



(An autonomous Institute of Dept. of Biotechnology, Ministry of Science & Technology, GOI)

3rd Mile Stone, Faridabad-Gurgaon Expressway, Faridabad – 121001
Phone: +91-129-2876431

E-TENDER DOCUMENT

FOR

SITC and integration with existing LAN network of IP based
CCTV Camera System, Access Control System for Security
Surveillance System

at

NCR – Bio Science Cluster, Faridabad.

(TENDER NO: THSTI/IT/Fdb/CCTV/2015-16)

12th December, 2015



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thsti

ट्रांसलेशनल स्वास्थ्य विज्ञान
एवं प्रौद्योगिकी संस्थान

TRANSLATIONAL HEALTH SCIENCE
AND TECHNOLOGY INSTITUTE

3rd Mile Stone, Faridabad-Gurgaon Expressway, Faridabad – 121001
Phone: +91-129-2876431

E-TENDER NOTICE

BID DOCUMENT
[Two bid system]

12th Dec, 2015

On behalf of the Executive Director, THSTI, Faridabad, Haryana, INDIA, online bids are invited under two bid system from reputed manufacturers or their authorized agents for the supply / installation/ commissioning of the following item/work(s): -

Name & description of work	Enquiry Ref. No.	Work period	EMD (in Rs.)	Date of submission & opening of technical bid
“Supply, installation, testing, commissioning and integration with existing LAN network of IP based CCTV Cameras System, Access Control System and its accessories for Security Surveillance System at NCR-BSC Campus (THSTI & RCB), Faridabad, Haryana”	THSTI/IT/ Fbd/CCTV/1 5-16	60 days	100000/-	08.01.2016 up to 14:30 hrs. and opening on 08.01.2016 at 15:00 hrs.

Website for Online bid Submission : <https://eprocure.gov.in>
Last date & Time for online submission of bids : **08.01.2016 14.30 hours**
Date/Time for opening of Technical bid : **08.01.2016 15.00 hours**

Cost of tender documents 1000.00 (Non-refundable) and EMD of Rs. 100000/- is payable by Demand Draft or Pay Order issued by scheduled bank in favour of “Translational Health Science and Technology Institute” payable at Gurgaon Haryana. The original DD/PO should be submitted to THSTI on or before the due date of opening of technical bids.

2.0 Pre - qualification criteria

2.1. The tenderer must be a manufacturer or its authorized agent. Sub-authorization is not accepted. Copy of authorization certificate to be attached.

2.2. The tenderer should have yearly turnover of not less than Rs. 15 lakhs for the last three years. The tenderer should attach copy of audited/ITCC Certificate for the last three years duly attested by Chartered Accountant. The manufacturer should submit balance sheet and Profit & loss account duly attested by chartered accountant for the preceding three financial years. Refer “Annexure-III”.

2.3. The tenderers should have successfully completed at least;

Three similar works each of value not less than Rs. 25.00 Lakhs

OR

Two similar works each of value not less than Rs. 30.00 Lakhs

OR

One similar works of value not less than Rs. 40.00 Lakhs

during the last 05 years (i.e. Similar work means design, supply, installation & commissioning of CCTV and/or Control Access system in any govt. department/universities, research institution or reputed private firms in India). At least one similar work in any of the above three categories must have been carried out in any of the government organizations/PSU/autonomous bodies in India. Attested copies of the completion certificates issued by the Engineer/officer in charge are required to be enclosed with the technical bid. The tenderer should also give complete details of the concerned authority such as name with designation, valid address, telephone/ mobile number with STD Code, etc. The completed works will be open to inspection and in case works is not up to the standard, the tender will summarily be rejected & no queries will be entertained in this regard. Refer “Annexure- IV”.

2.4. The firm should have not been blacklisted, debarred, declared non performer or expelled from any work of Union Government/ State Governments/ PSUs etc. during the last 5 years. They should also submit a notarized affidavit for the same. The applicant should also provide information regarding litigation / arbitration cases for the last five years as per Annexure-V.

2.5. No consortium will be entertained, only individual agencies will be allowed to quote.

2.6. The tenderer may visit / examine the site and its surrounding to assess the accessibility and assess the scope of work before submitting their offer. No claims later on shall be entertained.

3.0 Pre-bid meeting

3.1. A pre-bid meeting with all the prospective bidders is scheduled to be held on 18th Dec, 2015 at 14.00 hours at THSTI, Faridabad. All the bidders are requested to attend the meeting along with a written statement of their queries, if any.

4.0 Notification of amendment to tender document

4.1. As a result of the pre-bid meeting, if the technical specification requires any modification, suitable amendment to the tender document will be issued and the same will form part of the tender document. Corrigendum/amendments etc., if any, will be notified only on the THSTI web site and no separate advertisement shall be released for the same. Therefore, all the prospective bidders are advised to regularly visit the THSTI web site for any such updates.

5.0 Submission of online bids

- 5.1. Under the two bid system, the bidders are required to submit their ‘Technical bid’ and ‘Financial bid’ **online** separately. All the documents related to technical bid (i.e Eligibility criteria & Technical details) and financial bid should be uploaded online.
- 5.2. The ‘Technical bid’ submitted online should be supported by the following documents:
 - a. Copy of application form along with documents relating to eligibility criterion (as per Annexure I to VI)
 - b. Copy of Technical specification compliance sheet (Annexure-VII).
 - c. Copy of Complete Tender Document duly signed and stamped
- 5.3. The ‘Financial bid’ should be submitted online as per prescribed format (Part F). The cost of CMC should also be quoted along with the price bid as per the prescribed format.
- 5.4. The last date for submission of online bids duly complete in all respect is 08/01/2016 up to 14.30 hrs. The bid should be valid and open for acceptance for a period of 180 days from the date of opening the technical bid.

6.0 Opening of Technical bid

- 6.1. Technical bid submitted online shall be opened on 08/01/2016 at 15.00 hrs at THSTI, Faridabad .

7.0 Evaluation of Technical bid

- 7.1. In the first stage the bid will be evaluated for compliance with the minimum pre-qualification criteria and technical specification as mentioned in the tender document. The screening will be done purely on the basis of documentary evidence submitted by the tenderer along with his technical bid.
- 7.2. After initial screening of the bids, the bidders who appears to qualify the pre-qualification and technical specification will be invited for practical demonstration of the products quoted by them. The aim is to have practical experience of the various features of the products so as to ascertain the authenticity of the claims made by the bidders in their technical bid. The bidders will have to bear all the expenditure pertaining to such demonstration. The demonstration will be held at THSTI, Faridabad and the date of the same will be communicated separately to the bidders. The bidder who fails to attend the demonstration process on the given date and time or who fails to satisfactorily demonstrate any or all of the features of the products before the evaluation committee, shall be liable to be declared as technically disqualified by the committee.
- 7.3. The decision of evaluation committee as regards to the evaluation of bids will be final and no correspondence will be entertained in this regard.

8.0 Opening of Price bid

- 8.1. The price bid of firms whose bids are found to be technically qualifying will be opened at a date and time to be decided by the competent authority and will be communicated to the concerned parties.

9.0 Evaluation of price bid and award of work

9.1. The work will be awarded to the tenderer whose bid has been determined to be eligible and to be substantially responsive to the tender documents and who has offered the lowest evaluated bid.

Note: Corrigendum/amendments etc., if any, will be notified only on the THSTI web site and no separate advertisement will be made for the same. All prospective bidders are therefore advised to regularly visit the THSTI/RCB web site (i.e. www.thsti.res.in or www.rcb.res.in) for any future information or update.

Store and Purchase Officer

Signature of tenderer with Seal & Date

PART – B

(INSTRUCTIONS TO BIDDERS)

INSTRUCTIONS TO BIDDERS

- 1.0 The bidder shall carefully examine and understand the specifications/conditions of the tender document and if required seek clarifications in writing during the pre-bid meeting to ensure that they have understood all specifications/conditions of the tender document. If no such clarifications are sought in writing, it will be taken that the bidder has read, understood and accepted all the terms, conditions and specifications in the tender document.
- 2.0 The bidder is required to upload a copy of this tender document, with all pages signed by the authorized person, to confirm that bidder has read and understood the conditions of this tender document and that the proposal is submitted in full understanding and agreement of the requirements of THSTI.
- 3.0 The bidder should visit the site with prior appointment and carry out necessary inspection and test/measurement as are necessary before attending the pre-bid meeting and before submitting its bids. All costs associated with such site visit and in preparation and submission of the Bid will have to be bear by the bidder. THSTI will in no case be responsible for such costs, regardless of the conduct or outcome of the bidding process.
- 4.0 THSTI reserves its rights to amend any of the terms and conditions of this tender document. Such amendment shall be published on THSTI and CPPP website only and will not be published in newspapers. The bidders are advised to regularly visit the website for any such update.
- 5.0 The complete bid shall be without alteration or erasures, except those to accord with instructions issued by the THSTI or as necessary to correct errors made by the bidder, in which case such corrections shall be initialed by the person or persons signing the bid.
- 6.0 The bidder shall submit only one option, which is best suitable to meet THSTI requirements. The bids submitted with more options shall be liable to be rejected.
- 7.0 The bid prepared by the bidder, as well as all correspondence and documents relating to the bid exchanged by the bidder and THSTI, shall be in English only.
- 8.0 The bidder shall base his solution on the basis of continuous availability of spares for at least 10 years, after the specified warranty period.
- 9.0 Wherever a specific form is prescribed in the bid document, the bidder shall use the form to provide relevant information. If the form does not provide space for any required information, space at the end of the form or additional sheets shall be used to convey the said information. For all other cases, the bidder shall design a form to hold the required information.
- 10.0 The bidder shall explicitly indicate the non-compliance or deviation of the solution offered in the proposal to all the terms, clauses, conditions and specifications stipulated in this tender document. If non-compliance or deviation for any term, clause, condition or specification is not explicitly indicated, it will be construed as compliance and if successful in the bid, the bidder is obligated to comply with all the requirements (excluding those non compliances explicitly accepted by THSTI in writing) in toto. Incomplete tenders are liable to be rejected.

