



TAMIL UNIVERSITY, THANJAVUR

Tender Document

For

Supply, Installation and Commissioning of
CCTV Camera at Tamil University, Thanjavur

Tender Notice No. 15/2020-21/ Grant

January 2021

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TAMIL UNIVERSITY, THANJAVUR

Name of Work: Supply, Installation and Commissioning of CCTV

Camera at Tamil University, Thanjavur

1. INVITATION

On behalf of the Tamil University, Thanjavur, Tender is invited for the Supply, Installation and Commissioning of CCTV Camera under two cover tender systems (Pre-Qualification Bid & Financial Bid) from reputed firms/ Service Providers / Agencies by the Registrar, Tamil University, Thanjavur. One cover shall contain EMD & Pre-Qualification Documents and the Second Cover shall contain Financial Bid. The Tender submission date is **09 .02.2021 at 10 .30 Hrs.**

2. PRE-QUALIFICATION CRITERIA

- a) The Bidder should have 3 years previous experience in Supply, Installation and Commissioning of CCTV Camera systems to the Government departments / Universities / other educational institutions/agencies.
- b) The bidder should have got their firm registered with Goods & Service Tax with the Government of Tamil Nadu.
- c) The bidder should have recorded an average annual turnover of Rs.75 Lakhs per year during the last three (3) financial years. (2017-2018, 2018-2019 & 2019-2020). The bidder should submit the Annual Report/Audited Accounts Certified by Auditor in this regards.
- d) The bidders should have not been Black listed by any of the Government Agency in the past years for any reasons whatsoever.
- e) The bidder should have to produce FROM-16 for the last financial year
- f) See paragraph No 17.2 for further details.

3. SCOPE

The scope of this tender is to Supply, Installation and Commissioning of CCTV Camera systems in Tamil University, Thanjavur . The responsibilities of the selected tenderer are given below:

1. Company should have good track record over for the past three years from the date of Tender.

4. PERIOD OF COMPLETION

Within one month against the supply order

5. EARNEST MONEY DEPOSIT

- An Earnest Money Deposit of **Rs. 24,550/-** (Rupees Twenty four Thousand Five hundred and fifty only) should be accompanied along with the Pre-Qualification tender.
- The Earnest Money Deposit should be remitted in the form of Demand Draft issued by any Nationalized or Scheduled Banks drawn in the favour of "The Registrar, Tamil University, Thanjavur - 613 010".

- NOTE: The EMD in the form of Bank Guarantee / Cheque or other form will not be accepted.
- Exception Certificate (Ministry of Micro Small & Medium Enterprises) is accepted for Earnest Money Deposit
- Pre-Qualification Bid without the requisite Earnest Money Deposit will be summarily rejected and treated as Non-Responsive tender.
- The Tenderer should not withdraw from the work after acceptance and received the work order from the university at any cost. Such withdrawal if any, is subject to legal proceedings by the university and cost of damage should be claimed from the tenderer.

6. EMD forfeit

If the successful tenderer fails to supply within the stipulated period, the Earnest Money Deposit amount remitted by the Tenderer along with the Pre-Qualification Bid will be forfeited and legal procedures by the University and the cost of the damage should be claimed from the Tenderer.

7. LANGUAGE OF TWO COVER TENDER SYSTEM

Tenders shall be offered in the prescribed forms in ENGLISH Language only.

8. VALIDITY OF BID

The Bids shall be valid for a period of 90 days (Ninety days) from the date of opening.

9. SUBMISSION OF BIDS

- a. Tenders should be submitted only through Post (or) in person in the Tender Box placed at the Registrar, Tamil University, Thanjavur – 613 010.
- b. A two stage bidding procedure will be followed. Cover-1 shall contain the EMD, Pre-Qualification Bid, Signed Tender Conditions and Bidding document. The Cover-2 shall contain only the Financial Bid i.e., the cost of the components as in the Schedule C.

10. OPENING OF TENDERS.

The Cover-1 containing the original copy of the EMD, Pre-Qualification Bid and Tender Conditions and Bidding document will be opened by The Registrar, Tamil University, Thanjavur at **09.02.2021 Hours on 11:00 A.M** itself, in the presence of the Tenderers (or) their Authorized Representatives, who choose to be present. The Pre-Qualification Bids of the Tenderers will be evaluated. The Financial Bids i.e., Cover-2 of the Tenderers will be opened only for the Tenderers, who have cleared Pre-Qualification criteria. The date and time of opening of the Financial Bids will be informed to the qualifying Tenderers, in the Pre-Qualification bids.

