand Draft/Banker's Cheque/Fixed Deposit Receipt or Bank Guarantee drawn in favour of Accounts Officer, FTII, Pune by post before the opening of Technical bid. The organisation will not be responsible for the delay / loss of EMD in the postal transit.

Director, FTII Pune, reserves the right to accept / reject or prefer any tender without assigning any reason whatsoever. This organisation also reserves to itself the right to accept any tender in part or split the order between two or more bidders.

The successful bidder will have to submit a performance Security Deposit within 15 days of the receipt of order in the form of Demand Draft/ FDR/ Bank Guarantee / Banker's Cheque in favour of The Accounts Officer, FTII Pune. The EMD of unsuccessful bidders will be returned on finalization of the tender without interest.

1. Pre qualification Criteria:

Vendor Qualification/Eligibility Criteria	
1	<p>a. Bidder must be a registered company under the Indian Companies Act, 1956 (2010) or The Partnership Act, 1932</p> <p>b. PAN Card</p> <p>c. Sales Tax Clearance Certificate or receipts of payment up to 31st March 2018</p>
	<p>a. Copy of the registered Partnership Deed / Copy of the Certificate of Incorporation</p> <p>b. Scan Copy of the PAN Card</p> <p>c. Copy of the certificate (Form 415) or receipts of payment.</p> <p>d. Copy of the IT Returns filed</p>

	d. Income Tax Returns should be filed in the last 3 years (FY 2015-16, FY 2016-17 and FY 2017-18) e. GST Registration Certificate	e. Valid GST Certificate as per Goods and Service Tax Rule 2017
2	The bidder shall have at least 10 cores annual turnover for the last 3years.	A duly signed and stamped certificate from the Chartered Accountant mentioning the average annual turnover details in the last three financial years i.e. FY 2015-16, FY 2016-17 and FY 2017-18
3	Bidder should have positive net worth in FY 2015-16, FY 2016-17 and FY 2017-18	A duly signed and stamped certificate from the CA (Chartered Accountant).
4	The Bidder should have a valid ISO 9001-2015 certification as on date of submission.	Copy of valid (valid as on date of submission) certificate
5	The Bidder should not have been blacklisted by PSU / Central Government / State Government/ Any Government Department as on date of submission of bid	Undertaking on the letter head of the Bidder should be provided duly signed and stamped by the Authorized Signatory of the bidder
6	The bidder should have successfully completed the supply, commission and integration of all items mentioned below: - (1) Access Control System with Flap Barrier	Two such live sites should be in operation atleast for last 2years client. Provide satisfactory certificate for the same.
7	Self-declaration on bidder's letter head along with related supporting documents such as Shop Establishment, rented agreement (in case of rented office) etc. with office address, Pin code, land line / local telephone no, email.The Bidder must have its authorized support / Service center in Pune to provide 24/7 support & Services	

2. SCOPE OF WORK

Entrance details: Film and Television Institute of India has one entrance which is used for IN/OUT purposes, all entry and exit take place through this one gate, referred to as Main Gate. The main gate controls the Vehicular and pedestrian traffic as well.

The access control and Gate management System is required for following different categories who enter/exit campus for various purposes and they are categorized as :

- Visitors
- Employees / Contract Employees / Academic Staff / Students
- Material Incoming / Outgoing : Returnable / Non-returnable
- Traffic Control and Parking - Involves vehicles : Personal, Commercial , Commercial goods and Carriers .

