

**TENDER FOR
SUPPLY, INSTALLATION AND MAINTENANCE OF CCTV CAMERAS
ON RENTAL BASIS AT INDIAN MARITIME UNIVERSITY-MUMBAI CAMPUS
PALM BEACH BLOCK**



**TENDER No: IMU/2016/0004
Issue Date: 25th November,2016**

Issued To,

Issue of Tender Document	1000 Hrs 25/11/2016 to 1100 Hrs 15/12/2016
Last Date/Time of submission of the Tender	1430 hrs on 15/12/2016
Date and Time of opening of the Technical Bids	1100 Hrs on 22/12/2016 , IMU Mumbai Campus
Date and Time of opening of the Financial Bids	1100 Hrs on 28/12/2016 , IMU Mumbai Campus

All bidders are requested to visit IMU Mumbai Campus website: www.imumumbai.com for regular updates.

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INSTRUCTIONS TO THE BIDDERS

1. General Information:

- i. Tenders are invited by the Deputy Registrar (Admin.), IMU, Mumbai Campus, Karave, Nerul, Navi Mumbai- 400706 for and on behalf of IMU for SUPPLY, INSTALLATION AND MAINTENANCE OF CCTV CAMERAS ON RENTAL BASIS at IMU Mumbai Campus, Palm Beach Block as per attached **Annexure A** in the technical bid of tender documents.
- ii. Tender documents consisting of Technical & Financial Bids shall be submitted by the bidders in two separate sealed envelopes, Cover-I named 'TECHNICAL BID IMU/2016/0004.' and Cover -II named 'FINANCIAL BID IMU/2016/0004', latest by 1430 hrs on **15/12/2016** and . Both the above said Sealed Covers i.e. Cover -I & Cover -II be then put in another separate big cover (Cover-III) and properly wax sealed.
- iii. Sealed bids should be dropped in the Tender Box at First Floor, Administrative Building, IMU Mumbai Campus, Nerul, Navi Mumbai or sent by registered post in the address mentioned for communication below and to reach this office by due date and time. Late tenders will not be accepted in any circumstances and no responsibility will be taken for any postal delay or non-receipt/non-delivery of the bid documents.
- iv. A bidder may modify or withdraw his bid after submission provided that the written notice of modification or withdrawal is received by this office prior to deadline prescribed for submission of bids. No bid shall be modified after the deadline for submission of bids and expiration of the period of bid validity specified. Withdrawal of a bid during this period will result in Bidder's forfeiture of bid security.
- v. The technical bids of the tender shall be opened by a committee nominated by the Director, IMU, Mumbai Campus in the presence of the authorised representatives of the bidders, if present, at 1100 Hrs on **22/12/2016** in the office of the Deputy Registrar (Admin), IMU Mumbai Campus.
- vi. The technical bids, which do not contain full information and documents called for, shall be rejected. The financial bids of only those bidders shall be opened, whose technical bids pass scrutiny. The technical specifications mentioned here are minimum specification and bids with higher specifications are also admissible.
- vii. The financial bids of the tender shall be opened by a committee nominated by the Director, IMU, Mumbai Campus in the presence of the authorized representatives of the bidders, if present, at 1100 Hrs on **28/12/2016** in the office of the Deputy Registrar (Admin.), IMU, Mumbai Campus.
- viii. The bidders shall submit all details, documents etc. as required in the tender document duly signed on each page. In case bidder fails to do so, IMU, Mumbai Campus reserves the right to reject the tender without seeking any further clarification. **All the pages should be serially numbered.** The total number of pages should be mentioned in the forwarding letter. It is preferable that the tender may be spirally binded.