11. PAYMENT, SCHEDULE

After the supply of Materials in good condition with prescribed manner, the payment should be produced offer with spot payment condition may be ignored. The Supply should be of current manufacturing. If the stores are found defective, the same shall be replaced by the supplier immediately free of cost of the consignee's dept inclusive of all freight and handling charges. Fails which the Tamil University shall have a right to recover these charges from any payment. Security Deposit 2% of value of Contract.

12. NEGOTIATION

If it is felt that the price quoted by the lowest Tenderer is exorbitantly high with reference to the prevailing market rate, negotiation of rates will be made with the lowest Tenderer, for reducing the quoted rates to the reasonable levels. If the tender contains unbalanced items/rates the lowest tenderer must be prepared to furnish the detailed cost break up and other clarifications to the proposals submitted by them, as may be required to adjudge the reasonableness of their price proposals.

13. LIQUIDATED DAMAGES

Liquidated damages will be imposed on the contractor for the lapses/short fall in achieving the rate of progress as per existing schedule.

14. LEGAL JURISDICTION:

Jurisdiction of all legal proceedings, if necessary, relating to the above tender shall be the appropriate court in Thanjavur only.

15. ARBITRATION

Any fact or condition, which may not have been mentioned in Terms & Conditions and may arise after issuing work order, shall be decided as per the State Government policy/rules. In case rules/policies do not provide such situation, the issue will be referred for arbitration. Arbitration for any such dispute shall be conducted in accordance with the provisions of Arbitration and Conciliation Act 1996 or any statutory modification or re-enactment thereof.

16. WHOM TO CONTACT

For any clarifications regarding tendering, the bidders shall contact the Registrar at the following address.

The Registrar,
Tamil University
Thanjavur – 613 010.
Telephone: 04362-226720
Email: tamilunivreg@gmail.com

17. INFORMATION AND INSTURCTIOINS

17.1 FOR SPECIAL ATTENTION

Bids are invited in accordance with Tamil Nadu
Transparency in Tenders Act, 1998 & Tamil Nadu
Transparency in Tenders Rules, 2000.

17.2 PRE-QUALIFICATION CRITERIA

The bidding tenderer should be registered and in existence for more than three years and should comply with the following eligibility criteria:

- i. Should have GST registration issued by Government of India.
- ii. Should be an Income Tax Assessee with PAN Card.
- iii. Should be an ISO 9001-2008 or Latest Version certified company for IT, ITES, Software Development Website Development and supply, installation of CCTV camera systems . The Certificate must be valid on the date of opening of tender.
- iv. Should be ready to provide a satisfactory demonstration of the actual working of the CCTV Camera Systems to the Tamil University staff.
- v. Supplier should produce single order copy of more than Rs.25Lakhs in the last three years.
- vi. Authorization letter from Principals / Appropriate authority of Manufacturer should be produced without OEM letter the bidder will be rejected.

Eligibility OEM for CCTV

- OEM Should have Direct Presence in India for Last 10 years
- OEM Should have its own Manufacturing facility center in India
- OEM Should have standard ISO certifications : ISO 9001; ISO 14001; ISO 27001 OEM should have its direct service center in Tamil Nadu
- OEM should have CE, FCC, RoHS, UL and BIS certified Products
- OEM should have an average annual turnover of INR 500 Crore for last 3 audited financial years
- OEM shall have minimum positive net worth of INR 50 Crores as per the last audited financial year.

DOCUMENTS TO BE PRODUCED

Copy of the work order and the issued by the concerned Government Department / Agency.

2. The bidder should have got their Firm registered with either Goods & Service Tax Directorate (or) with the Commercial Taxes Department or any other Government Department.

DOCUMENTS TO BE PRODUCED

Copy of the Goods & Service Tax Registration Certificate issued by the competent authority.

3. The bidder should have recorded an average annual turnover of Rs.70 Lakhs per year during the last three (3) financial years. (2017-2018,2018-2019& 2019-2020)

DOCUMENTS TO BE PRODUCED

Copy of the Audited Balance sheet with associated documents duly certified by a Chartered Accountant.