S.No:	Consideration	Gate Management System
1	<p>Visitors</p> <p>There are different types of visitors on site who come to the campus with or without prior notification and are categorised as :</p> <ul style="list-style-type: none"> . Service and Sales people. . Contractors and consultants . Government representatives. . People who want to tour the Facility . Friends / Family of the employees . Alumni and ex-employees . Student Guest / Friends / Assistants for project shoot purpose . Media <p>. Guest Lecturers / Faculty on short Visits to the campus</p> <ul style="list-style-type: none"> . Other members of the public . VIP visits <p>. VI P visits to the campus are on with or without prior notification , It is ensured that VIP access to the facility are conducted without any hassle at the time of the visit , the procedure for access at the time of visit are completed in advance</p> <p>- Employees / Contract Employees / Academic staff / Students</p> <p>- This category involves in-house staff,</p>	<p>- Issue of temporary entry passes (print outs taken on a thermal printer with scannable barcode) on authorisation of entry , after completing the process which may include :</p> <ul style="list-style-type: none"> . a photograph <p>. Authentication details like name, address, govt. Authorized photo ID, Vehicle no: ,company name , purpose and official to be visited .</p> <p>The Temporary pass need to be issued for a SPECIFIC duration say 4hrs, 6 hrs etc after which it should automatically expire It should mention clearly state the purpose of visit and name of the official/staff/faculty/student who has called the visitor</p> <p>--The procedure for access authorisation of the visit are to be completed in advance.</p> <p>-Issue of proximity card or contactless SMART CARDS for this category which typically will range from 700-800 in number.</p>

<p>i.e. _Employees / Contract Employees / Academic staff / Students</p> <ul style="list-style-type: none"> - Issue of cards to all mentioned above and access to the facility will only be authorised on automatic recognition of the issued cards . <p>Material Passes Incoming / Outgoing : Returnable / Non-returnable</p> <ul style="list-style-type: none"> - Incoming material (Returnable / Non- returnable) - Outgoing material (Returnable / Non-returnable) <ul style="list-style-type: none"> - Material Pass authorizes the removal of company property from the facility. This pass is usually only issued by a limited number of authorized personnel. Preferably the requisition to be made by the basic user and same to be authorised by Head of the department <p>Traffic Control and Parking –</p> <p>The category may be considered part of Access control will involve vehicles as per the category mentioned below :</p> <ul style="list-style-type: none"> - Staff Cars - Personal - Commercial - FTII vehicles/ Hired Vehicles 	<p>Classification will be as under:</p> <ul style="list-style-type: none"> a) FTII employee b) On Contract c) Student d) Outsourced Manpower <p>The cards should have a facility of locking where by access to the campus may be blocked if required. The agency will be required to print and issue these 700 to 800 SMARTCARDS and train manpower deployed at FTII for the Gate management System</p> <p>NOTE: The SMART CARD system should be such that after "entry" only "exit" be allowed and not "entry again" to prevent misuse of the smartcard for availing unathorized entry.</p> <p>For Visitors:</p> <p>Authorisation of entry to/ exiting from the Main Gate may be done by signing in and authentication of purpose and issue of pass as per the procedure .</p> <p>For Staff & Student Cars/Vehicles: Entry on the basis of Stickers on vehicles.</p>
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NOTE:

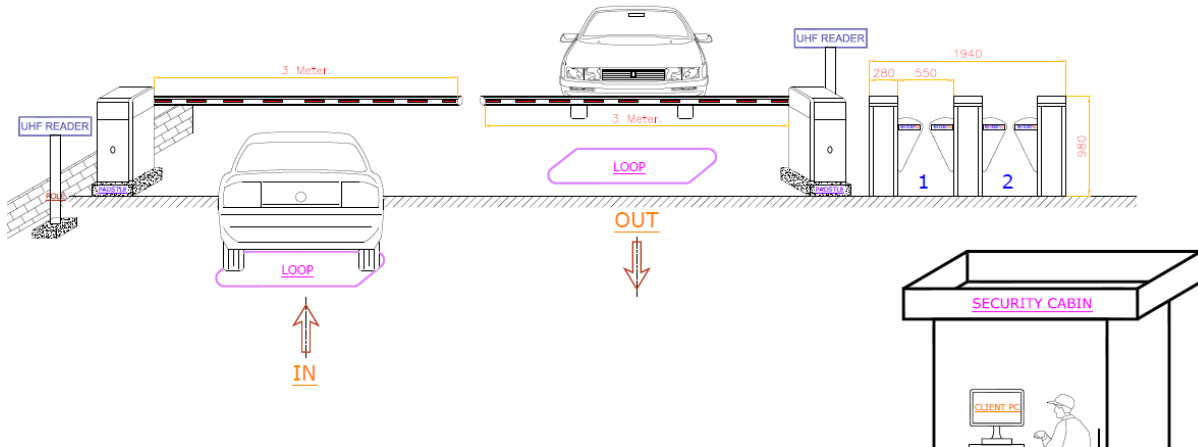
1. The system should be customizable and flexible enough to accommodate changes which may be required to be done to facilitate smooth roll out of the system.

