



OSMANIA UNIVERSITY
HYDERABAD – 500007, INDIA

Ten. Not. No.211/DIS/OU/2016/CCTV

Date:24-03-2016

SHORT TENDER NOTICE

In supersession of the Short Tender Notice given vide Tender Notification No. 634/DIS/OU/2015/CCTV, Date: 28-11-2015, sealed tenders are invited from OEMS/authorized dealers/distributors for supply, installation and commissioning of CCTV Cameras at all Colleges, Departments, Centers, Offices, Hostels, Messes and University roads on the OU Campus, Osmania University. Tender bids are accepted upto 3.00 P.M. on 20-04-2016. For further details, please visit the website www.osmania.ac.in.

Sd/-
REGISTRAR



Osmania University
University with Potential for Excellence (UPE)

TENDER DOCUMENT

Tender Reference No:211/DIS/OU/2016/CCTV

REQUEST FOR PROPOSAL (RFP)

FOR

DESIGN, SUPPLY, INSTALLATION, TESTING, COMMISSIONING, TRAINING,
SUPPORT AND MAINTENANCE

OF

IP BASED HD CCTV SURVEILLANCE SYSTEM

AT

OSMANIA UNIVERSITY CAMPUS

MAIN ROAD, HYDERABAD – 500 007

TELANGANA STATE

March 24, 2016

Version: Rel. 1



A. DISCLAIMER

The information contained in this Request for Proposal (RFP) or subsequently provided to Applicants, whether verbally or in documentary or any other form by or on behalf of the Authority or any of its employees or advisers, is provided to Applicants on the terms and conditions set out in this RFP and such other terms and conditions subject to which such information is provided.

This RFP is issued by the Registrar Office of the Osmania University. This RFP is not an agreement and is neither an offer nor invitation by the Authority to the prospective Applicants or any other person. The purpose of this RFP is to provide interested parties with information that may be useful to them in the formulation of their Proposals pursuant to this RFP. This RFP includes statements, which reflect various assumptions and assessments arrived at by the Authority in relation to the CCTV Surveillance System solutions. Such assumptions, assessments and statements do not purport to contain all the information that each Applicant may require. This RFP may not be appropriate for all persons, and it is not possible for the Authority, its employees or advisers to consider the objectives, technical expertise and particular needs of each party who reads or uses this RFP. The assumptions, assessments, statements and information contained in this RFP, may not be complete, accurate, adequate or correct. Each Applicant should, therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments and information contained in this RFP and obtain independent advice from appropriate sources.

Information provided in this RFP to the Applicants is on a wide range of matters, some of which depends upon interpretation of law. The information given is not an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. The Authority accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on the law expressed herein.

The Authority, its employees and advisers make no representation or warranty and shall have no liability to any person including any Applicant under any law, statute, and rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this RFP or otherwise, including the accuracy, adequacy, correctness, reliability or completeness of the RFP and any assessment, assumption, statement or information contained therein or deemed to form part of this RFP or arising in any way in this Selection Process.

The Authority also accepts no liability of any nature whether resulting from negligence or otherwise however caused arising from reliance of any Applicant upon the statements



contained in this RFP. The Authority may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumption contained in this RFP. The issue of this RFP does not imply that the Authority is bound to select an Applicant or Applicants, as the case may be, for the selection of CCTV Surveillance System solutions and the Authority reserves the right to reject all or any of the Proposals without assigning any reasons whatsoever.

The Applicant shall bear all its costs associated with or relating to the preparation and submission of its Proposal including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by the Authority or any other costs incurred in connection with or relating to its Proposal. All such costs and expenses will remain with the Applicant and the Authority shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by an Applicant in preparation or submission of the Proposal, regardless of the conduct or outcome of the Selection Process.



Table of Contents

| | | |
|-------|---|----|
| A. | DISCLAIMER..... | 2 |
| 1. | DEFINITIONS..... | 7 |
| 2. | TENDER NOTICE | 9 |
| 3. | TENDER SCHEDULE..... | 11 |
| 4. | IMPORTANT INFORMATION | 12 |
| 5. | BID SUBMISSION PROCEDURE | 13 |
| 5.1. | REJECTION CRITERIA | 14 |
| 5.2. | PRE-BID QUERIES | 15 |
| 6. | SECTION – I..... | 16 |
| 6.1. | PRE-QUALIFICATION CRITERIA..... | 16 |
| 6.2. | SCOPE OF WORK | 18 |
| 6.3. | GENERAL TERMS & CONDITIONS..... | 21 |
| 6.4. | PROJECT IMPLEMENTATION | 23 |
| 6.5. | AUTHENTICATION OF BID | 24 |
| 6.6. | FINAL ACCEPTANCE TEST (FAT)..... | 25 |
| 6.7. | AMENDMENT TO TENDER DOCUMENT..... | 25 |
| 6.8. | SCOPE OF WORK VARIATION | 26 |
| 6.9. | PRE-PROPOSAL VISIT TO THE SITE FOR INSPECTION | 26 |
| 6.10. | PRE-BID MEETING | 26 |
| 6.11. | SUBMISSION OF BIDS | 26 |
| 6.12. | OFFICIAL WEBISTE..... | 26 |
| 6.13. | CONFLICT OF INTEREST | 27 |
| 6.14. | LATE BIDS | 27 |
| 6.15. | OPENING OF TECHNICAL BIDS | 27 |
| 6.16. | ANNOUNCEMENT OF BIDS..... | 27 |
| 6.17. | BIDS NOT CONSIDERED FOR EVALUATION | 27 |
| 6.18. | CLARIFICATION OF BIDS..... | 27 |



| | | |
|-------|---|----|
| 6.19. | OPENING OF FINANCIAL BIDS | 28 |
| 6.20. | COMPLETENESS OF BIDS | 28 |
| 6.21. | RECITIFICATION OF ERRORS | 28 |
| 6.22. | REJECTION OF BIDS | 28 |
| 6.23. | VALIDITY OF BIDS | 29 |
| 6.24. | UNDERTAKING FOR REASONABLENESS | 29 |
| 6.25. | ENQUIRIES AND CLARIFICATIONS | 29 |
| 6.26. | LANGUAGE OF THE BID | 30 |
| 6.27. | RIGHT TO TERMINATE | 30 |
| 6.28. | DELIVERY OF SUPPLY | 30 |
| 6.29. | INSPECTION OF SUPPLY | 31 |
| 6.30. | INDEMNITY CLAUSE | 31 |
| 6.31. | PROJECT COMPLETION | 31 |
| 6.32. | ON-SITE WARRANTY | 32 |
| 6.33. | SERVICE LEVEL AGREEMENT (SLA) | 32 |
| 6.34. | EARNEST MONEY DEPOSIT (EMD) | 34 |
| 6.35. | ON-SITE TRAINING | 34 |
| 6.36. | DELIVERY | 35 |
| 6.37. | LIQUIDATED DAMAGES | 35 |
| 6.38. | ARBITRATION | 36 |
| 7. | COMMERCIAL TERMS AND CONDITIONS | 37 |
| 7.1. | PAYMENT TERMS | 37 |
| 7.2. | PERFORMANCE SECURITY DEPOSIT | 37 |
| 7.3. | PRICES | 37 |
| 8. | DOCUMENTS SUBMISSION WITH TECHNO-COMMERCIAL BID | 39 |
| 9. | ACCEPTANCE OF TENDER | 39 |
| 10. | TECHNICAL EVALUATION | 40 |
| 10.1. | TECHNICAL DEMO/PROOF-OF-CONCEPT (POC) SETUP | 41 |
| 10.2. | COMMERCIAL BID EVALUATION | 42 |
| 10.3. | TOTAL BID CALCULATION | 43 |



| | | |
|-------|---|----|
| 10.4. | BID EVALUATION..... | 43 |
| 11. | OPERATION & MAINTENANCE TEAM | 44 |
| 12. | ANNEXURE – 1..... | 46 |
| 12.1. | BID COVER LETTER | 46 |
| 12.2. | COMPANY PROFILE | 47 |
| 12.3. | FINANCIAL DETAILS – ANNUAL TURNOVER DETAIL..... | 49 |
| 12.4. | CCTV PROJECT IMPLEMENTATION EXPERIENCE..... | 49 |
| 12.5. | FORMAT OF IRREVOCABLE PERFORMANCE GUARANTEE | 50 |
| 12.6. | FORMAT FOR AUTHORIZATION LETTER FROM OEM | 54 |
| 12.7. | FORMAT FOR UNDERTAKING..... | 55 |
| 13. | ANNEXURE – 2 : BILL OF QUANTITY (BOQ) DETAILS | 56 |
| 13.1. | LOCATION-WISE CAMERA REQUIREMENT..... | 56 |
| 13.2. | BILL-OF-QUANTITY (BOQ) FOR CCTV SYSTEM AT OU CAMPUS | 59 |
| 13.3. | IMPORTANT POINTS FOR SYSTEM DESIGN AND BID PROPOSAL..... | 62 |
| 14. | ANNEXURE – 3 : TECHNICAL DETAILS..... | 63 |
| 14.1. | COMPONENT APPROVED MAKES | 63 |
| 14.2. | IP BASED HIGH MEGAPIXEL FIXED DOME INDOOR CAMERA..... | 64 |
| 14.3. | IP BASED HIGH MEGAPIXEL BULLET / BOX FIXED OUTDOOR CAMERA | 65 |
| 14.4. | IP BASED HIGH MEGAPIXEL DOME PTZ CAMERA | 66 |
| 14.5. | EDGE LEVEL NETWORK SWITCH..... | 67 |
| 14.6. | AGGREGATION (CORE)/CONTROL ROOM SWITCH (L3 MANAGEABLE)..... | 68 |
| 14.7. | UPS 10 KVA AT CONTROL ROOM | 69 |
| 14.8. | OTHER CRITICAL COMPONENTS | 70 |