- ix. All communications with regard to this tender to be addressed to

**The Deputy Registrar,
Indian Maritime University
Mumbai Campus,
Karave, Nerul,
Navi Mumbai - 400706
[Tel:022-27706809](tel:022-27706809) Fax:022-27716805
Email: dradmin.mumbai@imu.ac.in**

- x. IMU, Mumbai Campus at its sole discretion reserves the right to extend last date of submission of tender and the same shall be updated in IMU Mumbai Campus website and all bidders are requested to visit the website for latest updates.
- xi. IMU, Mumbai Campus reserves the right to annul the bidding process at any time without any liability for such annulment, without assigning any reason there to.
- xii. IMU, Mumbai Campus reserves the right to invite revised tenders with or without amendment at any stage without any liability for such invitation and without assigning any reason thereof.
- xiii. IMU, Mumbai Campus shall notify the successful bidder through Registered letter/ speed post / fax / e-mail or in person confirming that their offer has been accepted. IMU Mumbai Campus will issue the Award letter to the successful bidder. This PO shall indicate the details of services be supplied by the bidder and the amount which IMU, Mumbai Campus shall pay to the successful bidder in consideration of the execution of the contract by them.
- xiv. The cover letter placed at **Annexure B** is to submitted alongwith tender document.
- xv. Upon receipt of the Purchase Order by the Contractor, he shall prepare two sets of the Agreement as per **Annexure – ‘L’** of the tender documents at the earliest without any delay and complete all the formalities and submit the same to IMU. The agreement should be submitted by the contractor along with the required security deposit. One set of the agreement will be returned to the Contractor after the signature of authorized signatory of IMU Mumbai Campus.
- xvi. Quoted rates must be valid for 1 year from the date of closing of tender.
- xvii. If successful bidder fails to enter into contract within 7 days, the next successful bidder will be called.
- xviii. Successful bidder will nominate a Officer/Manager as single point of contact to IMU Mumbai Campus to promptly address the issues raised by the Campus.
- xix. The bidder is advised to visit the site and surroundings where the CCTV installation are to be provided and acquaint himself with the operational system and understand the information that may be required for the

preparation of the tender and for entering into contract for providing CCTV Cameras on rental basis. The costs of visiting the site shall be borne by the bidder. It shall be deemed that the contractor has undertaken a visit to the site and is aware of operational conditions prior to the submission of the tender documents. Permission, if required, to visit the site will be given during the tender period on application to:

DEPUTY REGISTRAR
Indian Maritime University
Mumbai Campus
Karave, Nerul, Navi Mumbai - 400706
Tel : 022-27706809

- xx. Clarification of Tender Documents: A bidder requiring any clarification regarding the tender documents may notify in writing to the address mentioned in the invitation of tenders or E-mail to dradmin.mumbai@imu.ac.in. IMU Mumbai Campus will respond to any request for clarification, received one week prior to the deadline for submission of tenders.
- xxi. At any time prior to the deadline for submission of tenders, IMU Mumbai Campus may, for any reason, suo motu or in response to a clarification by a prospective bidder, modify the tender documents by issuing amendments (addenda/ corrigenda etc.)
- xxii. Any amendment thus issued will be hosted on the website upto two days prior to the last date i.e 15th December 2016 as specified for submission of the bids. All the bidders who have downloaded the Bid Document shall verify if any such amendments(s) have been issued by IMU –Mumbai Campus, before submitting their bid and shall take cognizance of and include such amendment(s) in their submission. In any case, the amendment(s), if any, shall be binding on the bidder. No separate notice/ intimation of amendments will be sent to those who have downloaded the document from the web or bought tender documents from IMU Mumbai Campus prior to the date of amendments.
- xxiii. Tenders shall remain valid for 120 days from the last date for submission of tender i.e 15th December, 2016.
- xxiv. Tender opening, Bidder Participation, stages of Evaluation (Technical and Financial)
- a) Tenders will be opened at the Deputy Registrar's office, IMU Mumbai Campus, Karave, Nerul, Navi Mumbai, at 1130 hours on 22.12.2016. Any bidder who are willing to observe the tender opening, may, in person or through his authorized representative, be present at the venue and witness the tender opening. **In case of authorized representative**, bidder should send a letter of authorization containing the specimen signature of their representative who is deputed to be present at the time of opening of tenders. **Representatives without the letter of authorization** will not be permitted to witness the opening of the tender. The maximum number of representatives that a bidder can depute to witness the opening of the tender will be limited to one.
 - b) The bidder or his authorized representative who are present shall sign a register evidencing their attendance. In the event of the specified date of tender opening being declared as a holiday for the IMU-Mumbai Campus, the tender shall be opened at the specified time on the next working day.
 - c) The information furnished by the bidder in Cover - I in the prescribed format supplied by the IMU-Mumbai Campus will form the basis for the evaluation. In exceptional cases IMU-Mumbai Campus or his representative

reserves the right to obtain the clarifications from any of the bidder without vitiating the tendering process. If, in the opinion of the IMU-Mumbai Campus, information and documents supplied in support of the tender do not indicate meeting the requirements of the tender specifications, the tender may be determined as non-responsive and may be rejected by the IMU-Mumbai Campus.