2. CENTRALIZED APPLICATION SOFTWARE:

Access control software for monitoring and managing the overall system data. The software will communicate with all the proximity readers to capture the data stored and will also enable new enrolment for generation of fresh passes. A web application will allow the operator to access the system and carryout the registration process and generate the reports from any PC connected

in the network. Only authorized personnel will be allowed to carryout the registration process and generate the reports. Reports can be customized to the user requirement.

3. Two Nos boom barriers and 1 Nos Flap Gate Double lane are to be provided and set up as shown in the diagram below:



**UHF Reader is not required. Combo Cards/ Smart cards are required.

Terms and Conditions:

- 1) Technical bid should include information to all specifications sought. It should also contain company brochures of all equipment's and should be accompanied by relevant technical document issued by manufacturer in support asked for.
- 2) Firms should be submitting only required documents mentioned in technical specification.
- 3) Tender should be accompanied by EMD except those who are registered with central purchase organization National Small Industries Corporation (NSIC) or the concern Ministry/department. Tender not accompanied by earnest money will not be considered and will be summarily rejected.
- 4) Vendor must have minimum 2 live site in India where proposed Gate management system integration with RFID based vehicle /visitor management is in operation at least for 3 years.
- 5) After Submitting a Tender Bidder should arrange physical demo of all Hardware and Software at FTII and after successful demonstration of product then only bidder will qualified for commercial BID.
- 6) The implementation shall be on a turnkey basis and the Bidder shall submit implementation plan for the full system including systems, applications, dry runs at least three times and on site presence for the period of one month for the purpose of training to be in ready for service condition.

- 7) Cost of associated of Civil work, Canopy and fabrication work is in FTII Scope. Bidder should Guide concerned authority for Drawing.
- 8) The Bidder shall provide minimum three years on-site warranty and undertake to provide 3 years of Annual comprehensive Maintenance Contract thereafter. The Bidder shall indicate the onsite warranty period offered for all the products in the propose solution. Details shall be given of the support available during the warranty period that succeeds the commissioning of solution. The payment will be made on completion of the quarterly period on pro -rata basis.

The agency should be equipped to provide a strong reporting structure along with measurement tools to evaluate the impact of the activity.

- 9) The vendor shall design, supply, install, commission and conduct performance test run of the Gate management System at FTII, Pune.
- 10) Vendor shall provide integrated system for facilitating access control as per the Requirements.
- 11) Entire details of personnel entering the premises including Entry and Exit times should be uploaded into the master database.
- 12) A hard copy of the presentation is to be attached by the Bidders with the Technical Bid.

13) DESIGN

- 13.1 The vendor shall collect the details of the existing location to carry out the design and preparation of the inter-connection diagram of the proposed Gate Management system.
- 13.2 The vendor shall coordinate and create the database of the personnel and download the same into the proposed Access control software.
- 13.3 The access control system shall be designed such that the flap gates shall open by default in the event of power failure.

14) SUPPLIES

- 14.1 Supply shall include all the hardware as per the Bill of Material in the following pages.
- 14.2 The vendor shall supply the complete documentation i.e. technical catalogues for various components, power/signal diagrams, test certificates, warranty certificates, user manuals etc.