1. DEFINITIONS

| TERM | DESCRIPTION |
|----------------------|--|
| AUTHORITY | Refers to the Client. In this case, Registrar, Administrative Building, Osmania University |
| APPLICANT / BIDDER | The use of the term “Applicant” in the tender means the Single Service Provider / firm or the Lead Member of the consortium of firms not exceeding two. Applicant / Bidder is having same connotation and referred interchangeably where applicable. |
| AGREEMENT / CONTRACT | The Agreement entered between Authority and the System Integrator including all attachments, schedules, annexure thereto and all documents incorporated by reference therein and all amendments, corrigendum changes thereto. |
| BID DOCUMENT | Tender Proposal submitted by the Applicant |
| CCTV | Closed Circuit Television – Use of video cameras to transmit a video signal onto a set of display devices |
| CONSORTIUM | The consortium consist of multiple members (not more than 2 including the Lead Applicant/Lead Bidder) entering into a Consortium Agreement for a common objective of satisfying the Authority requirements and represented by Lead Member of the Consortium. |
| EMD | Earnest Money Deposit |
| PSD | Performance Security Deposit |
| FAT | Final Acceptance Test |
| HDPE | High Density Polyethylene |
| OU | Osmania University |
| INR | Indian Rupee |
| IP | Internet Protocol |
| IR | Infra-Red |
| UL | Unified License |
| FCC | Federal Communications Commission |
| CE | Conformite Europeenne |
| NVR | Network Video Recorder |
| PTZ | Pan Tilt Zoom. The PTZ camera that is capable of remote multi directional and zoom control |
| RFP | Request For Proposal |
| SLA | Service Level Agreement |
| OU WEBSITE | www.osmania.ac.in |
| PoC / DEMO | Proof-of-Concept / Demonstration of the Solution – The Applicant should install the complete system as per the PoC/Demo scope as |



| | |
|----------------------------------|---|
| | defined in this document to demonstrate the systems features meeting to the satisfaction of the Authority. |
| SITE | The site is either main roads / road junctions / Offices / Hostels / Colleges / Institutes etc., where one or more cameras are deployed. |
| LOCATION | The Location is the exact point of the each camera installed at every site. |
| UPS | Uninterrupted Power Supply |
| VMS | Video Management Software |
| CC&C | Command & Control Center – The location of the CC&C is at Administrative Building, OU Campus where the convergence of networking and CCTV system exists |
| DEPARTMENT VIEWING CENTERS (DVC) | The DVC are situated at each Principal of the colleges in the OU Campus where the Live video feed is provided for the CCTV cameras installed in the jurisdiction of the college area. |



2. TENDER NOTICE

OU Invites sealed bids in three-stage bid process for the Design, Supply, Installation, Testing, Commissioning, Support and Maintenance of IP Based CCTV surveillance Systems at Osmania University Campus, Hyderabad; Telangana.

- i) The tender shall be in the prescribed Forms as provided in the Annexures. Applicant is eligible to submit only one tender for the project. The Applicants shall be qualified those who meet the criteria and the terms and conditions mentioned in this tender document.
- ii) Applicants are advised to inspect and examine the site/campus during working hours as per the dates provided in Tender Schedule and satisfy themselves before submitting their tenders as to the nature of the site. Applicant shall be deemed to have full knowledge of the site, whether inspects it or not and no extra charges consequent on the many misunderstanding or otherwise shall be allowed.
- iii) Tender document part shall include all the documents duly filled, page numbered, signed and sealed in all the pages. The Applicant shall sign each page of document as an evidence of conformity to the requirements. Only relevant information should be enclosed in the bid.
- iv) The entire works are to be completed as per the project milestone from the seventh day of award of contract. This period shall be reckoned from the seventh date of issue of Award of Contract. The work has to be carried out as per the specifications and tender document conditions.
- v) Bids are invited in the sealed tenders in a three bid systems for the deployment of IP based CCTV surveillance Systems at Osmania University Campus, Hyderabad from established, experienced and reliable system integrator / solution provider firms in the field of security and surveillance domain.
- vi) The participating Applicants should submit two sets of their bids in “Original” and “Duplicate”. The each set of Bid should be sealed in two separate sealed covers marked as “OU Techno-Commercial Bid”
- vii) Tender document will be published on the OU website where interested bidders are advised to download the document.
- viii) At any time prior to the deadline for submission of bids, the Authority for any reason, whether at its own initiative or in response to the clarifications requested by prospective Applicants may modify the tender document by amendment not after three days before the submission of bids deadline. Corrigendum/Addendum to this tender if any will be published on the OU website from time to time.
- ix) The responsive Applicant is one who submits priced tender and accepts all terms and conditions of the specifications and contract documents without any modifications. The Tender shall submit a responsive bid, failing which the tender will be liable to be rejected.
- x) The Authority reserves the right to reject any or all the tenders, in part or full, without



assigning any reason thereof.

- xi) The evaluation of bids is based on the Organization capabilities, technical proposal, technical PoC/Demo, their past experiences and commercial bid. The selected Applicant based on the final evaluation rating would be announced by the Authority. The Accepting Authority shall be the sole judge in this regard.

Registrar,
Osmania University
Administrative Building, OU Campus,
Hyderabad – 500 007,
Telangana,India.



3. TENDER SCHEDULE

| PARAMETER | DESCRIPTION |
|---|---|
| Tender Reference No. | 211/DIS/OU/2016/CCTV |
| Name of Work | Supply, Install, Commission, Test, Deploy, Support and Maintain of IP Based HD CCTV surveillance Systems at Osmania University Campus, Hyderabad, Telangana State |
| Date of Tender Available on website | 24-Mar-2016 |
| Date of Site Visit | 31-Mar-2016 at 10.00 am |
| Last Date of Submission of Pre-Bid Queries (Only through email) | 4-Aprl-2016, by 3:00 pm |
| Date of Pre-Bid Conference | 12-Aprl-2016 at 3:00 pm |
| Reply to Pre-Bid Queries | 13-Aprl-2016 |
| Date & time submission of Bids | 20-Aprl-2016 by 3:00 pm |
| Opening of Pre-Qualifications | 20-Apr-2016 at 3:30 pm |
| Opening of Technical Qualifications | 21-Apr-2016 at 3:30 pm |
| Start Date of Technical Demo/PoC | 21-Apr-2016 at 3:30 pm |
| End Date of Technical Demo/PoC | 23-Aprl-2016 by 5:00 pm |
| Opening of Financial Bid | Will be announced later |
| Final Bidder Selection | Will be announced later |
| LOI for Selected Bidder | Will be intimated later |
| Contract signed by selected Bidder | Within 7 working days from the date of Selected Applicants Announcement |
| Project Completion (Expected Date) | As per project milestone from 7 th date of Issuance of Award of Contract |
| Method of Selection | Quality and Cost Base Selection (QCBS) The weights given to Technical and Commercial as 70% and 30% respectively |
| Bid Submission Address | Registrar Office, Administrative Building, Osmania University Campus, OU, Hyderabad – 500 007, Telangana, India |
| Place of Opening for Pre-Qualification, Technical & Commercial Bids | Registrar office, Administrative Building, Osmania University Campus, OU, Hyderabad – 500 007, Telangana State, India |
| E-mail ID for communication | registrar@osmania.ac.in ’; director_is@osmania.ac.in |



4. IMPORTANT INFORMATION

| # | PARTICULARS | DESCRIPTION |
|----|--|--|
| 1 | RFP Document Fee | ₹. 5,000 (Rupees Five Thousand Only) paid through DD from any Nationalized / Scheduled Bank in favor of “Registrar, Osmania University, Hyderabad” |
| 2 | Earnest Money Deposit (EMD) | ₹. 25,00,000 (Rupees Twenty Five Lakh Only) paid through DD from any Nationalized / Scheduled Bank in favor of “Registrar, Osmania University, Hyderabad” |
| 3 | EMD Validity Period | 90 days |
| 4 | Warranty Period | 5 years Comprehensive On-site Warranty from the date of Final Acceptance of the CCTV System by Authority |
| 5 | Bid Pricing | Negotiable |
| 6 | Performance Security Deposit | 10% of Contract Value through Demand Draft/Irrevocable Performance Bank Guarantees per the format provided in this document in favor of “Registrar, Osmania University”, Hyderabad |
| 7 | Reference Details | Should be mentioned “Tender Reference No. and Name of the Company” on the back side of the instrument. |
| 8 | Bid Validity | Proposals must remain valid up to 180 days from the actual date of submission of the Bid |
| 9 | Currency | Currency in which the bidders may quote the price and will receive payment in INR only |
| 10 | Furnishing Performance Security Deposit | Within 7 days from the date of receipt of Notification of Award. |
| 11 | Performance Security Deposit validity period | 60 days beyond Warranty Period |
| 12 | Period of signing the contract | Within 7 days from date of receipt of Notification of Award. |

NOTE:

- The tender notice, clarifications / corrigendum, notifications etc., will be published on the website <http://www.osmania.ac.in>.



5. BID SUBMISSION PROCEDURE

The Applicant shall submit the following envelopes:

| ENVELOP # | SEALED ENVELOP COVER MARKED AS | ENVELOP CONTENT |
|-----------|---|--|
| 1 | RFP Document Fee; and Earnest Money Deposit (EMD) | i) RFP Document Fee - DD ii) EMD - DD |
| 2 | Pre-Qualification Bid Proposal | i) One duly bound Original Hard Copy; ii) One duly bound Duplicate Hard Copy; iii) One Soft Copy (CD/DVD) contains: a) Bid covering letter with list of contents b) Bid proposal along with supporting documents |
| 3 | Technical Bid Proposal | i) One duly bound Original Hard Copy; ii) One duly bound Duplicate Hard Copy; iii) One Soft Copy (CD/DVD) contains: a) Bid covering letter with list of contents b) Bid proposal c) Unpriced Commercial Bid (Mask the prices) |
| 4 | Commercial Bid Proposal | i) One duly bound Hard copy of the Commercial bid / proposal along with commercial bid cover letter |

NOTE:

- i) Each above individual envelopes should be sealed, signed and placed in a single sealed envelope super-scribing the Tender reference no.; Name of the project ("RFP for Design, Supply, Install, Test, Commission, Training, Support and Maintenance of CCTV Surveillance System at Osmania University Campus"); Bidders Name and Address.
- ii) The envelope has to be delivered to the address as provided in the Tender Schedule.
- iii) Each copy of each bid should be marked as "Original" OR "Duplicate" as the case maybe.
- iv) Prices should not be included in the Pre-qualification Bid or Technical Bid but should be indicated only in the commercial bid in the corresponding envelope.
- v) All the pages of individual Bid must be sequentially numbered and attested by the Company's Authorized person duly signed.
- vi) The Applicant must ensure that the information furnished on CD/DVD is identical to that of Bid submitted.
- vii) Failure to submit Bid on time could cause a Bid to be rejected.