- 11.0 Successful bidder shall perform all the obligations specified in accordance with the terms and conditions laid down in the RFP. All details provided by the bidder should be specific to the requirements specified in the tender document. Detailed clarification may be provided by bidder, if so desired by THSTI. The bidder shall specify the responsibilities of THSTI, if any, separately for the successful implementation of the project.
- 12.0 The bidder should sign and stamp each page of the tender documents.
- 13.0 The bidder may furnish any additional information, which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. He is however, advised not to furnish superfluous information. No information shall be entertained after submission of tender documents unless it is called for by the THSTI.
- 14.0 Any information furnished by the bidder found to be incorrect either immediately or at a later date, would render him liable to be debarred from tendering/taking up of work in THSTI.
- 15.0 Any variation in the terms and conditions of the general/special conditions for payment, tender fees, security deposit, etc is not acceptable to THSTI and such tenders will be rejected straight away.
- 16.0 Acceptance of tender shall rest with the THSTI which shall not be bound to accept the lowest tender and reserves to itself the right to reject any or all tenders received without assigning any reasons therefore.

Store and Purchase Officer

Signature of tenderer with Seal & Date

PART – C

(GENERAL CONDITIONS OF CONTRACT)

GENERAL CONDITIONS OF CONTRACT

1.1 CONTRACT DOCUMENT

1.1 The terms 'Contract document' means the Notice Inviting Tender, Tender form, Instructions to bidders, Special Conditions, General Conditions of Contract, Specifications, Price Schedule and Drawings and Articles of Agreement.

1.2 **“THSTI” shall mean Translational Health Science and Technology Institute with its office at 3rd Mile Stone, Faridabad-Gurgaon Expressway, Faridabad – 121001. “RCB” shall mean Regional Centre for Biotechnology with its office within the same campus commonly called as NCR-Biotech Science Cluster, Faridabad.**

1.3 The Contractor shall mean the sole proprietor, or firm or company whether incorporated or not, undertaking the works and shall include the legal representative or such individual successors, heirs, administrators or assignees of such sole proprietor, firm or company, as the case may be or the persons composing such firm or company of the successors of such firm or company and the permitted assignees of such individual or firms or company.

1.4 Engineer-in-charge shall mean the officer designated by the Executive Director, THSTI who shall supervise and shall be in charge of the work, and issue necessary instructions at site, on behalf of THSTI.

2.0 Contractor shall strictly conform to the specification, price schedule, general and special terms and conditions, if any, and any other matter contained in the tender documents issued by the THSTI.

3.0 **The estimated value under work, Bid Security (Earnest Money) and Performance Security are as follows:**

- | | | |
|----|--------------------------------------|--|
| A) | Estimated cost | : Rs. 50.00 Lacs |
| B) | Bid Security (Earnest Money Deposit) | : Rs. 100000 /- |
| C) | Performance Security | : 5% of the total value of work order. |

4.0 Submission of the bids and EMD

4.1. The procurement will be carried out through submission of online tenders only. No offer in physical form will be accepted and any such offer if received by THSTI will be out rightly rejected. Tender documents can be downloaded from website of CPPP www.eprocure.gov.in. and final bids (Technical and Financial) are to be uploaded on same website i.e www.eprocure.gov.in. The bidders should have a valid digital signature certificate (Class'II or Class'III) issued by any of the valid Certifying Authorities to participate in the online tender. The bids shall be uploaded in electronic form only on www.eprocure.gov.in website. Before submission of bids, the bidders are requested to kindly read the “Guidelines to bidders on CPPP’s e-procurement module” available at the end of this tender document.

- 4.2. The original EMD amount and Tender Fee in the form of Demand Draft/Pay order towards cost of bid documents shall be submitted to Store & Purchase Officer, THSTI, Faridabad by hand delivery/courier on or before the due date for submission of bids failing which the bid will be rejected. The reference no. of the Tender and superscribing the word "EMD and Tender Fee" should be specifically mentioned on the top of the envelope.
- 4.3. The bid securities of unsuccessful tenderer will be returned as promptly as possible as but not later than 30 days after the expiry of the period of bid validity prescribed by THSTI.
- 4.4. The bid Security of the successful bidder will be returned upon the tenderer executing the work and furnishing the required Performance Security.
- 4.5. Withdrawal or modification of offer by the tenderer during the interval between the deadline for submission of bids and expiry of the period of bid validity will not be permitted and will result in the forfeiture of its bid security.

5.0 PERFORMANCE SECURITY

- 5.1. The contractor will be required to furnish performance security as per prescribed format for an amount equal to 5% of the estimated value of the work in the form of CDR/FDR/DD/bank guarantee (of nationalized/ Scheduled Bank in a standard format) within two weeks from the date of signing/execution of a work agreement. The performance security should remain valid for a minimum period of 36 months plus three months claim period from the date of execution of work agreement. (Refer Annexure 'IX')
- 5.2. The performance security will be released on expiry of the warrantee period of work (36 Months) subject to satisfactory fulfillment of its obligations by the contractor under the work.
- 5.3. Failure of the successful contractor to lodge the required Bank Guarantee shall constitute sufficient grounds for the annulment of the Award and forfeiture of the Bid Security, in which event the THSTI may make the Award to the next lowest evaluated tenderer or, if there are no other tenderer, call for new bids.
- 5.4. In the event of breach of contract by the contractor, the performance security will liable to be forfeited by THSTI.

6.0 DRAWINGS

- 6.1. On the award of any work order under this work, the contractor shall immediately proceed with the preparation of drawing according to the work order to be carried out. Two sets of such working drawing including make of all items shall be submitted to THSTI for its approval to ensure that work will carried out in accordance with specification and proposed drawing including such changes as may have been mutually agreed upon. All the drawing shall be received by the Engineer –in-Charge for his approval within 07 days of award of work. Also, the contractor must furnish detail bar chart showing the various activity w.r.t. time and he must organize co-ordination meeting at the site to review the progress of work.

7.0 TIME FOR COMPLETION OF WORKS

7.1. The duration for completion of the entire work including supply, installation, testing, commissioning and integration with the existing LAN system is 60 days. The work should be completed as per the instruction of the Site Engineer.

8.0 TIME AND EXTENSION FOR DELAY

8.1. If in the opinion of the Engineer-in-Charge the works is delayed by:

- a. Force majeure.
- b. Reasons of civil commotion, location combination of workers on strike or lock-out affecting any of the building trades.
- c. In consequence of the contractor for not having received in due time necessary instructions from the Engineer-in-charge for which he shall have specifically applied in writing.
- d. Reasons of Engineer-in-charge instruction

The Engineer-in-charge shall make a fair and reasonable extension of time for completion of the contract works. Then upon the happenings of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the Engineer-in-charge but shall nevertheless use constantly his best endeavor's to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-charge to proceed with the works.

8.2. Request for rescheduling of date of completion and extension of time, to be eligible for consideration, shall be made by the Contractor in writing immediately after the happenings of the event causing delay. The Contractor may also, if practicable, indicate in such a request the period for which extension is desired.

8.3. In such case, the Engineer-in-charge may give a fair and reasonable extension of time and reschedule the completion date. Such extension shall be communicated to the Contractor by the Engineer-in-charge in writing within 1 month of the date of receipt of such a request. Non-application by the Contractor for extension of time shall not be a bar for giving a fair and reasonable extension by Engineer-in-charge and this shall be binding on the Contractor.

9.0 COMPENSATION FOR DELAY

9.1. Time is the essence of the contract. The time allowed for the work shall be strictly followed otherwise the Contractor shall be liable to pay compensation at the rate of 0.5 % of the ordered value of the work per week of delay or part thereof on the part of the contractor subject to a maximum of 5 % of the total ordered value. The decision of Engineer-in-charge about the delay shall final and binding.

10.0 TECHNICAL SPECIFICATIONS AND STANDARDS

10.1. The CCTV and Control Access System to be provided by the tenderer under this contract shall conform to the technical specifications as laid down under this tender document and the work should be carried out to the complete satisfaction of the Engineer-in-charge.

11.0 WORK OPEN TO INSPECTION

- 11.1. All work under or in course of execution or being executed in pursuance of the contract shall at all times be open to inspection and supervision by the Engineer-in-charge and his authorized subordinates, and the Contractor shall at all times during the usual working hours, and at all other times at which reasonable notice of the intention of the Engineer-in-charge or his subordinate to visit the works shall have been given to the contractor, either himself be present to receive order and instructions, or have a responsible agent duly accredited in writing, present for that purpose. Order given to the contractor's agent shall be considered to have the same force as if the same had been given to the Contractor himself.
- 11.2. All works shall be executed subject to the approval in all respect of the Engineer-in-charge who shall be entitled to direct at what point or points and in what manner these are to be commenced, and carried out from time to time.

