INDIAN INSTITUTE OF TECHNOLOGY
(INDIAN SCHOOL OF MINES), DHANBAD

Notice Inviting Tender (NIT) in Two-Bid System
For
Supply, Installation, Testing & Commissioning of IP Cameras, POE Switches, VMS (Video Management System), VMS Server, UTP Cables, Wall mount racks and patch panels etc. at different Hostels of IIT (ISM)

Tender No.:**Hostel/INS/329/18-19**
Date: 22.01.2019

Bid Submission deadline: 13.02.2019, 1:00 P.M.

REGISTRAR
Indian Institute of Technology (Indian School of Mines), Dhanbad
P.O. – Indian School of Mines (I.S.M.)
DHANBAD –826004 (INDIA)
www.iitism.ac.in
GSTIN : 20AAAAI0686D1ZA

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Tender No.:**Hostel/INS/329/18-19**
दिनांक/ Date: 22.01.2019

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CHAPTER 1
Instructions to Bidders

IIT (ISM), Dhanbad was formerly known as Indian School of Mines (ISM) and was a Deemed University before it got converted into an Institute of National Importance under the Institutes of Technology (Amendment)Act, 2016 passed by the Parliament of India and got the assent of President of India. The Indian School of Mines, now IIT (ISM), Dhanbad, was formally opened on 9th December 1926, by Lord Irwin, the then Viceroy of India to address the need for trained manpower related to mining activities in the country with disciplines of Mining and Applied Geology. In 1967, it was granted the status of a deemed to be university under Section 3 of UGC Act, 1956 and it was renamed as Indian Institute of Technology (Indian School of Mines) in 2016. It started as an institution to impart mining education, and today, has grown into a technical institution with various academic departments. IIT(ISM) is located in the mineral-rich region of India, in the city of Dhanbad in the state of Jharkhand. It is the third oldest institute [after IIT Roorkee and IIT (BHU) Varanasi] which got converted into an IIT.

IIT (ISM), Dhanbad intends to procure the equipment "**Supply, Installation, Testing & Commissioning of IP Cameras, POE Switches, VMS (Video Management System), VMS Server, UTP Cables, Wall mount racks and patch panels etc. at different Hostels of IIT (ISM)**" to enrich its teaching and research facility at Dhanbad.

Reputed manufactures or authorized distributors are invited to submit their bid for "**Supply, Installation, Testing & Commissioning of IP Cameras, POE Switches, VMS (Video Management System), VMS Server, UTP Cables, Wall mount racks and patch panels etc. at different Hostels of IIT (ISM)** " for IIT (ISM), Dhanbad as per this tender document in a Two-Bid System: - (a)Techno-Commercial (also termed as technical bid) bid (Part-1) consisting of all technical details of the item along with commercial terms and conditions, EMD and (b) Price bid (Part-2) indicating price for their items mentioned in the technical bid. All instructions and terms and conditions must be followed, failing which bid(s) will liable to be rejected.

INSTRUCTIONS

1. Offer should be submitted under TWO-BID system in two separate sealed covers i.e. "Techno-commercial bid" and "Price bid".

2. Tender Number and tender submission deadline must be clearly mentioned on the top of the envelope.

3. a) In a tender, either the Indian agent on behalf of the principle/ OEM and the Principle/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.

b) If an agent submit bid on behalf of the principle/ OEM, the same agent shall not submit a bid on behalf of another principle/ OEM in the same tender for the same item/product.

4. Bidder(s) must submit PAN given by Income Tax authorities, TIN and copy of PAN / TIN with the bid.

5. The offer must be submitted in **Two-Bid**. Tender should be dropped in the tender box kept in the office of **Deputy Registrar (Purchase & Stores), IIT (ISM), Dhanbad– 826004 (Jharkhand, India)** only. **Bids may be submitted by Speed Post / Courier in sealed cover only**, but IIT(ISM), Dhanbad will not accept such bid if delivered/submitted to the office of the Deputy Registrar (Purchase & Stores section), IIT (ISM), Dhanbad after the submission deadline and such bids will be treated as Late bids / non-responsive bids. It will be the sole responsibility of the bidders that their bid should be submitted/ delivered as per bid submission deadline. IIT (ISM), Dhanbad will not be responsible for any delay or transit loss or late delivery of bids to the office of the Deputy Registrar. No Tender is to be handed over to any staff of IIT (ISM), Dhanbad personally. All bids / correspondences should be sent to the following address only: "Dy. Registrar (P&S), IIT (ISM), Dhanbad, P.O. – Indian School of Mines (ISM), DHANBAD – 826004 (Jharkhand, India)". Bids sent through Email/Fax or submitted in unsealed cover(s) will not be accepted and such bids will be treated as non-responsive bids.

6. Bid(s) must be sent sufficiently in advance so that it reaches the institute on or before the submission deadline. Bid(s) received after the submission deadline will not be considered.

7. Bid document(s) and all enclosures must contain the signature and seal of the authorised representative of the bidder.

8. The bidder quoting for item(s) as per this tender should be the registered to provide the item/services with the appropriate government authority. Copy of registration certificate should be enclosed with the tenders (part-1). Offers submitted without proper registration certificate shall be rejected summarily.

9. The bidder quoting for item(s) as per this tender should be the registered to provide the item/services with the appropriate government authority. Copy of registration certificate should be enclosed with the tenders (part-1). Offers submitted without proper registration certificate shall be rejected summarily.

10. The Bank/RTGS detail on the letter-head of the bidder(s) must be submitted along with the tenders (part-1). A copy of the cancelled cheque should also be attached.

11. Name and PAN/Voter Card No. /Aadhar No. of the authorized signatoryof the bidder(s) must be mentioned in the Form 7.2.

12. A copy of PAN/Voter Card/Aadhar Card of the authorized signatory of the bidder(s) must be attached with the Form 7.2

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CHAPTER 2
Terms and Conditions

The offer must comprise of the following, failing which it will be treated as non-responsive bid hence will be rejected:

1. The bids under Two-Bid System will consist of two parts as per following details:**- a)** Techno-Commercial bid (Part 1) consisting of all technical details along with Commercial terms and conditions and EMD (Earnest Money Deposit) in the form of Demand Drafts issued from any Nationalized / Scheduled commercial bank in favour of "Registrar, IIT (ISM), Dhanbad" and payable at "Dhanbad (Jharkhand, India)", and **b)** Price bid (Part 2) indicating price for the items / services mentioned in technical bid (part-1). In stage-one, only the Techno-Commercial (Part 1) shall be opened and evaluated. In stage-two, the Price bids (Part 2) of only the technically qualified and acceptable offers will be opened, for further evaluation.

2. Sealing and Marking of Bids:
   a) The Techno-Commercial bid (Part 1) must be sealed in a separate envelope (ENVELOPE-ONE) with Tender Cost and EMD in separate demand draft duly super-scribed as Techno-Commercial Bid (Part 1), Tender No.Hostel/INS/329/18-19, submission deadline: 13.02.2019" as per following details :-

     EMD : Rs.54,000/- (Rupees Fifty Four Thousand only)

   b) The Price bid (Part 2) should be sealed in separate envelopes (ENVELOPE –TWO), duly super-scribed as "Price Bid (Part 2) Tender No. Hostel/INS/329/18-19, submission Deadline:13.02.2019".

   c) The above TWO separate sealed envelopes are to be put in a bigger envelope (ENVELOPE-THREE), which should also be sealed.

   d) Each of the above THREE envelopes MUST be super-scribed with **"Supply, Installation, Testing & Commissioning of IP Cameras, POE Switches, VMS (Video Management System), VMS Server, UTP Cables, Wall mount racks and patch panels etc. at different Hostels of IIT (ISM) against Tender No.: Hostel/INS/329/18-19, Dated: 22.01.2019, Submission Deadline: 13.02.2019".**

3. The bids must be neatly typed/computer printed. Hand written offer will be rejected. Bids must carry the numbers of GSTIN/ sales tax / VAT / TIN / PAN / Service Tax Registration No. Bids must be in sealed envelope.