- viii) The Authority will not accept delivery of Bid by fax or e-mail.
- ix) Bids will be opened in three stages as per the Tender Schedule:
 - a) Stage-1 : Envelope 1 (RFP Document Fee & EMD) and Envelope 2 (Pre-qualification Bid)
 - b) Stage-2 : Envelope 3 (Technical Bid)
 - c) Stage-3 : Envelope 4 (Commercial Bid)
- x) The proposals will be opened by the Authority in the presence of representatives of the Applicant who may be present at the time of opening.
- xi) The representatives of the Applicant are advised to carry the identity card or a letter of authority from the Applicant firm to identify their bonafide for attending the opening of the proposal.
- xii) The venue, date and time for opening the Pre-qualification bid are mentioned in the Tender Schedule.
- xiii) The Technical Bids of only those Applicants will be opened who clears the Pre-qualification stage.
- xiv) The Commercial Bids of only those Applicants will be opened who scores equal or more than qualifying marks in the Technical Bid.
- xv) The date and time for opening of Commercial Bid would be communicated to the qualified Applicants.
- xvi) The Authority reserves the right to accept or reject any or all tenders without assigning any reason.

5.1. REJECTION CRITERIA

The Bids may be rejected under the following criteria:

- If they are conditional Bids;
- If the information provided by the Applicant is found to be incorrect / misleading / fraudulent at any stage / time during the Tendering process.
- If any influence on the Authority or otherwise by the Applicant that impacts the decision making process.
- If the Bids received beyond the prescribed date & time for receipt of Bids;
- Bids without signature of the person(s) duly authorized on required pages of the Bid
- Failure to furnish all information requirement by the Tender document or submission of a bid not substantially response to the tender requirement.
- Applicant not quoting the complete scope of work as indicated in the tender documents, addendum and any subsequent information given to the Applicant.
- The Applicant not confirming unconditional acceptance of full responsibility of providing services in accordance with the scope of work and Service Level Agreements of this Tender.
- If the Bids not complying with the Eligibility Criteria of Pre-qualification and Commercial details as per the RFP document.



- If the Technical Bid contains the commercial details.
- If the Commercial Bid is incomplete and that do not conform to the Tender price bid format.
- Total price quoted by the Applicant does not include all statutory taxes and levies applicable.
- If there is an arithmetic discrepancy in the commercial bid calculations, the technical committee shall rectify the same. If the Applicant does not accept the correction of the errors, its Bid may be rejected.

5.2. PRE-BID QUERIES

The pre-bid queries should necessarily be submitted in the following format by the Applicant. The queries should be emailed in an excel sheet as per the format to registrar@osmania.ac.in; director_is@osmania.ac.in.

| # | Section / Clause | Page No. | Content of the RFP requiring clarification | Clarification Sought |
|---|------------------|----------|--|----------------------|
| | | | | |
| | | | | |



6. SECTION – I

6.1. PRE-QUALIFICATION CRITERIA

The Applicant should submit the necessary information with the supporting documents along with the Bid as provided in the table below:

| # | Description | Supporting Documents |
|---|---|--|
| 1 | The Applicant (all the members in case of consortium) must be a registered company in India, registered under the Company Act, 1956. The Applicant is operating in Hyderabad for the last 3 years as on March 31, 2015. | The Applicant (all the members in case of consortium) should submit <ul style="list-style-type: none"> • Copy of Certification of Incorporation. • Audited Financial Statements for last 3 years. • VAT/Sales/Service Tax Registration Certificates • PAN card |
| 2 | In case of consortium, the Applicant consortium shall submit a valid agreement among the members. The agreement shall clearly specify the details of Lead Member and other consortium members, outline the financial strengths, technical strengths and the role and responsibility of each of the members of the consortium. The maximum number of members allowed in a consortium is Two (2) including Lead Member | <ul style="list-style-type: none"> • Valid agreement should be executed on INR 100 Stamp Paper concluded among all the members of the consortium duly stamped and signed by the Authorized Signatories of the companies under consortium dated prior to the submission of the Bid. |
| 3 | The Applicant should have overall revenue (gross income) an average of ₹. 15 Crores from CCTV Surveillance (safety and security)/IT/Telecom business in the last 3 financial years as on March 31, 2015. In case of consortium partner should have average annual revenue (gross income) of INR 1.0 Crore should be from CCTV Surveillance (Safety & Security)/IT/Telecom domain in last 3 financial years as on March 31, 2015. | The Applicant (all the members in case of consortium) should submit: <ul style="list-style-type: none"> • Copy of audited Profit & Loss Statements for each of the last 3 financial years as on March 31, 2015 • Certificate from the statutory auditor stating the income from the Safety & Security Technology business • Copy of audited balance sheet of the company for the last 3 years. • Certification from the statutory auditor stating the net worth. |
| 4 | The Applicant (including consortium partners) should have cumulative positive | |



| | | |
|---|---|---|
| | net profit in the last 3 years as on Financial Year March 2015 | |
| 5 | The Applicant (Lead Member) should have experience in IP Based High Definition CCTV surveillance project with minimum of 150 cameras for completed / installed in ongoing projects. | <ul style="list-style-type: none"> • Work Orders & Invoices reflecting the Client name, Quantity of IP HD cameras and other CCTV system details • Completion & satisfaction certificate from the client for all the completed projects. |
| 6 | The Applicant should have experience in IP Based High Definition CCTV surveillance project involving integration with Central Command and Control Center and executed at least one project with a minimum of 50 cameras in outdoor / City surveillance in government / public sector organizations. | <ul style="list-style-type: none"> • Certificate stating the progress of the project for the ongoing projects. |
| 7 | The Applicant (all members in case of consortium) should not have been blacklisted by Central or any state Government in India as on date of bid submission. | Self-Declaration by the Applicant (including consortium partner) duly signed by the authorized signatory. |

INSTRUCTIONS ON CONSORTIUM AGREEMENT

- i) In case of consortium, Lead Members shall be liable and responsible for the work of all the consortium members while other consortium members shall be liable and responsible for their scope of work. The Applicant (including consortium) partners cannot be part of multiple bids.
- ii) The “Consortium Agreement” is a legal binding document that would be submitted by the parties where the charter and terms & conditions are clearly defined with roles and responsibilities and signed by multiple parties involved.
- iii) The Agreement should clearly mention the “Lead Applicant/Bidder” with defined roles & responsibilities to perform business as per the charter and scope of the project. In case of consortium, the “Lead Applicant/Bidder” should have at least 51% of the average turnover in the last 3 years as per above pre-qualification criteria.
- iv) The Authority decision is final and binding and no further communication is entertained in case of any discrepancies or incompleteness observed.
- v) The “Lead Applicant/Bidder” should necessarily be an authorized signatory to perform business transactions. Henceforth referred as “Lead Applicant/Bidder/Lead Member of the consortium” interchangeably who performs the business transactions on behalf of Consortium Parties.



- vi) Consortium parties are allowed only ONE entry for this project as part of this consortium agreement. No submission of separate bids allowed by parties in this consortium agreement. This clause should be reflected in the Consortium
- vii) In case of any conflicts within Consortium parties, “Lead Applicant/Bidder” would be responsible to continue providing the services during the project timelines and warranty period.

6.2. SCOPE OF WORK

The following is the scope of work to enable the deployment of CCTV System at all the sites as per the tender document.

- a) The scope of the project involves Design, Supply, Install, Commission, Test, Deploy and Warranty support & maintenance of IP based High Definition CCTV System equipment at different sites and locations in the Osmania University Campus with 5 years comprehensive warranty as defined in this document.
- b) The Applicant is responsible to supply and install the equipment with an appropriate accessories and fixtures where required with a 30-day storage retention. It also includes connecting to the CC&C and DVC at each of the sites. Each site installation should be connected to the backbone to access from CC&C and DVC.
- c) The requirement calls for a complete working system up to the satisfaction of the Authority and the components thereof. Bids must be complete with all equipment, required accessories and fixtures along with necessary power systems including video connectors, mounting and fitting hardware, plugs, sockets, and any hardware/software, supply of cables, laying cables in suitable conduits, necessary excavation, network components, civil, electrical, and mechanical works etc, as required for complete deployment of the system under this contract.
- d) The CCTV system consists of indoor & outdoor cameras with relevant equipment at Edge, CC&C and DVC level. The CCTV system is meant for day/night viewing and recording, Applicant is responsible to provide clear night vision videos where the object is visible and clearly identified. It is in the scope of the Applicant to provide clarity & quality of the night images for object visibility. As an example, it should be possible to see the person face in complete darkness.
- e) The CCTV system should capture the live video stream, store, retrieve and analyze video images to enable surveillance & monitoring thus increase operational efficiency. The CCTV system should have the motion detection enabled on all cameras to minimize the storage space when there is no movement in the night at each of the sites.
- f) The technical specifications mentioned in this document are the minimum suggestive specifications. The Applicant not meeting these minimum suggestive technical specifications are liable to be rejected.



