



Ref. e-Tender Notice No. NITJ/PUR/CCTV/04/2022

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Assistant Registrar  
Dr. B. R Ambedkar NIT Jalandhar  
Email: [arpurchase@nitj.ac.in](mailto:arpurchase@nitj.ac.in)



Dr B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY

G T Road By Pass, Jalandhar-144027, Punjab (India)

EPABX-0181-2690301-453 Email [registrar@nitj.ac.in](mailto:registrar@nitj.ac.in)

**THIS DOCUMENT IS FOR REFERENCE ONLY. ONLY E-TENDERS WILL BE ACCEPTED**

**e-Tender Notice No. NITJ/PUR/CCTV/04/2022**

National Institute of Technology, Jalandhar invites e-tender for Purchase of CCTV Camera along with Accessories for Various Locations of the Campus as per detail available at Annexure-I along with Tender Fee & EMD of the Institute as per details given below:

I	Downloading & Submission of Onlinee-tender/bids	Start Date: 07.05.2022 at 04:30 PM
II	Last date of submission of online bids	End Date: 28.05.2022 upto 03:00 PM
III	Physical submission of Tender Feeand EMD	End Date: 30.05.2022 upto 03:00 PM
IV	<b>Opening of Technical e-Bid (online)</b>	<b>30.05.2022 at 03:00 PM</b>

Detailed Terms and Conditions are available in e-tender document. The bid document can be downloaded from the [CPP Portal](#).

Complete tender document is available for reference purposes on Institute website [www.nitj.ac.in](http://www.nitj.ac.in) and [CPP Portal](#). Only e-tenders will be accepted.

**NOTE: This is a domestic Tender according to the DPIIT Order dated 16.09.2020 and subsequent amendments to the order for Public Procurement Preference & PROVISION FOR LOCAL SUPPLIERS TOWARDS PREFERENCE TO MAKE IN INDIA. The bidder is required to provide a declaration from the Original Equipment Manufacturer (OEM) on their letter head the percentage of Local content for the quoted instrument/Item and submit with the Technical Bid as per Annexure-G. Only class – I and class II Local Suppliers will be eligible to participate in tender. Non – Local Suppliers are not eligible to participate in tender. Bidder should also give details of the location(s) at which the local value addition is made in the Annexure, failing which the bid will be rejected.**

**Registrar**



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**Annexure-I**

**Ref. No. e-Tender Notice No. NITJ/PUR/CCTV/04/2022**

**Detail of Equipment/Item, Tender Fee & EMD are as under:**

<b>Sr. no.</b>	<b>Item/Equipment</b>	<b>Qty.</b>	<b>Tender Fee</b>	<b>EMD</b>
1.	CCTV Camera along with Accessories	As per Annexure 'A'	Rs. 500/-	Rs.1,40,000/-

**Note: The quantity of required equipment/item may vary as per requirement and fund availability.**

**\*Exemption of Tender fee & EMD will only be given to MSME/NSIC registered bidders.**



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### **Important Note**

1. All corrigenda, addenda, amendments and clarifications regarding this tender document will be uploaded on the website [www.nitj.ac.in](http://www.nitj.ac.in) and CPP Portal and not in the newspaper; Bidders shall keep themselves updated with all such developments.
  2. In case, the last date of receipt/opening of bids falls on holiday, the bids shall be receipt/opened on the next working day at same time.
  3. In case, the last date of submission of EMD & Tender fee falls on holiday, the EMD & Tender fee shall be submitted on the next working day at same time.
  4. Tenderer who have downloaded the tender document form from the institute website, shall submit a declaration along with tender document that I/We have downloaded the Tender Form from the institute website [www.nitj.ac.in](http://www.nitj.ac.in) and I/we have not tempered /modified the tender form in any manner. In case, if the same is found to be tempered/modified in any manner, I/we understand that my/our tender will be summarily rejected and I/we are liable to be banned from doing business with institute.
  5. **Tender fee of Rs.500/- (Non- refundable) in the form of DD in favour of Director, DR B R Ambedkar NIT, Jalandhar.**
  6. **EMD (refundable) in the form of DD in favour of Security- A/c. DR B R Ambedkar NIT, Jalandhar.**
  7. **Both EMD and Tender fee are be submitted as per dates mentioned in schedule, failing which e-bids will not considered.**
- ❖ **All the bidders are required to submit the Tender Fee and EMD as per requirement of tender document failing which bids received straightway rejected and bid will be treated invalid.**
  - ❖ **Note: If the bidder inadvertently or otherwise upload the quoted rates in the technical bid, the bid will be straightway rejected and treated invalid.**
  - ❖ **If the bidder is exempted for payment of Tender Fee and EMD as NSIC/MSME registered bidders, then bidder is required to submit NSIC/MSME exemption certificate for same. The Certificate must be valid as on last date of submission of bid.**

**Tenderer must submit a scanned copy (duly signed and stamped) regarding terms & conditions as per our tender documents along-with make/model, specifications, bill of quantity as per required equipment in the technical bid for examine the bid as per our institute tender documents. It is noted that no rate should be depicted in the letter head.**



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### **Instructions to Tenderer**

1. No tender will be accepted in physical form. The bidders shall have to submit their bids online in Electronic Format under Digital Signatures. For participation in the e- tendering process, the bidders need to register themselves on CPP Portal.
2. Bids are to be submitted online and opened online as per time given failing which no tender will be considered.
3. Bids will be opened online as per time given schedule.
4. **Before submission of online bids, bidders must ensure that scanned copies of all the necessary/relevant documents have been uploaded with the bid which should be duly signed and stamped. The duly signed and stamped copies of Terms & Conditions of the tender, reply of the Questionnaire of Plant & Machinery and other documents of the Tender & Annexures must be uploaded, failing which their bids may be rejected.**
5. NIT JALANDHAR, will not be responsible for any delay in online submission of bids due to any reason whatsoever.
6. **Bidders should also upload the scanned copies of Tender fees/EMD/Exemption Certificate as specified in the tender documents along with online technical documents. EMD in the form of a Demand Draft in favour of the Security – A/c, Dr B R Ambedkar NIT, payable at Jalandhar (refundable separate) and Tender Fee in the form of a Demand Draft in favour of the Director, Dr B R Ambedkar NIT, payable at Jalandhar (Non- refundable separate) should also be submitted in physical form to the following address as per scheduled time given for physical submission of EMD and Tender fee. The Envelope should be super- scribed as EMD and Tender Fee for Tender for Supply of CCTV Camera along with Accessories and sent to following address:-**

**Kind Attention- Assistant Registrar (Purchase Section)**

**Director,**

**Dr B R Ambedkar National Institute of Technology,**

**G T Road Amritsar By Pass, Jalandhar-144027, Punjab (India).**

7. The details of EMD specified in the tender document should be same as submitted online (scanned copies). Otherwise tender will be rejected summarily.
8. The conditional bids shall not be considered and will be out rightly rejected.

**Read and Accepted**

**(Signature & Stamp of Tenderer)**



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9. The Financial Bid through e-tendering process shall be opened of only those bidders, who will qualify in the technical bid and approved by the Purchase Committee/Technical Experts. The date, time & place of opening of the financial bid(s) will be intimated in due course of time.
10. At any time prior to the deadline for submission of bid, the institute may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective tenderer(s), modify the tender document by issuance of an amendment.
11. The amendment will be uploaded on Institute website and CPP Portal only. In order to provide reasonable time to prospective tenderer(s), for preparing their bid as per amendment, the institute may, at its discretion extend the deadline for the submission of tender.
- 12. The supplier must upload the original manuals / catalogue and Make/Model of the Equipment /Item. Otherwise bid is liable to be rejected.**
13. The Institute is not liable to pay any interest on EMD. Earnest money deposit shall be forfeited, if the tenderer, withdraws its bid during the period of tender validity. The Earnest money deposit of the tenderer, whose tender has been accepted, will be returned on the submission of **performance security @ 3% of the total value of the offer. The performance security will be kept till the warranty period + 02 months more of the Equipment /Item. The warranty period will start from the date of satisfactory installation of the Equipment /Item duly given by the concerned department.** Earnest money deposit of the successful tenderer shall be forfeited, if it refuses or neglects to execute the contract or fails to furnish the required performance security within the time frame as specified by the institute. The EMD(s) of other Bidder(s) whose offer are found according to required specifications/ lowest will be released after finalization of Technical Bids/ Lowest Bid/Purchase.
14. The Format of Performance Bank Guarantee bond or Performance Bank Guarantee issued by the bank as per the format given in **Annexure "B" & "C"**.
15. Delivery time is the essence of the contract and must be met with.
16. Nearest specifications/better specifications can be considered. In case of deviation, complete justification should be furnished with proper documents.
17. The Director may accept a tender in part or whole of the quantity offered, reject any tender without assigning any reasons and may not accept the lowest bidder. Further in case of any doubt/dispute, the decision of the Director of the Institute shall be final.