4. The bidders should have not been Black listed by any Government Agency in the past years for the reasons whatsoever.

DOCUMENTS TO BE PRODUCED

A self-declaration in form of an undertaking to the effect that they have not been Blacklisted by any Government Department to be given in Rs.20/- valued India Non – Judicial stamp paper duly notarized.

18. METHODS OF TENDERING

- i. If the Qualification Application is made by an individual, it should be signed by the individual with his full name and his current address.
- ii. If the Qualification Application is made by a sole Proprietary Firm, it shall be signed by the Proprietor along with his full name and full name of the Firm with its current address. Document with regard to Registration as FIRM by the Registrar of Firms should be produced.
- iii. If the Qualification Application is made by a FIRM in partnership, it shall be signed by all the partners of the Firm with their full names and current address or by a PARTNER authorized by the Firm (either as per Articles of the Deed of Partnership or by Power of Attorney) for signing in Tenders, Agreements etc., In which case, certified copy of the Registered Deed of Partnership along with the current address of all the partners and a certified Photocopy of the Registered Power of Attorney issued in favour of the Signatory, should be produced.
- iv. If the Qualification Application is made by a "Limited Company" it shall be signed by a duly authorized person holding the power of attorney for signing the application, in which case, the certified copy of the power of attorney shall accompany the application. Such limited company or Corporation shall also furnish satisfactory evidence of its existence along with the Pre-Qualification

- Application.
- v. Qualification application from joint ventures is not acceptable.
 - vi. All the Signatures in the Pre-Qualification Bid Application and all the Signatures in the Documents produced **shall be dated.**
 - vii. All the originals of the documentary evidences produced shall be produced, if asked for, for verification at the time of opening of **Pre-Qualification tender** or subsequently.
 - viii. Any clarification on the documents submitted by the bidders may be called for by the Commercial Taxes Department.

19. CAPABILITY OF APPLICANT

The Applicant shall include with the Pre-Qualification Application, details in the prescribed Performa vide Schedule 'A' and 'B'.

- (i) Schedule – 'A' - Affidavit
- (ii) Schedule – 'B' - Self-Declaration on –Black Listing Certificate
- (iii) Schedule – 'C' - Commercial Quote

20. OPENING OF BIDS

- i. Bids received in sealed cover up to **10:30hours on 09.02.2021** will be opened on the same day at **11:00hours** by the Registrar, Tamil University, Thanjavur in the presence of the Applicants or their authorized representative.
- ii. The Pre-Qualification bid and Financial Bid received belatedly on account of any reasons whatsoever, will not be opened or considered and will be returned unopened to the applicant.
- iii. Telegraphic Applications will not be entertained.
- iv. The date of opening of Financial Bid will be notified to the qualified applicants after evaluation of Pre-Qualification Bid well in advance.

SCHEDULE "A"

AFFIDAVIT

(To be furnished in Twenty Rupees Non – Judicial Stamp paper duly certified by Notary public)

- 1) I / WE the undersigned solemnly declare that all the statements made in the documents records etc., attached with this application are true and correct to the best of my knowledge.
- 2) I / WE, the undersigned do hereby certify that neither our firm/company nor any of its constituent partners have abandoned any work / works of similar nature and magnitude in India, during the last "FIVE" years.
- 3) I / WE, the undersigned do hereby certify that any of the contracts awarded to me / us has not been terminated rescinded, due to breach of contract on my / our part, during the last "FIVE" years.
- 4) I / WE, the undersigned authorize and request any bank / person/ firm/ Corporation / Government departments to furnish pertinent information

deemed necessary and requested by the Registrar, Tamil University, Thanjavur to verify the statements made by me / us or to assess my / out to assess my / our competence and general reputation.

- 5) I / WE, the undersigned, understands that further qualifying information / clarification on the statements made by me / us may be requested and agrees to furnish such information / clarification within "**Five Working days**" days from the date of receipt of such request from the The Registrar, Tamil University, Thanjavur -10.

Dated Signature of Applicant with Seal.

(To be signed by the officer authorized by the Firm
Company to sign on behalf of the Firm/Company
with Company's Seal)

Note: In case of sole proprietary concern, affidavit should be signed only by the sole Proprietor.