- g) The equipment should tolerate the local power supply spikes and fluctuations in all weather conditions and the environment where the equipment is installed. The Applicant should take the extra precautions to withstand their equipment to the external environmental conditions of the location.
- h) It is the responsibility of the Applicant to ensure an adequate power with earthing system where required to the CCTV as per the site requirements at each of the site. The earthing of the installed equipment would be in the scope of the Applicant.
- i) All the equipment supplied should withstand to the indoor & outdoor rugged and other environmental conditions and conform to standards as mentioned below such as vibration, shock, dust, water, temperature etc.,
- j) Applicant should ensure that the vibrations, shocks or any other operational inconvenience does not exist while using the system. It means stable and quality video images are being streamed without any vibration and disturbance to the stream. Applicant is responsible for the entire infrastructure conforming to the quality / standard norms as part of the scope.
- k) The Authority already established campus-wide underground fiber network backbone covering the large area of the premises. The existing network is being used for their internal internet traffic by each department. It is in the scope of the Applicant to plan additional underground fiber network as extension to the backbone where adequately not covered. The last mile connectivity through underground cabling from the nearest fiber backbone to the camera point is also in the scope of the Applicant. The approximate distance of last mile connectivity details at each camera is provided in the Annexure.
- l) The connectivity between the sites is in the scope of the Applicant, however if any need arises, the Applicant should provide the technical support in case of any third party network service provider for the connectivity. It is the Applicant responsibility to ensure the CCTV system is performing to the satisfaction within each of the site. In case of any connectivity issues between sites arise, the Applicant should jointly work with the third party network service provider for resolution.
- m) The successful Applicant has to supply all the items strictly in accordance with a specification as mentioned in this document.
- n) The Applicant shall act as a single point of contact to organize and manage the entire scope and phases as per the project requirement.
- o) The CCTV system installation includes the installation of cameras for indoor at specified locations inside the site and one or more cameras for outside at the main gate entry/exit and parking area of the site. The camera locations are mentioned in this document, however, the locations at the time of installation may change based on the site requirement at the discretion of Authority.



- p) The Applicant should ensure that the cameras are connected on Power-on-Ethernet (PoE/PoE+) indoor/outdoor wherever possible & feasible. The provision of power source at camera locations, CC&C and DVC are in the scope of the Authority. However, it is the responsibility of the Applicant to plan the necessary equipment; accessories and fixtures for connecting the equipment from power source at every site/location. The monthly recurrence power expenses are in the scope of the Authority.
- q) The Offices of the Vice Chancellor, Registrar and Principals of colleges are the strategic locations where campus students and external people visit these offices (site) for resolution to their incidents/complaints/situations. In order to ensure the process, these locations should be equipped with cameras inside the offices to capture the activities through video stream that is being performed and an external microphone is provided to record the audio for the quality purpose. It is the responsibility of the Applicant to ensure the video and audio streams are captured, synchronized and recorded with high quality.
- r) The camera and microphone installation at these locations in each of the site should be carefully designed and crafted out to be able to record the conversations and video of highest quality. The Applicant should work with the Authority to identify and design the exact location where the video & audio quality is not compromised.
- s) The Applicant is responsible to perform highest quality of workmanship while commissioning the CCTV system with proper routing of cables keeping the aesthetics of the site/location environment intact.
- t) The Applicant should supply the Bill of Quantity at the Authority site within 6 weeks from the date of order released by the Authority.
- u) All the equipment's should be latest and of the prevailing/current standard production of the manufacturer at the time of the proposal.
- v) The successful Applicant is required to supply the latest version of licensed software, providing all the features enumerated in this specification, at the time of award of contract. Equipment must be compatible with other Network vendor equipment. The hardware stack provided by the Applicant must be ONVIF Profile S&G Compliant for camera and Memory Slot and able to be integrated seamlessly with other 3rd party solutions. The system should be able to access to play and download the content from the Memory disk.
- w) The scope includes all necessary software that is needed to the system for its completeness and functional working the system at each of the location.
- x) All the equipment supplied should withstand to the indoor & outdoor rugged and other environmental conditions and conform to latest global standards such as ONVIF Compliant, Equipment certifications as specified etc.,



- y) Applicant should survey and evaluate the site conditions if necessary and is responsible to design the surveillance system including all necessary cabling, wiring and other related accessories including power supply to the equipment.
- z) All the items including spare-parts carry comprehensive on-site warranty of 5 years from the date of handover including installation/commissioning and Authority testing.
- aa) Applicant shall meet the SLAs during the support & maintenance period as mentioned in this document. The calculation for penalties for not meeting the SLA requirement during warranty period is defined in this document.
- bb) Successful Applicant shall carry out the optimal performance test run the complete system with various business cases under the guidance of the Authority to ensure its effectivity and efficiency.
- cc) The Applicant should provide the necessary documentation including the design and technical configurations of the system.
- dd) Successful Applicant should provide training to the team identified by the Authority for operation of the CCTV System and handhold on-job for a minimum week subject to extension of period where required.

6.3. GENERAL TERMS & CONDITIONS

- a) The Applicant should supply the Bill of Quantity at the Authority site within 6 weeks from the seventh date of order issued by the Authority.
- b) The equipment should be latest and of the prevailing/current standard production of the manufacturer at the time of the proposal. The Applicant should ensure that the equipment is not on the verge of retirement for at least 6 years from the date of commissioning of the system.
- c) The successful Applicant is required to supply the latest version of licensed software, providing all the features enumerated in this specification, at the time of award of contract. The Hardware and Software stack provided by the Applicant must be ONVIF Profile S&G complaint and able to integrate seamlessly with other 3rd Party solutions. The ONVIF Profile S&G compliant includes Cameras for main and sub stream as well (dual stream).
- d) The scope includes all necessary software that is needed to the system for its completeness and functional working the system at each of the location. It is Applicant's responsibility to execute system installation showcasing the quality workmanship at every stage of the work. The Applicant's responsibility is to ensure that the cables that are routed are properly tagged and routed through either running through the ducts, channels or underground wherever necessary.



- e) The Applicant is allowed to use the existing underground ducts wherever available and in other places where ducts or channels not available, it is the responsibility of the Applicant to route the cables through the underground. The underground activity should be considered in their plan as most of underground work is involved through soft soil excavation. The Applicant should ensure that the cables are neither hanging, exposed, nor aerial where cables are clearly visible.
- f) The junction boxes or any termination boxes at camera location or at CC&C and DVC should be properly installed at pre-defined location.
- g) The Authority's responsibility is to provide the power source at the camera and control room locations. However, the camera connectivity and system configuration for optimal performance is in the scope of the Applicant. The connectivity of the cameras on the POE/POE+ should be made as much as possible.
- h) The Authority provides the raw power source; the Applicant's responsibility should connect the cameras and other equipment from the nearest power source. The material and equipment needed to connect the power source and stability of the power such as surge, spikes etc., is in the scope of Applicant. However, UPS should be planned in the scope of the Applicant at every location.
- i) The equipment should tolerate the local power supply spikes and fluctuations in all weather conditions and the environment where the equipment is installed. The Applicant should take extra precautions to withstand their equipment to the conditions of the location. It is the responsibility of the Applicant to ensure an adequate power with earthing system where required.
- j) It is the responsibility of the Applicant to design the internal layout of the CC&C, plan and execute the installation of the equipment. The design should be approved by the Authority before installation of any equipment.
- k) Successful Applicant shall carry out the optimal performance test run the complete system with various business cases under the guidance of the Authority to ensure its effectivity and efficiency prior to the Final Acceptance Test (FAT) by the Authority.
- l) The successful Applicant should provide the necessary documentation docket including overall architecture; CAD based Designs showing the cabling routes, location of cameras, network devices, control room equipment; Equipment warranty and technical data sheets; Equipment Asset Listing includes Part & Sub Part Nos, Serial Nos, Make & Model Nos, Date of Make & Warranty, Manufacturer details, Location; Software Licenses; Original Software Media; Certifications; etc., as per the Authority requirement.



- m) The successful Applicant should provide the training to the team identified by the Authority for operation of the CCTV system and handhold on-job for a period as deemed necessary by the Authority.
- n) The warranty period begins after successful handover of the system duly completed and User Acceptance Test is successfully performed and certified by the client.
- o) The handover of the system should accompany relevant technical and functional documentation by the Applicant based on the mutual agreement on the scope of the documentation.
- p) The tender documents submitted by the Applicants shall become the property of the Authority, and it will not have any obligation to return to the Applicants.
- q) When the Purchase Order issued to the successful Applicant, no outsourcing is allowed unless a written request by the Applicant is approved by the Authority.

6.4. PROJECT IMPLEMENTATION

- a) The successful Applicant shall install and implement the proposed system at such sites as mentioned by The Authority within a period of 120 days from the date of seventh day of issuance of Award of Contract by the Authority.
- b) The Authority will appoint Technical-in-Charge of the Project and all inspection, installation, commissioning and acceptance of work will be undertaken by him. All Invoices, Vouchers, Bills for supplied goods and services by the Applicant under the scope of the work will be verified measured and accepted by the Technical-In-Charge and advice to The Authority for release of payment accordingly.
- c) As part of implementation the Applicant shall provide details of equipment that will be incorporated in the proposed system, material and manpower as required. The location for storing spare parts and quantity there on should also be clearly indicated.
- d) In case of the material/solution supplied and installed is rejected owing to its non-conformity to the specification or due to the poor quality of workmanship, the same shall be replaced promptly.
- e) Applicant shall treat all matters connected with the contract strictly confidential and shall undertake not to disclose, in any way, information, documents, technical data, experience and know how, without prior written permission from The Authority.
- f) Any damage caused to the property of The Authority while executing the job shall be solely Applicant's responsibility. In case any damage to the property is caused, the same will be recovered from the Applicant. No any extra cost shall be paid to the Applicant for such reasons.
- g) It is a turnkey project. The Applicant shall be fully responsible for implementing the Project in totality and should include the items and their prices, if not included in Schedule of Requirement to complete the project on turnkey basis. Any claim whatsoever in this regard will not be entertained later on.