- d) After satisfying that all / or some of the bidder have attained the minimum qualifying criteria as detailed above, only technically qualified bidders will be kept and sealed in a separate cover. A suitable date and time for opening of the Cover II – Price Bids will be fixed and those bidder(s) who are qualified will be intimated about the opening of Cover - II – Price Bids. The Cover- II -Price Bids will be opened in the presence of the qualified bidders or their authorized representatives, If they choose to attend and present. The procedures and number of participants etc., for opening Cover - II will be the same as the procedures outlined in Clause (a) & (b).
- e) After evaluating the price bids received under Cover II, the bidder who quoted the lowest (L-1) Price will be awarded the work. In case the financial bid of more than one agency is same as L-1, then IMU- Mumbai Campus will be assigning marks to various eligibility parameters like turnover, number of years of relevant experience etc. of such L-1 bidders and work will be awarded to the bidders who score highest marks, among the L-1 bidders.
- The contract period shall be deemed to have been commenced from the date on which the contractor takes over the site based on Instruction from IMU-Mumbai Campus to commence or the 10th day of instruction by IMU-Mumbai Campus to start the work whichever is earlier.

2. Deposits , Guarantee and damages

The estimated value of Contract is Rs.2 lakhs

i. Earnest Money Deposit (E.M.D)

Earnest Money Deposit (E.M.D): Rs.10,000/- (Rupees Fifty Thousand Only) by way of D.D./P.O in favour of **IMU, Mumbai Campus payable at Mumbai or Navi Mumbai** to be submitted to Dy. Registrar (Administration), IMU, Mumbai Campus along with Technical Bid. The bids of the bidder, who fail to submit E.M.D, shall be summarily rejected.

The EMD of the bidders, who are not qualified under the technical bid, shall be returned within 30 days from the date of opening of the technical bid.

The EMD will be forfeited in the following cases :-

- a) In case the bidder withdraws his tender once submitted.
- b) If the successful bidder fails to enter into a contract/agreement within 07 (seven) days from the date of receipt of Purchase Order.

No interest will be allowed on the Earnest Money from the date of its receipt until it is refunded.

ii. Security Deposit:

The successful bidder shall, within 07 days from the date of receipt of award letter, deposit with IMU Mumbai Campus a sum equal to 8% of the value of the accepted tender, in the form of Demand Draft / Bank Guarantee from any Nationalized bank/Scheduled bank, failing which IMU-Mumbai Campus may at its discretion cancel the award letter and forfeit the earnest money deposit furnished along with the tender.

The security deposit amount of 8 % of the contract value so deposited, will be refunded within 30 (thirty) days from the date of complete of contract as per tender document.

In case security deposit amount fall short on subsequent order, the bidder must deposit the differential amount of Security deposit within 10 days of subsequent order. Security Money will not carry any interest.

iii Cancellation of order/forfeiture of Security Deposit, Risk purchase clause:

In the event of failure to install the CCTV Cameras within the stipulated date/period in accordance with the specification, IMU-Mumbai Campus reserves its right:-

- To cancel the order
- To forfeit the security deposit
- To deply Security Services from next bidders at the vendors risk, responsibility and cost. Any extra cost incurred in the procurement of the material from the alternative source will be recovered from Security Deposit/Bank Guarantee as referred to earlier and if the value of the materials under risk purchase exceeds, the amount of Security Deposit/Bank Guarantee, same may be recovered, if necessary, by due legal process.

iv Time Period

Within 30 calendar days from the date of receipt of Purchase Order, the Contractor shall install CCTV system as specified in the tender documents.

v Settlement of Disputes:

The Bidder shall make request in writing to the Director, IMU, Mumbai Campus for settlement of any dispute within 30 (thirty) days of arising of the cause of dispute, failing which no disputes/claims shall be entertained by the IMU, Mumbai Campus. The decision of the Director, IMU Mumbai Campus will be final and binding on the parties.