4. All relevant technical specifications/details of offered items, drawings, printed technical leaflets, and commercial details which are necessary to ensure that offer is complete in all respects should be attached with the technical bid documents.

5. Compliance Statement: Vendor should provide the detailed compliance statement along with the quote.

6. IIT(ISM) does not bind itself to offer any explanation to those bidders whose Technical Bids have not been found acceptable by the Evaluation Committee of the Institute.

7. Following documents have to be furnished by the bidders with the technical bids (part-1):
    (a) Self attested copies of credentials in support of capability to undertake the supply/work.
    (b) Technical literature/catalogue with the detail specification of the material
    (c) Satisfactory performance certificate from their customers for same/similar supply/service must be enclosed along with the technical bid.
    (d) A copy of this tender document must be signed and sealed on all pages by the bidder(s) accepting the instructions and terms & conditions of the NIT and must be attached with the bid.

8. Price should be quoted on FOR, IIT(ISM) Dhanbad basis (in case of indigenous supply). In case of foreign supply, the price basis should be FOR IIT(ISM) Dhanbad basis only. The packing, forwarding, freight and transit insurance charges, if any, must be included in the price and should not be claimed separately. Duties & taxes, if applicable, are to be shown separately clarifying whether those are extra or included in the price. Educational discounts, if any, should be mentioned clearly. Justification of the price quoted must be provided with the Price Bid. For this, Price List of the OEM and purchase order of govt. organizations / IITs/ NITs/ CSIR Labs / ISRO labs etc. should be attached. Price bids of only technically qualified tenderers shall be opened in on a pre-notified date and time. Decision of IIT (ISM), Dhanbad in this regard will be final and binding by all the bidders.

9. IIT(ISM), Dhanbad is entitled for Excise Duty Exemption under Govt. of India notifications and is registered with DSIR, Govt. of India for this purpose. This may be taken into consideration while quoting minimum possible rate. Exemption Certificates can be issued in favour of manufacturers only, if it is mentioned in the bid. It will not be issued any Indian Agent/dealer or distributor at any circumstances. IIT(ISM) will provide only custom duty exemption certificate for availing concessional custom duty. IIT(ISM) will not pay any extra custom duty other than duty exemption certificate.

10. IIT (ISM), Dhanbad does not issue form 'C' or 'D' for concessional Sales tax/VAT. Hence, full rate of sales tax as applicable to educational institutions against the form of certificate should be indicated.

11. Bid Security or Earnest Money Deposit (EMD):- Required Amount for EMD must be submitted in the form of <u>Demand Draft issued from any Nationalized/Scheduled commercial Bank in favour of Registrar, IIT (ISM), Dhanbad payable at Dhanbad</u> with the bid (part-1). Bid received without EMD in part-1 (techno-commercial bid) will be rejected. No interest will be payable by IIT (ISM), Dhanbad on the Earnest Money Deposit. The earnest money of all the unsuccessful bidder(s) will be returned to the respective bidder(s) through bank / RTGS transfer without any interest within 60 (sixty) days only after placing the order / awarding the contract. The Earnest Money of successful bidder(s) shall be returned on receipt of Performance Security (Performance Bank Guarantee / PBG) as mentioned in this tender document. If the successful bidder(s) fails to furnish the performance security or fails to deliver/provide the item/installation/service as per the order's terms and conditions within stipulated period, the earnest money shall be liable to be forfeited by IIT (ISM), Dhanbad. An undertaking to this is to be submitted.

12. EMD must be submitted in Demand Drafts.

13. **Performance Security or Performance Bank Guarantee (PBG):-** The successful bidder(s), on whom order will be placed, has to submit a performance security of 10% of the total order value at the earliest as per PO terms before release of any payment. Performance security has to be submit ed in the form of Bank Guarantee/Demand Draft/FDR from any Nationalized/Scheduled commercial Bank in favour of the Registrar, IIT (ISM), Dhanbad. Performance security should remain valid for a period of two months beyond the date of completion of all contractual obligations of the successful bidder(s).No interest will be payable by IIT (ISM) Dhanbad on the Performance Security deposited. In case the contractor fails to provide satisfactory service, the Performance Security submitted by the bidder(s) is liable to be forfeited. An undertaking to this is to be submitted.

14. **Validity Period: -** The validity period of the tender should be clearly specified. It must be at least for **240(Two Hundred Forty) days** from opening of bids.

15. **Warranty**: All the active components must carry 2 years comprehensive warranty from date of successful installation of the Supply, Installation, Testing & Commissioning of IP Cameras, POE Switches, VMS (Video Management System), VMS Server, UTP Cables, Wall mount racks and patch panels etc. at different Hostels of IIT(ISM) along with its accessories.

16. Delivery Period and Liquidated Damage: As time of the essence for this procurement, hence the ordered materials/work complete in all respects are required to be delivered and installed within the period stipulated in the purchase order failing which liquidated damages of 1% per week for the delayed period subject to maximum of 5% of the total basic value of the order shall be deducted from the invoice of the supplier. Earliest/ expected delivery period should be clearly indicated. Packing should be suitable for 'Air freight'.

17. Inspection: Inspection shall be carried out at IIT (ISM), Dhanbad after arrival of the materials and decision of the Institute in this regard shall be final.

18. Rejection and Replacement: Rejection, if any, shall be notified to the supplier within 30 days of receipt and inspection of the material/workmanship. Rejected materials/work is to be removed by the supplier at his own risk and cost from IIT (ISM). Campus within 14 days of intimation of rejection. Defective Supplies are required to be replaced within 15 days of the removal of the rejected materials/work.

19. Risk Purchase: IIT (ISM) shall be at liberty to realize from the supplier the differential amount, if any, which it shall have to incur on purchase of the material/work at higher price(s) from elsewhere in the market, if the supplier, due to their fault, fails to supply the ordered quality and quantity of the material/work within the stipulated time.

20. Conditional offer will not be accepted.

21. Payment: In case of indigenous item i.e. inside India, payment may be released through RTGS / online payment mode against complete execution of the purchase order (PO) and submission of all the required documents as per the order within 30 days after satisfactory supply, inspection, installation/commissioning & acceptance and on submission of pre-receipted tax invoice, delivery challan, warranty certificate and installation report in triplicate and Performance Bank Guarantee. Payment term may be accepted against dispatch of required documents as per PO terms and PBG

and payment via wire transfer/RTGS will be released only after satisfactory installation report and other documents as per PO terms received from the user department from the firm.

22. Advance payment will not be released. Any bid having condition of advance payment will be treated as non-responsive bid.

23. Country of origin and port of shipment must be stated in the technical bid itself in case of foreign supply. Any change at later stage will not be accepted.

24. Name and address of Indian Agent, percentage of agency commission, if any and role of the Agent with respect to the subject supplies and a statement thereon that "Agency Commission is included in the bid.

25. Payment will be released through bank/ RTGS/Wire transfer. The payment will be released after statutory deductions and compensation of delay / liquidated damage (LD) / late delivery etc., if any.

26. Any payment will be released only after satisfactory completion of the work/installation and after submission the certified bill(s) / invoice(s).

27. All communications are to be addressed to the Registrar, IIT (ISM), Dhanbad quoting the Tender No. and Date.

28. IIT (ISM), Dhanbad reserves the right to accept or reject or cancel any or all tender notice or bid(s) or order(s) at any stage without assigning any reason thereof.

29. For any dispute, the place of jurisdiction shall be Dhanbad (Jharkhand, India) only.

30. It will be the sole responsibility of the bidder(s) that its bid should reach on or before the submission deadline to Registrar, IIT (ISM), Dhanbad.