- h) In the event of the delay in delivery of contracted services or services are not satisfactory, the Authority may procure goods from else-where as prescribed in bid and Applicant shall be liable without limitations for the difference between the cost of such substitution and the price set forth in the contract for the goods involved i.e. at the risk and cost of the Applicant.
- i) The Applicant should follow the Authority material receipt and store procedure while supplying the consignment. The Authority reserves the right to inspect the material at any given point of time where Applicants responsibility to submit any equipment for inspection. The Authority reserves the right to visit any working site of the Applicant with prior intimation. The concerned Applicant has to make necessary arrangement for the same.
- j) The Applicant is responsible for the entire equipment and any damages or non-conformity is at the risk of the Applicant. The Authority takes the responsibility of the equipment and the system from the successful completion of FAT and completion of handover process done by the Applicant.
- k) The Applicant is required to cover insurance for all the material, manpower till the project is completed. Evidence of such insurance policy copy shall be submitted to the Authority. Apart from this, the Applicant is required to meet all statutory obligations from labour, service tax, and any other government agencies.
- l) All work shall be performed and executed by the Applicant in strict conformity with the engineer- in-charge / Committee of the Authority and any relative instruction issued to the Applicant by the Technical-in-Charge time to time.
- m) The Authority reserves the right to increase, or decrease the item quantities at any stage. The price, payment terms and other general terms & conditions are subject to further negotiations with the qualified and in the descending order of the rank of the Applicants.
- n) The Authority reserves the right to select the final Applicants who have been evaluated based on financial strengths, Technical Experience and capabilities, Demo evaluation and Bid Proposal. The decision of the Authority is binding and final and no further correspondence is entertained.
- o) Notwithstanding anything contained in this document, the Authority, reserves the right to cancel/terminate the bid/proposal process without assigning any reason whatsoever, at any time prior to signing the contract and the Authority shall have no liability for above-mentioned actions.

6.5. AUTHENTICATION OF BID

The hard copy of Bid document shall be signed by a person or persons duly authorized to bind the organization to the Contract. A duly stamped Power-of-Attorney accompanying the Bid Document shall support the letter of authorization. The person or persons signing the Bid Document shall sign all pages of the Bid Document and each page of the Bid document should be properly numbered. Corrections/findings in the



Bid shall be authenticated by signature of the authorized signatory. The Applicants have to abide by all the terms and conditions mentioned in this RFP.

6.6. FINAL ACCEPTANCE TEST (FAT)

Acceptance Test will be conducted in as follows:

- a) The Authority reserves the right to inspect equipment's and material, prior to dispatch. The Applicant should submit the Factory Acceptance Test reports for approval of the Authority. The cost of all such tests shall be borne by the Applicant. If any of the inspected goods fail to confirm to the specifications after installation, the Authority may reject them and the Applicant shall have to replace the rejected goods. In case of inspection waiver, the same shall be obtained before the dispatch of goods. Inspection of rest of material shall be done at site by the Technical-in-Charge/ Committee. Material approval should be obtained before installation.
- b) The first step will involve successful installation of all sites. The provisional acceptance of these sites will be defined as Partial Acceptance.
- c) Final Acceptance Test (FAT): After successful installation of the System in accordance with the requirements as mentioned in Schedule of Requirement, Final Acceptance Test will be conducted. The details of FAT will be jointly decided by the Applicant & the Committee.
- d) The date on which Acceptance certificate is issued shall be deemed to be the date of successful commissioning of the System.
- e) Any delay by the Applicant in the Acceptance Testing shall render the Applicant liable to the imposition of appropriate penalties.

6.7. AMENDMENT TO TENDER DOCUMENT

- a) The tender document at any time prior to the deadline for submission of bids, the Authority for any reason, whether at its own initiative or in response to the clarifications requested by prospective Applicants may modify the tender document by amendment not after seven days before the submission of bids deadline.
- b) The Authority also reserves the right to change any bid condition including technical specifications even after inviting the proposals with/without prior notification.
- c) In order to allow prospective Applicants a reasonable time to take the amendment into account in preparing their bids, the Authority, at its discretion, may extend the deadline for the submission of bids.
- d) All amendments shall be communicated to the Applicant through their email ID as provided by the Applicant.
- e) The Authority may terminate the Tender process and without assigning any reason. The Tender document does not constitute an offer by the Authority.



6.8. SCOPE OF WORK VARIATION

The Authority reserves the right to make changes to the scope of work at the time of execution of the resultant Agreement. If any such change causes an increase or decrease in the cost of, or the time required for the successful Applicant's performance of any part of the work under the Agreement, whether changed or not changed by the order, an equitable adjustment (if required) shall be made in the Contract Value or time schedule, or both, and the Agreement shall accordingly be amended. Any claims by the successful Applicant for adjustment under this Clause must be asserted within thirty (30) days from the date of receipt of the Authority changed order.

6.9. PRE-PROPOSAL VISIT TO THE SITE FOR INSPECTION

The Applicant may visit the Authority's campus and review the site on the proposed date and time and the Applicant should provide at least two day notice to the nodal officer with the number of people and day of visiting the site. There would be no change of date of visit request is permitted.

Contact Person:

Director, (Infrastructure)
Osmania University Campus, Hyderabad.
Email ID: director_is@osmania.ac.in
Mobile No: +91 40 27095192

6.10. PRE-BID MEETING

The date, time and venue of the Pre-Bid Meeting shall be:

Date: 09-Mar-2016

Time: 11:30 am

Venue: Registrar Office,
Administrative Building,
Osmania University, OU Campus, Hyderabad

6.11. SUBMISSION OF BIDS

All communications including the submission of Proposal should be addressed to:

The Registrar,
Administrative Building,
Osmania University, OU Campus
Hyderabad – 500 007.
Email ID: registrar@osmania.ac.in

6.12. OFFICIAL WEBISTE

The Official Website of the Authority is: <http://www.osmania.ac.in>



6.13. CONFLICT OF INTEREST

The Applicant shall not have a conflict of interest that may affect the Selection Process. Any Applicant found to have a Conflict of Interest shall be disqualified. In the event of disqualification, the Acceptance Authority shall forfeit and appropriate the Bid Security as mutually agreed genuine pre-estimated compensation and damages payable to the Authority for the time, cost and effort of the Authority including consideration of such Applicant's proposal.

6.14. LATE BIDS

Any Bid received by the Authority after the deadline for submission of Bids prescribed in this document, will be summarily rejected and returned unopened to the Applicant. The EMD amount will be forfeited by the Applicant for the late bids. The Authority shall not be responsible for any postal delay or non-receipt / non-delivery of the documents. No further correspondence on this subject will be entertained.

6.15. OPENING OF TECHNICAL BIDS

The Authority will open technical Bid as per schedule. The Applicant may depute their representative for the event. The Applicant's representatives who are present shall sign the attendance roll evidencing their attendance. Even if no representative of the Applicant is available, the Bids would be opened as per schedule. In the event of the specified date of Bid opening/presentation being declared a holiday for the Authority, the Bids shall be opened at the appointed time and location on the next working day.

6.16. ANNOUNCEMENT OF BIDS

The Applicant's names, modifications, if any in the Performa and the presence or absence of requisite fees and such other details will be announced at the opening of technical bids. No Bid will be rejected at the stage of Bid opening except for late bids.

6.17. BIDS NOT CONSIDERED FOR EVALUATION

Bids which are rejected during any stage of the Bid evaluation process shall not be considered for further evaluation, under any circumstances.

6.18. CLARIFICATION OF BIDS

To assist in the examination, evaluations and comparison of bids, the Authority may, at its sole discretion, ask the Applicant for clarification on the Bid submitted. The request for clarification and the response shall be in writing by post or email or by facsimile. If the response to the clarification is not received before the expiry of deadline prescribed in the request, the Bid shall be rejected. No representation in this regard would be entertained after rejection of the bid.



6.19. OPENING OF FINANCIAL BIDS

Financial Bids will be opened and compared after the technical evaluation. The financial bids of only technically qualified Applicants will be opened. The name of Applicant, Bid prices, total amount of each Bid, etc. shall be announced by the Authority during opening of financial Bid. The Authority will prepare minutes of the Financial Bid Opening. The date, time and venue of opening of financial Bid will be intimated later through e-mail/phone to the technically qualified Applicants.

6.20. COMPLETENESS OF BIDS

the Authority will examine the Bids to determine whether they are complete, whether they meet all the conditions of the Tender Document and Technical Specifications, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed and whether the Bid Documents are substantially responsive to the requirements of the Tender Document. Information must be furnished in comprehensive manner against each column of Bid Document.

6.21. RECITIFICATION OF ERRORS

Applicants are advised to exercise greatest care in entering the pricing figures. No requests regarding correction of mistakes in the financial bids will be entertained after the bids are opened. Any interlineations, erasers, alterations, fluid-marking, additions or overwriting shall be valid only if the person or persons signing the Bid have authenticated the same with his/her signature. Arithmetic errors in bids will be corrected as follows:

- Where there is a discrepancy between the amounts in figures and in words, the amount in words shall govern.
- Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate will govern unless, in the evaluation committee, there is obviously a gross error such as a misplacement of a decimal point, in which case the line item total will govern or whichever is logically correct.
- Notwithstanding the above the decision of the Evaluation Committee shall be final and binding.

6.22. REJECTION OF BIDS

The Bid shall be submitted duly filled by downloading application form in RFP from the Authority website. Bids submitted by Telex, fax or email would not be entertained.

Bid may be rejected at any stage of the evaluation if it is found that the company has provided misleading information or has been black-listed by a central or any state



government or has indulged in any malpractice/ unethical practice and has not honored contractual obligation elsewhere.

A bid that does not meet all qualification criteria or is not responsive shall be rejected by the Authority and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or Reservation by the Applicant. The Applicant may seek reason/clarification for rejection of its bid.