Jurisdiction: The Court of Mumbai in the State of Maharashtra only will have the jurisdiction to deal with and decide any legal matters or disputes what-so-ever arising out of this contract.

vi Payment Terms:

- a) Payment shall be made only after issue of satisfactory supply, installation and commissioning certificate from the Officials of the IMU Mumbai Campus.
- b) No advance Payment will be made.

PRE-QUALIFICATION CRITERIA

1. The bidder should not have been blacklisted by the department / Ministries of the Government of India / PSUs / corporate Sectors / Educational Institutions / any other reputed organizations. **(Self Attested Affidavit has to be submitted by the bidder)**
2. The bidder should submit copy of valid Trade License, PAN and Sales Tax / VAT Registration No. with the Technical bid of Tender documents.
3. The bidder should submit the Income Tax return for last three previous years ending 31st March 2016 with the Technical bid of Tender documents.
4. The bidder should submit one of the following:-
 - i. Proof of Registration of the bidder under relevant law such as Companies Act, and /or Shop & Establishment Act.
 - ii. For Partnerships firms, full name and address of each partner along with the certified copy of the registered partnership deed, copy of Trade License.
 - iii. For proprietorship firms, full name and address of proprietor along with the copy of trade license.
5. Only such firm may apply who have experience of handling atleast three similar contracts/works of installing CCTV Cameras in Govt. Organisations/Universities/Societies/Educational Institutions.

[*Mode of proof:* Copy of Purchase Order/Contract for providing 'Award of Work'. Copy of Completion Certificate'/Final Invoice/Letter indicating return of Security Deposit for providing satisfactory 'Completion of Work'. Should be furnished for each of the 2 Projects.

SCOPE OF WORK

The Scope of work is to provide CCTV Cameras at IMU Mumbai Campus, Palm Beach Block, Karave, Nerul, Navi Mumbai-400706 on rental basis. The tentative requirement of Cameras to be installed at IMU Mumbai Campus, Palm Beach Block is 45.

Annexure – B

ANNEXURE –B COVER LETTER FORMAT (In letter head)

TENDERERS PARTICULARS FOR TENDER NO:

The Director
Indian Maritime University, Mumbai Campus,
Karave, Nerul, Navi Mumbai-400706.

Sir,

Being duly authorized to represent and act on behalf of _____ hereinafter called “The Tenderer” and having visited the site and examined the Scope of work, Conditions of Contract, Specifications, Schedules and Bill of Quantities for the work of “**TENDER FOR PROVIDING SUPPLY, INSTALLATION AND MAINTENANCE OF CCTV CAMERAS ON RENTAL BASIS AT INDIAN MARITIME UNIVERSITY-MUMBAI CAMPUS, KARAVE, NERUL, NAVI MUMBAI – 400706**”

I/ we here by submit my/our offer as follows:

b) Technical Bid– Annexure C (in separate sealed cover along with EMD of Rs. 10,000/- & other documents) (Cover I)

(b) Financial Bid–Annexure D (in separate sealed cover) (Cover II)

2. The two sealed covers containing technical bids and financial bids referred to above have been put in main cover (Cover III) as required.

3. I hereby undertake to abide by various terms and conditions contained in your **TENDER No: IMU/2016/0004** (Copy, duly signed, enclosed).

We understand that IMU Mumbai Campus reserves the right to,

- a) Amend the scope of tender
- b) Reject or accept any tender including the lowest, cancel the tender process and reject all tender.
- c) We agree that the IMU Mumbai Campus will not be liable for any such action and will be under no obligation to inform the Tenderer of the grounds for such action.
- d) I also certify that the details furnished in the bids, various enclosures and other documents are true and correct.

4. I also express my willingness to sign the contract incorporating the Standard terms and special conditions of the contract as contained in the Tender.