31. **Governing Law:** The order, placed, will be the contract between the successful bidder(s) and IIT (ISM), Dhanbad and shall be governed by the LAWS of India and under the contract shall be taken by the parties only in Dhanbad (Jharkhand, India) to competent jurisdiction.

32. Bid(s) shall be submitted in official tender form / format only. If submitted in any other form / format, the same shall be rejected. No paper shall be detached from the tender. All pages must be numbered properly and there must be seal and sign of the bidder(s) on all the pages of its bid.

33. The name and address of the bidder(s) shall be clearly written in the space provided and no overwriting, correction, insertion shall be permitted in any part of the tender. The tender should be filled-in and submitted in strict accordance with the instructions laid down herein; otherwise the bid is liable to be rejected.

34. The bid is liable to be rejected if complete information is not given therein, or if the particulars and data (if any) asked for in the Schedule to the tender are not filled-in properly.

35. The successful bidder(s) will indemnify IIT (ISM), Dhanbad, in case of any damage or liability, which may arise on account of any act or omission directly/indirectly attributable to the bidder(s).

36. Dispute, if any arising out of providing the said service(s) shall be settled mutually or arbitration by sole Arbitrator to be appointed by the Registrar, IIT (ISM), Dhanbad at Dhanbad as per the provisions of the Indian arbitration and Conciliation Act, 1996 and the Rules framed there under. The award passed by the said sole Arbitrator, will be binding upon the parties. The arbitration proceedings shall be held at Dhanbad only.
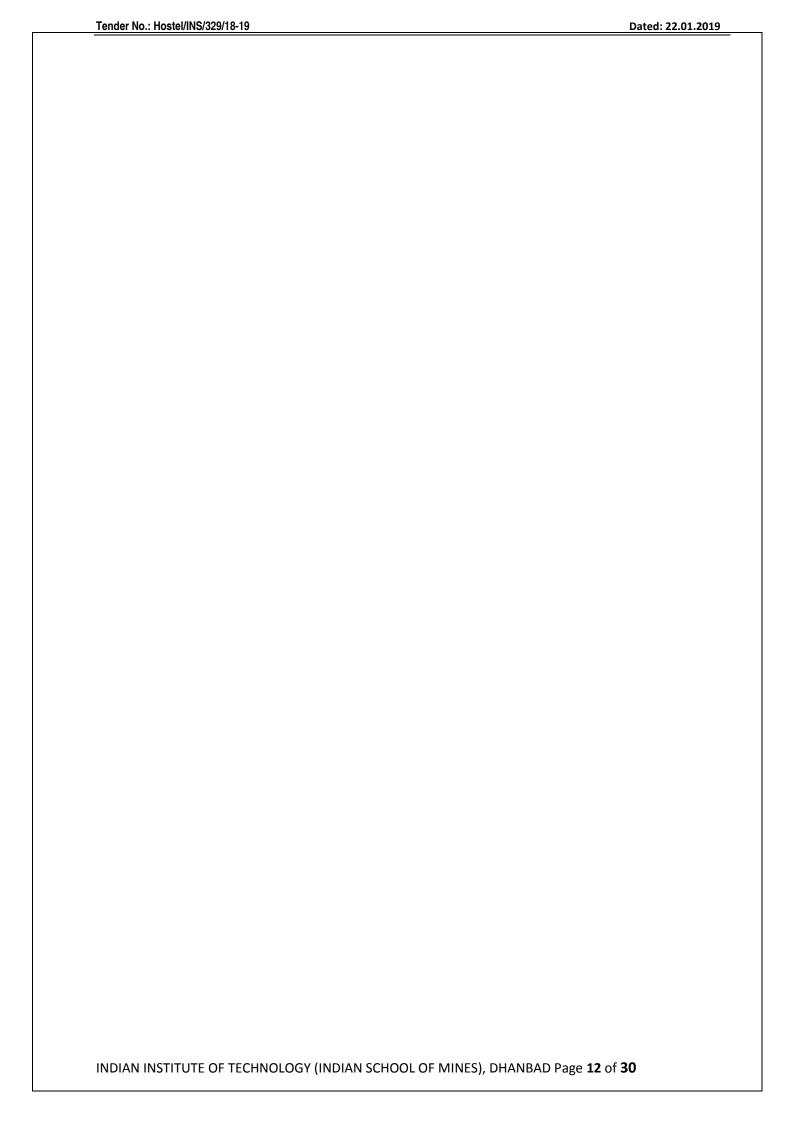
37. The successful bidder(s) shall ensure that its authorized representative should be present at the time of any discussion at IIT (ISM), Dhanbad regarding the bid, for which no any kind of TA/DA/boarding/lodging will be facilitated by IIT (ISM) Dhanbad.

38. The schedules of items/services are required as per Chapter-4 of this tender. Bidder(s) must clearly indicate in its tenders, the different taxes and duties which they propose to charge mentioning clearly the present rate(s) thereof with appropriate reference. Vague offer like "duties as applicable" shall not be considered.

39. Price should be quoted at Price Bid (Part-2) (Chapter – 5 of this tender) only for the item(s)/services as mentioned at Chapter – 4 of this tender. The required item(s)/services to be delivered / provided on or before the dead line as per purchase order.

40. The bidder(s) should be registered with VAT, CST, SST, Income Tax, service tax authorities, GST etc. and to enclose the copies of the relevant certificate along with the technical bids. The agency must be authorized by appropriate government authority to deliver the items/services at the IIT (ISM) Dhanbad.

41. The successful bidder(s) will ensure that its employees/staff/personnel would strictly follow all the security instructions and rules and regulations of IIT (ISM), Dhanbad during their visit in the campus.

42. If the successful bidder(s) commits breach of any of the above or Order's terms and conditions or is not able to deliver the item / provide the services / complete the work on time, the contract will be cancelled and security deposit shall be forfeited and a damage liability at the discretion of IIT (ISM), Dhanbad will be imposed on the bidder(s).

43. Bills / Invoices raised by the bidder(s) will be subject to applicable statutory deductions including T.D.S.

44. Necessary corrigendum(s), if required, will be issued at any stage, which must be acceptable to the bidder(s). Any corrigendum will be published on our website www.iitism.ac.in only. Bidder(s) must be in touch with our website www.iitism.ac.in for corrigendum(s). It will be sole responsibility of the bidder(s)s that they will go through the corrigendum(s) published, if any, on our website www.iitism.ac.in and submit its tender accordingly.

45. Shortlisted bidder(s) may be called for presentation / demonstration / meeting at IIT (ISM), Dhanbad office with a short notice. Request from the bidder(s) to change the date and time of presentation / demonstration / meeting will not be accepted. If the bidder(s) will not attend for the same, then their bid(s) will be treated as non-responsive and hence the bid(s) will not be considered for further process.

46. Price bids will be opened for those bidder(s) who are shortlisted and declared as technically qualified bidder(s) by the Committee of the IIT (ISM), Dhanbad. In this regard, decision of IIT (ISM), Dhanbad will be final and binding to all the bidder(s).

47. Please note that no part shipment/transshipment/third party shipment is acceptable to us.

48. Submission deadline / last date& time for submission of the bids and date & time for opening of the same are given in this bid. The bids will be opened as per IIT(ISM) rules. Authorized representative of bidders having authorization letter, a govt. issued ID card and an employment ID card issued by the bidder may present during bid opening at their own discretion. In case of submission deadline / last date or bid opening date is a holiday/declared as a holiday, then next working date will be the submission deadline / last date for submission/ opening of tender. Submission deadline or bid opening date& time will not be changed upon any request from the bidder side. However, it may be changed as per IIT(ISM) rules. In this regard, decision of the IIT (ISM), Dhanbad will be final and binding to all the bidders.