(Title of the Firm/Company)
(Date)

The above named deponent has understood the contents well and solemnly and sincerely declared and affirmed by the deponent in my presence at and signed before me on this day of

(Seal)
(Signature of the Notary public)

SCHEDULE "B"

Self-Declaration on Black Listing Certificate.

SCHEDULE "C"

Technical Schedule

**Name of Work: Supply, Installation and Commissioning of CCTV Camera at
Tamil University, Thanjavur**

CCTV - CONSOLIDATED MATERIALS LIST(Specification & Make)

S. No	MATERIAL	Make	QTY (Nos/Mts)	Remarks
1.	2 or 4MP Full HD WDR Array Dome Camera-30Mtrs, 1/3" 4MP PS CMOS Sensor, or 1/2.8"2Megapixel progressive CMOS or better, Max. Resolution 1920 (H) ×1080 (V) or better, Pan/Tilt/Rotation Range: Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°, Focal Length: 2.8 mm; 3.6 mm; 6 mm., Field of View: 2.8 mm: Horizontal:106°; vertical: 57°; diagonal: 126° 3.6 mm: Horizontal:87°; vertical: 46° ; diagonal: 104° 6 mm: Horizontal:54°; vertical: 29°; diagonal: 63° 4MP(2560X1440) 20FPS, H264,H.265, MJPEG Triple Stream,WDR, Day/Night(ICR), Corridor Mode,2D/3D-DNR,AWB,AGC,BLC,2.8mm Lens(3.6mm Optional),IR Range 30Mtrs,Smart IR, Intelligent Search: Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos & POE	UNV, Dahua, CP-PLUS / Equivalent	34	
2.	2 or 4MP Full HD WDR Array Bullet Camera-30Mtrs, 1/3" 4MP PS CMOS Sensor, or 1/2.8"2Megapixel progressive CMOS or better, Max. Resolution 1920 (H) ×1080 (V) or better, Pan/Tilt/Rotation Range: Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°, Focal Length: 2.8 mm; 3.6 mm; 6 mm., Field of View: 2.8 mm: Horizontal:106°; vertical: 57°; diagonal: 126° 3.6 mm: Horizontal:87°; vertical: 46° ; diagonal: 104° 6 mm: Horizontal:54°; vertical: 29°; diagonal: 63° 4MP(2560X1440) 20FPS, H264,H.265, MJPEG Triple Stream,WDR, Day/Night(ICR), Corridor Mode,2D/3D-DNR,AWB,AGC,BLC,2.8mm Lens(3.6mm Optional),IR Range 30Mtrs,Smart IR, Intelligent Search: Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos & POE	UNV, Dahua, CP-PLUS / Equivalent	92	
3.	2 MP 30X optical zoom PTZ Camera	UNV, Dahua, CP-PLUS / Equivalent	1	

4.	16 Channel-4K Network Video Recorder 16channel IP camera Input H.265/H.264 Dual Video Format Support 4K Resolution UP TO 12MP Recording 320Mbps Incoming/320Mbps Outgoing Bandwidth Support Camera Video Analytics, Provide Analytics Based Search, Supports 2SATA HDD UPTO 10TB Each 3 USB Ports,Support Multibrand Cameras	UNV, Dahua, CP-PLUS / Equivalent	14	
5.	4TB SURVEILLANCE HARDDISK	Seagate / Equivalent	15	
6.	24 PORT GIGA BYTE POE SWITCH	Netgear, Dlink /Equivalent	21	
7.	4U RACK WITH POWER MANAGER	Valrack, Dlink /Equivalent	23	
8.	CAT 6 CABLE LAYING	Dlink, Legarnd /Equivalent	9700Mts	
9.	POWER CABLE LAYING	Fonolex,PolyCab/ Equivalent	3270 Mts	
10.	PVC BOXES FOR CAMERA	-	124	
11.	600VA NUMERIC UPS	APC, Numeric / Equivalent	15	
12.	24" LED MONITOR	LG, Samusung, Sony / Equivalent	8	
13.	OFC LAYING WITH MATERIALS	Finolex,Legrand / Equivalent	2050mts	
14.	DIGGING AND RESTORATION	-	2050mts	
15.	MEDIA CONVERTER	Dlink, Focus,TP- Link /Equivalent	10	
16.	METAL POLE WITH ERECTION AND CIVIL WORK 20 FEET	-	12	
17.	Node Box(with lock)	-	10	
18.	Camera stand fit in metal post	-	24	