12.0 INSPECTION, TESTING AND QUALITY CONTROL

- 12.1. THSTI and/or its nominated representative(s) will, inspect and/or test the ordered items to confirm their conformity to the tender specification at no extra cost to the THSTI. All work shall be tested as stipulated in the latest govt. /institutes specification.
- 12.2. The inspections and tests may be conducted on the premises of the Tenderer or its subcontractor(s) or at the point of delivery. If conducted on the premises of the Tenderer or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data shall be furnished to the Inspectors at no charge to the THSTI.
- 12.3. If the inspected or tested items, fail to conform to the tender specifications, the THSTI may reject that item and the Tenderer shall either replace the rejected items or make all alternations necessary to meet specification requirement free of cost to the THSTI, within a stipulated time period.
- 12.4. Nothing shall in any way release the tenderer from Guaranty or other obligations under the contract.
- 12.5. The THSTI shall be the final authority to reject full or any part of the supply which is not confirming to the specifications and other terms & conditions.
- 12.6. No payment shall be made for rejected items. Rejected items must be removed by the contractor within one weeks of the date of rejection at their own cost and replace immediately. In case these are not removed, these will be auctioned at the risk and responsibility of the contractor without any further notice.

13.0 PACKING AND MARKING

- 13.1. The packing for the items to be supplied directly at site should be strong and durable enough to withstand, without limitation, the entire journey during transit including transshipment (if any), rough handling, open storage etc. without any damage, deterioration etc. As and if necessary, the size, weights and volumes of the packing cases shall also take into consideration, the remoteness of the final

destination of the Items and availability or otherwise of transport and handling facilities at all points during transit up to final destination as per the contract.

13.2. The quality of packing, the manner of marking within & outside the packages and provision of accompanying documentation shall strictly comply with the requirements as per site condition. In case the packing requirements are amended due to issue of any amendment to the contract, the same shall also be taken care of by the tenderer accordingly.

14.0 CO-ORDINATION

Work shall be carried out in such a manner that the work of other agencies operating at the site is not hampered due to any action of the contractor. Proper co-ordination with other agencies will be contractor's responsibility. In case of any dispute the decision of THSTI shall be final & binding on the contractor.

15.0 CLEARANCE OF SITE

The contractor shall have to remove all waste (Melba) and other unwanted material from site of work before handing over the installation to the THSTI. The work shall not be treated as complete in all respects unless these requirements are fulfilled by him. In the event of contractor failing to do so, the THSTI shall have right to get the site cleared at the cost of contractor.

16.0 COMPLIANCE WITH LABOUR LAWS AND OTHER LAWS

The Contractor shall abide by the Contract Labour, (Regulation and Abolition) Act 1970, and Contract Labour (Abolition and Regulation) Central rules 1971. The Contractor shall comply with the provisions of Payment of Wages Act 1936, Minimum Wages Act 1948, Employees Liability Act 1938, Workmen's Compensation Act 1923, Industrial Disputes Act and other applicable regulations and other labour laws applicable to Contract Labour as mentioned below:

- 1) Industrial Disputes Act.
- 2) Industrial Establishment (Standing orders) Act.
- 3) Trade Unions Act.
- 4) The Factors Act.
- 5) Employees Provident Fund & Miscellaneous Provision Act.
- 6) Employees State Insurance Act.
- 7) Workmen's Compensation Act.
- 8) Payment of Gratuity Act.
- 9) Minimum Wages Act.
- 10) Payment of Wages Act.
- 11) Equal Remuneration Act.
- 12) Payment of Bonus Act.
- 13) National / Weekly Holiday Act.
- 14) Inter-state Migrant Workmen (Regulation of Employment and of service conditions) Act.

In case, THSTI is made liable to pay any amount to any third party due to non-observance of any of the statues/law as mentioned above , the same will be adjusted from any future payment due payable to the contractor or from performance security available with THSTI.

17.0 SAFETY CODE, LABOUR CAMPS SANITARY ARRANGEMENTS

The Contractor shall follow the Safety Code and Model Rules for the Protection of health and Sanitary arrangement for Workers as prescribed by the CPWD as regard to safety code and first aid facilities. In case, the Contractor fails to make the aforesaid arrangement, the Executive Director THSTI shall be entitled to do so at the risk, responsibility and cost of the Contractor. Determent panel and legal action shall be taken in the event of any failure on the part of the contractor to discharge the safety obligations which are laid down in the contract.

18.0 PAYMENT OF WAGES BY THE CONTRACTOR

The Contractor shall directly pay to labour employed by him and shall be solely responsible for following all Government rules and regulations applicable for employment.

19.0 REMOVAL OF PERSON

The Engineer-in-charge may require the Contractor to remove from the site of the work any person or persons in the Contractor's employment who may found to be incompetent or due to misconduct and the Contractor shall forthwith comply with such requirement / instructions.

20.0 LIEN IN RESPECT OF CLAIM IN OTHER CONTRACTS

Any Sum of money due and payable to the Contractor (including the security deposit refundable to him) under the contract may be withheld or retained by way of lien by the THSTI in respect of payment of a Sum of money arising out of or under any other contract made by the Contractor with the THSTI. It is an agreed term of the contract that the sum of money so withheld or retained under this clause by the THSTI will be kept withheld or retained as such by the THSTI or till his claim arising out of the same contract or any other contract is either mutually settled or determined by the arbitration clause or by the competent court, as the case may be and that the Contractor shall have no claim for interest or damages whatsoever on this account or any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the Contractor.

21.0 OTHER CONDITION

- 21.1. Time is essence of the contract. Only those bidders, who are confident and willing to carry out the work within the prescribed time period are requested to participate in this tender.
- 21.2. Delivery schedule will be strictly adhered too. The delivery period shall be maximum of 60 days. However, extension of time will be allowed in exceptional circumstances.
- 21.3. Delivery may be done by the contractors directly or through their authorized dealers whose name and address should be indicated in the proposal.
- 21.4. No part payment will be made. Payment will be made on completion of the work as per orders issued.

- 21.5. Payment term is normally within 30 days. However, all efforts will be made to effect the payment within 15 days after the supply is completed and accepted by THSTI.
- 21.6. The submission of tender shall be deemed to be an admission on the part of the bidder that it has fully acquainted with the contract terms and no claim other than what stated in the tender shall be paid in the event of award of Contract.
- 21.7. For elaboration of any items of the General condition of Contract, reference shall be made to CPWD manual. The Contractor shall in advance seek clarification on any elaboration.
- 21.8. The successful tenderer is responsible to provide the required manpower with qualified persons to meet the requirements of the maintenance of the installation during the guarantee period. The contractor shall provide any cleaning materials required. Tools required for the maintenance shall be arranged by the contractor (spanner set, cutting pliers, pipe wrenches etc.).
- 21.9. The staff to be engaged on this work shall have full knowledge and experience of the work in which they are engaged. The carpenter/ electrician/foreman shall have valid licenses for corresponding trades.
- 21.10. No subletting or subcontracting of the work will be permitted without the express consent of THSTI.
- 21.11. All dispute arising under this contract will be subject to the jurisdiction of Haryana High Court.
- 21.12. In case this tender document does not contain a provision or terms for dealing with a situation that may arise during the execution of the works, the relevant provisions contained in the CPWD manual or any other laws/rules shall be followed in such cases and the same will be binding on the Contractor.

Store and Purchase Officer

PART – D

(SPECIAL CONDITIONS OF CONTRACT)

SPECIAL CONDITIONS OF CONTRACT

1.0 PRICES

1.1 Tenderers price shall be deemed to include cost of all materials, tools and tackles, taxes, delivery charges etc. whether specifically mentioned or not. The tenderer shall also include in his price all taxes, duties or other levies (viz., Excise duty, Custom duty, VAT, D. VAT, Service tax, Octroi etc.) which are legally leviable on such works. The prices shall remain firm & fixed during the currency of work. However in case of any statutory variation in taxes/duties after the last date of submission of Tender the same shall be adjusted. The Tenderer may therefore indicate the percentage cost of material and labor to be considered for the payment of adjustment of statutory variation in Taxes/Duties as mentioned above. The prices should be quoted on F.O.R destination basis. (i.e THSTI, Faridabad).

2.0 TAXES, DUTIES AND OTHER CHARGES :

a. Sales Tax: Full CST/VAT applicable. 'C', 'D' forms not applicable.

b. Excise Duty: THSTI is a Govt. Of India organisation registered with the Department of Scientific and Industrial Research (DSIR) and is exempted from payment of excise duty vide central excise notification No 10/97 and amended vide 16/2007. The necessary ED exemption certificate shall be provided by THSTI, Gurgaon for availing exemption. Tenders are requested to take note of the ED exemption available and accordingly submit the offer without ED element.

c. Customs Duty: THSTI is a Govt. Of India organisation registered with the Department of Scientific and Industrial Research (DSIR). We are hence availing exemption for customs duty vide notification No: 51/96 as amended vide notification No: 24/2007. Necessary customs duty exemption certificate will be provided by THSTI for availing CD Exemption.

Note : Since THSTI is entitled to concession on payment of custom duty/excise duty as per above stated notification, the bidders should keep this point in mind while submitting their bids. The responsibility to claim concession on payment of custom duty/excise duty on items to be used for the works shall be that of the bidder. THSTI will only issue concessional custom duty form as and when requested by the bidder.