**Read and Accepted.**

**(Signature & Stamp of Tenderer)**



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18. The offer shall be kept valid for minimum 120 days.
19. a) Either the agent/ dealer on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.
  - b) If an agent/ dealer submits bid on behalf of the Principal/OEM, the same agent /dealer shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
  - c) Only one agent/dealer of single Principle/OEM can submit the bid. If more than one agent/dealer of same OEM/Principal quote in the tender, then bids of all the bidders of single OEM/Principle are liable to be rejected.
  - d) All offers other than those from the Principal/OEM should be supported by an authority letter from the manufacturer authorizing the dealer /supplier to tender on their behalf as per **Annexure-D**. In case of manufacturer, a certificate or a copy thereof to the effect that the bidder is a manufacturer of the Equipment /Item must be accompanied with the technical bid.
20. The supplier will be responsible till the entire stores contracted for, arrive in good condition at destination.
21. The tenderer should not have been debarred and/ or blacklisted by any Central Government/ or any State Government Department(s) . This must be supported by an affidavit as per format given in Annexure-“E”.
22. If any information furnished by the bidder is, at any stage found to be incorrect/false/fabricated, the Institute shall have the absolute right to forfeit the EMD, warranty/performance guarantees or/and security deposits, in addition to cancellation of contract, and in accordance with law, such other actions may be taken like black-listing of the bidder etc.

**Read and Accepted.**

**(Signature & Stamp of Tenderer)**



## Pre-qualification BID CRITERIA for CCTV

1. All Surveillance Equipment such as CCTV Cameras, Recording Server /NVR, Management Server /VMS Server, Video Management Software , CCTV Recording application , JoyStick, Video Analytics application shall be from the same OEM/Brand to avoid compatibility related issues and ensure smooth operation, maintenance .
2. OEM for CCTV shall have authorized CCTV service/repair facility in Punjab/Chandigarh. OEM shall have Toll free call center for technical support .
3. The Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for 3 years before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year.
4. **Past performance:** In addition to above, the OEM/Bidders must have experience of having successfully completed similar works during last 3 years to any Central / State Govt Organization / PSU / Public Listed Company should be either of the following:
  - a. Three similar completed works costing not less than the amount equal to Rs.28 Lakh each .
  - b. Two similar completed works costing not less than the amount equal to Rs.35 each.
  - c. One similar completed works costing not less than the amount equal to Rs.56 lakh .

Copies of relevant contracts alongwith completion certificates from buyer Organization must be submitted along with bid in support of quantity supplied in the relevant Financial year's.

5. The Institute reserves the right to increase or decrease the quantity to be ordered up to 25 percent at the time of placement of contract. The Institute also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.
6. The OEM shall be ISO 9001, ISO 14001 certified. Proof of such document has to be provided while tender submission.
7. All the documents submitted shall be ink signed and stamped by competent authority or authorized signatory. The Authorized Signatory shall be liable under applicable laws for submission of any forged documents.
8. **Bidder Turn Over Criteria:** The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be Rs.35 Lakh. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.





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9. **OEM Turn Over Criteria:** The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be atleast Rs.2.8 crore Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
  
  10. All CCTV products offered in the Project should be UL, CE and FCC certified.
  
  11. OEM of CCTV Camera's should be member of ONVIF.
-



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## **TENDER EVALUATION**

Institute will evaluate all the proposals to determine whether these are complete in all respects as specified in the tender document. Evaluation of the proposals shall be done in two stages as:

**(a) Stage – I (Technical Evaluation):**

- (i) Institute shall evaluate the technical bid(s) to determine the following like the bid qualifies the essential eligibility criteria or not, the tenderer has submitted the EMD & Tender fee or not, any computational errors have been made or not, all the documents have been properly filled or otherwise, all the documents have been submitted/ uploaded with technical bid or not, the specifications, Make/Model, Catalogue of quoted Equipment /Item are as per requirement tender specifications or not, Authorization of Dealer / Distributor/ Exclusive Agent certificate from manufacturer is in order or not, Sales & service policy of equipment / item during warranty period and after warranty period will also be seen, location of their authorized service center will also be seen for evaluation etc.

After evaluation of technical bid(s), a list of the qualifying tenderer (s)/ bidder (s) shall be made. Short-listed tenderer(s) will be informed of the date, time and place of opening of financial bid(s) and they may attend or depute their authorized representative/s to attend the schedule of opening of financial bid(s) on the scheduled date and time, if they wish to do so. The representative(s) should have a letter of authority to attend the price bid(s) opening event.

**Read and Accepted**

**(Signature & Stamp of Tenderer)**



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## **PART – II (e-FINANCIAL BID):**

- a) Bidders should offer the rates as per the format of BOQ as available on CPP Portal. **Detailed bill of material/quantity is also to be provided along with the price breakup of each item as per requirement of the tendered specification of the equipment in the online price bid at [CPP Portal](#).**

❖ **Note: The quoted amount as filled in the Annexure(s) of online financial bid and detailed bill of material/quantity provided with price break up of each item in the online financial bid should be tallied and both must be same, otherwise bid will be treated invalid.**

## **ARBITRATION:**

In case of any dispute or difference arising out in connection with the tender conditions/job order/Contract, the Institute and the Seller/Service Provider will address the dispute/difference for a mutual resolution and failing which, the matter shall be referred for arbitration to a sole Arbitrator to be appointed by the Institute.

The Arbitration shall be held in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the venue of arbitration shall be at Jalandhar only. The decision of the Arbitrator shall be final and binding on both the parties.

## **JURISDICTION:**

The courts at Jalandhar alone will have the jurisdiction to trial any matter, dispute or reference between parties arising out of this tender / contract. It is specifically agreed that no court outside and other than Jalandhar Court shall have jurisdiction in the matter.

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**(TERMS AND CONDITIONS (FOR THE SUPPLY OF GOODS, EQUIPMENT /ITEM)**

1. Rate should be quoted F.O.R NIT Jalandhar and In INR only.
2. Where the Equipment / Machinery/ Instrument are composed of several sub units/components, the rate should be quoted for each subunit/component separately. NIT Jalandhar reserves the right to increase or decrease the number of sub units/components and number of Equipment / Machinery/ Instrument according to its requirements.
3. The institute being government educational institute is having Excise and Custom duty exemption in terms of government notification No. 51/96-customs Dt. 23-7-1996 and No. 10/97-central excise Dt. 1-3- 1997 as amended from time to time, therefore taxes be quoted accordingly and this must be depicted in Price Bid clearly.
4. GST or any other chargeable duty where applicable must be specifically mentioned, failing which no tax or duty will be allowed at subsequent stage.
5. All items shall be indicated both in words as well as in figures. If there is difference between amount quoted in words and figures, amount quoted in words shall prevail.
6. **Payment:** 100% payment will be made against physical delivery, inspection, installation, training of the Equipment/Machinery/Instrument etc. in the institute, receipt of satisfactory workingreport of the Equipment / Machinery/Instrument etc. and receipt of Performance Bank Guarantee @ 3%.
7. **Warranty: Rates should be quoted with comprehensive warranty.** Besides this, policy regarding after sale service on the expiry of warranty period of Equipment / Machinery/Instrument etc. may be explained. The bidders should attach duly signed and stamped certificate of **warranty** as per **Annexure-F** with the technical bid.
8. **Training: In house training (where applicable) after the installation and commissioning of Equipment / Machinery/Instrument etc. shall be provided by the supplier.**
9. **Delivery:** Delivery date will be mentioned in the supply order. The time and date of delivery or dispatch stipulated in a supply order shall be deemed to be the essence of the supply order and if the supplier fails to deliver or dispatch any consignment within the period prescribed for such delivery, the delayed consignment will be accepted subject to penalty as laid down in the supply order, which will be recovered from the pending payments.