Annexure

Departmentwise Details given below

1. Department of philosophy(First & Ground floor)

S.No	MATERIAL	QTY
1.	DOOM / BULLET CAMERA	12 Nos
2.	16CH NVR	1 No
3.	4TB SURVEILLANCE HARDDISK	1 No
4.	24 PORT GIGA BYTE POE SWITCH	2Nos
5.	4U RACK WITH POWER MANAGER	2 Nos
6.	CAT 6 CABLE LAYING	800 Mts
7.	POWER CABLE LAYING	150 Mts
8.	PVC BOXES FOR CAMERA	12 Nos
9.	600VA UPS	1 No
10.	24" LED MONITOR	1 No

2. Department of Earth Science (first Floor & Ground Floor)

S.No	MATERIAL	QTY
1.	DOOM / BULLET CAMERA	12
2.	16CH NVR	1
3.	4TB SURVEILLANCE HARDDISK	1
4.	24 PORT GIGA BYTE POE SWITCH	2
5.	4U RACK WITH POWER MANAGER	2
6.	CAT 6 CABLE LAYING	900 Mts
7.	POWER CABLE LAYING	150 Mts
8.	PVC BOXES FOR CAMERA	12
9.	600VA UPS	1
10.	24" LED MONITOR	1

3. Karikalan Kaliaragam

S.No	MATERIAL	QTY
1.	DOOM / BULLET CAMERA	20
2.	2 MP 30 X Optical Zoom PTZ Camera	1
3.	16CH NVR	2
4.	4TB SURVEILLANCE HARDDISK	2
5.	24 PORT GIGA BYTE POE SWITCH	3
6.	4U RACK WITH POWER MANAGER	3
7.	CAT 6 CABLE LAYING	2200 Mts
8.	POWER CABLE LAYING	260 Mts
9.	PVC BOXES FOR CAMERA	20
10.	600VA UPS	1
11.	24" LED MONITOR	1

4. Library Building

S.No	MATERIAL	QTY
1.	DOOM / BULLET CAMERA	26
2.	16CH NVR	2
3.	4TB SURVEILLANCE HARDDISK	2
4.	24 PORT GIGA BYTE POE SWITCH	3
5.	4U RACK WITH POWER MANAGER	4
6.	CAT 6 CABLE LAYING	2600 Mts
7.	POWER CABLE LAYING	260 Mts
8.	PVC BOXES FOR CAMERA	20
9.	600VA UPS	1
10.	24" LED MONITOR	1

5. Electrical Distribution & Generator Building

S.No	MATERIAL	QTY
1.	DOOM / BULLET CAMERA	8
2.	16CH NVR	1
3.	4TB SURVEILLANCE HARDDISK	1
4.	24 PORT GIGA BYTE POE SWITCH	1
5.	4U RACK WITH POWER MANAGER	2
6.	CAT 6 CABLE LAYING	600 Mts
7.	POWER CABLE LAYING	150 Mts
8.	PVC BOXES FOR CAMERA	12
9.	600VA UPS	1
10.	24" LED MONITOR	1
11.	OFC LAYING WITH MATERIALS	150
12.	DIGGING AND RESTORATION	150
13.	MEDIA CONVERTER	2

6. FourWay Road Junction(Near “நா” Building)

S.No	MATERIAL	QTY
1.	DOOM / BULLET CAMERA	4
2.	16CH NVR	1
3.	4TB SURVEILLANCE HARDDISK	1
4.	24 PORT GIGA BYTE POE SWITCH	2
5.	PVC BOXES FOR CAMERA	4
6.	OFC LAYING WITH MATERIALS	700
7.	DIGGING AND RESTORATION	700
8..	MEDIA CONVERTER	2
9.	4U RACK WITH POWER MANAGER	1
10	CAMERA STAND	4
11	NODE BOX(with Lock & Key)	1
10.	600VA UPS	2
11	POWER CABLE LAYING	700 Mts