3.0 DEVIATION

The deviation in quantities shall be allowed to the extent of $\pm 10\%$ on the awarded rates.

4.0 PAYMENT AND DEDUCTIONS

The payment will be made to the contractor within 30 days of successful and satisfactory completion of work(s) as per the scope of work mentioned in the tender and the work order.

5.0 Procedure for submission of bills

- a. Within 30 days of successful completion of the work against any work order issued under this work, the contractor will have to submit its bill to the Engineer-in-charge for verification and payment.
- b. The quantities shall be measured as per the quantity mentioned in BOQ and the work order issued by THSTI.
- c. If the contractor does not submit the bill within the time fixed aforesaid, the Engineer-in-charge may depute a subordinate to measure up the said work in the presence of the contractor whose counter signature to the measurement list will be sufficient warrant and the Engineer-in-charge may prepare the bill. This shall be done at the cost of the contractor and the failure of the Contractor to participate and countersign the measurements shall foreclose his right to challenge them at any stage thereafter.
- d. Before making payment, deduction towards taxes, service tax etc as applicable, will be made before release of payment to the contractor.

6.0 DEVIATION / VARIATION / EXTRA ITEMS / SUBSTITUTED ITEMS AND PRICING

GENERAL

The Engineer-in-Charge shall have power to make alteration in, omissions from, additions to, or substitutions from the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, the contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineer-in-charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided.

EXTRA ITEMS / PRICING

In the case of extra item(s) the contractor may within fifteen days of receipt of order or occurrence of the item(s) claim rates, supported by proper analysis, for the work and the engineer-in-charge shall within one month of the receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.

SUBSTITUTE ITEMS/PRICING

- a. In case of substituted items, the rate for the agreement item (to be substituted) and substituted item shall also be determined in the manner as mentioned in the aforesaid Para.

- b. If the market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted) the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so increased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).
- c. If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted) the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).
- d. In the case of contract items, substituted items, contract cum substituted items, the limit of increase shall be 10% of the stipulated quantities of the contract. If these quantities exceed the limits of 10% of the stipulated quantities in the contract, the contractor may within fifteen days of receipt of order or occurrence of the excess, claim revision of the rates, supported by proper analysis for the work in excess of the above mentioned limits, provided that if the rates so claimed are in excess of the rates specified in the schedule of quantities the Engineer-in-charge shall within one month of receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.
- e. The provisions of the preceding paragraph shall also apply to the decrease in the rates of items for the work in excess of the limits laid in above para, and the Engineer-in-charge shall after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration and reply received from him within fifteen days of the receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates.

7.0 GUARANTEE CLAUSE

The contractor shall guarantee that the complete project including all the material and components supplied and installed by him shall be free from defects due to faulty material or workmanship.

The defects and any shortcomings found in the materials as specified shall be removed at no extra cost. The contractor shall provide the necessary personnel and tools for fulfilling the above guarantee. The period of the guarantee shall be (36) thirty six months from the date of handing over the complete project/installations to THSTI. During this period any or all components found to be defective shall be replaced or repaired free of cost.

If the defects are not removed within a reasonable time the THSTI may arrange to do at the contractor's risk and cost, without prejudice to any other rights.

After Sales Service: After sales service should be made available on 24 (hrs) X 7 (days) X 365 (days) basis. Complaints should be attended promptly and properly within 24 hrs. The service should be provided directly by the tenderer or his authorised agent whose details shall be provided to the THSTI/consignee within one month from the date of award of contract.

8.0 PRICE FALL CLAUSE

If at any time during the validity of the work the tenderer supplies such equipment's/stores as are under this tender enquiry, to any other organization at a price lower than the price quoted under this contract, he shall forthwith reduce the price payable under this tender for the equipment's/ stores being supplied from the date of coming into force of such reduction, the price of equipment's/ stores shall stand correspondingly reduced

9.0 PARALLEL WORK CLAUSE

THSTI reserves right to enter into parallel work(s) simultaneously or at any time during the period of the contract with one or more tenderer(s) as may be deemed fit.

10.0 OTHER CONDITION TO BE ADHERE BY TENDERER

1. The work is to be carried out as per the specifications in the tender and relevant standards of CPWD.
2. The material should be got approved before start of work.
3. The contractor shall clear the site after completion of work in all respect.
4. All the material used shall be one of the stipulated makes as per approved list of material.
5. The contractor shall comply with safety codes for Fire precaution, health requirement, scaffolds & ladders etc.
6. No T & P shall be issued by THSTI.
7. All dismantled material for which credit is not being given in the tender shall be handed over to the site engineer stored at proper place.
8. Contractor shall be fully responsible for safety of his workers and incase of any accident / mishap the entire responsibility shall be on the contractor.
9. The work shall be executed without any loss / damage to the THSTI's properties.
10. The picture provided in the specification is for illustration purposes only and not to scale.

11.0 INTERPRETATION

In interpretation of specifications, the following orders shall be as followed:-

- a) Drawings
- b) Technical Specification
- c) Special Conditions of contracts
- d) General condition of contract

Matters not covered by the specification given in this contract as a whole shall be covered by relevant and latest Indian Standard codes/ C.P.W.D code. If such codes on a particular subject have not been framed, the decision of the owner/ owner's representative shall be final and binding.

12.0 TERMINATION

Being a standing offer, the work can be terminated from either side by serving one month's notice to the other party. However, all the order placed before the date of serving of such notice will be valid

and binding on both the parties. Further, the orders placed under the work can also be terminated individually and the same will not lead to automatic termination of work itself unless so specified.

Termination of work order

Notwithstanding anything elsewhere provided herein and in addition to any other right or remedy available to THSTI under the work or otherwise including right of THSTI to claim compensation for delay, THSTI may, without prejudice to his right against contractor in respect of any delay, bad workmanship or otherwise or to any claims for damage in respect of any breaches of the contract and without prejudice to any rights or remedies under any of the provisions of this work or otherwise and whether the date for completion has or has not elapsed by intimation in writing, absolutely determine and terminate the Contract.

Default or failure by the contractor in any of the under mentioned cases, including but not limited to the following shall be the basis of taking action under this clause of the contract.

- 1) Failure to provide at the job site, sufficient labor, material, equipment, machinery, and / or facilities, required for the proper and / or due execution of the work or any part thereof:
- 2) Failure to execute the works or any of them in accordance with the contract.
- 3) Disobedience of any order or instruction of the Site Engineer and /or Engineer-in-charge.
- 4) Negligence in carrying out the work or carrying out of work found to be unsatisfactory by the Engineer-in-charge.
- 5) Abandonment of the works or any part thereof.
- 6) If the Contractor misconduct in any manner.
- 7) Delay in execution of work, which in opinion of Engineer-in-charge shall delay the completion of work beyond the stipulated date of completion.
- 8) Distress, execution, or other legal process being levied on or upon any of the Contractors goods and /or assets.
- 9) Death of Contractor (if an individual)
- 10) If the Contractor of any person employed by him shall make or offer for any purpose connected with the contract any gift, gratuity, royalty, commission, gratification or other inducement (whether money or in any other form) to any employee or agent to THSTI.

The decision of the Executive Director, THSTI as to whether any of the events/ contingencies mentioned in aforesaid clauses entitling THSTI to terminate the contract has occurred shall be final and binding upon the Contractor. The jobs left however by the Contractor shall be got done at his risk and cost through the other agencies and the Contract shall be determined accordingly.

13.0 FORCE MAJEURE

The right of the contractor to proceed with the work shall not be terminated because of any delay in the completion of the work due to unforeseeable causes beyond the control and without the fault or negligence of the contractor, including but not limited to acts of god, or of the public enemy, restraints of a sovereign state, floods, unusual severe weather conditions.

14.0 ARBITRATION

Any claim, dispute or difference arising out of or in connection with this agreement and which cannot be settled by mutual consultations, shall be referred to sole Arbitration or an Arbitrator to be appointed by mutual consultations. The award of the Arbitrator shall be final and binding between the parties as per the terms and conditions of the Agreement to be executed on award of contract. The Arbitration proceeding shall be governed by the Arbitration and Conciliation Ordinance dated 26th March, 1996 and shall be conducted in Haryana.

Store and Purchase Officer

PART – E

(SCOPE OF WORK, BOQ & TECHNICAL SPECIFICATION)

SCOPE OF WORK

Name of work : - Design, supply, installation & commissioning of IP based CCTV Cameras System, Door Access Control System and its accessories for Security Surveillance System at NCR-BSC Campus, Faridabad, Haryana.

1. Scope of Supply

- Supply of all components as per BQQ at NCR-BSC campus, Faridabad.

2. Scope of Installation, Configuration and Integration

- Physical installation and powering of all supplied components as per approved layout.
- Complete configuration and integration of all the components on the existing LAN Network.
- Any structure, permanent or temporary, dismantled or destroyed during the execution of the work shall, will be refill/remake or restore to its previous condition by the network vendor at its own cost.
- Any extra electrical points and data points required in the server room shall have to be provided by the network vendor at his own cost.
- The required UPS power points in the rack shall be provided by THSTI.