**Read and Accepted.**

**(Signature & Stamp of Tenderer)**



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1. No recovery of penalty will be made, if the delayed supplies are acceptable by extending the delivery period by the Director with our any LD charges.
2. Director will allow extension on the request of the supplier by recording in writing that in exceptional circumstances the supply was beyond the control of the supplier and there was no loss to the institute.
3. Penalty on account of delay, Director NIT, Jalandhar reserves the right to impose 0.5% (Half) per cent penalty per week on account of delay in supply, if delivery received after expiry of the original delivery period. The total penalty will not exceed 10% of the value of the delayed goods.
10. **Installation:** Supplier has to install the Equipment / Machinery/ Instrument within two to three weeks from the receipt of the Equipment / Machinery/Instrument etc. in NIT Jalandhar.
11. Spares and Accessories, wherever required should be quoted separately and clearly, even if these are not asked for.
12. **Site Preparation:** The supplier shall inform NIT Jalandhar about the site preparation, if any, needed for the installation, immediately after receipt of the supply order. Supplier must provide complete details regarding space and all infrastructural requirements needed for the Equipment / Machinery/Instrument etc which NIT Jalandhar should arrange before the arrival of Equipment / Machinery/Instrument etc to ensure its early installation and smooth operation thereafter. The supplier may offer his advice and render assistance to NIT Jalandhar in the preparation of the site and other pre installation requirements.
13. The total scope of work includes the supply, installation, satisfactory commissioning and testing of the Equipment / Machinery/Instrument etc by the supplier, training at NIT Jalandhar, method development and validation for parameters as mentioned in specifications at **Annexure-A**. The supplier will complete installation & Commissioning of Machine within two to three weeks from the date of receipt of Equipment / Machinery/Instrument etc. of NITJ.
14. Details about the service center for the quoted Equipment / Machinery/Instrument etc. in India may be mentioned.

**Read and Accepted.**

**(Signature & Stamp of Tenderer)**



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**Acceptance**

We \_\_\_\_\_ read and accept the instructions to the tenderer, terms & conditions and all other documents as mentioned in the tender and shall comply with them strictly.

Name of Bidder \_\_\_\_\_

Signature

Address \_\_\_\_\_

Seal of firm:

\_\_\_\_\_

\_\_\_\_\_

Date



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**Questionnaires A & B**

**QUESTIONNAIRE FOR PLANT & MACHINERY**

**Note: Please submit the reply in detail and also enclose the necessary documents with proof where required as per Questionnaire. These documents must be submitted in the technical bid document.**

Please state that you have submitted your quotations as per procedure mentioned below:-

➤ Bids consisting of technical details bringing out clearly in a separate sheet, the deviation in the specifications if any from that of tender enquiry specifications along with commercial terms and tender form.

1. Please attach list dully signed by you, for such spare parts and tools which are absolutely essential for proper maintenance and operation of machine for a period of two years giving full particulars of spare and tool with a price of each spare parts and tools separately.
2. Please confirm that you have adequate servicing and spare parts facilities in India in respect of Equipment /Item tendered by you or that you should arrange to provide such facilities simultaneously.
3. Please indicate that you guaranteed that before going out of production of spareparts, you will give adequate advance notice to the purchaser so that the institute may order his requirements of spares in one lot ,if he so desire.
4. Please indicate that you guaranteed that if you go out of production of spare parts, then you will make available prints, drawings of the spare parts and specifications of the material at no cost if and when required in connection with Equipment /Item to enable the purchaser to fabricate or procure spare parts fromother sources.
5. Please confirm that you undertake to enter into a rate contact with the purchaser to supply spare parts on an agreed basis for an agreed period.
6. Status:-
  - a) Indicate whether you are ISU or SSI
  - b) Are you registered with Government e-Marketing (GeM) for the itemquoted? If so indicate whether there is any monetary limit or registration.
  - c) If you are a small scale unit registered with NSIC under single pointregistration scheme whether there is monetary limit.
7.
  - a) If you are registered either with NSIC or with Government e-Marketing (GeM), please State whether you are registered with Directorate of industries of the state government concerned.
  - b) If so, confirm whether you have attached a copy of the certificate, issued by Director of industries.
8. Please indicate:-  
Name & Full Address of your Banker
9. Please indicate whether you agree to submit advance samples if called upto do so within the specified period of 21 days.



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10. Business name and constitution of firm:-
  - i) The Indian company Act. 1956
  - ii) Indian partnership Act. 1932
  - iii) Any act, if not, who are the owner/partners (please give full name and address)
  
11. Whether the tendering firm is / are:-
  - i) Manufacturers authorized agents
  - ii) Holders stock of the stores tendered for
  - iii) **NBI manufacturer's agents please enclose with tender the copy of manufacturer's authorization.**
  
12. Please state whether the inspection clause is acceptable to you
  
13. Here state specifically:-
  - i) Whether the price quoted by you is to the best of your knowledge and belief is not more than the price usually charged by you on stores of the same natures, class of description to any private purchase either foreign or as well as government purchaser. If not state the reason thereof if any also indicates the margin of Difference.
  
  - ii) In respect of indigenous items for which there is a controlled price fixed by law, the price quoted shall not be higher than that the controlled price and rates available on DGS&D/ Government e-Marketing (GeM) contract. The reason thereof should be stated.
  
14. State whether business dealing with you has been banned by Ministry/Department of supply or any other Govt. Department.
  
15. Please confirm that you have read all the instruction carefully and have complied with accordingly.

**(Signature of Tenderer)**

(\_\_\_\_\_)

1. Full Name & Address of the person signing

(\_\_\_\_\_)

2. Whether signing as proprietor /partners





**Dr B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY**

**G T Road By Pass, Jalandhar-144027, Punjab (India)**

EPABX-0181-2690301-453 Email [registrar@nitj.ac.in](mailto:registrar@nitj.ac.in)

**PERFORMA FOR PERFORMANCE STATEMENT**

**(For the Period of last 3 years)**

<b>e-Tender Notice No. NITJ/PUR/CCTV/04/2022</b>						
<b>Sr. No.</b>	<b>Order (full placed address of purchaser)</b>	<b>Order No. &amp; Dated</b>	<b>Description And Qty. of Stores Ordered</b>	<b>Value of Order</b>	<b>Date of Completion of Delivery</b>	<b>Has the equipment/Item been satisfactory commissioned</b>



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### Locations for Installation of CCTV Cameras (Outdoor) in the Campus

Sr. No.	Location	Qty. (Pcs.)	Remarks
1.	Main Gate	04	
2.	Gate No. 2	02	
3.	Boys Hostel 1,2,3,4,5,	10	
4.	Boys Hostel 6 & 7	04	
5.	Mega Boys Hostel Block A, B & F	06	
6.	Girls Hostels 1 & 2	04	
7.	M.Sc Block	02	
8.	Backside of New Lecture Theatre	04	
9.	In front of New Lecture	04	
10.	IT Building	03	
11.	Admin Block	06	
12.	IPE Deptt.	02	
13.	EC/ICE Deptt.	03	
14.	Textile Deptt.	02	
15.	Civil Deptt.	02	
16.	TEQUIP/Academic	02	
17.	Chemical Deptt.	02	
18.	Math Deptt.	02	
19.	Mechanical Deptt.	02	
20.	Biotech Deptt.	02	
21.	Central Workshop Old & New	04	
22.	New SAC	04	
23.	CSH	04	
24.	Dispensary	02	
25.	Gymnasium	02	
26.	Director Bungalow	02	
27.	Main Parking	02	
28.	Boys Hostel Chowk	03	
29.	Near Gym Hall Chowk	02	
30.	Night Canteen	02	
31.	Shyam Sunder Canteen	01	
32.	Classroom 5 to 8	02	
33.	Gate No.3	01	
34.	Community Centre	03	
35.	Verka Market Bank Area	02	
36.	Open Air Theatre	02	
37.	Guest House (Main)	02	
<b>Total</b>		<b>108</b>	

### PTZ Cameras

Sr. No.	Location	Qty. (Pcs.)	Remarks
1.	Administrative Building	01	
2.	New Lecture Theatre	01	
3.	IT Park	01	
4.	M.Sc. Block	01	
<b>Total</b>		<b>04</b>	