49. For the items / services, the bidders must ensure the required quality, quantity, materials, dimensions & other parameters and quote accordingly. In case items / services provided are not same as quoted/ordered, the claim for payment shall not be accepted. No payment, claims for such items / services shall be released. In this regard, decision of IIT (ISM), Dhanbad will final and binding to the bidders.

50. IIT (ISM), Dhanbad at its discretion may change the quantity/quality/parameters/upgrade the criteria/drop any item(s) or part thereof at any stage. In case of any dispute, the decision of IIT(ISM) shall be final and binding on the bidders/tenderers.

51. IIT (ISM), Dhanbad reserves the right to accept or reject any or all the bids in part or in full without assigning any reason and does not bind itself to accept the lowest bid. The decision of the competent authority of IIT (ISM), Dhanbad will be final and binding to the bidder(s).

52. All the bidders, those are interested to participate in this bid, must have to submit the technical specification of their bid in MS-Word Format in a CD with the technical bid. The CD must be marked with the NIT No. and submission deadline.

53. Professional(s) to be deployed by the successful bidder(s) for the supply of the item / installation / execution of the work in order to provide the item(s) /service(s) as per order must be well qualified.

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CHAPTER 3
Schedule of Requirements

Description	Details
NIT No.	**Hostel/INS/329/18-19**
Date of Tender	**22.01.2019**
Bid submission deadline	**13.02.2019, 1:00 P.M.**
Date of opening of the bids (technical part-1)	**13.02.2019, 4:00P.M.**

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CHAPTER 4

IIT(ISM) intend to install IP cameras at all the entry/exit points of hostels as well as in the mess of hostels on turnkey basis. The successful bidder has to supply, install, test & commission IP cameras, PoE switches, VMS (Video Management Software), VMS server, UTP cables, wall mount racks, patch panels etc. as per indented specifications. Bidder may quote any additional item (mandatory/optional) for the success of the project, but lowest bidder will be decided based on the items mentioned in the indent.

General Terms and Conditions

1) Unit Price must be mentioned in INR inclusive of all taxes.

2) MAF (Original Manufacturer Authorization Form) of camera and recording software should be submitted along with the technical bid.

3) The OEM should take the responsibility of the warranty and the compliance on the letter head. Bidder must provide such documents along with proposal.

4) Bidder must register all the equipment with serial numbers with OEM. IIT(ISM) must be able to raise support ticket as well download latest firmware, software etc.

5) Product Quoted (IP camera and software) should be of same make.

6) The requirement/installation of IP cameras may increase or decrease as per the needs of the institute and the bidder should have the capacity to provide more IP cameras as and when required by IIT(ISM) for installation.

7) Technically qualified bidders may need to demonstrate their quoted products at IIT(ISM).

8) Laying of cables indicated is tentative and payment will be made on actual work done.

9) Necessary accessories, like PVC conduit, GI Pipe, Clamps etc. should be the responsibility of the bidder during execution work.

10) Digging & filling of soils, cutting & filling of roads/ concrete area, fixing of GI poles / clamps will be in the bidder's scope.

11) All the cables should be well dressed and laid properly as per ISM's instruction.

12) Necessary OS for VSM server will be in the bidder's scope.

13) Entire work will be as per Turnkey Basis.

Warranty and Annual Maintenance:

1) The entire IP Surveillance System supplied and installed should be under **onsite warranty of two years** against all types of defects and deficiencies from the date of handing over of the system to IIT(ISM). Any defects found in the product/sub-product within the warranty period of 2 years shall be rectified/ replaced by the vendor free of cost. During this period of warranty, servicing at quarterly interval or earlier without any additional cost besides attending to call back services in case of break down shall be carried out free-of-cost. This includes replacement of parts and spare parts and any number of break down call.

2) After lapse of warranty offered by Manufacturer, IP camera with all its accessories will be on **two year maintenance**, and the bidders should quote the rate in price bid. Bidder must have back-to-back support from OEM. Maintenance charges will be paid to the successful bidder on quarterly basis after deduction of applicable taxes. Lowest bidder will be one who has lowest bid for 2+2 years.

3) AMC shall be on-site comprehensive maintenance, which includes preventive as well as corrective maintenance. The firm awarded with the maintenance contract shall carry out preventive maintenance of equipment on quarterly basis/ as per requirement and shall maintain the proper record thereof.

4) The comprehensive maintenance shall be carried our primarily at the premises of IIT(ISM) on all working days during office hours or even beyond office hours or on holidays depending upon exigency of work as and when so required. In case, the service provider feels that the equipment cannot be repaired at site, they will carry and deliver the equipment at their own cost and get it repaired within five working days, failing which replacement shall be provided. The firm shall maintain proper service call sheets which will be duly signed by the Engineer and the concerned official of the department.

5) The agency shall ensure that the equipment is retained in its original or higher configuration and form. In the event of any downward alteration to the equipment by the agency or any attachment made

thereto, the agency shall pay for any repair/replacement and adjustments required to restore the equipment to its original state. The faulty equipment parts replaced must be new and equivalent in performance of existing parts.

6) It shall be ensured that all the equipment are operational under controlled power supply and all defective equipment if any shall be rectified/replaced without any additional cost to the IIT(ISM). The vendor will not raise any condition with regard to the working environments including voltage, earthing etc for equipment covered under AMC.

7) AMC shall cover each and every part of IP camera and accessories including plastic body and parts, replacement of any part necessary for keeping the IP Surveillance system active and free from any defects/disturbance, any unscheduled call for corrective and/or preventive maintenance services, taking appropriate measures/steps in time to set right the malfunctioning of the CCTV of the system. Maintenance of the CCTV surveillance system includes Camera Visibility Test, Recording, Recording Test, Settings Verification, and Disk Error Check. Replacement of CCTV Parts, SMPS for CCTV and UPS.

8) The faulty equipment parts replaced must be new and equivalent in performance of existing parts. Replacement of cable/other equipment will not be covered in the event of fire/Natural calamity, vandalizing of equipment and its accessories.

OEM should satisfy the Eligibility Criteria mentioned below.

1) Camera and software shall be from the same make.
2) All Camera must be in compliance with CE, FCC, UL certifications.
3) Installation should be done by experienced experts who are in the payroll of OEM.
4) On-site training for two days should be provided by expert trainers who are in the payroll of OEM.
5) In case the OEM is not participating directly, bidder should be an authorized reseller or channel partner of the OEM. An authorization letter from the OEM need to be submitted in original.
6) The Camera OEM should have direct existence in India for more than 5 years (under Companies Act, 1956/2013) and should be listed company in any stock exchange (in any country worldwide) with positive networth for last three years in worldwide operation. (suitable evidence documents to be submitted with the bid).
7) The OEM for CCTV camera should have at least 250 employees on its payroll in India. This is to justify that CCTV OEM has made investment in India and is serious about its business in India which will ensure long term after sales support and spare support from the OEM. Bidder to produce documentary proof to establish the eligibility.
8) OEM should have online dedicated CCTV support center available during working hours and a fully equipped repair and maintenance office in India, OEM document details to be submitted for the same.
9) OEM should have an ISO 9001:2008, ISO 27001:2013 and ISO 14001:2004 for manufacturing process. Documents needed to be attached along with the bid.
10) OEM should have supplied at least 2000 cameras in Projects in India.
11) Products quoted should be of international repute & enlisted in the IHS report. Any of the Top 10 OEMs from the latest **IHS report (worldwide)** for Network Security Cameras may be submitted.