7. Three Way Road Junction(Near "G" Building)

S.No	MATERIAL	QTY
1.	DOOM / BULLET CAMERA	4
2.	16CH NVR	1
3.	4TB SURVEILLANCE HARDDISK	1
4.	24 PORT GIGA BYTE POE SWITCH	2
5.	PVC BOXES FOR CAMERA	4
6.	OFC LAYING WITH MATERIALS	400
7.	DIGGING AND RESTORATION	400
8..	MEDIA CONVERTER	2
9.	4U RACK WITH POWER MANAGER	1
10	CAMERA STAND	4
11	NODE BOX (with Lock & Key)	1
12.	600VA UPS	2
13	POWER CABLE LAYING	400 Mts

8. Guest House Building & Opposite Road Junction

S.No	MATERIAL	QTY
1.	DOOM / BULLET CAMERA	12
2.	16CH NVR	1
3.	4TB SURVEILLANCE HARDDISK	1
4.	24 PORT GIGA BYTE POE SWITCH	1
5.	PVC BOXES FOR CAMERA	12
6.	OFC LAYING WITH MATERIALS	200
7.	DIGGING AND RESTORATION	200
8..	MEDIA CONVERTER	4
9.	4U RACK WITH POWER MANAGER	1
10.	600VA UPS	1
11.	CAT 6 CABLE LAYING	600 Mts
12.	POWER CABLE LAYING	150 Mts

9. FourWay Road Junction(Near Library)

S.No	MATERIAL	QTY
1.	DOOM / BULLET CAMERA	4
2.	16CH NVR	1
3.	4TB SURVEILLANCE HARDDISK	1
4.	24 PORT GIGA BYTE POE SWITCH	2
5.	PVC BOXES FOR CAMERA	4
6.	OFC LAYING WITH MATERIALS	600
7.	DIGGING AND RESTORATION	600
8.	MEDIA CONVERTER	2
9.	4U RACK WITH POWER MANAGER	1
10	CAMERA STAND	4
11	NODE BOX(with Lock & Key)	1
12.	600VA UPS	2
13	POWER CABLE LAYING	600 Mts

10. "A"Type Quarters Road

S.No	MATERIAL	QTY
1.	DOOM / BULLET CAMERA	8
2.	16CH NVR	1
3.	4TB SURVEILLANCE HARDDISK	1
4.	24 PORT GIGA BYTE POE SWITCH	1
5.	PVC BOXES FOR CAMERA	8
6.	CAT 6 CABLE LAYING	800 Mts
7.	POWER CABLE LAYING	150 Mts
8.	4U RACK WITH POWER MANAGER	2
9.	600VA UPS	1
10.	24" LED MONITOR	1
11.	METAL POLE WITH ERECTION AND CIVIL WORK 20 FEET	3
12.	CAMERA STAND	4

11. "B" Type Quarters Road

S.No	MATERIAL	QTY
1.	DOOM / BULLET CAMERA	8
2.	16CH NVR	1
3.	4TB SURVEILLANCE HARDDISK	1
4.	24 PORT GIGA BYTE POE SWITCH	1
5.	PVC BOXES FOR CAMERA	8
6.	CAT 6 CABLE LAYING	600 Mts
7.	POWER CABLE LAYING	150 Mts
8.	4U RACK WITH POWER MANAGER	2
9.	600VA UPS	1
10.	24" LED MONITOR	1
11.	METAL POLE WITH ERECTION AND CIVIL WORK 20 FEET	4
12.	CAMERA STAND	4

12. "NC" Type Quarters & Puthukottai Road Gape

S.No	MATERIAL	QTY
1.	DOOM / BULLET CAMERA	8
2.	16CH NVR	1
3.	4TB SURVEILLANCE HARDDISK	1
4.	24 PORT GIGA BYTE POE SWITCH	1
5.	PVC BOXES FOR CAMERA	8
6.	CAT 6 CABLE LAYING	600 Mts
7.	POWER CABLE LAYING	150 Mts
8.	4U RACK WITH POWER MANAGER	2
9.	600VA UPS	1
10.	24" LED MONITOR	1
11.	METAL POLE WITH ERECTION AND CIVIL WORK 20 FEET	4
12.	CAMERA STAND	4

COMMERCIAL QUOTE

**Name of Work: Supply, Installation and Commissioning of CCTV Camera at
Tamil University, Thanjavur**

CCTV - CONSOLIDATED MATERIALS LIST(Specification & Make)