6.23. VALIDITY OF BIDS

Bids shall be valid for acceptance for a period of at least 180 (One Hundred and Eighty) days from the last date for submission till signing of the agreement or furnishing the Performance Security, whichever is later. The Bid with any lesser validity period is liable to be rejected.

6.24. UNDERTAKING FOR REASONABLENESS

The Applicant will give an undertaking with financial Bid that to the best of their knowledge and belief:

- a) Tendered rates are at par with the prevailing market rates and not more than the price usually charged for secure code of same nature/class or description from any private purchaser either foreign or as well as Government purchaser.
- b) In respect of indigenous items for which there is a controlled price fixed by law, the price quoted are not higher than the controlled price.
- c) Services/Products/Goods supplied, will be of requisite specification and quality.

6.25. ENQUIRIES AND CLARIFICATIONS

- i) In respect of clarifications sought, the following shall apply:
 - The Authority reserves the right not to consider any condition that is found unacceptable.
 - If in the Authority's opinion, certain conditions are acceptable, in whole or in part, the same shall be finalized by the Authority and the accepted conditions will be incorporated in the RFP.
 - In respect of suggestions / alterations proposed, the Authority may consider them and the result will be circulated to all Applicants.
- ii) If the Authority deems it appropriate to revise any part of this RFP or to issue additional data to clarify an interpretation of the provisions of this RFP, it may issue supplements to this RFP. Such supplemental information, including but not limited to, any additional conditions, clarifications, minutes of meeting, official communication over email/ post, etc. will be communicated to all the Applicants by e-mail. Any such supplement shall be deemed to be incorporated by this reference into this RFP.



iii) In order to allow Applicants a reasonable time to take the amendment(s) into account in preparing their bids, the Authority, at its discretion, may extend the deadline for the submission of bids. Designated Contact person is:

The Registrar,
Administrative Building,
Osmania University, OU Campus
Hyderabad -500 007.
Email ID: registrar@osmania.ac.in

6.26. LANGUAGE OF THE BID

The bid prepared by the Applicant, as well as all correspondence and documents relating to the Bid exchanged by the Applicant and the Authority shall be in English. Supporting documents and printed literature furnished by the Applicant may be in another language provided; they are accompanied by an accurate translation of the relevant pages in English. For purposes of interpretation of the bid, the translation shall govern.

6.27. RIGHT TO TERMINATE

The Authority may terminate the Tender process at any time and without assigning any reason. The Tender document does not constitute an offer by the Authority.

6.28. DELIVERY OF SUPPLY

The successful Applicant shall deliver the complete supply of material as per the project/milestone plan submitted to the Authority. The Authority would provide the adequate space for the storage of supply and the items supplied by the Applicant should be stored at the designated area approved by the Authority. All the expenses involved in shipping the equipment to the Authority will be borne by the Applicant. All aspects of safe delivery shall be the exclusive responsibility of the Applicant. The delivery of supply is in the custody of the Applicant until the Final Acceptance of the System is done by the Authority. Any damages or lost items are the responsibility of the Applicant during this period. It is the responsibility of the Applicant to insure the equipment during the period of installation and commissioning until the entire CCTV system is handed over to the Authority.

The Authority will have the right to reject the material supplied, if it does not comply with the specifications at any point of installation/inspections.

- OEM Authorization Form duly authorized by respective OEM on their letter is mandatory for all hardware and software items
- All licenses for the software and software subscriptions, should in the name of “Registrar, Osmania University, Hyderabad”



- All the Software should be latest version as released by OEM

6.29. INSPECTION OF SUPPLY

The Authority or its representative shall have the right to inspect or to test the items to confirm their conformity to the ordered specifications. The supplier shall provide all reasonable facilities and assistance to the inspector at no charge to the Authority. In case any inspected or tested goods fail to conform to the specifications, the Authority may reject them and supplier shall either replace the rejected goods or make all alterations necessary to meet specification required free of cost to the Authority.

6.30. INDEMNITY CLAUSE

The successful Applicant shall supply equipment particularly provide licenses for all software products, whether developed by it or acquired from others. In the event of any claim asserted by a third party for software piracy, the vendor shall act expeditiously to extinguish such claim. If the successful Applicant fails to comply and the Authority is required to pay compensation to a third party resulting from such software piracy, the successful Applicant shall be responsible for compensation including all expenses, court costs and lawyer fees. The Authority will give notice to the Applicant of such claim, if it is made, without delay.

The successful Applicant shall indemnify the purchases against all third party claims of infringement of patent, trademark or industrial design rights arising from use of the goods, software package or any part thereof.

6.31. PROJECT COMPLETION

The successful Applicant shall submit the detailed project plan along with major milestone dates to the Authority within 15 days from the date of signing the contract. The major milestones are define below and should be part of the project plan as:

- i) Project Start Date (Not later than 15th day from the date of signing the contract
- ii) Completion of System Installation Date – The complete system installed including at control room and ready for initial testing
- iii) Final Acceptance Test (FAT) – Readiness for the Authority testing & Acceptance
- iv) Project Completion Date – This include Go-Live, complete documentation, Training and Stabilization start date. This should be within 120 days from the seventh date of signing of the contract.
- v) The Operations and Maintenance (O&M) start would be after completion of the project closure process.
- vi) Project Closure – 30 days from the Project Completion date for system stabilization and smooth functioning of the system; Final documentation submission; Training where required; Handover of the complete system and artifacts to the Authority; on-boarding technical & support engineers for O&M.



The successful Applicant shall be responsible of the entire system until the completion of Project closure milestone.

6.32. ON-SITE WARRANTY

The Bid proposal should be made by each Applicant considering the 5-years on-site comprehensive warranty from OEM.

The comprehensive on-site warranty period for all the equipment provided by OEM is valid from the date of handover subject to Authority acceptance of the supplies and installation.

- i) During the warranty period, the Applicant should perform regular predictive and preventive maintenance of the system at all locations at least once in 3 months.
- ii) During warranty period, all driver software up gradation, installing patches and services shall also be provided at no extra cost. The successful Applicant should fulfill the following conditions during warranty period:
 - a) Any failure in the system/ software should be rectified as per SLA from the time of lodging the complaint at the Authority office.
 - b) Any system, failing at subsystem level at least three times in three months, displaying chronic system design or manufacturing defects or Quality Control problem or where the penalty amount on account of downtime for three months has crossed 15% of the software/ components value, will be totally replaced by the successful Applicant at their cost and risk within 30 days, from the date of last failure.

6.33. SERVICE LEVEL AGREEMENT (SLA)

- i) The Applicant should meet the following SLAs during the warranty period, however a separate SLA agreement will be executed with a successful Applicant when the project is awarded and accepted.
- ii) The SLA is designed for rapid response to mission critical service, hardware and software application emergency. The time between the initial request for service and the time a technical person respond to the request should not exceed 2 hours. The Resolution for permanent solution to an emergency should be within 4 hours.
- iii) In case of complete system breakdown, the resolution time should be less than 1 hour and resolution should be within 2 hours.
- iv) The calls or complaints shall be divided into the following three categories:

| # | CALL PRIORITY | DESCRIPTION |
|---|---------------------|--|
| 1 | High priority calls | The system / all the connected systems are totally |



| | | |
|---|-----------------------|--|
| | | affected and are down. All the services rendered from this system/ connected systems are not available. |
| 2 | Medium priority calls | The sub system/ system are affected and the services rendered from the system are partially affected/ performance of the system is deteriorated. |
| 3 | Low priority calls | The system or subcomponent of the system is affected and the system is running in backup mode and the services are running. |

v) The SLA during warranty shall be as follows:

| # | CALL PRIORITY | RESOLUTION | PENALTY |
|---|-----------------------|-------------------------|---|
| 1 | High priority calls | <= 6 hrs | 0 |
| | | > 6 hrs and < = 12 hrs | Rs. 500 per hour starting from time of notification. |
| | | > 12 hrs and < = 24 hrs | Rs. 1000 per hour starting from time of notification. |
| | | > 24 hrs and < = 48 hrs | Rs. 1500 per hour starting from time of notification. |
| | | > 48 hrs | Authority reserves the right to get it done and recover the cost + penalty of Rs. 1,00,000 from the Applicant |
| 2 | Medium priority calls | <= 6 hrs | 0 |
| | | > 6 hrs and < = 24hrs | Rs. 500 per hour starting from time of notification |
| | | > 24 hrs and < = 48 hrs | Rs. 1000 per hour starting from time of notification |
| | | > 48 hrs | Authority reserves the right to get it done and recover the cost + penalty of Rs. 75,000 from the Applicant |
| 3 | Low priority calls | <= 24hrs | 0 |
| | | >24hrs and < = 48hrs | Rs. 500 per hour starting from time of notification. |
| | | >48hrs and < = 72hrs | Rs. 1000 per hour starting from time of notification. |
| | | > 48 hrs | Authority reserves the right to get it done from 3 rd party |



| | | | |
|--|--|--|--|
| | | | and recover the cost + penalty of Rs. 25,000 from the Applicant for each such instance |
|--|--|--|--|

Note: Any penalty levied due to non-conformance to SLA would be deducted from the invoices pending for payment or would be deducted from the Performance Security deposit as the case may be at the time releasing.

6.34. EARNEST MONEY DEPOSIT (EMD)

All Applicant’s paid EMD of Rs. 25,00,000 (Rupees Twenty Five Lakh only) will carry forwarded against this tender, any objections should be communicated immediately if Applicant would like to exit from the project.

Earnest Money is liable to be forfeited and bid is liable to be rejected, if the Applicant withdraw or amend, impairs or derogates from the tender in any respect within the period of validity of the tender.

- The earnest money of all the unsuccessful Applicants will be returned as early as possible after the expiration of the period of the bid validity but not later than 30 days of the issue of the purchase order. No interest will be paid by the Authority on the Earnest Money Deposit.
- The Earnest Money of successful Applicant shall be returned after acceptance of the material subject to submission of Performance Bank Guarantee of the amount equivalent to 10% of the contract value.