Sr. NO.	ITEM DESCRIPTION	UNIT	QTY	RATE	Tax	AMOUNT
	Supply of the below mentioned Items:					
1.	2MP IR Indoor Varifocal Dome Camera - 1/2.8"Progressive Scan CMOS, 1920 × 1080 at 25fps, 8mm Fixed lens, 0.01 Lux at F1.2, ICR, ONVIF, support H.265, H.264, MJPEG, 120db WDR, 3D Digital Noise Reduction, Three individually configurable stream, 12 VDC & PoE, IR range: 30m, Support on-board storage up to 128 GB (SD card not included), IP67, IK10, Edge Analytics- Line crossing detection, intrusion detection, Motion detection, face detection, video tampering, UL, CE, FCC certified, Two years support.	Nos.	90			
2.	4MP IR Outdoor Varifocal Bullet Camera-1/3" Progressive Scan CMOS, 2560× 1440 at 25fps, 2.8 mm to 12 mm motorized lens, 0.01 Lux at F1.2, IR Cut Filter, ONVIF, support H.265, H.264, MJPEG, 120db WDR, 3D Digital Noise Reduction, Three individually configurable stream, 12 VDC & PoE, IR range: 50m, Support on-board storage up to 128 GB (SD card not included), IP67, IK10, Edge Analytics- Line crossing detection, intrusion detection, Motion detection, face detection, video tampering, UL, CE, FCC certified, Two years support.	Nos.	38			
3.	Storage Device:- Dual Controller 64-bit multi-core processor, 448-ch recording + playback, HDD slot-24 Nos, Support MiniSAS, Support Hot-swapping, Support RAID 0, RAID 5, RAID 10, 2 x10 GbE Ethernet data interface, 4 USB Supported, 1 VGA, Redundant Power Supply, Two years support.	No	1			
4.	Enterprise HDDs, Capacity 6TB, Minimum 7200 rpm, Two years support.	Nos.	20			
5.	Video management software for total 128 camera, Two years support.	Lot	1			
6.	Server for Video Management Software: Recommended specifications provided, Two years support.	No.	1			
7.	8 Port Gigabit PoE+ Switch, Two years support.	No.	32			
8.	Surveillance class Common Micro SD Card 128GB, Two years support.	Nos.	20			
9.	32" LCD/LED 24X7 Surveillance Monitor, Two years support.	Nos.	2			
10.	Cat-6 UTP Cable (17 Boxes of 305 Mtrs.)	Meter	5200			
11.	Cat-6 STP Cable (4 boxes of 305 Mtrs.)	Meter	1200			

12.	CAT6 UTP Patch Cord, 1 meter	Nos.	130			
13.	6 U Rack with power strip and cable manager	Nos.	6			
14.	CAT6 UTP 24 Port UnLoaded Patch Panel	Nos.	6			
15.	KeyStone Jack CAT6 compatible with Patch Panel	Nos.	130			
16.	RJ-45 Connector	Nos.	130			
17.	1" PVC pipe (ISI mark)	Meter	3000			
18.	1" hard PVC pipe (ISI mark) for outdoor	Meter	800			
19.	4 meter pole made of 2" GI pipe (painted with galvanized paint) with paddle for climbing	Nos.	4			
20.	UTP laying inside the building with PVC conduit and accessories	Meter	3000			
21.	UTP laying outside the building with HDPE/hard PVC	Meter	800			
22.	Rack fixing	Nos.	6			
23.	Pole Fixing with cement and concrete	Nos.	4			
Note: All above items (1-24) must carry two years comprehensive support.						
24.	Price for maintaining the setup for 3rd year					
25.	Price for maintaining the setup for 4th year					
	Total					

1. 2MP IR Indoor Varifocal Dome Camera – 90 Nos.
   Make: Model:

S. No.	Features	Description
1.	Camera Type	**Indoor Varifocal Dome camera**
2.	Standard	ONVIF Profile S & G Compliant
3.	Certification	UL, CE ,FCC
4.	Edge Storage	MicroSD/microSDHC/microSDXC slot supporting memory card for min. 128 GB. In the event of failure of connectivity to the network storage the camera shall record video locally on the SD card automatically. After the connectivity is restored these recordings shall be automatically pulled by the network storage recorder such that no manual intervention is required to transfer the SD card based recordings to network storage.
5.	Image Sensor	1/2.8" Progressive Scan CMOS or better
6.	Resolution	2 MP (1920 x 1080) at 25 FPS or better

7.	Compression	H.265
8.	Streaming	Min. Three compressed stream (Individually Configurable)
9.	Security	User Authentication, IP Address filtering, Watermarking
10.	Physical Layer	10/100 base Tx Ethernet
11.	Protocol	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP,IGMP, 802.1X, QoS, IPv6, Bonjour
12.	Remote Administration	Remote configuration and status using web based tool
13.	System Update	Remote system update over Network using web client
14.	Lens Type	8mm or better
15.	Dynamic Noise Reduction	3D
16.	Illumination	Color: 0.01 Lux, F1.2 or better, 0 Lux with IR.
17.	IR Distance	Upto 30m
18.	Signal Process	Digital Signal Process
19.	Privacy zones	4 or higher
20.	Auto Gain Control	Yes
21.	Back Light Compensation	Yes
22.	Electronic Shutter	1/3 s to 1/100,000 s
23.	Wide Dynamic Range	120dB
24.	S/N Ratio	≥50dB
25.	Day and Night	Support ICR
26.	Edge based	Line crossing detection, intrusion detection, Motion detection, video tampering, face detection
27.	Protection Level	IP67, IK10
28.	Operating Temperature	-30°C ~ 60°C Humidity 95% or less (non-condensing)
29.	Power Source	Power over Ethernet
30.	OEM Letter	The OEM should take the responsibility of the warranty and the compliance. Declaration from OEM should be provided in the offer.

2. 4MP IR Outdoor Varifocal Bullet Camera – 38 Nos.
    Make: Model:

S. No.	Features	Description
1.	Camera Type	Varifocal outdoor Bullet camera
2.	Standard	ONVIF Profile S & G Compliant
3.	Certification	UL, CE ,FCC
4.	Edge Storage	MicroSD/microSDHC/microSDXC slot supporting memory card for min. 128 GB In the event of failure of connectivity to the network storage the camera shall record video locally on the SD card automatically. After the connectivity is restored these recordings shall be automatically pulled by the network storage recorder such that no manual intervention is required to transfer the SD card based recordings to network storage.
5.	Image Sensor	1/3" Progressive Scan CMOS or better
6.	Resolution	4 MP (2560× 1440) at 25 FPS or better
7.	Compression	H.265
8.	Streaming	Min. Three compressed stream (Individually Configurable)
9.	Audio	1 input 1 output
10.	Alarm	1 input 1 output
11.	Pre/Post Alarm buffer	Yes
12.	Security	User Authentication, IP Address filtering, Watermarking
13.	Physical Layer	10/100 base Tx Ethernet
14.	Protocol	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP,IGMP, 802.1X, QoS, IPv6, Bonjour
15.	Remote Administration	Remote configuration and status using web based tool

16.	System Update	Remote system update over Network using web client
17.	Lens Type	2.8mm to 12mm or better ,motorized Lens
18.	Dynamic Noise Reduction	3D
19.	Illumination	Color: 0.01 Lux, F1.2 or better, 0 Lux with IR.
20.	IR Distance	Upto 50m
21.	Signal Process	Digital Signal Process
22.	Privacy zones	4 or higher
23.	Auto Gain Control	Yes
24.	Back Light Compensation	Yes
25.	Electronic Shutter	1/3 s to 1/100,000 s
26.	Wide Dynamic Range	120dB
27.	S/N Ratio	≥50dB
28.	Day and Night	Support ICR
29.	Edge based	Line crossing detection, intrusion detection, Motion detection, video tampering, face detection
30.	Protection Level	IP67, IK10
31.	Operating Temperature	-30°C ~ 60°C Humidity 95% or less (non-condensing)
32.	Power Source	Power over Ethernet
33.	OEM Letter	The OEM should take the responsibility of the warranty and the compliance. Declaration from OEM should be provided in the offer.