15) TRIAL RUN

- 15.1 The system will be under trial run for a period of Three (3) months from the date of successful commissioning.
- 15.2 During trial run vendor shall create database of all Security Guards/ personal etc., and ensure successful operation of the system.

16) TRAINING

- 16.1 The vendor shall provide the required training to the nominated FTII personnel on maintenance and operation aspects of the Access control.
- 16.2 The vendor will provide training on any active parts and demonstrate setup/ disassemble of the unit(s) described within the specifications above.

17) WARRANTY PERIOD SERVICES

- 17.1. During warranty, the vendor shall attend trouble-shooting of any system malfunction of the system within 24 hours. Any part if found defective shall be replaced/repared free of cost.

18) DOCUMENTATION

- 18.1 The vendor shall provide the technical literature for each component of the access control system. The data sheet, wiring diagram, inter-connection block diagram. Operation and Maintenance manual etc, shall also be provided.
- 18.2 The warranty certificate, test certificates indicating the codes and standards shall also be provided.

19) ACCEPTANCE / REJECTION OF BID – PART OR FULL

- 19.1 FTII reserves the right to accept any tender in whole or in part or reject any or all tenders without assigning any reason whatsoever.
- 19.2 Further, FTII shall not be bound to accept the lowest tender and reserve the right to accept any or, more tenders in part. Decision of FTII in this regard shall be final and so dispute can be raised.
- 19.3 Specifications mentioned in the tender document are the minimum requirements for the proposed system, however vendor may offer higher configuration over and above the requirement. Offers not meeting the minimum requirement shall be liable for rejection.
- 19.4 All the materials covered under this tender will be awarded to lowest party and items will not be split.

20) DEVIATION LIST

Any deviation from the “specification/configuration” and the “Notes/Instructions to the vendor” shall be clearly indicated by the vendor in a separate “**deviation list**” as below

EXCEPTION / DEVIATION PROFORMA

Film & Television Institute of India, Pune, accepts the bidders to fully accept the terms and conditions of the tender document. However, should the bidder still envisage some exception/deviations to the terms and conditions of tender documents, the same should be indicated here and put in unpriced bid. If this proforma is left blank, then it would be presumed that bidder has not taken any exception/deviations to the terms and conditions of the tender documents.

Clause No. of Tender Document	Full Compliance not agreed	Exception/deviation taken by Bidder	Confirmation if price effect for withdrawal of this exception has been specified in the Price Bid	Remarks

Signature of the Bidder/Tenderer

Name Seal of the Company

21) DELIVERY MATERIAL

- 21.1 Delivery of material shall be on door delivery basis.
- 21.2 Packing & unpacking. Loading & unloading of material shall be in vendors scope

22) JOB COMPLETION PERIOD

- 22.1 Entire supplies, installation and commissioning shall be completed within Three (3) Months from the date of P.O.
- 22.2 Vendor shall make his own arrangements for his to and fro travel to the work site, local conveyance, lodging and boarding.

23) ADDITIONAL NOTES:

- 23.1. The vendor must indicate the make and model item wise as per the suggested vendor list. However FTII at its own option may accept the higher configuration of items, provided all functionality and performance of the current tender specifications are retained.
- 23.2. The vendor shall provided the list of installations and customer references of similar access control systems in India. The satisfactory performance certificates from the customers shall also be provided. The vendor must have the required infrastructure (trained and skilled engineers, technicians, spares set up etc.) for providing the after sales services/warranty period services. Contact details of vendor's location in-charge related to the after sales services shall be indicated in the offer.
- 23.3. The vendor shall follow the rules related to the gate passes and entry in FTII premises. FTII shall issue the required gate passes for manpower deployed by the vendor during installation and commissioning the vendor shall have to provide the relevant information of their manpower to FTII.
- 23.4 The vendor's entire staff shall follow the FTII job engineer's instructions for taking up any job inside the FTII premises. Vendor to follow Work permit system and follow all safety precautions as applicable. Vendor shall obtain necessary approvals from concerned Engineers before taking up the work.