**Specifications for CCTV Camera along with Accessories:-**

SR. No.	DESCRIPTION	QTY.
1	2MP PTZ CAMERA 25X	4
2	ANPR CAMERA	1
3	VERIFOVAL BULLET CAMERA	108
4	8 CH NVR Compatible to ANPR	1
5	64 CH 8 SATA NVR	2
6	8 TB HARD DISK	17
7	8 PORT POE GIGA SWITCH	30
8	24 PORT NETWORK SWITCH	1
9	12 CORE OPTICAL FIBER CABLE (MTR)	2500
10	6 CORE OPTICAL FIBER CABLE (MTR)	4000
11	CAT 6 CABLE ROLL	42
12	MEDIA CONVERTER	32
13	SFP MODULE	32
14	RJ 45 CONNECTOR BOX	5
15	OFC PATCH CORD	125
16	24 PORT PATCH PANEL	1
17	24 PORT LIU	1
18	6 PORT LIU	30
19	POLE	65
20	PVC CONDUCT PIPE (MTR)	6000
21	FLEXIBLE CONDUIT PIPE (BUNDLE)	5
22	12U LOADED RACK	1
23	6U OUTDOOR LOADED RACK	30
24	3 CORE POWER CABLE 1.5 sqmm (MTR)	5500
25	50" LED TV Commercial	1
26	CAMERA MOUNTING	107
27	3 KVA ONLINE UPS	1
28	Workstation	1
29	INSTALLATION / COMMISSIONING / SPLICING / TESTING	1
30	VIDEO MANAGEMENT SOFTWARE	1

❖ The quantity of cables, pipes, connectors etc. may vary at the time of Installation.



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<b>BULLET VARIFOCAL CAMERA</b>		
<b>SR.</b>	<b>OPERATIONAL</b>	<b>SPECIFICATION</b>
1	Video Standard	NTSC / PAL
2	Scanning System	Progressive
3	Image Sensor	1 / 3" 4 Megapixel progressive CMOS
4	Number Of Pixels(H × V)	2688 x 1520
5	Minimum Illumination	0.005 Lux/F1.5(color,30 IRE), 0 Lux with IR ON
6	S/N Ratio	More than 55 Db
7	Electronic Shutter Speed	1 / 3~1 / 100000s
8	IR Distance	Up to 60m (197 ft), depending on scene reflectance
9	IR Light Control	Manual / Auto, Schedule
10	Day/Night	Auto(ICR) / Color / B&W
11	Backlight Compensation	BLC / HLC / WDR
12	Wide Dynamic Range	120 dB
13	White Balance	Auto/Natural/StreetLamp/Outdoor/Manual/ Customized Region
14	Privacy Masking	Off / On (4 Zones, Rectangle)
15	Motion Detection	Off / On (4 Zones, Rectangle)
16	Region Of Interest	Off / On (4 Zones)
17	Lens	2.7 mm~13.5 mm, Motorized, F1.5
18	Angle Of View	H: 104°~27°, V: 55°~15° or Higher
19	Alarm Input / Output	1 In; 1 Out
<b>VIDEO</b>		
1	Compression	H.265 / H.264 / Smart Codec / MJPEG (Sub Stream)
2	Resolution	4M (2688 x 1520); 3M (2304 x 1296); 1080p (1920 x 1080); 1.3M (1280 x 960); 720p (1280 x 720); D1 (704 x 576/704 x 480); VGA (640 x 480); CIF (352 x 288/352 x 240)
3	Frame Rate	Main Stream: 2688 x 1520 / 2304 x 1296 / 1920 x 1080 / 1280 x 960 / 1280 x 720@ (1 ~ 15 fps) Or Higher Sub Stream: 704 x 576 / 640 x 480 / 352 x 288@ (1 ~ 25 fps); 704 x 480 / 640 x 480 / 352 x 240@ (1 ~ 30 fps) Third Stream: 1280 x 720 / 704 x 576 / 640 x 480@ (1 ~ 25 fps); 1280 x 720 / 704 x 480 / 640 x 480@ (1 ~ 30 fps)
4	Bit Rate Control	CBR / VBR
5	Bit Rate	H264-3KBPS-8192KBPS H265-3KBPS-8192 KBPS
<b>AUDIO</b>		
1	Interface	1 In; 1 Out
<b>NETWORK</b>		
1	Ethernet	RJ-45(10/100 BASE-T)
2	Supported Web Browsers	Internet Explorer (11.0+) And Extra



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3	Supported OS	Windows® 10, 32-bit/64-bit Or Higher
4	Protocols*	HTTP; HTTPs; TCP; ARP; RTSP; RTP; RTCP; UDP; SMTP; DHCP; DNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; Bonjour; IEEE 802.1x; Multicast; ICMP; IGMP
5	Compatibility	ONVIF Profile S / G / Q / T
6	Maximum Users Access	20 users
7	Security	User account and password protection HTTPS, IP Filter
1	Event	No SD card, SD card error, Capacity warning, Network disconnection, IP conflict, Illegal access
2	Micro SD	Supports max. 128 GB Micro SD card or Higher
<b>ELECTRICAL</b>		
1	Power Supply	DC12V PoE (802.3 af)(Class 0)
2	Power Consumption	<15W
<b>ENVIRONMENTAL</b>		
1	Relative Humidity	Less than 95%, non-condensing
2	Ingress Protection	IP67
3	Vandal Resistance	IK101



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PTZ CAMERA		
SR.NO.	CAMERA	SPECIFICATION
1	IMAGE SENSOR	1/2.8" CMOS
2	OPTICAL ZOOM	25x
3	DIGITAL ZOOM	16x
4	NUMBER OF PIXELS (H × V)	1920 × 1080 (1080p)
5	WDR	120 dB
6	S/N RATIO	> 55 dB (AGC off)
7	MINIMUM ILLUMINATION	0.005 lux (color)/0 lux (B/W) @ F1.6 (with IR LEDs on)
8	FOCAL LENGTH	4.8 mm – 120 mm or better
9	FOCUS MODE	Manual/Auto
10	IR DISTANCE	Up to 328 ft. (100 m), depending on scene reflectance
11	WHITE BALANCE	Auto/Indoor/Outdoor/ATW/Manual
12	EXPOSURE MODE	Iris Priority/Shutter Priority/Gain Priority/Manual
13	ELECTRONIC SHUTTER	1/1 to 1/30,000 sec
14	BACKLIGHT COMPENSATION	BLC/HLC/WDR (120 dB)
15	DEFOG	On/Off
16	DAY/NIGHT	Auto (ICR)/Color/BW
<b>OPERATION</b>		
1	PAN TRAVEL	360° endless
2	TILT TRAVEL	-15° to 90°, auto flip 180°
3	MANUAL PAN SPEED	Up to 200°/s
4	MANUAL TILT SPEED	Up to 120°/s
5	PRESETS	300
6	PRESET SPEED	Pan: Up to 240°/s; Tilt: Up to 200°/s or better
7	TOURS	8
8	MOTION DETECTION	On/Off
9	IMAGE ROTATION	Flip
10	AUDIO IN/OUT	1 / 1
11	ALARM INPUT/OUTPUT	2 / 1
12	EVENT	Motion Detect; Audio Detect; SD card capacity warning
13	EVENT NOTIFICATION	Record (SD card and FTP), Relay output, Email, Preset, Tour, Pattern, Snapshot
<b>ELECTRICAL</b>		
1	POWER SOURCE	12 VDC ± 25%, 3APoE+ (802.3at) class + 24VAC
2	POWER CONSUMPTION	23 W; 30 W max (IR LEDs on) or better
<b>MECHANICAL</b>		
1	DIMENSIONS	Ø160.0 mm × 295.0 mm Ø6.3" × 11.6"