3. Centralized Video Surveillance Management Software to support 128 camera – 1 No.
   Make: Model:

S. No.	Item Description		
1.	**Central Video Surveillance Management Service**		
	1	Authenticates the Control Client access; manages the users, roles, permissions and monitors devices	
	2	Provides the interface for third-party system integration	
	3	3rd Party Device Access Gateway : Communication between VSM and third-party device	
2.	**VMS should be ONVIF complaint and encrypt when streaming/viewing/exporting**		
3.	**Administration functions and operation functions are performed separately in the following clients:**		
	1	Web Client: All administration of VSM shall be performed using a web browser client via LAN, WAN or Internet. No client software is required for administration of the system.	
	2	Control Client: All security operator features shall be accessed through the Control Client connected to VSM via LAN, WAN, or Internet	
4.	**It Shall support H.264, H.264+, H.265, and H.265+ encoding formats.**		
5.	**It Shall remotely connect to the VSM server via TCP/IP and perform the following functions:**		
	1	Add encoding devices to the VSM using the following discovery options:	
		a. IP/Domain	
		b. IP Segment	
		c. Port Segment	
		d. Batch Import	
	2	When adding Network Cameras, devices shall have the option to automatically create logical areas by device name or add to an existing area.	
		a. Automatically add device's recording schedule for future remote management. It shall be able to set and modify NVR recording schedules.	
		b. When adding an NVR, user can check the online and offline status of NVR channels.	
	3	Once added, shows the online/offline status of devices in both physical view and logical view.	
6.	**Recording: Shall have the ability to configure camera recording schedule and Picture Storage.**		
	1	Recording Configuration	
	A	Batch add new recording schedules	
	B	Delete/modify existing recording schedules	
7.	**Event & Alarm: Shall have the ability to configure the following:**		
		To avoid flooding operators with alarms, shall have the option of adding just an event from a device, that will be searchable via the Control Client, but not broadcast as an alarm:	
		a) Shall batch add the following Video Content Analysis (VCA) events from cameras:	

		1	Motion detection
		2	Line crossing detection
		3	Intrusion detection
	b) Shall batch add alarm input events		
	c) Shall batch add Health Monitoring events from Device.		
	d) Shall batch add Health Monitoring events from servers.		
	e) Shall support email linkage		
	f) After configuring a recording schedule, video files of events can be searched and played		
	Alarm Priority shall be configured to one of three levels by default:		
	High Medium Low		
	Shall have the ability to set alarm recipients from users accounts set up.		
	Shall have the ability to associate up to 16 cameras recording with alarm events		
	Shall have the ability to associate a map with an alarm		
	Shall have the ability to trigger a pop-up window with an alarm event		
	Alarm source, trigger events, and alarm priority can also be displayed		
8.	**Map: Shall have the ability to create graphical maps and add cameras, alarm inputs and alarm outputs**		
	1.	Create map by importing images in JPEG, BMP, or PNG format	
	2.	Shall have the ability to add icons representing -	
	a. Camera b. Alarm Input c. Alarm Output		
	3.	Shall have the ability to import image files to create custom map icons	
9.	**Roles and Users :**		
	1.	Shall have the ability to create user profile groups defined as Roles	
	2.	Role shall be able to restrict user profile access for administration functions	
	Resource: Each "Role" can sub-divide the system and shall allow or deny access to the following features on a per-camera basis :		
	Live view		
	Playback		
	Video Search		
	Download		
	Two-Way Audio		
	PTZ Control		
	Search log by user accounts		
10.	**Security for Users :**		
	Lock IP Address		
	Failed password attempts		
	Configurable: 1 to 5 attempts		
	Lock for: 10, 20, 30, 40, 50, or 60 minutes		
	Shall enable Maximum Password Age		
	Auto Lock Control Client		
11.	**System and Maintenance :**		
	1.	Shall create a name for the current site	
	2.	Shall set a static IP address for the WAN access	
	3.	The NTP settings shall be able to be set for syncing the time	
	4.	Shall set database backup and restore.	
12.	**Control Client :**		
	The Control Client should be Windows-based software for security operators to access NVRs, and network cameras using authorized client login credentials. It shall provide multiple operating functionalities, including real-time live view, PTZ control, video playback and download/exporting, alarm management, VCA search, log query, and health monitoring module.		
	Shall have the ability to support login to the Control Client through HTTP or HTTPS		
	Shall have the ability to turn off and on VCA video overlay for both live and recorded video		
13.	**Shall have the ability to view 3 auxiliary screens on 1 Control Client and shall have the following modules and functions:**		
	1) Live View :		
		a. Ability to view up to 256 channels	
		b. Ability to auto switch to sub stream of Network Camera, if more than 4 camera tiles are called up	

5.		c. The following functions are available on the tile toolbar for easy access to operator:
		i. Capture: ability to save snapshots
		ii. Enable manual recording of displayed Network Camera
		iii. Enable and utilize two-way audio
		iv. Digital zoom
		v. 3D positioning for PTZ camera
	2) Playback :	
		Ability to play back 1 to 16 cameras simultaneously
		Clipping: ability to quickly export video clips
		Digital zoom
		Video export
		VCA search
		Supports clicking and playing directly after downloading with player
		Supports customizing download time
	3) VCA Search	
	Support Motion Detection	
	Support Line Crossing Detection	
	Support Intrusion Detection	
	4) Health Monitoring :	
	Ability to monitor all encoding devices, decoding devices, recording servers and Streaming Servers associated and the overall status of VMS itself.	
	5) Log: search and view logs for the following :	
	a. Server Logs - Operation Log, System Log	
	b. Device log	
	c. Log searches are based on operation, user, and time interval searches of:	
14.	The OEM should take the responsibility of the warranty and the compliance. Declaration from OEM should be provided in the offer.	

4. 32" LCD/LED 24X7 Surveillance Monitor – 2Nos.
Make: Model:

S. No.	Features	Description
1.	Product Type	Workstation LED monitor
2.	Certification	UL, CE, FCC
3.	Backlight	LED Backlight
4.	Diagonal size	32''
5.	Resolution	1920 * 1080
6.	Visual angle	Horizontal - 178° ; Vertical - 178°
7.	Response time	8ms
8.	Contrast	4000::01 or better
9.	Brightness	400cd/m2 or better
10.	Input interface	VGA x 1, BNC x 1, HDMI x 1, USB x 1
11.	Operating Temperature	0°C ~ 40 °C
12.	Working life	≥60,000 Hours
13.	Remote control	IR remote control shall be supported. Shall be supplied as accessory along with display
14.	Power requirement	Suitable adaptor shall be supplied to make the equipment work on 230V ±10% or shall directly work with 230VAC power supply
15.	OEM	LG/Samsung/Sony/HP/Hikvision

5. **Storage 120TB - 1 No.**
Make: Model:

S. No.	Features	Description
1.	Product Type	Storage device

2.	No single point failure	Highly reliable, redundancy at each level i.e. FAN, power module rendering no single point failure
3.	Certification	UL, CE, FCC
4.	Mounting	19" Rack Mounted
5.	No. of Controllers	02 nos. Controller (64 bit multicore processor)
6.	Host interface Type	FC or iSCSI
7.	Data network interface	2 x 10Gb Ethernet interface
8.	Management network interface	1, 1000M Ethernet interface
9.	Drive Type	Upto 6TB
10.	Cache	4 to 32 GB
11.	Storage scalability	144 TB Raw
12.	Power Supply	Redundant
13.	RAID configuration	RAID 5/ 6
14.	Hot Spare Disk	It shall provide at least one hot spare disk per 24 HDDs
15.	Power requirement	Suitable adaptor shall be supplied to make the equipment work on 230V +10% or shall directly work with 230VAC power supply
16.	Extended Storage	Should to support extended storage Min 144TB
17.	Eligibility	Storage device OEM shall be from IDC report's leaders or challenger's quadrant