S. No	MATERIAL	Make	QTY (Nos /Mts)	Price before tax	Price after tax
1.	2 or 4MP Full HD WDR Array Dome Camera-30Mtrs, 1/3" 4MP PS CMOS Sensor, or 1/2.8"2Megapixel progressive CMOS or better, Max. Resolution 1920 (H) ×1080 (V) or better, Pan/Tilt/Rotation Range: Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°, Focal Length: 2.8 mm; 3.6 mm; 6 mm., Field of View: 2.8 mm: Horizontal:106°; vertical: 57°; diagonal: 126° 3.6 mm: Horizontal:87°; vertical: 46° ; diagonal: 104° 6 mm: Horizontal:54°; vertical: 29°; diagonal: 63° 4MP(2560X1440) 20FPS, H264,H.265, MJPEG Triple Stream,WDR, Day/Night(ICR), Corridor Mode,2D/3D-DNR,AWB,AGC,BLC,2.8mm Lens(3.6mm Optional),IR Range 30Mtrs,Smart IR, Intelligent Search: Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos & POE	UNV, Dahua, CP-PLUS /Equivalent	34		
2.	2 or 4MP Full HD WDR Array Bullet Camera-30Mtrs, 1/3" 4MP PS CMOS Sensor, or 1/2.8"2Megapixel progressive CMOS or better, Max. Resolution 1920 (H) ×1080 (V) or better, Pan/Tilt/Rotation Range: Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°, Focal Length: 2.8 mm; 3.6 mm; 6 mm., Field of View: 2.8 mm: Horizontal:106°; vertical: 57°; diagonal: 126° 3.6 mm: Horizontal:87°; vertical: 46° ; diagonal: 104° 6 mm: Horizontal:54°; vertical: 29°; diagonal: 63° 4MP(2560X1440) 20FPS, H264,H.265, MJPEG Triple Stream,WDR, Day/Night(ICR), Corridor Mode,2D/3D-DNR,AWB,AGC,BLC, 2.8mm Lens (3.6mm Optional),IR Range 30Mtrs,Smart IR,Intelligent Search: Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos & POE	UNV, Dahua, CP-PLUS / Equivalent	92		

3.	2 MP 30X optical zoom PTZ Camera	UNV, Dahua, CP-PLUS / Equivalent	1		
4.	16 Channel-4K Network Video Recorder 16channel IP camera Input H.265/H.264 Dual Video Format Support 4K Resolution UP TO 12MP Recording 320Mbps Incoming/320Mbps Outgoing Bandwidth Support Camera Video Analytics, Provide Analytics Based Search, Supports 2SATA HDD UPTO 10TB Each 3 USB Ports,Support Multibrand Cameras	UNV, Dahua, CP-PLUS / Equivalent	14		
5.	4TB SURVEILLANCE HARDDISK	Seagate / Equivalent	15		
6.	24 PORT GIGA BYTE POE SWITCH	Netgear, Dlink / Equivalent	21		
7.	4U RACK WITH POWER MANAGER	Valrack, Dlink / Equivalent	23		
8.	CAT 6 CABLE LAYING	Dlink, Legarnd / Equivalent	9700 Mts		
9.	POWER CABLE LAYING	Fonolex, PolyCab / Equivalent	3270 Mts		
10.	PVC BOXES FOR CAMERA	-	124		
11.	600VA NUMERIC UPS	APC, Numeric / Equivalent	15		
12.	24" LED MONITOR	LG, Samusung, Sony / Equivalent	8		
13.	OFC LAYING WITH MATERIALS	Finolex, Legrand / Equivalent	2050 mts		
14.	DIGGING AND RESTORATION	-	2050 mts		
15.	MEDIA CONVERTER	Dlink, Focus, TP-Link / Equivalent	10		
16.	METAL POLE WITH ERECTION AND CIVIL WORK 20 FEET	-	12		
17.	Node Box(with lock)	-	10		
18.	Camera stand fit in metal post	-	24		
Total Amount					

Sl.No	Addition / Reduction to Basic Rates	% Amount on Basic/ Any other Base	Any condition applicable for calculation
1	Amount without GST		
2.	GST		
3.	Packing & Forwarding charges		
4.	Transportation charges upto the Destination		
5.	Discount		
6.	Total		
7.	Warranty if Any		
8.	Payment Terms		

Note: (1)If there is any correction it should be counter signed.

(2)Rate should be quoted in figures and words.

Signature of the Bidder