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2	CONNECTORS	Power input: Bare wire with connectors Network: RJ45 connector Alarm I/O: Twisted wire (2 in/1 out) Audio I/O: Twisted wire (1 in/1 out)
<b>ENVIRONMENTAL</b>		
1	OPERATING TEMPERATURE	-40°C to 70°C (-40°F to 158°F )
2	RELATIVE HUMIDITY	Less than 90%, non-condensing
3	WATERPROOF STANDARD	IP66 or better
<b>IP SPECIFICATIONS</b>		
1	VIDEO COMPRESSION	H.265 / H.264 / MJPEG or better
2	VIDEO STREAMING	Primary Stream: 1080p/720p @ 60/50 fps 2nd Stream: D1/CIF @ 30/25 fps 3rd Stream: 720p/D1/CIF @ 30/25 fps or better
3	VIDEO RESOLUTION	1080p (1920×1080p) / 720p (1280×720) / D1 (704×576/704×480) / CIF (352×288/352×240)
4	AUDIO COMPRESSION	G.711a/G.711Mu/AAC/G.726
5	INTERFACE	RJ-45, 10/100 Mbps Ethernet
6	SUPPORTED PROTOCOLS	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, SSL, FTP, SMTP, DHCP, PPPoE, UPnP, SNMP, Bonjour, DDNS, IEEE 802.1x, QoS, NTP, IP Filter, ONVIF



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### ANPR

#### ANPR CAMERA

Accuracy (Under recommended installation and lighting conditions)	Capture rate > 98% accuracy > 98% Mistaken capture rate < 2%
No License Plate Detection	Supported
Motorcycle LPR	Supported
Vehicle Type	Car/Van/Bus/Truck/Others
Vehicle Color	Red, yellow (including orange), green, blue, purple, brown, white, grey (including silver), black
Vehicle Manufacturer	65 manufacturers: HYUNDAI, TOYOTA, KIA, HONDA, VOLKSWAGEN, BENZ, NISSAN, FORD, ISUZU, BMW, CHEVROLET, MITSUBISHI, RENAULT, OPEL, SUZUKI, SKODA, DAEWOO, AUDI, MAZDA, HINO, PEUGEOT, SSANG YONG, CITROEN, FIAT, SCANIA, MAN, VOLVO, LEXUS, SEAT, LAND ROVER, DAIHATSU, UD TRUCKS,
Capture Speed Range	5 to 120 km/h or better
<b>Image</b>	
Max. Resolution	1920 × 1080 or better
Main Stream	50 Hz: 50 fps (1920 × 1080) or better 60 Hz: 60 fps (1920 × 1080) or better
Sub-Stream	50Hz: 50fps (1280 × 720, 704 × 576, 352 × 288) 60Hz: 60fps (1280 × 720, 704 × 480, 640 × 480)
Image Enhancement	BLC, HLC, 3D DNR
Image Settings	Rotation mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable via client software or web browser.
Video Compression	H.264 and H.265 encoding
Day/Night Switch	Auto/Scheduled/Triggered by alarm in
<b>Network</b>	
Network Storage	Micro SD/TF Card (128 GB), local storage and CVR, NVR or better
Alarm Trigger	HDD Error, network disconnected, IP address conflicted, License plate block list
Protocols	TCP/IP, HTTP, HTTPS, FTP, DNS, RTSP, NTP, IPv6, UDP, On VIF
Security Measures	Password protection, HTTPS encryption, digest authentication for HTTP/HTTPS, digest authentication for ONVIF (Version 2.1)
Web Browser	IE11+, Google Chrome, Firefox, Safari
<b>Interface</b>	
Audio	Supported
Communication Interface	1 RJ45 10M/100M/1000M Ethernet interface 2 RS-485 interfaces 1 RS-232 port
Alarm	2 input interfaces, 2 output interfaces or better
Video Output	Network





On-Board Storage	Built-in micro SD/TF card, up to 128 GB
Reset Button	Supported
<b>General</b>	
Certifications	CE, FCC, RoHS
Operating Conditions	Temperature: -30 °C to +70 °C (-22 °F to +158 °F), Humidity: 95% or less (non-condensing)
Power Supply	12 VDC to 24 VDC ± 20%, POE
Protection Level	IP67
Dimensions	With package: 428.5 × 120 × 132.8 mm
Weight	Camera: approx. 3.12 ± 0.5 kg (6.88 ± 1.1 lb)
Power Consumption	Max. 35 W



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### NVR

<b>MAIN PROCESSOR</b>	Quad-core embedded processor, Industrial Grade
<b>OPERATING SYSTEM</b>	Embedded LINUX
<b>INPUTS</b>	<b>HEN32304</b> : 32 Channels IP
<b>AUDIO INPUT/OUTPUT</b>	1 Channel Input/1 Channel Outputs, RCA
<b>TWO-WAY COMMUNICATION</b>	Supported
<b>INTERFACE</b>	2 HDMI (1 HDMI up to 3840 × 2160); 1 VGA
<b>RESOLUTION</b>	3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720; 1024 × 768
<b>DISPLAY SPLIT</b>	<b>HEN32304</b> : 1/4/8/9/16/25/36
<b>OSD</b>	Camera title; Time; Video loss; Camera lock; Motion detection; Recording
<b>PROGRAMMABLE VIDEO OUTPUT</b>	2nd HDMI output
<b>FISHEYE VIDEO DE-WARPING</b>	Supported in local and web user interface
<b>COMPRESSION</b>	H.265/H.264/MJPEG/MPEG4
<b>RESOLUTION</b>	<b>12 MP</b> (4000 × 3000); <b>8 MP</b> (3840 × 2160); <b>6 MP</b> (3072 × 2048); <b>5 MP</b> (2560 × 1920); <b>4 MP</b> (2560 × 1440); <b>3 MP</b> (2048 × 1520); <b>1080p</b> (1920 × 1080); <b>720p</b> (1280 × 720); <b>D1</b> (704 × 576 / 704 × 480); <b>CIF</b> (352 × 288 / 352 × 240)
<b>RECORD BIT RATE</b>	312 Mbps or better
<b>BIT RATE<sup>1</sup></b>	16 kbps ~ 20 Mbps, per channel
<b>RECORDING MODE</b>	Schedule (Regular/Continuous, Motion Detection, Alarm); Manual; Stop
<b>RECORDING INTERVAL</b>	1 to 120 minutes (default 60 min)
<b>PRE-EVENT RECORDING INTERVAL</b>	1 to 30 seconds
<b>POST-EVENT RECORDING INTERVAL</b>	10 to 300 seconds
<b>TRIGGER EVENTS</b>	Recording; PTZ; Tour; Video Push; Email; FTP; Snapshot; Buzzer
<b>VIDEO DETECTION</b>	Motion Detection—MD Zones: 396 (22 × 18); Video Loss; Camera Blank
<b>ALARM INPUT</b>	16 Channels
<b>RELAY OUTPUT</b>	6 Channels or better
<b>SYNC PLAYBACK</b>	1/4/8/16 (maximum 4-ch @ 8MP, 8-ch @ 4MP, or 16-ch @ 1080p simulateous playback)
<b>SEARCH MODE</b>	Time/Date; Alarm; Motion Detection (MD); Exact Search (accurate to a second); Smart Search



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<b>PLAYBACK FUNCTION</b>	Play; Pause; Stop; Rewind; Fast play; Slow play; Next File; Previous File; Next Camera; Previous Camera; Full Screen; Repeat; Shuffle; Backup selection; Digital Zoom
<b>ETHERNET</b>	1 RJ-45 port (10/100/1000 Mbps) or better
<b>POE</b>	16 ports (IEEE802.3af/at)
<b>SUPPORTED PROTOCOLS<sup>2</sup></b>	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search, P2P
<b>MAXIMUM NUMBER OF USERS</b>	128 users
<b>NETWORK THROUGHPUT</b>	Input 312 Mbps; Output 312 Mbps or better
<b>SMART PHONE COMPATIBILITY</b>	iPhone; iPad; Android
<b>INTERNAL HDD</b>	8 SATA ports
<b>EXTERNAL HDD</b>	1 eSATA port
<b>RAID</b>	RAID** 1, 5, 10
<b>USB PORTS</b>	4 (2 rear USB3.0; 2 front USB2.0)
<b>RS232</b>	1 port (for PC communications and keyboard)
<b>POWER SUPPLY</b>	Single, 100~240 VAC, 50/60 Hz
<b>POWER CONSUMPTION</b>	<b>NVRs:</b> 25 W max (without HDD)
<b>OPERATING TEMPERATURE</b>	14°F to 131°F (-10°C to 55°C)
<b>RELATIVE HUMIDITY</b>	10% to 90%, non-condensing
<b>DIMENSIONS</b>	17.3" × 17.9" × 3.7" (440 mm × 454 mm × 95 mm)
<b>WEIGHT (WITHOUT HDD)</b>	15.4 lb. (7.0 kg) or better
<b>CERTIFICATES</b>	ROHs, FCC, UL, BIS