5. Server for VMS – 1 No.
   Make: Model:

Technical Specification for Server for Video Management Software		
Sl. No.	Item	Description (Qualifying Minimum Requirements)
1	Chassis	2 U Rack Mountable
2	CPU	Two nos. of latest generation Intel 14-core E5-2690v4 processors
3	L3 Cache	As per offered processor model
4	Motherboard	Intel® C610 Series Chipset
5	Memory	24DIMM slots scalability. 32GB DIMMs scalable upto 3TB using DDR4 RDIMM/LRDIMM memory modules at 2400MHz. Should be capable of identifying and reporting whether genuine OEM memory is installed for system reliability.
6	Memory Protection	Advanced ECC with multi-bit error protection and memory online spare mode
7	HDD Bays	Support up to 26 SFF drives (HDD/SSD). 8 SFF bays from day 1. The drive carrier should have intuitive icon based display along with "DO NOT REMOVE" caution indicator that gets activated automatically in order to avoid dataloss/downtime due to wrong drive removal.
8	HDD	Hot Plug SFF or LFF SATA/SAS/SATA SSD/SAS SSD and NVMe drives support. 3 nos 1.8TB SAS 10K SFF drives in RAID-5 configuration from day1
9	Controller	PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/1 Advanced Data Mirroring/10 Advanced Data Mirroring with 2GB battery backed write cache (onboard or in a PCI Express slot)

10	Networking features	Server should have networking interfaces with below features: 1. 1Gb 4-port network adaptor supporting advanced features such as Large Send offload capability, TCP checksum and segmentation, VLAN tagging, MSI-X, Jumbo frames, IEEE 1588, and virtualization features such as VMware NetQueue and Microsoft VMQ. 2. 10Gb 2-port Ethernet adaptor supporting enterprise class features such as VLAN tagging, adaptive interrupt coalescing, MSI-X, NIC teaming (bonding), Receive Side Scaling (RSS), jumbo frames, PXE boot and virtualization features such as VMware NetQueue and Microsoft VMQ.
11	Interfaces	Serial - 1, Micro SD slot - 1, USB 3.0 support With Up to 5 total
12	Bus Slots	Six PCI-Express 3.0 slots, atleast two x16 PCIe slots
13	Power Supply	Should support platinum efficiency hot plug redundant power supplies
14	Fans	Redundant hot-plug system fans
15	Industry Standard Compliance	ACPI 2.0b Compliant PCIe 3.0 Compliant PXE Support WOL Support Microsoft® Logo certifications USB 3.0 Support USB 2.0 Support Energy Star ASHRAE A3/A4 UEFI (Unified Extensible Firmware Interface Forum)
16	Security	Power-on password Serial interface control Administrator's password UEFI Should support upto 12 customizable user accounts on out of band management port and SSL encryption Should also supports directory services integration TPM 1.2
17	Operating Systems and Virtualization Software Support	Microsoft Windows Server Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES) VMware
18	GPU support	System should support NVIDIA's latest computational accelerators and graphics accelerators
19	Secure encryption	System should support Encryption of the data on both the internal storage and cache module of the array controllers using encryption keys. Should support local key management for single server and remote key management for central management for enterprise-wide data encryption deployment.
20	Provisioning	Essential tools, drivers, agents to setup, deploy and maintain the server should be embedded inside the server. There should be a built -in Update manager that can update firmware of system by connecting online.

21	Embedded Remote Management	1. System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder; It should support server power capping and historical reporting and should have support for multifactor authentication. 2. Server should have dedicated 1Gbps remote management port. Remote management port should have 4GB NAND flash with 1GB available for user access. NAND flash should be used for keeping system logs and downloading firmware from OEM website or internal repository 3. Server should support agentless management using the out-of-band remote management port. 4. The server should support monitoring and recording changes in the server hardware and system configuration. It assists in diagnosing problems and delivering rapid resolution when system failures occur. 5. Applications to access the server remotely using popular handheld devices based on Android or Apple IOS should be available. 6. Remote console sharing upto 6 users simultaneously during pre-OS and OS runtime operation, Console replay - Console Replay captures and stores for replay the console video during a server's last major fault or boot sequence. Microsoft Terminal Services Integration, 128 bit SSL encryption and Secure Shell Version 2 support. Should provide support for AES and 3DES on browser. Should provide remote firmware update functionality. Should provide support for Java free graphical remote console. 7. Should support managing multiple servers as one via Group Power Control Group Power Capping Group Firmware Update Group Configuration Group Virtual Media Group License Activation 8. Should support RESTful API integration 9. System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support
22	Server Management	The Systems Management software should provide Role-based security
		Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD. Should support automatic event handling that allows configuring policies to notify failures via e-mail, pager, or SMS gateway or automatic execution of scripts.
23		Should support providing dashboard view of the managed systems
24		Should provide an online portal that can be accessible from anywhere. The portal should provide one stop, online access to the product, support information and provide information to track warranties, support contracts and status. The Portal should also provide a Personalized dashboard to monitor device heath, hardware events, and contract and warranty status. Should provide a visual status of individual devices and device groups. The Portal should be accessible on premise (at customer location - console based) or off premise (using internet).
25		Should be able to perform comprehensive system data collection and enable users to quickly produce detailed inventory reports for managed devices.
26		Should help to proactively identify out-of-date BIOS, drivers, and Server Management agents and enable the remote update of system software/firmware components.

27		The Server Management Software should be of the same brand as of the server supplier.
28		Infra Platform/Infra Software should be able to run as VM appliance on VMware or Microsoft Hyper-V
29		Solution available to Deploy a fast and easy installation via software appliance delivery mode. With its own OS and Database to provide infra and lifecycle management
30		Management software should support integration with popular virtualization platform management software like vCenter and SCVMM
31		Should support REST API for integration with other REST API supported monitoring tools
32	OS/other software	Bidder must provide licensed Windows Server latest version and any other software required.

7. 8 Port Managed Switch PoE+ with 2 SFP Port – 32 Nos.
Make: Model:

GENERAL	
Subtype	Gigabit Ethernet
Ports	4 x 10/100/1000 (PoE+) + 2 x Gigabit SFP + 4 x 10/100/1000
Power Over Ethernet (PoE)	PoE+
PoE Budget	65 Watt
Performance	
Switching capacity	20 Gbps or better
Packet forwarding rate	14 Mpps or better
Latency	4 µs
Jumbo Frame Support	YES
Authentication Method	RADIUS
RAM	256 MB DDR3 SDRAM
Power Over Ethernet (PoE)	PoE+
NETWORKING	
MAC Address Table Size	8K Entries
Form Factor	Rack Mountable
Features	
512KB packet buffer, 802.1x authentication, Back Pressure Support, DHCP client, FortiLink Mode, Guest VLAN, IPv6 management, Jumbo Frames support, Link Aggregation, Link Aggregation Control Protocol (LACP), MAC Access Bypass (MAB), Management Information Base (MIB), Multiple Spanning Tree Protocol (MSTP) support, Rapid Spanning Tree Protocol (RSTP) support, SNTP support, STP BPDU Guard, STP Root Guard, Spanning Tree Protocol (STP) support, Storm Control, Telnet server, VLAN Tagging, auto-negotiation, fanless, flow control, port mirroring	
Compliant Standards	
IEEE 802.1AX, IEEE 802.1D, IEEE 802.1Q, IEEE 802.1ab (LLDP), IEEE 802.1s, IEEE 802.1w, IEEE 802.1x, IEEE 802.3, IEEE 802.3ab, IEEE 802.3ae, IEEE 802.3af, IEEE 802.3at, IEEE 802.3u, IEEE 802.3x, IEEE 802.3z	
Manageable	YES
Remote Management Protocol	CLI, HTTP, HTTPS, SNMP 1, SNMP 2c, SNMP 3, SSH, TFTP, Telnet
POWER DEVICE	
Nominal Voltage	AC 120/230 V
Frequency Required	50 - 60 Hz
Power Consumption Operational	5.19 Watt
Type	internal power supply