5. Scope of Acceptance Testing and Commissioning

- After installation and configuration of each and every subsystem, integrating various systems and providing various services, tests shall be conducted for system performance as a whole.
- Commissioning shall mean end-to-end commissioning of the complete CCTV/Control Access System with testing of live applications. Test parameters, commitments etc shall be submitted along with implementation plan, which is shall be approved by THSTI.
- In the event, the test parameters, commitments are not submitted or not accepted explicitly in writing/minutes by THSTI, the Test parameters, commitments etc as decided by THSTI will be final and binding.
- Upon Self testing and Commissioning, the system shall be offered for inspection by THSTI.
- The successful Bidder, along with THSTI shall prepare an inspection and acceptance schedule with details of each activity.

4. Scope of Documentation

- Providing original manuals of all hardware items supplied.
- Implementation plan, to be approved by THSTI before initializing the installation and configuration activity.
- Test parameters, commitments etc for acceptance testing to be enclosed along with implementation plan.
- Operator manual for shutdown/start of the active resources.
- Acceptance test reports, performance test reports of all components.
- Any other Relevant Documentation

6. Scope of Training

- Training on the design and functioning, operational aspect and maintenance of the complete system.
- The duration of the training shall be one week.
- Course material for the above (one copy each per participant) to be provided.

Store and Purchase Officer

BILL OF QUANTITY(BOQ)

S. No.	Item	THSTI	RCB
Part- A			
1	IP IR Dome Camera (Indoor)	26	44
2	Bullet Camera	1	0
3	PTZ Camera	1	1
4	IP IR Dome Camera (Outdoor)	2	2
5	Software NVR/Camera Server	1	1
Part – B			
6	NAS/RAID Backup	1	1
7	Workstation	1	1
Part – C			
8	Door Access Controller		
	a) Machine	13	13
	b) Push Button	13	13
	c) Alarm Button	03	03
	d) Door access controller	03	03
	e) EML	26	26
Part – D			
9	Monitor	1	1

TECHNICAL SPECIFICATIONS

A. SURVEILLANCE CCTV SYSTEM

1. Introduction :

- 1.1. Surveillance CCTV system is required to ensure effective surveillance of an area as well as create tamperproof record for post event analysis. The System shall provide an online display of video images on TFT monitors/Video wall/Large plasma monitors located in Central as well as Local control rooms.
- 1.2. System should facilitate viewing of live and recorded images and controlling of all cameras by the authorized users present in the LAN.
- 1.3. System should provide inter-operability of hardware, OS, software, networking, printing, database connectivity, reporting and communication protocols. System expansion should be possible through off-the-shelf available hardware.
- 1.4. Equipment with better specifications shall be accepted.

Note:

1. NVR & CAMERA SERVER are synonymous in these specifications.
2. OEM of Camera, IP cameras, NVR, Servers, NAS box/Raid backup device, Workstations, Monitors and Switches shall be ISO firms and the offered products must be CE certified.

2. General Specifications:

- 2.1. Proposed CCTV system shall be open standard based integrated system with IP network centric functional and management architecture aimed at providing high-speed manual/automatic operation for best performance.
- 2.2. System shall use video signals from various types of indoor/outdoor CCD color IP cameras installed at different locations, process them for viewing on workstations/monitors at Central Control Room/local control rooms and simultaneously record at the cameras after compression using MPEG 4 or better standard. Joystick or Mouse-Keyboard controllers shall be used for Pan, Tilt, Zoom and other functions of desired cameras.
- 2.3. System shall have combination of Digital CCD Color Video Cameras with individual IP address, with Fixed or P/T/Z Lens, Network Video recorders (NVR/CAMERA SERVER), Network attached storage (NAS) / Raid backup device for recording, Application software, Color Video Monitors, Keyboards with Joystick controllers/Mouse-Keyboard, software based Video Matrix Switcher, workstation for System Administration / Management / Maintenance etc.
- 2.4. The NVR/ CAMERA SERVER may be standalone machine or server based. The NVR/ CAMERA SERVER software shall run on common off the shelf available servers (CAMERA SERVER & Database server). Each NVR / CAMERA SERVER shall be able to handle 50 or more cameras. 2.3. The NVR/CAMERA SERVER may support for mobile monitoring clients on iOS and Android. The NVR/CAMERA SERVER should be with latest features, user-friendly Windows based interface to view HD video and configure system settings.

- 2.5 Network Video Recorder/CAMERA SERVER shall offer both video stream management and video stream storage management. Recording frame rate & resolution in respect of individual channel shall be programmable.
- 2.6. System should ensure that once recorded, the video cannot be altered, ensuring the audit trail is intact for evidential purposes.
- 2.7 System shall provide sufficient storage of all the HD quality 1080p/720p camera recordings for a period of 30 days or more using necessary compression techniques for all cameras (extended capacity of cameras i.e. present capacity + 25%).
- 2.8 System shall use IP enabled cameras. The video shall be compressed using MPEG-4 or better standard and streamed over the IP network.
- 2.9 The recording resolution (1080p/720p) and frame rate for each camera shall be user programmable.
- 2.10 The Area under surveillance shall be monitored on 230 V, 50Hz single-phase power supply. Power for all the equipment will be conditioned using on-line UPS with minimum 30 minutes or more back up. If any equipment operates on any voltage other than the supply voltage and supply frequency, necessary conversion/correction device for supply shall be supplied along with the equipment.
- 2.11 All the control equipment's e.g. servers, NVR/CAMERA SERVER, NAS/Raid backup device, decoders etc. shall be provided in standard Racks.
- 2.12 All the indoor cameras & control equipment shall be suitable for operation from 10 degree C to 40 degree and relative humidity up to 80% non-condensing. Cameras & other equipment, meant for outdoor installations, shall be suitable work from (-) 10 degree C to (+) 50 degree C with RH up to 90% non-condensing. This temperature range may be achieved with or without heater.

3. System requirements:

- 3.1 IP Camera shall be used for Video image capture.
- 3.2 Outdoor/Indoor cameras shall be either with fixed focal length lens or with Pan/Tilt & Zooms lens as per site requirement. All outdoor /indoor Cameras shall be Day/Night cameras.
- 3.3 Housing of cameras meant for indoor use shall be IP 42 rating whereas outdoor camera housing shall be of IP 66 or better rating. These must be integrated by the camera manufacturer.
- 3.4 System must provide built-in facility of watermarking or Digital certificate to ensure tamperproof recording so that these can be used as evidence at a later date, if so desired. The recordings shall support audit trail feature.
- 3.5 All camera recordings shall have Camera ID & location/area of recording as well as date/time stamp. Camera ID, Location/Area of recording & date/time shall be programmable by the system administrator with User ID & Password.
- 3.6 Facility of camera recording in real-time mode (25FPS)/15/12.5/10 or lower FPS as well as in any desired combination must be available in the system.

- 3.7 Facility of camera recording in CIF, 2CIF, 4 CIF as well as in any combination i.e. any camera can be recorded in any quality – Selective or Group of cameras must be available in the system.
- 3.8 System to have facility of additional camera installation beyond the originally planned capacity.
- 3.9 In order to optimize the memory, while recording, video shall be compressed using MPEG-4 or better standard and streamed over the IP network. Once on the network, video can be viewed on a Control room workstation or on analog monitor using a hardware decoder (MEPG-4/compatible standard Receiver) and shall be recorded on NVR/CAMERA SERVER and shall be backed up on NAS/RAID Backup device.
- 3.10 System shall be triplex i.e. it should provide facility of Viewing, Recording & Relay simultaneously.
- 3.11 The offered system shall have facility to export the desired portion of clipping (from a desired date/time to another desired date/time) on CD or DVD. Viewing of this recording shall be possible on standard PC using standard software like windows media player etc.
- 3.12 PTZ Cameras shall have 64 or more pre-defined positions, to be selected through suitable input alarm.
- 3.13 Redundancy/Fail-over feature is required i.e in case of failure of an NVR/CAMERA SERVER the relevant cameras shall automatically switch over to the redundant NVR/CAMERA SERVER.
- 3.14 System shall have provision of WAN connectivity for remote monitoring.
- 3.15 All devices and components must be compliance with ONVIF, Comply UL,CE and FCC Certifications and conform to all required standards.

4 System Design:

- 4.1 Each camera shall be IP based, UTP ready, Full HD 1080p/720p should be capable of producing video streams @25 fps for viewing on LAN and on monitors and also recording into the NVR/CAMERA SERVER / CAMERA SERVER s and NAS box /Raid backup device @25 fps or lower frame rate, user selectable as per requirement, for each individual camera.
- 4.2 Cameras shall be Power Over Ethernet (POE) compliant and connected to Layer 2 or Layer 3 switch as per system design using UTP CAT 6 Cable or fiber optic cable and the required connectors as per standards.
- 4.3 Central/Local Control Room will have workstations along with controllers for Camera operation. For monitoring purposes, Video monitors/Plasma monitors/Video wall shall be set up with suitable mounting arrangements, as per user requirements. Facility for viewing and controlling all the cameras at various other locations, as required shall be provided.
- 4.4 Monitoring at Local Control rooms may be restricted to operation of certain cameras only & system administrators should be able to configure the system, accordingly. More than one Local Control rooms may be required in the proposed system with individual configuration.

- 4.5 Each control room may have one or more Operators simultaneously using the installed Video monitors/Video wall. Operator control on cameras shall be a static basis or rotary basis depending on the policies to be decided at site.
- 4.6 There shall be a Control System with Video Control Software to manage all the video surveillance devices.
- 4.7 Database Server shall keep track of all configurations & events for proper System administration & management of redundancies etc.
- 4.8 Video stream from individual cameras shall be recorded on Server & subsequently archived to NAS box /RAID backup device (System shall have provision to automatically over-write the new information after the period of 30/31 days & necessary script/algorithm must be available in the Application).
- 4.9 Authorized workstations in LAN should be provided with software to view and control the cameras, encoders and retrieve and recorded video images from the NVR/CAMERA SERVER /NAS /Raid backup device seamlessly.