The Financial Bids of only technically qualified Applicants will be opened in the presence of their representatives on a specified date and time duly notified. The financial bids will then be passed on to a duly constituted Financial Evaluation Committee for evaluation. If the Authority considers necessary, revised Financial Bids can be called from the technically shortlisted Applicants, before opening the original Financial Bids. In that case, the revised bids should not be higher than the original bids; otherwise the bid will be rejected & EMD will be forfeited of such defaulting Applicants.

The EMD is liable to be forfeited incase, the successful Applicant does not accept or execute the Award of Contract & Project. No further correspondence on this subject will be entertained. The Award of Contract would be considered to the next level of the shortlisted Applicant at the discretion of the Authority.

6.35. ON-SITE TRAINING

Hands on Training of the complete system should be provided to the participants as nominated by the Authority. However, the training scope and structure will be finalized with the successful Applicant at an appropriate time.



6.36. DELIVERY

All aspects of safe delivery shall be the exclusive responsibility of the successful Applicant. All the equipment should be latest version as released by OEM. At the destination Site, the cartons will be opened only in the presence of nominated Officer identified by the Authority and Applicant's representative and the intact position of the Seal for not being tampered with; shall form the basis for receipt in good condition. Any discrepancies shall be recorded and signed by both the parties.

The delivery of the items must be made as per the project/milestone plan. Any delay of supplies that impacts the project/milestone plan in the performance of project delivery shall render the Applicant liable to any or all of the following sanctions - forfeiture of its Earnest Money Deposit, imposition of liquidated damage as per the respective Clause (next) or / and cancellation of the purchase order for being defaulter.

Applicant must apply to the respective authority for issue of road permit /waybill in time. Delays on account of getting relevant permits shall not make vendors' eligible for waiver of penalties.

All the materials along with delivery challans with complete details must be signed, stamped and entered at the Security (Main) Gate of Authority premises. In case discrepancy, the same should be resolved by the Applicant within 7 working days. All delivery challans should have reference of purchase order number and Invoices should be signed, and stamped should be addressed to Osmania University, Hyderabad.

The successful Applicant should install all the items at specified site without any additional charge.

6.37. LIQUIDATED DAMAGES

If the successful Applicant fails to meet the milestone date of completion as per project/milestone plan, the Authority shall without any prejudice to its other remedies, deduct liquidated damages as below:

- a) 1% of the contract value of the project/milestone late delivered or deemed late delivered for one week or part thereof from the agreed completion date
- b) 1.5% for Two weeks or part thereof
- c) 2% for Three weeks or part thereof
- d) 2.5% for 4 weeks or part thereof and so on
- e) Max. 10% of the contract value of the project late delivery or deemed late delivered

However, the Authority reserves the right to review the project beyond one week of delay, as deemed necessary the project may be cancelled at no cost to the Authority.



The successful Applicant would forfeit the performance security deposit or invoke the Performance Bank Guarantee as the case may be.

6.38. ARBITRATION

Any Dispute which is not resolved amicably by conciliation between the Parties, shall be finally decided by reference to arbitration by an Arbitral Tribunal appointed in accordance with Clause 6.36 (ii). Such arbitration shall be held in accordance with the Rules of Arbitration of the International Centre of Alternative Dispute Resolution, New Delhi (the "Rules"), or such other rules as may be mutually agreed by the Parties, and shall be subjected to the provisions of the Arbitration and Conciliation Act, 1996. The venue of such arbitration shall be at Hyderabad and the language of arbitration proceedings shall be English.

There shall be an Arbitral Tribunal of the three arbitrators, of whom each Party shall select one, and the third arbitrator shall be appointed by the two arbitrators so selected; and in the event of disagreement between the two arbitrators, the appointment shall be made in accordance with the Rules.

The arbitrators shall make a reasoned award (the "Award"). Any Award made in any arbitration held pursuant to the clause shall be final and binding on the Parties as from the date it is made, and the Applicant and the Authority agree and undertake to carry out such Award without delay.

The Applicant and the Authority agree that an Award may be enforced against the Applicant and/or the Authority, as the case may be, and their respective assets wherever situated.

This Agreement and the rights and obligations of the Parties shall remain in full force and effect, pending the Award in any arbitration proceedings as Signed, Sealed and Delivered in the presence of witnesses.



7. COMMERCIAL TERMS AND CONDITIONS

7.1. PAYMENT TERMS

The following are the payment terms:

- a) 50% of the contract value will be paid against the 100% material delivery and invoices submitted as per the contract scope.
- b) 10% of the balance contract value is paid against the invoices submitted after successful completion of FAT by the Authority.
- c) 10% of the balance contract value is paid after 30-days from the date of completion of FAT subject to satisfactory performance certified by the Authority.
- d) 10% of the balance contract value is paid as final payment after one year successful and satisfactory performance of the system as certified by the Authority.
- e) 5% of the balance contract value is paid each at the completion of each of the warranty year from 2nd year onwards subject to satisfactory performance of the system as certified by the Authority. I.e.,
 - i) 2nd year – 5%; 3rd year – 5%; 4th year – 5% and 5th year – 5%

7.2. PERFORMANCE SECURITY DEPOSIT

- i) The Applicant should submit the Performance Security Deposit equivalent to 10% of contract value through a demand draft or Performance Bank Guarantee as per the format in Annexure at the time of signing the contract / agreement.
- ii) The Performance Security Deposit or Performance Bank Guarantee is valid for 60 days beyond the warranty validity period.
- iii) Successful Applicant's request for payment shall be made to the Authority in writing accompanied by relevant documentation. Payment shall be made by the Authority after submission of the final invoices / claims by the successful Applicant provided that all requisite documents as required under the Contract are submitted by end of the contract period.

7.3. PRICES

- i) Price charged by the Contractor for any goods and services under the Contract shall not vary from the prices quoted by the Contractor in its bid. There should be comprehensive insurance cover for all number of installed fixed cameras, Server equipment etc. The responsibility for the insurance will rest with the Applicant for the contract period. Evidence of insurance policy shall be submitted to the Authority
- ii) The Authority will notify the successful Applicant that the bid has been accepted; the Authority will send the Applicant the Contract Form incorporating all agreements between the parties.
- iii) The Authority reserves the right to negotiate the prices on full or partial items where



- necessary and further to award the project with full or partial scope as per Authority requirements.
- iv) The successful Applicant whose tender is accepted shall be required to appear at the office of the Registrar, in person or, if the Applicant is a Firm, Company or a Corporation, a duly authorized representative shall so appear to sign the agreement and execute the contract documents within (7) Seven days of from the date of issue of communication (LOI) from Office of the Registrar and has to start the work within (7) Seven days of issue of LOI or by the date communicated by the Authority whichever is later.
 - v) The Applicant shall design, engineer, supply, install, test and commission the total system on turnkey basis with no extra costs incurred on the client. The Applicant shall clearly mention the name of the manufacturer for each item quoted in their quotations.
 - vi) The Applicant is required to quote the sub items required for each major item in the bill of material in Techno – Commercial Bid.
 - vii) Training on the configuration, trouble shooting, fault diagnosis, repairing of hardware & software is to be imparted free of cost to our engineers/staff after installation and commissioning of the equipment for a period of 5 working days.
 - viii) All the installable media, technical manuals, documents, test procedures, trouble shooting, circuit diagram etc., are to be supplied in 4 sets as hard copy and 2 sets as soft copy.
 - ix) All the CCTV products should be UL listed and from the same manufacturer.
 - x) All the equipment of external fitment should be of IP-66 compliant.
 - xi) Any breakdown in system to be rectified and system should be brought back to original condition within 12 hours. The Applicant shall have a Service Centre at Hyderabad. The Applicant shall give the complete address of his Service Centre along with the quotation.
 - xii) All software and firmware upgrades shall be free of charge.
 - xiii) The Applicant shall submit the quotation in two bid system i.e. Techno-commercial and Price Bid.
 - xiv) The Applicant shall include only the technical compliance statement with the specification and un-priced BOQ in the Techno - Commercial Bid (except price) and attach all other documents as specified in the tender document to the Techno - Commercial Bid. The Applicant shall indicate only price part of the specification along with taxes and duties applicable in the Price Bid only. Any quotation received without complying the above, will be summarily rejected.
 - xv) All other terms & conditions are as per the tender document.



8. DOCUMENTS SUBMISSION WITH TECHNO-COMMERCIAL BID

The following documents / certifications related to CCTV; IT and Networking components from the respective Original Equipment Manufacturer must be enclosed by the Applicant along with the Techno-Commercial Bid.

- 1) Technical compliance to the specifications vetted by the OEM (Original Equipment Manufacturer).
- 2) Authorization for participating in the tender on manufacturer's behalf.
- 3) Authorization letter certifying that the items quoted by the Applicant are in production and would be supported for service for at least for the next 6 years (No obsolete products should be quoted).
- 4) Letter from OEM for supporting the system for at least 6 years. Proof that OEM is in operation for more than 5 years in the Country by submitting the Company Registration Certificate from the competent Authority.
- 5) Applicant is having an office in Hyderabad or set up within 3 months from the date of award of the project with an undertaking from the Applicant.
- 6) Catalogues/Broachers/Data Sheets/Certifications of cameras, software's, network attached storage and other items as per BOM shall be enclosed.