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## LED

### Technical Specifications

\*As per GeM CATEGORY SPECIFICATION

Specification	Specification name	Bid Requirement (Allowed Values)
<b>Specification</b>	Type	4K Ultra HD
	Screen size (inches)	50"
	Resolution (Pixels)	(3840x2160) UHD Or higher
	Category	Smart or higher
	Typical Brightness	200-299, 300-399, 400-500 or higher
	If Yes, Wattage of Speakers	20W x 2
<b>Certification</b>	Energy star Rating in line with the Government of India Notification number S O 1896(E)	4, 5 or higher
<b>Operating software</b>	Operating software	Tizen
<b>warranty</b>	Warranty (Years)	3



### UPS 3 KVA Technical Specification

Feature / Model	3 Kva Online UPS System
<b>Topology</b>	Double Conversion-Online- Single Phase Input/Output, True online UPS, With Full Digital Signal Processing using DSP Technologies, Software Compatible Double Conversion with LCD Panel & Data Logging of 65 Events Pure Sine wave O/P with high frequency switching. IGBT Inverter & IGBT Rectifier.
<b>Output</b>	
<b>Power Factor</b>	0.8
<b>Output Power Capacity</b>	2400 Watts
<b>Output Voltage</b>	230 V ( configurable for 220,230,240 output voltage)
<b>Output Voltage Distortion</b>	Less than 3%
<b>Output Frequency</b>	50-60Hz +/- 3Hz
<b>Efficiency @ Full Load</b>	not less than 92%
<b>Output Connections</b>	1 Hard wire 3 wire (HN+G)
<b>Input</b>	
<b>Nominal Input Voltage</b>	230 V
<b>Input Voltage window</b>	156-280 VAC, Single phase
<b>Input Voltage Adjustable Range</b>	100-280V
<b>Input Frequency window</b>	40-70 Hz (autosensing)
<b>Bypass</b>	Should be with Automatic Inbuilt Bypass
<b>Battery Bank</b>	
<b>DC Voltage Bus</b>	72 VDC
<b>Battery Backup</b>	Minimum VAH = 3024
<b>Battery Type</b>	Sealed Maintenance Free- Lead Acid Battery with suspended Electrolyte (Leak Proof)
<b>Battery Rack &amp; Links</b>	Suitable
<b>Charging Current</b>	Charging Current should not be less than 8 Amps
<b>Input Power Factor</b>	>0.99
<b>Surge Protection &amp; Filtering</b>	
<b>Surge Energy Rating</b>	420 Joules
<b>Filtering</b>	Full-time multi pole noise filtering:0.3%IEEE Surge Let through : Zero Clamping response time: Meets UL 1449.
<b>Communications &amp; Management</b>	
<b>Interface ports</b>	DB-9 RS-232 Smart Slot
<b>Control Panel</b>	LCD display with load & Battery Bar Graph & OnLine : Onbattery : Replace Battery
<b>Management Software</b>	UPS Should be with Automatic shut down software.
<b>SNMP Card</b>	UPS Should be with Pre-installed SNMP Card.
<b>Physical</b>	UPS Can be mounted in Server Rack as well as Tower type.
<b>Rack Height</b>	2U
<b>Audible Alarms</b>	Alarm when on Battery, Low Battery, Overload Continuous alarm.
<b>Regulatory Approvals</b>	OEM Reach, BIS, ROHS, ISO 9001,ISO14001, ISO50001 must be enclosed in technical Bid.
<b>Environmental Conditions</b>	
<b>Operating Temperature</b>	0-40C
<b>Operating Relative Humidity</b>	0-95%
<b>Warranty</b>	2 Years Onsite Comprehensive On UPS & Batteries Both.



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## WorkStation Technical Specification

Specification	Specification Name	BID Requirement
Processor	Processor Make	Intel
	Processor Generation	10.0 or Higher
	Number of Cores Per Processor	8 Cores
	Processor Description	Intel Core i7
Graphics	Graphics Type	Integrated
	Size of Memory in Case of Dedicated Graphic Card (GB)	0
Operating System	Operating System (Factory Pre-Loaded)	Windows 10 Professional
Memory	RAM Size (GB)	16
	RAM Expandability up to( using spare DIMM Slots in GB)	128
Storage	Type of Drives used to populate the Internal Bays	HDD, SSD
	Total HDD Capacity (GB)	2000
	Total SSD Capacity (GB)	512
Cabinet	Cabinet Form Factor	Tower (13.1 to 26 Ltr)
Input Devices	Mouse Connectivity	Wired
	Keyboard Connectivity	Wired
Warranty	On Site OEM Warranty (Year)	3



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### UTP CAT 6 Specification

	Description	
Conductor	23 AWG solid bare copper (4 Pair)	
Pairs	2 Insulated conductors twisted together	
Insulation	High Density Polyethylene	
Sheath	FR-PVC Insulation thickness 0.2mm nominal and should be CM rated PVC	
Resistance Unbalance	5%	
Capacitance Unbalance	330pf/100m	
Delay Skew	< 45nS	
Cable Diameter	6.1 mm nominal	
Printing	Each meter printed with sequential length Counter	
NVP (%)	69%	
Temperature Range	-20° to +70°C	
Approvals	UL Listed and ETL Verified	
Commercial standards	ANSI/TIA-568.2-D,ISO/IEC 11801,IEC-60332-1	



## Optical Fibre Armoured Specification (6/12 Core)

	Description	
Features and Benefits	Cable containing upto 6/12 optical fibres in water blocked loose tube, taped, corrugated steel tape armoured (STA) polyethylene (HDPE) outer sheathed embedded with two steel wires on the periphery. The cables are with UV Stabilized PE Jacket and protected from Rodent attacks.	
Tube	Polybutylene Terephthalate(PBT)	
Armouring	Corrugated Steel Tape Armour (ECCS Tape) Thickness > 0.125mm	
Peripheral Strength Member	Two Steel wires (0.9 mm dia)	
Outer Sheath	UV Stabilised Polyethylene (HDPE)	
Sheath thickness	2.0 mm nominal	
Commercial Standards	ISO.IEC 11801 - 2nd Edition, type OS1/OS2; AS/ACIF S008; AS/NZS 3080 ;ITU-T REC G 652D spec for Low Water Peak fibre; supports 10G+ data applications IEC 60793/60794-1-2 Telcordia(BELLCORE) GR 20 STDS,TIA/EIA 568-C.3, EIA 455	
Max. Tensile Strength	Short Term:1500N	
Max. Crush Resistance	Short Term:2000N/10 cm	
Operating Temperature range	: -40°C ±70°C	





## NETWORK RACK

### SPECIFICATION

1	RACK STANDARD	Conforms to DIN 41494 or equivalent standard
2	CONSTRUCTION	Welded
3	FRONT DOOR	Lockable Toughened Glass Door
4	BASIC FRAME	CRCA (MS SHEET) 0.6mm thick.
5	EQUIPMENT MOUNTING	DIN Standard Slots
6	MOUNTING ANGLE	1.6mm Vertical Mounting Rail with clear 'U' Marking.
7	STANDARD FINISH	Powder coated
8	TOP AND BOTTOM	cable entry cut-outs
9	STANDARD COLOR	Grey or Black
10	STATIC LOAD	25 kgs.

## RACK 6U

### TECHNICAL SPECIFICATION 6U OUTDOOR RACK

1	Rack Standard	Conforms to DIN 41494 or equivalent standard
2	Construction	Welded
3	Front Door	Lockable Toughened Glass Door
4	Basic Frame	Steel
5	Equipment Mounting	DIN Standard Slots
6	Mounting Angle	19" Mounting angles made of formed steel
7	Standard Finish	Powder Coated
8	Top and Bottom Cover	Welded to Frame, Vented and Field Cable entry exit cut outs
9	Standard Color	Grey
10	Static Load	60 kgs.