CHAPTER 5
PRICE SCHEDULE

Price Bid (Part 2)

PRICE SCHEDULE FOR GOODS BEING OFFERED WITHIN INDIA

Name of the Bidder_____

NIT Reference No. _____

File Reference No. _____

Sl. No.	Full Description of items with (HSN Code/SAC Code)	Quantity	Unit Price (in INR)	Total Amount (in INR)
1.				
2.				
3.				
Ex-Works Price-				
Packing & Forwarding				
Transportation				
FOR (IIT ISM) Dhanbad				
GST/IGST (their rate(s) as the case may be, clearly specified) Please note that IIT ISM is eligible for Concessional GST as per Notification No. 45/2017-Central Tax (Rate) for CGST, 45/2017-State Tax (Rate) for SGST and 47/2017-Central Tax (Rate) for IGST,				
Insurance up to Destination/handover (in case of fabrication)				
Installation & Commissioning charge				
Training charges, if any				
Additional Warranty Charges, if any				
Annual Maintenance Charge, if any				

*(On the basis of the technical specifications submitted)

Total Bid Price_____   in words_____

Note :

(a) The Price schedule of optional items shall be indicated in a separate sheet in the same Performa.

(b) Cost spare parts may be indicated separately

Signature of Bidder

Name _____

Business

Address_____

UNDERTAKING BY THE BIDDER(S)

I have carefully gone through the various terms and conditions mentioned in the tender document of **Supply, Installation, Testing & Commissioning of IP Cameras, POE Switches, VMS (Video Management System), VMS Server, UTP Cables, Wall mount racks and patch panels etc. at different Hostels of IIT (ISM).** I agree to all the conditions and offer to supply the item at IIT (ISM), Dhanbad. I am making this offer after carefully reading the conditions and understanding the same. I have acquainted with all the tasks required to be carried out, before making this offer. I will abide by the corrigendum(s), if any, to be issued by IIT (ISM) Dhanbad on its website www.iitism.ac.in. I hereby sign this undertaking as token of our acceptance of various conditions mentioned in tender document. Justification of the price is also attached herewith.

Place: _____

Dated: _____   Name & Signature of the bidder(s):

                                                            Address: _____

CHAPTER 6
Contract Form

With reference to the tender reference no.**Hostel/INS/329/18-19**, Dated: 22.01.2019 of IIT(ISM), Dhanbad for Supply and Installation, **Supply, Installation, Testing & Commissioning of IP Cameras, POE Switches, VMS (Video Management System), VMS Server, UTP Cables, Wall mount racks and patch panels etc. at different Hostels of IIT (ISM)**, we (bidder(s)'s name) _____accept all the instructions and terms and conditions of the tender and accordingly hereby submit our quotation no. _____dated_____.

ALL TERMS AND CONDITIONS OF THE N.I.T. ARE ACCEPTED

1	Name and address of the bidder	
2	Telecom nos. of the bidder i.e. phone fax, & email id.	
3	Signature, name & designation of the person signing on behalf of the bidder& his/her office seal	
4.	Name & designation of the contact person & his phone/mobile no./e-mail ID	

We hereby declare that all statements/details made in this tender are true, complete and correct to the best of my knowledge and belief. I understand that in the event of any information being found false or incorrect at any stage or we do not satisfy any of the stated criteria, our offer is liable to be cancelled automatically and IIT (ISM), Dhanbad may take an action against this firm for such false information including legal action.

Signature:

Name:

Designation:

Bidder(s)'s Name:

Seal:

******

CHAPTER 7

Form7.1- Checklist
(to be submitted with technical bid part-1)

1.	Duly sealed and signed (on all pages) of the tender document.	
2.	Demand draft is attached as Tender Fee	
3.	Demand draft is attached as EMD.	
4.	Form No. 7.4 (Techno-Commercial bid, Part-1) is attached	
5.	Form No. 7.2and7.3 are attached with Techno-commercial bid (part-1)	
6.	Details of PAN, TIN, Service Tax Registration No., GST No. etc. is attached	
7.	Bank account details is attached	
8.	Complete contact details (Name, Postal address, E-mail address, phone no. mobile no.) is provided	
9.	Complete technical details attached	
10.	The Techno-Commercial bid (Part 1) is sealed in a separate envelope (ENVELOPE-ONE) with EMD in the form Demand Draft and duly super-scribed as "Techno-Commercial bid (Part 1) - Bid for Supply and Installation	
11.	The Price bid (Part 2) is sealed in separate envelopes (ENVELOPE-TWO) and duly super-scribed as "Price Bid (Part 2) – Bid for Supply and Installation	
12.	A copy of PAN/Voter Card/Aadhar Card including ID card of the bidder (firm) of the authorized signatory of the bidder(s) is attached with the Form 7.1	

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Form No.: 7.2

To,

The Registrar,

Indian Institute of Technology (Indian School of Mines), Dhanbad,

P.O. – I.S.M.

DHANBAD– 826004.

Ref.: Your Notice Inviting Tender No. Hostel/INS/329/18-19, Dated: 22.01.2019

Sub: Technical bid relating to **Supply, Installation, Testing & Commissioning of IP Cameras, POE Switches, VMS (Video Management System), VMS Server, UTP Cables, Wall mount racks and patch panels etc. at different Hostels of IIT (ISM).**

Sir/ Madam,

1. I/We have gone through all Chapters of the tender document such as Instructions and Terms and conditions, minimum eligibility criteria, schedule of requirements, Specifications and allied technical details etc. as enlisted by you in your Notice Inviting Tender for the subject under reference.

2. I/We, hereby confirm that we have understood all the above and confirm my/our commitment to abide by them.

3. I/We also confirm my/our commitment to provide the services as enlisted in your Notice Inviting Tender under reference.

Seal and Signature of authorized signatory of the bidder(s)with date→

Documents	Yes/No	Document No. (If submitted a copy of the same)
PAN Card/Voter ID/Aadhaar Card		
Official ID Card		
Other Documents (specify below)		

(A copy of PAN/Voter Card/Aadhar Card and official ID card of the authorized signatory of the bidder(s) must be attached with this letter.).

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Form No.:7.3
(to be submitted with technical bid part-1)

1. **Earnest Money Deposit: DD NO._____ Date:_____ _____ Amount: Rupees Three Lakhs only, Issued by bank and branch _____**

2. **Validity of Quotation: days from the date submission deadline (minimum 240 days from the submission deadline)…………………………………………**

3. **Performance Security or PBG: Will be submitted with the proforma invoice or invoice, if Purchase Order placed by I.I.T. (I.S.M.), Dhanbad**

4. **Payment Terms: Payment after supply, satisfactory installation and submission of all required documents as per Purchase Order after statuary deductions and penalty (liquidity damage), if any as decided by I.I.T. (I.S.M.), Dhanbad.**

ALL THE ABOVE MENTIONED TERMS & CONDITIONS ARE ACCEPTED BY US AND PROFORMA IS SUBMITTED FOR CONSIDERATION.

_____
Signature & Seal of the Bidder(s)

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Form No.: 7.4

TECHNO-COMMERCIAL BID (Part-1)

TECHNICAL BID

1. Name of the Bidder(s)..

2.Name of the authorized person (who signs on the tender document on behalf of bidder(s)) with PAN/Voter

Card No./Aadhar No. ………………………………………………………………………………….

3. Address of the Bidder(s)... , Website …………………

4. Phone No. .... (Mobile)...........................Fax................................ E-mail ………………….

Details of the item and its specification:

Sl. No	Particulars	Description

Name of the authorized signatory:

Name of the Bidder(s):

Contact No.:

_____
Signature & Seal of the Bidder(s)

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