5. Video Surveillance Application Software:

- 5.1 The software shall operate on open architecture for integration with perimeter safety, access control, PA and fire/safety systems based on open standards.
- 5.2 Digital video surveillance control software should be capable to display and manage the entire surveillance system. It should be capable of supporting variety of devices such as cameras, video encoders, video decoders, PTZ controller, NVR, NAS boxes/Raid backup device etc.
- 5.3 The software should have inbuilt facility to store configuration of encoders / decoders and cameras.
- 5.4 The software should Support flexible 1/2/4 Windows Split screen display mode or scroll mode on the PC monitor or on preview monitor as per the requirement.
- 5.5 The software should be able to control all cameras i.e. PTZ control, Iris control, auto/manual focus, and color balance of camera, Selection of presets, Video tour selection etc.
- 5.6 The software is required to generate reports of stored device configuration. The control software is required to provide alarm and alarm log. The log shall be able to be achieved, printed and displayed using device filter, a device group filter and / or a time window.
- 5.7 The software should have user access authority configuration on per device or per device group basis. The user shall have the facility to request the access of any camera and can control the camera for a reservation period. Control of camera is released after the reservation period.
- 5.8 The system shall provide User activity log (audit trail) with user ID, time stamp and action performed etc.
- 5.9 The administrator should be able to add, edit & delete users with rights. It shall be possible to view ability/rights of each user or the cameras which can be viewed & controlled as per the permission assigned by the administrator.

- 5.10 The users should be on a hierarchical basis as assigned by the administrator. The higher priority person can take control of cameras, which are already being controlled by a lower priority user. There should be minimum 3 hierarchical levels of security for providing user level log in.
- 5.11 It should have recording modes viz., continuous, manual or programmed modes on date, time and camera-wise. All modes should be disabled and enabled using scheduled configuration. It should also be possible to search and replay the recorded images on date, time and camera-wise. It should provide onscreen controls for remote operation of PTZ cameras. It should have the facility for scheduled recording. Different recording speeds (fps) and resolution for each recording mode for each camera should be possible.
- 5.12 It should provide programmable motion detection and recording, to be defined area-wise. System must be able to support video motion detection algorithms to detect and track objects, Learn the scene, Adapt to a changing outdoor environment, Ignore environment changes including rain, hail, wind, swaying trees and gradual light changes.
- 5.13 The setting shall be individually configurable for each alarm and each camera pre-record duration. This shall allow the CAMERA SERVER to capture video prior to the alarm/event, as well as after the alarm/event. Shall be selectable from a list of values ranging between 0 seconds and 5 minutes.
- 5.14 The software for clients should also be working on a browser based system for remote users. This will allow any authorized user to display the video of any desired camera on the monitor with full PTZ and associated controls.
- 5.15 **Retrieval:** The CCTV application should allow retrieval of data instantaneously or any date / time interval chosen through search functionally of the application software. In case data is older than 30 days and available, the retrieval should be possible. The system should also allow for backup of specific data on any drives like CD/DVD/Blue ray Recorders or any other device in a format which can be replayed through a standard PC based software. Log of any such activity should be maintained by the system which can be audited at a later date.
- 5.16 **Backup:** Online backup should be maintained to protect against storage failure.
- 5.17 **Storage:** Data storage should be at a central location. The capacity of the storage should be equal to 30 days of recording of all cameras. The system should follow FIFO on recording.
- 5.18 **Artificial Intelligence:** It shall have image tracking facility. (**Optional**)

DETAILED TECHNICAL SPECIFICATIONS

6.1 PTZ IP IR Camera:

Image Device	Interline transfer 1/4" or better format CCD sensor
Focal Length	4 mm to 72 mm or better (for Artificial Intelligence Cameras with better focal length i.e. 3.5 mm to 91 mm to be used)
Optical zoom (for Indoor Camera)	18 X or better
Optical zoom (for Outdoor Camera)	26 X or better
Resolution	Full HD 1080p

Illumination (for Indoor Camera)	1.0 Lux (Color), 0.1 Lux (B/W) or better
Illumination (for Outdoor Camera)	1.0 Lux (color), 0.05 Lux (B/W) or better
Pan Travel	360 degree continuous
Tilt Travel	0-90 degree
Manual Tilt Speed	0.5 degree/SEC to 90 degree /SEC
Manual Pan Speed	0.5 degree /SEC to 90 degree/SEC
Preset Tilt Speed	0.5 degree/SEC to 90 degree/SEC
Preset Pan Speed	0.5 degree/SEC to 300 degree/SEC
Preset positions	Min.64
Iris Control	Auto
Focus	Auto
Back Light compensation	Required with black masking or other suitable technology
White balance	Auto
Electronic shutter	Auto
S/N ratio	>= 48 dB
Power Supply	As per OEM's design, however generally AC 230 V @ 50Hz/12V or /POE

6.2 IP IR Bullet color camera:

Image Device	1/3 " or 1/4 " CCD Sensor
Resolution	Full HD 1080p
Min Illumination	0.01 Lux @ F 1.2
S/N Ratio	>=48 dB
Electronic Shutter	Auto
Lens	Built-in Varifocal lens. Auto Iris, Lens f=4-9 mm (approx.)
Backlight compensation	Required
Power Supply	As per OEM's design /POE
Make	Samsung/ hikvision/Panasonic/honeywell

6.3 (Indoor/Outdoor) IP IR Dome color Camera:

Image Device	1/3 " or 1/4 " CCD Sensor
Resolution	Full HD 1080p
Min Illumination	0.01 Lux @ F 1.2
S/N Ratio	>=48 dB
Electronic Shutter	Auto
Lens	Built-in Varifocal lens. Auto Iris, Lens f=4-9 mm (approx.)
Backlight compensation	Required
Power Supply	As per OEM's design /POE
Make	Samsung/ hikvision/Panasonic/honeywell

***Outdoor Dome Camera: waterproof and other feature as per the site requirement.**

6.4 Camera Housing & Mount:

The Camera mount should be:

- i) Of the same make as that of camera and suitable for the model number offered as specified by the manufacturer and should be an integrated unit.
- ii) Should be compact and indoor/outdoor type as required.
- ii) Should support the weight of camera and accessories such as housing, pan & tilt head in any vertical or horizontal position etc.

6.5 Speed Dome Controller/PTZ Controller:

- i) Speed Dome Controller should have variable speed joystick, LCD display for programming and it should be able to control the speed dome for PAN/TILT/ Zoom.

B. BACKUP AND WORKSTATION:

7. Network attached storage (NAS) / Raid backup device:

7.1 NAS box/RAID backup device shall be used to record video streams based on the configuration assigned by administrator. Workstations & Servers within the LAN should be able to access the recorded video streams. The NAS/RAID backup device should support simultaneously play back and recording at full duplex operation.

7.2 It shall provide Full HD quality recording storage and play back of video images. It should support integration with LAN to provide Centralized Management and shall operate on Windows/Linux OS. Support of user management for security level control and authentication required.

These NAS boxes / RAID backup device should have the followed features and specifications:

Onboard CPU	Dual Intel Xeon R Support up to 2.8 GHz-
Onboard Memory	16 GB DDR 3
HD Drive	As per system required
Host Interface	Dual Gigabit Ethernet
RAID Support	RAID Levels, 0,1, and 5
Network Transport Protocols	TCP/IP
Network File Protocols	CIFS, NFS, HTTP/HTTPS, FTP, SNMP, SMTP, DHCP And DNS
Drive Status / Space Monitoring	Supported
Operating System (OS)	MS Windows OS (latest version) Linux
Power Supply	Hot pluggable Redundant Power Supply

8. Workstation Specification:

CPU	Xeon/ i5 or higher
Mother Board	Intel Original Mother Board
Memory	8 GB DDR3
Hard Drives	2x500 GB or more
Keyboards	Keyboard

Mouse	Optical Mouse with scroll
Video Card	In Built 2 Nos for connecting 2 monitors
RAID	Supported
Network Adapter (NIC)	Integrated 10/100/1000 Base - T
Sound Card	In-Built
DVD Writer	DVD+16x, RW+8x -6x, CDW 48x, Blue Ray
Monitor	24" TFT monitor with speaker
USB 2.0 or fire wire card	2 nos. at front panel
Operating System	MS Windows OS or Linux (latest versions) at the time tender

C. DOOR ACCESS CONTROLLER WITH ACCESSORIES:

9. Door Access Controller:

General Specifications:

- 1.1 Hardware and software of door access controller should integrate with the existing Biometric machine and other IT infrastructure.
- 1.2 There should be direct network connection to the door controller/card reader/finger print reader etc.
- 1.3 PoE should power all the hardware viz., the door contact, the door lock & finger print/card readers, request to exit sensor etc.
- 1.4 Should be able to buffer events or cache access credentials.
- 1.5 All components should be open standards based, upgradable, scalable and replaceable with any other open standards compliant hardware and software.
- 1.6 Different types of door access control devices should be quoted separately so that the types of devices and quantity may be decided based on the location and requirements.
- 1.7 All devices should be connecting in network and the data should be auto synchronize.
- 1.8 In case the main PC of the system fails, controllers and IP-readers shall accept a connection from a laptop in order to diagnose the problem, change settings or control peripheral devices.