24) WARRANTY/ DEFECT LIABILITY PERIOD

- 24.1 All the works executed by the vendor including all the supplies made will be covered under defects liability period. The defects liability period shall be 36 months from the date of completion of Trial run.
- 24.2 During warranty/ defects liability, the vendor shall attend trouble-shooting of any system malfunction of the system within 24 hours. Any part if found defective shall be replaced/ repaired free of cost.
- 24.3 The Bidder will have to depute his engineer for thorough check of the system once in six months and also as and when required.

- 24.4 All the charges incurred for to and fro, boarding and lodging and any individual charges will be borne by bidder.
- 24.5 Cost of replacement of any damaged part will be to FTII account.

25) PAYMENT TERMS

The payment will be realised after complete installation and training as per the scope of the work within 30 days. The AMC / support payment will be realised on quarterly basis after satisfactory report from the user department

#Technical Specification of Flap Barrier Gate (Double Lane with all accessories).

Items	Descriptions
Material Type	SS 304 with Brush Finish
Operation	Bi-directional
Protection	Three Surface layer in accordance with special coating (Zinc Plus 2 layer of plastic coating)
Application	Outdoor
Lane Width	1100 mm
Lane Type	Double
Flaps	Regular lane: Soft Wing with steel reinforcement.
Locking	Electromagnet locking with two optional sensor
Throughput	25 to 30 person per min (including validation of card)
Power Supply	230+/- 10%VAC, 50hz
MTBF- Mean time between failure	2 million cycles.
Housing dimensions	Regular lane : 1100x 250 x 980mm
Protection	IP44
Power Of /Emergency	Fail safe mode – Flap shall open during power failure. Also can be configured for flaps to remain close during power failure
Duty Cycle	100%
Integration	Shall function in integration with Combo HID Mi fare card
Temperature Range	-5 C to +55 C
Sensors	Each lane 3 Photo electrical sensor for protection of tailgating and safety.

Make	Gunnebo/Magnetic/Faac/Entero/Came
Certification	CE/UL, ROHS, FCC.

Automatic Boom Barrier System

Items	Descriptions
Lane Width	3 meters
Opening/closing time	1 to 1.5 Sec.
Power consumption max	25 W/ 30 W
Duty cycle	100%
Supply voltage	Wide voltage range 85- 264 V AC
Frequency	50 – 60 Hz.
Housing design	Powder coated aluminum
Base Frame	Powder Coated stainless Steel.
Protection Class	IP54
Motor	Servo
	Three Surface layer in accordance with special coating (Zinc Plus 2 layer of plastic coating)
Power Of /Emergency	Fail safe mode – Boom shall open during power failure. Also can be configured for Boom to remain close during power failure
Integration	Shall function in integration with Combo HID Mi fare card
Temperature Range	-30 C to +55 C
Control unit modularly extendable	Radio control and additional loop detector only.
Number of digital inputs	8
Number of relay /digital outputs	6/4
Specified number of cycles	20 Moi
Sensors	Each boom 2 Photo electrical sensor for protection of tailgating and safety
Make	Gunnebo/Magnetic/Faac/Entero/Came
Certification	CE/UL, ROHS, FCC.

#Access Controller Panel

Items	Descriptions
1	Capacity 30000
2	Storage : 100000 Transactions
3	Ram
4	Reader Port 26.32 bit
5	Operating temp 32-113 F(0-45)
6	32 bit MIPS CPU
7	Communication RS485,Tcp/IP
8	Baud Rate 9600-28400 baud
9	Power Supply 9.6V-14.4V Dc, 1A
10	The Master Controller shall communicate with host system by using Tcp/Ip
11	Master Controller shall be compatible with windows 7, Xp and any other host supporting TCIP networked interface
Make	Gunnebo/Magnetic/Faac/Entero/Came
Certification	CE/UL, ROHS, FCC.