## RACK 12U

### TECHNICAL SPECIFICATION 12U OUTDOOR RACK

1	RACK STANDARD	Wall Mount Rack 12U
2	CONSTRUCTION	Powder coated Color- RAL- 7035
3	FRONT DOOR	Front with Toughened Glass Door with Lock & Key
4	BASIC FRAME	Basic Frame CRCA MS Sheet
5	EQUIPMENT MOUNTING	Other Additional Accessories Optional
6	MOUNTING ANGLE	19" Vertical Mounting Rail with clear 'U' Marking
7	STANDARD FINISH	Powder coated Color- RAL- 7035
8	TOP AND BOTTOM	Cable entry/exit provision at top and bottom with rubber at edges
9	STANDARD COLOR	Grey
10	STATIC LOAD	Load Bearing Capacity 40Kg



## PoE Network Switch

TECHNICAL SPECIFICATION 8 Port Network Switch		
1	Network Port	PoE (1~8) :10/100/1000Mbps PoE ports (RJ45) LAN (1~2):10/100/1000Mbps uplink port (RJ45) SFP (1~2):10/100/1000Mbp uplink ports (SFP)
2	Network Standard	IEEE 802.3i 10BASE-T IEEE 802.3u 100BASE-TX/ IEEE 802.3ab 1000BASE-T IEEE 802.3x Flow Control IEEE 802.3af/at/bt Power over Ethernet
3	Transmission Rate	180Mbps Full Duplex; 10 or 100 or 1000Mbps Half Duplex
4	MAC Address Table	8K
5	Bandwidth	22.0 Gbps
6	Power Budget	120W
7	Power Input	AC 180~240V, Total ≤120W
8	Lightning Protection	5KV
9	Operating Temperature	-30°C ~60°C
10	Working Humidity	10%~90% (Non-condensing)

TECHNICAL SPECIFICATION 24 Port Network Switch		
1	Network Port	24 PORT :10/100/1000Mbps RJ45 4SFP 10/100/1000Mbp uplink ports SFP
2	Network Standard	IEEE 802.3(10BASE-T), IEEE 802.3u (100BASE- TX) IEEE 802.3ab (1000BASE-Tx) IEEE 802.3x Flow Control IEEE 802.1D(STP), IEEE802.1w(RSTP), IEEE802.1s(MSTP)
3	Transmission Rate	10BASE-T OR 100BASE-TX, 1000BASE-TX, 1000BASE- SE- x
4	Forwarding Rate	Gigabit wire-speed forwarding
5	Bandwidth	50+ Gbps
6	Port Management	Enables / Disables the port, Speed, duplex, MTU settings, Flow-Control, Port Information view
7	Power Source	12V/2.1A
8	Lightning Protection	All ports support up to 4Kv lightning protection function
9	Operating Temperature	0°C~55°C
10	Working Humidity	10%~90% non-condensing



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**Annexure “B”**

**FORMAT FOR PERFORMANCE BOND/GUARANTEE**

**(Undertaking from the supplier on a Non Judicial Stamp Paper of requisite duly attested by Notary) In consideration for “The Registrar, National Institute of Technology Jalandhar (hereinafter called NIT Jalandhar) having agreed to release the payment of net value as per terms and conditions of a concluded Order No. \_\_\_\_\_ dated \_\_\_\_\_ (hereinafter called ‘the order’) for supply of \_\_\_\_\_ (here in after called ‘the Equipment /Item ) to us Messrs \_\_\_\_\_ (hereinafter called ‘the supplier’) on submission of a Performance Bond to the satisfaction of NIT Jalandhar for the due performance of the said order.**

We, Messer’s \_\_\_\_\_ hereby submit the FDR/TDR No. \_\_\_\_\_ issued by \_\_\_\_\_ (Name of Bank) for \_\_\_\_\_ pledged in favour of Registrar, NIT Jalandhar as performance guarantee amount and hereby irrevocably, unconditionally and absolutely undertake against any loss or damage caused or suffered by NIT Jalandhar by reason of any failure of the supplier to perform or omission or negligence to perform any part of its obligations to the satisfaction of NIT Jalandhar in terms of the order.

We, the supplier, do hereby authorize Registrar, NIT Jalandhar to forfeit this Performance Guarantee amount / undertake to pay the amount due and payable under this guarantee without any demur merely on a demand from the NIT Jalandhar stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the NIT Jalandhar by reason of any breach by us of any of the terms and conditions contained in the said order or by reason of our failure or omission or negligence to perform the said order or any part thereof. We, the Supplier, undertake to pay to NIT Jalandhar any amount so demanded by NIT Jalandhar, notwithstanding:

- a) Any dispute or difference between NIT Jalandhar and supplier or any other person or between the supplier or any person or any suit or proceeding pending before any court or tribunal or arbitrator relating thereto; or
- b) The invalidity, irregularity or unenforceability of the order; or
- c) Any other circumstances which might otherwise constitute discharge of this guarantee, including any act of omission or commission on the part of NIT Jalandhar to enforce the obligations by the supplier or any other person for any reason whatsoever.

We, the Supplier, further agree that the performance Bond/ Guarantee herein contained shall be continued one and remain in full force and effect during the period that would be taken for the performance of the said order and that it shall continue to be enforceable till all the dues of the NIT Jalandhar under or by virtue of the said order have been fully paid and its claims satisfied or discharged or till the office of the Registrar, NIT Jalandhar certifies that terms and conditions of the said order have been fully and promptly carried out by us and accordingly discharges this Performance Bond/ Guarantee.

We, the Supplier, further agree with NIT Jalandhar, that NIT Jalandhar shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said order or to extend time of performance by the said supplier from time to time or to postpone for any time or from time to time and of the powers exercisable by the NIT Jalandhar against the said supplier and forbear or enforce any of the terms and conditions relating to the order and we shall not be relieved from our liability by reason of any such variation or extension being granted to us or for any forbearance, act or omission on the part of NIT Jalandhar or any indulgence by NIT Jalandhar to us or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

This Performance Bond/Guarantee will not be discharged due to the change in the constitution of the supplier. We, the Supplier, undertake not to revoke this Performance Bond / Guarantee except with the prior consent of NIT Jalandhar in writing.

The disputes relating to this Bank Performance Bond / Guarantee shall be resolved as per the terms and conditions of the order.



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**Annexure “C”**

**FORMAT FOR PERFORMANCE BOND (BANK GUARANTEE)**

In consideration for the Registrar, National Institute of Technology Jalandhar, (*hereinafter called NIT Jalandhar*) having agreed to release the payment of net value as per terms and conditions of a concluded Order No.

dated \_\_\_\_\_ (*hereinafter called ‘the order’*) for supply of \_\_\_\_\_ (*hereinafter called ‘the Equipment /Item’*) to Messrs \_\_\_\_\_ (*hereinafter called ‘the supplier’*) on submission of a Bank Guarantee to the satisfaction of NIT Jalandhar for the due performance of the said order.

We, \_\_\_\_\_ (*hereinafter called ‘the Bank’*) at the request of the supplier do, as a primary obliger and not merely as surety, hereby irrevocably, unconditionally and absolutely undertake against any loss or damage caused or suffered by NIT Jalandhar by reason of any failure of the supplier to perform or omission or negligence to perform any part of its obligations to the satisfaction of NIT Jalandhar in terms of the order.

We, the Bank do hereby undertake to pay the amount due and payable under this guarantee without any demur merely on a demand from NIT Jalandhar stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by NIT Jalandhar by reason of any breach by the said supplier of any of the terms and conditions contained in a said order or any part thereof. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under this guarantee, which shall not be considered as satisfied by any intermediate payment or satisfaction of any part of or obligation hereunder. However, our liability under this guarantee shall be restricted to an amount not exceeding \_\_\_\_\_.

We, the Bank, undertake to pay to NIT Jalandhar any amount so demanded by NIT Jalandhar, notwithstanding a). Any dispute and difference between NIT Jalandhar and supplier or any other person or between the supplier or any person or any suit or proceeding pending before any court or tribunal or arbitrator relating thereto or

- a). The invalidity, irregularity or unenforceability of the order or
- b). Any other circumstances which might otherwise constitute discharge of this guarantee, including any act of omission or commission on the part of NIT Jalandhar to enforce the obligations by the supplier or any other person for any reason whatsoever.

We, the Bank, further agree that the guarantee herein contained shall continue and remain in full force and effect during the period that would be taken for the performance of the said order and that it shall continue to be enforceable till all the dues of NIT Jalandhar under or by virtue of the said order have been fully paid and its claims satisfied or discharged or till the office of the Registrar, NIT Jalandhar confirms that the terms and conditions of the said order have been fully and promptly carried out by the said supplier and accordingly discharge this guarantee.