Yours Sincerely

(Signature of the Owner/ Bidder/ Authorized signatory and please indicate capacity which signed Viz. on own behalf or as Power of Attorney or Authorized signatory of the owner. Please also include the contact No. and address in the Place) **Note:-Please put this offer letter in Cover I (containing Technical Bid) along with other required documents.**

FORMAT FOR THE TECHNICAL BIDS AND TECHNICAL COMPLAINE SHEET

The Technical Bid should consist of the documents duly filled in the sequence given below: (Bidder to write Yes/No in column below:-

Sl.No.	Description	Yes /No
1.	Covering letter as per Annexure – B	
2.	Index page giving details of contents and page numbers	
3.	Eligibility Criteria evaluation (Along with all documents in serial order) Annexure- E	
4.	Declaration regarding Blacklisting/Debarring Annexure –F	
5.	Details regarding similar Orders Annexure- G	
6.	Details regarding Annual Turnover Annexure- H	
7.	Blank tender document signed & stamped on each page.	
8.	Technical Details -Annexure A	

FORMAT FOR ELIGIBILITY CRITERIA EVALUATION
(To be filled by bidder)

No	Criteria	Complied (Y/N) If No give Reasons for Non-Compliance	Supporting Documents Required
1	The tenderer shall not have been blacklisted by the department / Ministries of the Government of India / PSUs / corporate Sectors / Educational Institutions / any other reputed organizations. (Notarized Affidavit has to be submitted by the bidder)		
2	The bidder should submit copy of valid Trade License, PAN and Sales Tax / VAT Registration No. with the Technical Bid.		
3	The bidder should submit the Income Tax return for last three previous years ending 31 st March 2016 with the Technical bid of Tender documents.		
4	The bidder should submit one of the following:- i)Proof of Registration of the bidder under relevant law such as Companies Act, and /or Shop & Establishment Act. ii)For Partnerships firms, full name and address of each partner along with the certified copy of the registered partnership deed, copy of Trade License. iii)For proprietorship firms, full name and address of proprietor along with the copy of trade license.		
6	The Bidder should have successfully implemented atleast three similar contract and awards for providing CCTV Cameras in Govt. Organisations/Universities/Societies/Educational Institutions. <i>[Mode of proof:</i> Copy of Purchase Order/Contract for providing 'Award of Work'. Copy of Completion Certificate'/Final Invoice/Letter indicating return of Security Deposit for providing satisfactory 'Completion of Work'. Should be furnished for each of the 3 Projects.		
7	Earnest Money Deposit (E.M.D): Rs.10,000/- (Rupees Fifty Thousand Only) by way of D.D./P.O in favour of IMU, Mumbai Campus payable at Mumbai or Navi Mumbai to be		

	submitted to Dy. Registrar (Administration), IMU, Mumbai Campus along with Technical Bid		
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The bids are liable to be rejected in case of failure to comply with any of the above requirements.

Name

Signature

Seal

ANNEXURE - F Declaration regarding Blacklisting/Debarring
(On company letter head)

Ref. No. Date:

To
The Director,
Indian Maritime University, Mumbai Campus
Karave, Nerul,, Navi Mumbai-400706

Sub.: Declaration regarding Blacklisting/Debarring for taking part in tender.

Dear Sir,

I / We _____ Firm/Contractor/Manufacturer / Partner(s)/ Authorized Distributor /agent of M/s. _____ hereby declare that the firm/company namely M/s. _____ has not been blacklisted or debarred in the past by Union / State Government or organization from taking part in Government tenders in India.

Or

I / We _____ Firm/Contractor/Manufacture / Partner(s)/ Authorized Distributor / agent of M/s. _____ hereby declare that the Firm/company namely M/s. _____ was blacklisted or debarred by Union / State Government or any Organization from taking part in Government tenders for a period of _____ years w.e.f. _____ to _____. The period is over on _____ and now the firm/company is entitled to take part in Government tenders.

2. In case the above information found false I/we are fully aware that the tender/ contract will be rejected/cancelled by the Indian Maritime University, Mumbai Campus , and EMD/ Performance Security shall be forfeited.

3. In addition to the above, Indian Maritime University, Mumbai Campus shall not be responsible to pay the bills for any completed / partially completed work.

[Name & Signature] for and on behalf of M/s. _____

Note: This letter of shall be on the letterhead of the company and shall be signed by a person competent and having the power of attorney to bind the company/firm.