2. System requirements for software

- 2.1 The number of cards/users shall be limited only by memory available in hardware.
- 2.2 Minimum 2 type of access per user should be supported i.e card+ finger or PIN (if required).
- 2.3 The software shall support at least 4000 holiday dates and have automatic holiday rescheduling feature.
- 2.4 The software shall have the ability to perform scheduled automatic database maintenance and backup tasks at user selected intervals and ability to configure the amount of history stored in the active database.

- 2.5 The software shall have the ability to produce the following report types: system and alarm event reports, user reports, hardware configuration settings, access level reports, employee time & attendance reports.
- 2.6 The reports shall be available in Adobe PDF and MS Excel formats.
- 2.7 Report filters must be convenient and user friendly: allow operator preview user photos, content of access levels, hardware settings and time zone configuration.
- 2.8 The software shall support an unlimited number of building floor plans or software should be scalable.
- 2.9 Floor plan viewing interface shall have convenient zoom in/out controls by mouse wheel.
- 2.10 The software shall allow operator to conveniently edit floor plans by “dragging and dropping” hardware devices to selected plan areas.
- 2.11 The software shall allow assigning custom icons to each floor plan in order to help operators identify floor plans quickly. The software shall have a wide selection of default icons as well.
- 2.12 The software shall support “full-screen” mode that would take up 100% of the monitor area and prevent operators from starting or accessing any other programs.
- 2.13 All configuration and user changes shall be sent to controller immediately. The software shall display the progress in percent as the changes are being downloaded. The downloading shall be done in background and not affect the normal use of the software in any way.
- 2.14 The floor plans shall display real-time status of system hardware and allow operators to immediately see the effects caused by configuration changes.
- 2.15 Dynamic search function shall be present in all windows of the program: search results shall be narrowed automatically as a key phrase is being entered. I.e. after entering characters “xy” the program shall locate and display all records containing these characters, and after typing in more characters shall refresh the results automatically.
- 2.16 The software shall have the ability to automatically display photos and additional information about users as they enter/exit through doors.
- 2.17 The software shall be available in the official language(s) of the country where it is being installed. If such language is not included in the standard installation, the software shall support user friendly translation method: simply replacing program text directly in the software (“on the fly”), without the need of sending any files to the manufacturer for compiling.
- 2.18 The software shall have a modern interface, attractively designed and convenient to use.
- 2.19 The software shall be adapted for operators who have not received any special training related to management of integrated security systems. Graphical user interface shall be intuitive.
- 2.20 In order to reduce the amount of work done by an operator, the software shall incorporate an option to copy objects: users, doors, floor plans, time schedules, access levels and holidays.

- 2.21 The software shall facilitate integration with other systems of the building.
- 2.22 The software shall have the ability to transfer entry and exit events to HR systems with the purpose of work time calculation.
- 2.23 The software shall store information and provide reports about visitors and appointments.

3. System requirements for Hardware

- 3.1 The hardware shall support open architecture. Communication protocols shall be available to system integrators and software development companies in order to protect end-users from being constrained to a single brand of hardware or software.
- 3.2 The hardware shall support all industry standard readers that output information in Wiegand or Clock/Data formats (up to 128 bits).
- 3.3 There shall be an IP-reader available. The IP-reader shall integrate a contactless card reader and controller in a single body, designed for surface mounting on a wall or a door frame eliminating the need for enclosures.
- 3.4 Each controller and IP-reader shall have a standard RJ-45 network port for communication with software and other controllers.
- 3.5 Controller and IP-reader shall support standard Ethernet 10/100BaseT network and TCP/IP communication protocol.
- 3.6 Systems using Ethernet converters, adapters, or terminal servers that enable network connectivity for legacy controllers by tunneling RS-232/485 serial data over Ethernet shall not be acceptable.
- 3.7 All controllers and IP-readers shall use a 32Bit 100Mhz RISC processor (or better) in order to enable fast execution of advanced functions.
- 3.8 All system parameters including card numbers, PINs, access levels, time schedules, holidays and operations modes shall be stored in controller and IP-reader memory and not affected in case of a power loss.
- 3.9 In case communication with the host PC is interrupted, the controller and IP-reader must have enough memory to store at least 5000 latest events (FIFO buffer).
- 3.10 Operation of controller and IP-reader shall be completely independent of the PC or “Master controller”. Should the PC or the communication link fail, the users should not be affected in any way and all functions should continue working.
- 3.11 Controllers and IP-readers shall have an RS-232/485 communication port that would act as a backup communication channel in case the network connection was interrupted.
- 3.12 Controllers and IP-readers shall have a built-in PoE capability, in order to reduce wiring and provide backup power effectively. PoE feature must comply with the 802.3af standard.
- 3.13 Controllers and IP-readers shall be capable of supplying up to 600mA @ 12VDC to peripheral devices: readers, electric locks, etc.

- 3.14 Controllers and IP-readers shall accept the standard 12VDC power input in case an existing network infrastructure does not support PoE.
- 3.15 In case the main PC of the system fails, controllers and IP-readers shall accept a connection from a laptop in order to diagnose the problem, change settings or control peripheral devices.
- 3.16 In case of an alarm controllers and IP-readers shall initiate communication and provide timely notifications to operators. Hardware that does not initiate communication and needs to be polled frequently will not be acceptable due producing needless traffic on the network and processing load on the PC.

DETAILED TECHNICAL SPECIFICATIONS

S. No.	Description	Specifications
1	Machine (Reader)	User Capacity: 3000 or more Transaction: 1,00,000 or more Built-in USB, RS-232/485, LAN and WLAN communication ports Operating Temp: 0 to 45 degree Celsius Power Supply: 12V DC Card Reader: EM RFID(Proximity), Mifare, HID(Optional) Access Control Interface: 3rd Party electric locks, door sensor, exit/Push Button, Alarm, doorbell. Function: Web-Server, Wi-Fi, GPRS, CDMA Display: Yes (Min 3’’ TFT or better) Supporting Database: Ms-Excel, Text, Ms Access, Ms Sql Server, and Oracle.
2	4-Door Access Controller	4 Door Access Control Panel with onboard TCP/IP, Supports RS 485 Reader with Metal Enclosure & inbuilt Power Supply with Battery Backup.
3	Smart Access Based Access Control Software	The software must have a feature to generate the report according to the fields in database and must be compatible with the existing biometric machine. The software should include all the features to control all the doors or single door according to the site requirements. The software should operate on IP.
5	Electromagnetic Lock	Double Leaf 600 lbs capacity with Power supply with Battery backup Response should be in ms Antirust Surface treatment LED Indicator/ sound Indicator
6	Alarm button/Fire Exit button with hammer.	Alarm button for emergency exit doors with glass-break and hammer.
8	Exit switches Push to exit.	Stainless steel body with steel button
12	L / U Brackets(Optional)	As per the site requirement

D. DISPLAY/MONITOR:

Monitor Display	24 Inches TFT, Non-reflective Screen
Ports	HDMI, VGA, Audio
Power	Standard
Bezel Size	Minimum
Speaker	Inbuilt
Brands	Dell, Samsung, HP, LG

PART – F

(Price Bid Format)

Price bid Format

Name of work: - Design, supply, testing, commissioning and integration of Security Surveillance System at NCR-BSC Campus, Faridabad, Haryana.

Price Schedule 'A'

S.N	Description of items			Qty.	Rate (Rs.)	Amount (Rs.)
	Item name	Model	Make			
01						
02						
03						
04	Labour charges for installation, testing and commissioning of the complete project			Lumpsum		
05	Taxes/custom duty					
	Total cost FOR THSTI, Faridabad					i/c of all taxes.

Stores and Purchase Officer

Important Notes:

- a. The price should be quoted on F.O.R destination basis (i.e FOR THSTI, Faridabad)
- b. The bidder should strictly quote only for the approved brands as mentioned in the BOQ.
- c. The bidder should for all the line items as mentioned in the BOQ.
- d. The make and model number of each line item should be clearly mentioned.

Price Schedule 'B'

PRICE SCHEDULE FOR COMPREHENSIVE MAINTENANCE CONTRACT AFTER WARRANTY PERIOD

1	2	4			5
Item Sl. No.	Brief Description of the Works	Comprehensive Maintenance Contract Cost year wise*.			Total CMC cost for 03 Years
01	“Supply, installation, testing, commissioning and integration with existing LAN network of IP based CCTV Cameras System, Access Control System and its accessories for Security Surveillance System at NCR-BSC Campus, Faridabad, Haryana”	1 st Year	2 nd Year	3 rd Year	

* After completion of warranty period

Note: -

1. The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/service/ operational manual and labour, after satisfactory completion of warranty period may be quoted for next 03 years on yearly basis for complete work.
2. The cost of CMC may be quoted along with taxes applicable on the date of tender opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
3. Cost of CMC may be added for ranking/evaluation purpose.
4. The uptime warranty will be 98% on 24 (hrs) x 7 (days) x 365 (days) basis.
5. The stipulation in technical specification will supersede above provision.
6. The supplier shall keep sufficient stock of spares required during comprehensive maintenance contract period. In case the spares are required to be imported, it would be the responsibility of the supplier to import and get them custom cleared and pay all necessary duties.

PART – G
(Annexures)

APPLICATION FORM

[NOTE: On the letterhead of the applicant including full postal address, email address, telephone no. and fax no.]