We, the Bank, hereby agree and undertake that any claim which the bank may have against the supplier shall be subject to and subordinate to the prior payment and performance in full of all the obligations of the bank hereunder and the bank will not, without prior written consent of NIT Jalandhar, exercise any legal rights or remedies of any kind in respect of any such payment or performance so long as the obligations of the bank hereunder remain owing and outstanding, regardless of the insolvency, liquidation or bankruptcy of the supplier or otherwise. We, the Bank, will not counter claim or set off against its liabilities to NIT Jalandhar hereunder any sum outstanding to the credit of NIT Jalandhar with it.

We, the Bank, further agree with NIT Jalandhar, that NIT Jalandhar shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said order or to extend time of performance by the said supplier from time to time or to postpone for any time or from time to time and of the powers exercisable by the NIT Jalandhar against the said supplier and forbear or enforce any of the terms and conditions relating to the order and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said supplier or for any forbearance, act or omission on the part of NIT Jalandhar or any indulgence by NIT Jalandhar to the said supplier or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

This guarantee will not be discharged due to the change in constitution of the Bank or the supplier.

We, the Bank, lastly undertake not to revoke this Guarantee during its currency except with the prior consent of NIT Jalandhar in writing.

The disputes relating to this Bank Guarantee shall be resolved as per the terms and conditions of the order.



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**Annexure "D"**

**FORMAT FOR MANUFACTURER'S AUTHORIZATION FORM**

To,  
The Registrar  
Dr B. R Ambedkar National Institute of  
Technology Jalandhar

Sub. : e-Tender for "\_\_\_\_\_".

Dear Sir,

We, \_\_\_\_\_, who are established and reputed manufacturers of \_\_\_\_\_, having factory/office at \_\_\_\_\_, hereby authorize M/s \_\_\_\_\_ [name & address of agents/distributors] to bid, negotiate and conclude the order with you for the above goods manufactured by us.

We shall remain responsible for the tender/Agreement be negotiated by M/s \_\_\_\_\_, jointly and severally. No company or firm or individual other than M/s \_\_\_\_\_ are authorized to bid, negotiate and conclude the order in regard to this business against this specific tender as for all business in the entire territory of India.

We hereby extend our full guarantee and warranty as per the terms and conditions of tender for the goods offered for supply against this invitation for bid by the above supplier.

\_\_\_\_\_  
\_\_\_\_\_

***\*specify in detail manufacturer's responsibilities the services to be rendered by***

M/s \_\_\_\_\_ are as under:

- i) \_\_\_\_\_
- ii) \_\_\_\_\_

*[Specify the services to be rendered by the agent/distributor]* In case duties of the agent/distributor are changed or agent/ distributor is changed it shall be obligatory on us to automatically transfer all the duties and obligations to the new Indian Agent failing which we will ipso-facto become liable for all acts of commission or omission on the part of new Indian Agent/ distributor.

Yours faithfully,

[Name & Signature] For and on behalf of M/s. \_\_\_\_\_ [Name of manufacturer]



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**Annexure “E”**

**DECLARATION REGARDING BLACKLISTING / DEBARRING FOR TAKING PART IN TENDER**

**Self Attested**

I / We \_\_\_\_\_(Tenderer) hereby declare that the firm / agency 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 \_\_\_\_\_(Tenderer) hereby declare that the Firm / agency 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.

In case the above information found false I / we are fully aware that the tender/ contract will be rejected / cancelled by Director, NIT Jalandhar, and EMD / SD shall be forfeited.

DEPONENT

**Attested:**

**(Stamp of Company with authorized sign)**

Name \_\_\_\_\_

Address \_\_\_\_\_



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**Annexure “F”**

**CERTIFICATE OF WARRANTY**

- i) I/We certify that the warranty shall be for a period of \_\_\_\_\_ years for \_\_\_\_\_ and starting from the date of satisfactory installation, commissioning and handing over of the Equipment/Item and of the works conducted therewith covered under the supply order in working order. During the **warranty period, I/we shall provide free “after sale service” and the replacement of any part(s) of the** Equipment /Item or rectification of defects of work of the Equipment /Item will be free of cost. The replacement of the parts shall be arranged by us, at our own cost and responsibility. We undertake that the above warranty shall begin only from the date of satisfactory and faultless functioning of the Equipment /Item for 60 days at NIT Jalandhar premises. The benefit of change in dates of the warranty period shall be in the interest of the use/your organization.
- ii) During the warranty period, we shall provide at least \_\_\_\_\_ **preventive maintenance visits.**
- iii) Uptime Guarantee: During the warranty period, we will be responsible to maintain the Equipment/Item in good working conditions for a period 350 days (i.e. 95% uptime) in a block of 365 days.
- a) All complaints will be attended by us within 2 working days of receipt of the complaint in our office.
- b) In case there is delay of more than 2 days in attending to a complaint from our side then you can count the number of days in excess of the permissible response time in the downtime. The above said response time of 2 days for attending to a complaint by us will not be counted in the downtime.
- c) **Penalty:** We shall pay a penalty equivalent to **0.5 % of the FOB/CIF** value of the Equipment /Item for every week or part thereof delay in rectifying the defect.

**Note: The right to accept the reason (s) for delay and consider reduction or wave off the penalty for the same shall be at the sole discretion of Director, NIT Jalandhar**

- iv) We certify that the Equipment /Item being/ quoted is the latest model and that spares for the Equipment /Item will be available for a period of at least \_\_\_\_\_ years and we also guarantee that we will keep the organization informed of any update of the Equipment /Item over a period of \_\_\_\_\_ years.
- v) We guarantee that in case we fail to carry out the maintenance within the stipulated period, NIT Jalandhar reserves the right to get the maintenance work carried out at our risk, cost and responsibility after informing us. All the expenses including excess payment for repairs/maintenance shall be adjusted against the Performance Bank Guarantee. In case the expenses exceed the amount of Performance Bank Guarantee, the same shall be recoverable from us with/without interest in accordance with the circumstances.
- vi) We shall try to repair the Equipment /Item at NIT Jalandhar premises itself. However, the Equipment/Item will be taken to our site on our own expenses in case it is not possible to repair the same at NIT Jalandhar. We shall take the entire responsibility for the safe custody and transportation of the Equipment /Item taken out for repairs till the Equipment /Item is rehabilitated to the NIT Jalandhar after repair. Any loss of Equipment /Item or its accessories under its charge on account of theft, fire or any other reasons shall be at our sole risk and responsibility which will be compensated to NIT Jalandhar for such losses at the FOB/CIF value for the damaged/lost Equipment /Item part, including accessories.
- vii) We undertake to perform calibration after every major repair/breakdown/taking the Equipment /Item for repair out of NIT Jalandhar premises.
- viii) In case of extended warranty, we undertake to carry out annual calibration of the Equipment /Item.
- ix) We guarantee that we will supply spare parts if and when required on agreed basis for an agreed price. The agreed basis could be an agreed discount on the published catalogue price.
- x) We guarantee to the effect that before going out of production of spare parts, we will give adequate advance notice to you so that you may undertake to procure the balance of the life time requirements of spare parts.
- xi) We guarantee the entire unit against defects of manufacture, workmanship and poor quality of components.

**Signature & Seal of the Manufacturer/Tenderer**



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**Annexure-G**

**SELF DECLARATION**  
**[For Local Content of Products, Services or Works]**

To,

The Director

Dr.B.R.Ambedkar NIT Jalandhar

1. With reference to Order No. P- 45021/2/2017-PP(BE-II) dated 16-09-2020 of DPIIT, Ministry of Commerce and Industry, Govt. of India, we fall under the following category of supplier (please tick the correct category) for the items for which this tender has been floated and beingbided.

Class I local supplier – has local content equal to more than 50%. Local contents added at \_\_\_\_\_(name of location).

Class II local supplier – has local content more than 20% but less than 50%. Local contents added at \_\_\_\_\_(name of location).

Non-local supplier – has local content less than or equal to 20%. Local contents added at \_\_\_\_\_(name of location).

2. We are solely responsible for the abovementioned declaration in respect of category of supplier. False declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which we may can be debarred for up to 2 years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

Signature & seal of the company

Name and address of the organization

.....  
.....  
.....

Note: In cases of procurement for a value in excess of Rs. 10 crores, the 'Class-I local supplier' / 'Class-II local supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.