#Vehicle Access Controller

Items	Descriptions
1	Capacity 30000
2	Storage : 100000 Transactions
3	Ram
4	Reader Port 26.32 bit
5	Operating temp 32-113 F(0-45)
6	32 bit MIPS CPU
7	Communication RS485,Tcp/IP
8	Baud Rate 9600-28400 baud
9	Power Supply 9.6V-14.4V Dc, 1A
10	The Master Controller shall communicate with host system by using Tcp/Ip
11	Master Controller shall be compatible with windows 7, Xp and any other host supporting TCIP networked interface
Make	Gunnebo/Magnetic/Faac/Entero/Came
Certification	CE/UL, ROHS, FCC.

#MIFARE / HID Proxy Combo Card

Items	Descriptions
1	MIFARE / HID Proxy Combo Card, ISO Thick, Photo Image able
2	Internal Memory - 1K,
3	ISO 14443-Type-A, Frequency: 13.56 Mhz, Size: CR 80, Plain white color to enable color

	printing on both sides of the card.
4	It should be Strong, flexible and resistant to damage
5	For Photo ID, it should allow printing directly to the card with a direct image or thermal transfer printer & should be optimized for dye sublimation printing.
6	The card shall meet ISO-7810 specifications for length, width, thickness, flatness, card construction and durability
7	The system matches the card number against the internal numbers (no cross-referencing).
8	The card shall be read without a direct contact on the biometric smart card reader

#MIFARE / HID Proxy Combo Card reader

Items	Descriptions
1	Beeper and multicolor LED which can be host/ or locally controlled.
2	Compatibility across the product line shall be assured with the need of special programing
	The contactless smart card reader shall enable backwards comp ability with legacy 13.56 Mhz control formats (eg. 26bit, 32 bit)
3	Various beeper and LED configurations, depending on individual site requirements.
4	Compatible with all standard access control systems
5	Waterproof, conforms to IP66
6	Wiegand 26~37 bits output (default: 26bits)
7	Working temperature: -40 °C ~ 60 °C(-40 °F ~ 140 °F)
9	Card Type 125KHz - EM & Hid Card 13.56MHz - Mifare Card (ISO 14443A Compatible)

#Web Camera

Items	Descriptions
1	HD video calling (1280 x 720 pixels) with recommended system
2	Video capture: Up to 1280 x 720 pixels
3	Photos: Up to 3.0 megapixels (software enhanced)
4	Built-in mic with Logitech Right Sound™ technology
5	Hi-Speed USB 2.0 certified (recommended)
6	Universal clip fits laptops, LCD or CRT monitors
Make	Logitech/I ball/Microsoft

Thermal Printer

Items	Descriptions
1	Print technology Monochrome laser
2	Print speed Up to 14 ppm First page out: Less than 10 sec. due to Instant-on Technology (no warm-up time – from warm or cold start) Speed specification per industry standard testing methods
3	Processor 234 MHz RISC processor
4	Memory 2 MB
5	Print quality 1200 dpi-like quality (600 dpi with REt and FastRes)
6	Media types Thermal Printer
7	Interface and connectivity Standard: 1 Hi-Speed USB (compatible with USB 2.0 specifications) port
Make	Epson/HP/Cannon

#Document Scanner for ID Scanning

Items	Descriptions
1	Document Scanner – Captures any document up to A4 size at high resolution in about one second. Object Photos - It can capture an object up to A4 size in one second. Copier - It can capture a document or an object up to A4 size in one second. The captured document can be printed out via any printer. Presenter - To project a paper document or a real object to the large screen using PC or laptop. Smart and Portable, easy to use. Video Recording - Its video recording function can record the progress of any operation or demo. Powerful OCR Function – Optical Character Recognition feature helps in conversion of images of text into characters which can be edited.
2	Image Sensor : 2 Mega pixel CMOS Active Pixel Digital Image Sensor
3	Scanner Type : Foldable and Contactless Portable Document Scanner
4	Page Support : Up to A4 Size
5	Image Resolution : 1600 x 1200 pixels
6	Frame Rate: Variable with selected screen size.
7	Scan Speed : One-click-scan, in a fraction of a second
8	Interface : USB 2.0 Interface
9	Image Formats : JPG, BMP, TIF, PDF, GIF, PNG, TGA, PCX
10	Light : Ambient light
11	Certifications : CE, FCC, RoHS
12	Lens : 3G1P + IR
Make	HP/Epson/Iball