ANNEXURE - G DETAILS REGARDING SIMILAR ORDERS

Sl. No.	Name of the Client	Nature of Job (Enclosed Purchase Orders)	Value of Purchase Order	Date of Commencement	Date of Completion

Note:

Mode of proof: Copy of Purchase Order/Contract showing that the Bidder had conducted similar works. Work complete certificate to be enclosed.

Place:

Date : **Signature of the Tenderer with seal**

ANNEXURE-H DETAILS REGARDING ANNUAL TURNOVER

ANNUAL TURNOVER

Sl No.	Financial Year	Annual Turnover in Rupees(lakhs)
1		
2		
3		

Copies of the Audited Balanced Sheet and Profit and Loss Account for the last three financial years 2013-14, 2014-15, 2015-16 should be attached.

Place:

Date : Signature of the Tenderer with Seal

FORMAT OF AGREEMENT

FORMAT OF AGREEMENT

IT IS THIS _____ day of _____ 2016 MUTUALLY AGREED between the IMU, Mumbai Campus, hereinafter referred to as “the Employer” (which expression shall mean and include their assigns and successors) on the one part AND M/s a company/incorporated under the companies Act, 1956..... having its Registered office at herein after referred to as “the Contractor” (which expression shall mean and include their permitted assigns and successors) on the other part: WHEREAS the Employer is desirous that certain Goods and Services should be provided and certain Works be executed as per tender documents hereinafter called „The Works” and has accepted a Tender by the Contractor for the execution, completion and guarantee of such works.

NOW THIS AGREEMENT WITNESSES as follows:-

1. The following documents shall be deemed to form and be read and construed as part of this agreement, viz.,
 - a) Technical and Financial bids
 - b) Instructions to the Bidders
 - c) Terms and Conditions of contract
 - d) The work specified in the tender documents
 - e) The Annexures`
 - f) The Purchase Order
 - g) Bank Guarantee
2. In consideration of the payment to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute, complete and guarantee the Works in conformity in all respects with the provisions of the contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution, completion and guarantee of the works the contract price at the times and in the manner prescribed by the Contract.
4. The contract shall be governed by all the conditions as described in the terms and conditions of Contract, work mentioned in the tender documents and any other conditions given in the tender documents.

5. This agreement shall be governed by the laws of India and shall be subject to the Jurisdiction of the Courts in Mumbai.

IN WITNESS WHEREOF the parties hereto have caused their respective common seals to be hereunto affixed (or have hereunto set their respective hands and seals) the day and year first above written.

SIGNED AND DELIVERED

On behalf of the Contractor

On behalf of Employer

Signature

Signature

Name

Name

Address

Address

Official Seal

Official Seal

Place

Place

Date

Date

On behalf of the Contractor

On behalf of the Employer

Witness:

Witness:

i) Signature

i) Signature

Name:

Name:

Address:

Address:

Place

Place

Date

Date

ii) Signature

ii) Signature

Name:

Name:

Address

Address

Place

Place

Date

Date

FINANCIAL BID**TENDER FOR SUPPLY, INSTALLATION AND MAINTENANCE OF CCTV CAMERAS ON RENTAL BASIS AT IMU – MUMBAI CAMPUS, PALM BEACH BLOCK, KARAVE, NERUL, NAVI MUMBAI - 400706**

S.No.	Description of the Items (SPECIFY TOTAL MONTHLY RENTAL FOR THE WHOLE CCTV SYSTEM FROM SL.NO.1 to 7)	Tentative Requirement of Equipments*	Taxes (VAT/Taxes)	Rate per Unit (inclusive of all taxes) in Rs	Total Cost (inclusive of all taxes) (in Rs.)
1.	HD Digital Video Recorder supporting 1.3MP cameras, H.264 dual stream video compression, Video Input 8/16 CH BNC, Real Time Recording and Play Back, Video Output 1CH-CV35, 1 CH-HDMI, 1CH VGA, 2 USB.2.0, Simultaneous Output, Support 1 SATA port upto 6TB. (Brands: Hikvision, CPPlus or equivalent)	8 CH	6		
		16 CH	3		
2.	IR Indoor Dome Camera, HD IR Range: 20 metres, Camera Image Sensor: 1/3", Lens Size:3.6mm, True Day/Night Vision (Brands: Hikvision, CPPlus or equivalent)	1.3 MP	30		
3.	IR Outdoor Bullet Camera, HD Real Time Video, IR Range: 30m, True Day/Night Vision, Camera Image Sensor:1/3" progressive scan CMOS. (Brands: Hikvision, CPPlus or equivalent)	1.3 MP	15		
4.	Supply, installation, testing and Commissioning of 22" LCD-LED Digital Signage Display with Screen Size: 22", Display Resolution: 1920*1080(16:9), Brightness: 350 nits, Contrast Ratio-5000:1, Power Consumption:		1		