Date: _____

To,
The Executive Director
THSTI,
3rd Mile Stone,
Faridabad – 121 001

Sirs,

1. Being duly authorised to represent and act on behalf of (hereinafter referred to as “the Applicant”) and having reviewed and fully understood all the pre-qualification information provided, the undersigned hereby applies to be pre-qualified by yourselves as a tenderer for award of work(s) for supply, installation, testing, commissioning and integration with existing LAN network of IP based CCTV Cameras System, Access Control System and its accessories for Security Surveillance System at NCR-BSC Campus, Faridabad, Haryana.
2. Attached to this letter are copies or original documents defining:
 - (a) the applicant’s legal status
 - (b) the principal place of business
 - (c) the place of incorporation (for applicants who are corporations) or the place of registration and the nationality of the owners (for applicants who are partnerships or individually owned firms)
 - (d) Annexure no. II to VII
3. Your agency and its authorized representatives are hereby authorized to conduct any inquiries or investigations to verify the statements, documents and information submitted in connection with this application, and to seek clarification from our bankers and clients regarding any financial and technical aspects. This letter of application will also serve as authorization to any individual or authorized representative or any institution referred to in the supporting information, to provide such information deemed necessary and requested by you to verify statements and information provided in this application, or with regard to the resources, experience, and competence of the Applicant.
4. Your agency and its authorized representatives may contact the following persons for further information on general, personnel, technical and financial enquiries.
Contact 1 : Name, email and Phone no.
Contact 2: Name, email and phone no.
5. This application is made with the full understanding that:
 - (a) Bids submitted by applicants will be subject to verification of all information submitted at the time of bidding
 - (b) Your agency reserves the right to:
 - amend the scope and value of the contract / bid under this project; in such event, bids will only be called from pre-qualified bidders who meet the revised requirements; and
 - reject or accept any application, cancel the pre-qualification process, and reject all applications without assigning reasons or incurring any liability thereof; and
 - (c) Your agency shall not be liable for any such actions and shall be under no obligation to inform the applicant.
6. The undersigned declares that statements made and the information provided in the duly completed application are true and correct in every detail.

Signed and sealed, Name
For and on behalf of

GENERAL INFORMATION

1.	Name of firm
2	Head office address
3	Telephone Contact
4	Fax E-mail No.
5	Place of incorporation/ Registration Year of incorporation/ registration

Signature and seal of the Authorized Signatory of the bidder

FINANCIAL CAPABILITIES

Financial Year	Annual Turn Over in Indian Rupees (or equivalent to Indian Rupees) as per Audited Balance Sheet
2012-2013	Rs.
2013-2014	Rs.
2014-2015	Rs.

Financial Information in Rs. Equivalent	For year 2010-11	For year 2011-12	For year 2012-13	For year 2013-14	For year 2014-15
1. Total Assets					
2. Current Assets					
3. Total Liabilities					
4. Current Liabilities					
5. Profit before Tax					
6. Profit after Tax					
7. Net Worth					

NOTE : The above data is to be supported by audited balance sheets

1. Attach copies of audited balance sheets duly certified by the chartered accountant for all three years. Audited Balance sheet should mention the membership number of chartered accountant issued by ICAI along with full address.

Signature and seal of the Authorized Signatory of the bidder

**EXPERIENCE OF COMPLETION OF PROJECTS OF SIMILAR NATURE &
COMPLEXITY**

(During last five years ending last day of month previous to the one in which applications are invited)

Sl. No.	Name of work / project and location	Owner or sponsoring organization	Cost of work in Lakhs	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Name and address/ telephone number of officer to whom reference may be made	Remarks

NOTE : Please attach supporting documents (completion certificates along with order copies) for the above information

Signature and seal of the Authorized Signatory of the bidder

ANNEXURE - V

LITIGATION DETAILS (COURT CASES/ARBITRATION)

Year	Name of the work	Name of the Client, with Address	Title of the court Case/Arbitration	Detail of the Court/ Arbitrator	Status Pending/ Decided	Disputed Amount (Current Value, the equivalent) in case of Court Cases/arbitration	Actual Awarded Amount (Rs) in decided Court Cases/arbitration

Signature and seal of Authorized Signatory of bidder

CERTIFICATE FOR SITE INSPECTION

Certified that we.....(Name of bidder) have visited the site on dated..... and assessed the nature and amount of work involved before submitting our offer. We will be able to complete the works within the stipulated time and also certified that we will be able to supply the material/executing the work as per specification to suit the site conditions.

Signature of bidder with Seal & Date

Technical Specification Compliance Sheet

S.N.	Technical Specification along with Make and Model number to be specified	Compliance/Non-compliance (Yes/ No)	Cross Reference no.	Remarks
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
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19				
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21				
22				
23				
24				
25				
26				
27				
28				
29				

Note : The bidders should strictly filled this sheet along with the cross reference no. of the technical literature as attached with the technical bid. In case the compliance sheet is not filled properly or the cross reference number is not mentioned, the bid is liable to be rejected straightaway.

FORM OF AGREEMENT

This Agreement made the _____ day of _____ 2015 _____ between Translational Health Science and Technology Institute (THSTI), Faridabad- Haryana for the entering into work(s) for supply, installation, testing, commissioning and integration with existing LAN network of IP based CCTV Cameras System, Access Control System and its accessories for Security Surveillance System at NCR-BSC Campus, Faridabad, Haryana (hereinafter called "The Employer") who enters into this Agreement of _____ the _____ one _____ part _____ and M/s.....
 (here inafter called "The Contractor") of the other part.

Whereas the Employer is desirous that certain works should be executed by the Contractor, viz _____ ("the Works") and has accepted a Bid by the Contractor for the execution and completion of the works and the remedying of any defects therein.

Now this Agreement witnessed as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz :
 - (a) The Letter of Award;
 - (b) The said Bid;
 - (c) The General Conditions of Contract;
 - (d) Prequalification document
 - (e) Instructions to Tenderers and Specific Conditions of Contract;
 - (f) The Specification;
 - (g) The Drawings;
 - (h) The Priced Bid
 - (i) Any other relevant documents referred to in this Agreement or in the aforementioned documents
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of this work.
4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein the Contract Price or only such other sums as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

In Witness whereof the parties hereto have caused this Agreement to be executed the day and year first before written.

Signed, Sealed, and Delivered by the Said

Binding Signature for and on behalf of THSTI-Faridabad

Binding Signature of Contractor _____

In the presence of

Witness (1) :

Witness (2) :

PROFORMA FOR PERFORMANCE BANK GUARANTEE

(On a stamp paper of appropriate value from any Nationalised Bank or Scheduled Bank)

BG No.: Date:

From The Name of the Bank	To Translational Health Science Technology Institute , 3rd Mile Stone, Faridabad-Gurgaon Expressway, Faridabad – 121001 Phone: +91-129-2876431
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In consideration of the Translational Health Science and Technology Institute, Faridabad (hereinafter called “The INSTITUTE”) having offered to accept the terms and conditions of the proposed agreement between The Institute.....and..... (hereinafter called “the Contractor(s)”) for the work..... (hereinafter called “the said agreement”) having agreed to production of an irrevocable Bank guarantee for Rs..... (Rupees.....only) as a security/guarantee form the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

1. We (hereinafter referred to as the ‘Bank’) hereby undertake to (Indicate the name of the Bank) Pay to the Institute an amount not exceeding Rs..... (Rupees..... only) on demand.
2. We...(indicate the name of the Bank) Do hereby undertake to pay the amounts due and payable under this Guarantee without any demur, merely on a demand from the Institute stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this Guarantee shall be restricted to an amount not exceeding Rs..... (Rupees.....only).
3. We, The said Bank, further undertake to pay to the Institute any money so demanded notwithstanding any disputes raised by the contractor(s) in any suit or proceeding pending before any Court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder, and the contractor(s) shall have no claim against us for making such payment.
4. We (indicate the name of the Bank) further agree that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement, and it shall continue to be enforceable till all the dues of the Institute under or by virtue of the said agreement have been fully paid, and its claims

satisfied or discharged, as per the terms and conditions of the said agreement have been fully and properly carried out by the said contractor(s), and accordingly discharges this guarantee.

5. We.....(Name of the bank)..... further agree with the Institute that the Institute shall have the fullest liberty without our consent, and without effecting in any manner our obligations hereunder, to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Institute against the said contractor(s), and to forbear or enforce any of the terms and conditions relating to the said agreement, and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said not be relieved from our liability by reason of any such variation or extension being granted to the said contractor(s) or for any forbearance, act of omission on the part of the Institute or any indulgence by the Institute to the said contractor(s) 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.
6. This Guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).
7. We(Name of the bank)..... lastly under take not to revoke the Guarantee except with the previous consent of the Institute in writing. This bank Guarantee on the Bank or its successors or permitted assigns.
8. We.....(Indicate the name of the Bank)..... lastly undertake not to revoke this Guarantee except with (indicate the name of the Bank) the previous consent of the Institute extended on demand by the Institute. Notwithstanding anything mentioned above, our liability against this Guarantee is restricted to Rs.....(Rupees.....only), and unless a claim/demand is made on the bank in writing on or beforeall your rights under the Guarantee will be forfeited and we shall be relieved and discharged from all liabilities thereunder.

Authorised Signatories of the Bank with name and Seal

Name of the Officer:

Designation:

Code if any:

Date:

Place