Barcode Reader

Items	Descriptions
1	Light source: 660 nm visible
2	2048 pixel ccd
3	150 mm (code 39, 500Lux, PCS=90%, 20mils)
4	Beeper operation : 7 tones or no beep

5	Indicator : Green LED
6	Cable : USb/RS232
7	EMC : CE,FC
Make	Honeywell/Agrox

USB Finger Print Reader

Items	Descriptions
1	Enrollment reader/station shall be interfaced with the client (having OS Windows 10) having enrollment software through USB plug and play interface.
2	Verification time shall be less than 1 second for 1:1 mode and 2/3 seconds for 1: N mode.
3	Resolution: Minimum 500 dpi, shall capture in ISO 19794 Format for Interoperability
Make	Suprema/Marpho

#HID Mifare combo card Sticker

Items	Descriptions
1	Operating mode: Passive (battery-less transponder)
2	Flexible Read / Write Range: Read up to 12 meters or higher. Write up to 5 meters.
3	Rugged construction for high durability
4	Use: Attachment by screws with the help of two holes/Adhesive and temporary handheld type

#Wire and accessories

Items	Descriptions
1	Power cable unarmored 3 core 1.5 sq mm make : finolex/delton/usha/ molesx/tyco/sterlite
2	Control Cable 1 pair twisted. Shielded make : finolex/delton/usha/ molesx/tyco/sterlite
3	Junction box with Accessories : Standard
4	Cat 6 cable make : Dlink/molesx/tyco/sterlite

#Head count display

Items	Descriptions
1	3 Line Display
2	Communication TCP/IP/RS 485
3	Single Color LED Display
4	Outdoor
5	IP66 grade
6	Epoxy Powder coated structure base
7	Bracket

#Server for Access Control (will be provided by FTII data centre)

#Client for Gate Pass generation (Desktop computer with following specs or better)

Items	Descriptions
1	i3-7100 (Processor), 2TB HDD SATA , DVD Writer
2	Windows 10 Pro (Operating System)
3	49.53cm (19.5) (Display)
4	Key board
5	Mouse

Bill of Material

Sr No	Items	Qty/ unit	Unit rate	Total Amount including taxes
1	WEB Base Access Control system & VMS Application	1 nos		
2	Flap Barrier Gate (double Lane with all accessories)	1 nos		
3	Controll Panel to manage Flap Access	3 nos		
4	Traffic Control Management System	1 nos		
5	MIFARE / HID Proxyy Combo Card reader	6 nos		
6	Automatic Boom Barrier System	2 nos		
7	Vehicle Access Controller	2 nos		
8	MIFARE / HID Proxyy Combo Card	1000 nos		
9	Web Camera	1 nos		
10	Thermal Printer	1 nos		
11	Bar code Scanner	1 nos		
12	Document Scanner for document scanner (ID Card)	1 nos		
13	USB Finger Print Reader	1 nos		
14	Power cable unarmored 3 core 1.5 sq mm	300 meters		
15	Control Cable 1 pair twisted.	100 nos		

16	IP66 Junction box with Accessories	1 nos		
17	Cat 6 STP cable	305 meters		
18	Workstation for VMS pass generation at security desk	1 nos		
19	Installation and Commission with 3 year Service Support	1 nos		

Note1: Bill of Material should be submitted along with Technical bid and the prices should be submitted in BOQ format only.