	121 W max, response Time: 8ms(Samsung-ED40D, Sony, Panasonic or equivalent).					
5.	SATA Hard Disk for 8/16 Channel DVR (WD, Seagate or equivalent)	4 TB	6			
6	2 KVA UPS		1			
7	Switch Mode Power Supply 12V 20 AMP for 8/16 Cameras					
8.	Wiring 4+1 Copper Cable(per metre)(Co-axial Cable)		2500m			
9.	PVC Conduit Pipe of 1” or as required		2500m			
10.	Server 4U Rack		As per requirement***			
11.	BNC Connectors		As per requirement***			
12.	PVC Bend Clamp		As per requirement***			
13.	Wall plug		As per requirement***			
14	Power Cables		As per requirement***			
15.	Charges for Installation & Commissioning of CCTV System, digging and laying of Conduit Pipes/Cables					
16	AMC for 3 yrs					
	Total Cost for the CCTV Project(Approx)**					

The following points may be noted in regard to the details(Technical Specifications) mentioned in the above table:

- *The number of CCTV/other equipments, cables required may increase or decrease as per the requirement of IMU, Mumbai Campus. The CCTV are required to be provided on rental basis so, monthly rental is required to be mentioned in the cost column for each camera and total cost inclusive of all taxes, if any.
- CCTV System will be purely on rental basis(including Cameras/Access points/DVR/Hard disk/LCD Screen/SMPS/UPS, if required). However, in regard to the cabling/installation/commissioning, please specify the rate of the cable(per m), installation charges/digging charges and the AMC charges for 3 years.

TECHNICAL BID

TENDER FOR SUPPLY, INSTALLATION AND MAINTENANCE FOR CCTV CAMERAS AT IMU – MUMBAI CAMPUS, PALM BEACH BLOCK, KARAVE, NERUL, NAVI MUMBAI – 400706.

S.No.	Description of the Items with Minimum Specifications		Brand Name/Company Name/Make
1.	HD Digital Video Recorder supporting 1.3MP cameras, H.264 dual stream video compression, Video Input 8/16 CH BNC, Real Time Recording and Play Back, Video Output 1CH-CV35, 1 CH-HDMI, 1CH VGA, 2 USB.2.0, Simultaneous Output, Support 1 SATA port upto 6TB. (Brands: Hikvision, CP Plus or equivalent)	8 CH/16 CH	
2.	IR Indoor Dome Camera, HD) HD IR Range: 30 metres, Camera Image Sensor: 1/3", Lens Size:3.6mm, True Day/Night Vision (Brands: Hikvision, CPPlus or equivalent)	1.3 MP	
3.	IR Outdoor Bullet Camera, HD Real Time Video, IR Range: 30m, True Day/Night Vision, Camera Image Sensor:1/3" progressive scan CMOS. (Brands: Hikvision, CPPlus or equivalent)	1.3 MP	
4.	Supply, installation, testing and Commissioning of 22" LCD-LED Digital Signage Display with Screen Size		
5.	Hard Disk for 8/16 Channel DVR (WD, Seagate or equivalent)	3 TB/4 TB	

6.	Wiring 4+1 Cable(per metre)(Co-axial Cable for CCTV Cameras)		
7.	PVC Conduit		
8.	2 KVA UPS		
9.	Server 4U Rack		
10.	BNC Connectors		
11.	PVC Bend Clamp		
12.	Wall plug		
13.	Switch Mode Power Supply 12V 20 AMP for 8/16 CCTV cameras.		
14	Power Cables		
15	Other equipments, if any required in installation.		