9. ACCEPTANCE OF TENDER

- 1) The authority for acceptance/rejection of the tender documents and tendered rates will rest with the Competent Authority, who does not bind himself to accept the lowest or any other tender.
- 2) Acceptance of tendered rates will be communicated by E-mail or a formal letter of acceptance of tender will be forwarded to the successful Applicant as soon as possible, but the acceptance of lowest bid by the Competent Authority will be deemed to conclude the contract and noncompliance of any terms of agreement, including signing of the agreement, will amount to breach of contract with all attendant legal consequences.
- 3) The tender documents submitted by a Applicant shall become the property of the Authority and Authority shall have no obligation to return the same to the Applicants.
- 4) On acceptance of the tender, the name of accredited representative(s) of the Applicant who would be responsible for taking instructions from the Authority shall be communicated to the Authority within three working days.
- 5) The Authority shall not give any intimation to the unsuccessful Applicants about the fact of the rejection of their tender both in the case of technical qualification and financial aspects. The Authority is also not bound to give the reasons for such disqualification.
- 6) The Authority also reserves the right to:
 - a) Award the work partially, if deemed fit by the Competent Authority, in the financial/business interest of the Authority.
 - b) Bypass any Applicant blacklisted by any Government/Semi Government body or PSU.



- c) Seek clarifications from the Applicants regarding any information and documents submitted, during Pre – bid meeting. Failure to submit the same may render the bid liable for rejection. However the clarifications sought should not change the basic bid submitted by the Applicant.
 - d) Accept or reject any or all of the qualification / financial bids in part or full.
 - e) Relax the tender condition at any stage and considered necessary for the purpose of finalizing the contract in the overall interest of the Authority.
 - f) All ordered equipment should be supplied with relevant test certificates and any other statutory documents required.
- 7) Firms which are black listed by any of the Government organizations, Banks or PSU, their offers will be summarily rejected and their EMD will be forfeited.

10. TECHNICAL EVALUATION

The Applicant should demonstrate the technical capabilities by fixing the pre-defined CCTV system with proper design and process to showcase the functions and features. The technical demonstration should be executed by one or more technical staff as defined in the proposal. The technical evaluation broadly based as per the table below:

| # | Parameter | Max. Points | Evaluation Criteria |
|---|--|-------------|---|
| A | FUNCTIONAL CAPABILITIES OF THE APPLICANT | | |
| 1 | Overall Turnover | 5 | <ul style="list-style-type: none"> • > 50 Cr. – 5 pts • > 40 &lt;= 50 Cr. – 4 pts • > 30 &lt;= 40 Cr. – 3 pts • >15 &lt;= 30 Cr. – 2 pts • <= 15 Cr. – 1 pts |
| 2 | Net Profit | 5 | <ul style="list-style-type: none"> • > 4 Cr. – 5 pts • > 2 Cr. &lt;= 4 Cr. – 4 pts • > 1 Cr &lt;= 2 Cr. – 3 pts • > 50 Lacs &lt;= 1 Cr. – 2 pts • > 0 &lt;= 50 Lacs – 1pt |
| 3 | Experience of the IP based HD CCTV Projects implemented with a total number of cameras by the Applicant | 10 | <ul style="list-style-type: none"> • > 500 cameras – 10 pts • > 300 &lt;= 500 cams – 8 pts • > 150 &lt;= 300 cams – 6 pts • <= 150 cameras – 2 pts |
| 4 | Experience of the IP based HD CCTV Projects implemented outdoor / city environment with a number of cameras by the Applicant | 10 | <ul style="list-style-type: none"> • > 300 cameras – 10 pts • > 150 &lt;= 300 cams – 8 pts • > 50 &lt;= 150 cams – 6 pts • <= 50 cameras – 2 pts |



| | | | |
|---|--|----|--|
| 5 | Experience in managing data centers / control centers with number of racks | 10 | <ul style="list-style-type: none"> • > 3 racks – 5 pts • > 1 &lt;= 3 racks – 3 pts • 1 rack – 1 pts |
| 6 | Technical Demo / Proof-of-Concept | 60 | As per the evaluation criteria Evaluation Criteria would be provided to the Applicant at the time of opening the Technical Bid. |

10.1. TECHNICAL DEMO/PROOF-OF-CONCEPT (POC) SETUP

The Applicant should arrange the following components quoted in the proposal for the demo setup to showcase the features as per evaluation criteria in addition to committee requirement. The make & model should be the same as per the proposal, this means if the model nos of all components does not meet as per the proposal, it would lead to bid rejection or otherwise mentioned. Any deviations should be brought to the notice of the Authority and subject to approved by the Authority. Each camera type quoted in the bid proposal should be part of the POC/Demo.

POC/Demo equipment as per the following requirement:

- a) IP Fixed Outdoor Camera (2 Nos)
- b) IP Fixed Indoor Camera (2 Nos)
- c) IP PTZ Dome Camera (2 No)
- d) 8-port PoE Switch with multicast feature (Quantity as desired by the Applicant)
- e) One microphone at one of the demo locations
- f) Storage for max. of 6 days (as per the proposal or at the discretion of the Applicant)
- g) Viewing from at least 3 locations
- h) Monitors for display at (Quantity as desired by the Applicant)
- i) Other components as required such as Fiber and UTP cables, accessories, junction boxes etc.,

INSTRUCTIONS TO APPLICANT

- i) The Applicant responsibility to arrange the equipment for the demo / proof-of-concept including fixtures, accessories, poles, cantilevers etc., where required.
- ii) The Applicant should estimate the quantities of equipment / components / items such as storage switch, cable (data & power) etc., as per the demo requirement.
- iii) The Authority provides the raw power source, however, it is the responsibility of the Applicant to arrange and connect from the designated power source to the edge devices.
- iv) The Applicant should check the power sources for the compatibility with their system.



- v) It is the responsibility of the Applicant to decide on the exact location of the cameras and other edge devices (in consultation with the Authority) to maximize their field of view or coverage.
- vi) The Applicant can use the existing poles or any support that helps to install the cameras where required.
- vii) The camera locations for the Demo will be in multiple points distributed across the premises/campus. The Applicant should arrange the requisite cables and other accessories to get connected the system.
- viii) The cameras (Fixed and PTZ) should be mix of Day/Night vision to validate the day and night vision video streams.
- ix) The installation of mike in indoor environment and should be synchronized with the camera video
- x) The Applicant responsibility to derive exhaustive scenarios to demonstrate functionally and technically.
- xi) The Applicant responsibility to handover the recorded video stream of complete demo to the Authority at the end of the demo.
- xii) The Authority responsibility to provide the locations for the installations and power source for Demo.
- xiii) The Demo system should be required to retain for at least six days subject to further extension in order to test the system by the Authority.
- xiv) The Applicant should inform the Authority about their preparation and setup schedule and ensure that their staff maintains the discipline and tidiness at the premises.
- xv) It is the responsibility of the Applicant to compensate / replace if any Authority's property is damaged.
- xvi) The Applicant should sign the Declaration Form at the start for the safety of their personnel and security of their equipment during the Demo/POC period.

The Applicant should score minimum of 70% (70 points) to qualify for the Financial Bid Opening in the Technical Evaluation. The Applicant shall be rejected and disqualified if it does not meet the minimum points of 70% (70 points) for eligibility.

10.2. COMMERCIAL BID EVALUATION

The Commercial Bid will be considered only when all the item prices were quoted; otherwise, the Bid is liable for Rejection.

The Commercial Bid will be opened to those Applicants who obtain minimum of 70% in the Technical Evaluation. The methodology of the Commercial Bid calculation of scoring will be as follows:



Normalized commercial Score of the Applicant = (Lowest Quote / Applicant Quote)
* 100 points (Adjusted to 2 decimals)

10.3. TOTAL BID CALCULATION

The Technical Bid evaluation shall have a weightage of 70% in the overall evaluation of the Bid and the Commercial Bid shall have a weightage of 30% in the overall evaluation. The total score is calculated as:

Total Score = 0.7 * Applicant's Technical Points + 0.3 * Applicant's Commercial points

If there is any discrepancy in the Commercial Bid, it will be dealt as per the following:

- If, in the price structure quoted for the required goods/services/works, there is discrepancy between the unit price and total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly.
- If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected.
- If there is a discrepancy between words and figures, the amount in words shall prevail.

If there is any such discrepancy in an offer, the same shall be conveyed to the Applicant with target date up to which the Applicant has to send the acceptance on the above lines and if the Applicant does not agree to the decision of the Authority, the Bid is liable to be ignored.

10.4. BID EVALUATION

- i) The Bid evaluation would be done by the Authority through their internal Evaluation Committee on the basis of Organizational Financial strengths, past similar project experiences, technical evaluation through demos, quality of demo, team quality & performance, and commercial bid.
- ii) The Authority reserves the right not to disclose any evaluation results as it is an internal process and no communication is entertained in this regard.
- iii) The Authority also reserves the right to negotiate on the scope of the project, terms and conditions, pricing and other aspects that is important for the project with finalized Applicant(s).
- iv) The Authority's decision shall be final and binding and shall not be required to give any reasons in writing or otherwise at any time for the selection of successful Applicant.



11. OPERATION & MAINTENANCE TEAM

The support team during Warrantee and AMC period (O&M) should consists of only experienced persons. The successful Applicant shall provide sufficient manpower onsite for O&M as per the tender conditions. The following staff shall be deployed during O&M Period at site on 365 x 24 x 7 basis in general shift.

| # | ROLE | QTY | QUALIFICATION / EXPERIENCE |
|---|--|-----|--|
| 1 | Project Manager | 1 | <ul style="list-style-type: none"> B.E / B.Tech (Any discipline) Min. 5 year experience handling medium to large IT/CCTV projects involving campus network Preferably PMP certification |
| 2 | Technical Engineer Support (Network) | 2 | <ul style="list-style-type: none"> B.E / B.Tech (ECE/CSE) Min. 3 year experience with campus wide IT Networking CISA / Cisco or equivalent certification |
| 3 | Technical Engineer Support (Application) | 2 | <ul style="list-style-type: none"> B.E / B.Tech (Any discipline, preferably IT/CS) Min. 3 year experience in maintaining the CCTV Systems |
| 4 | Help Desk Executive | 1 | <ul style="list-style-type: none"> Any Degree or Above Min. 3 year experience in Front Office / Admin preferably working in IT setup environment Possesses excellent communication and interpersonal skills and upkeep of the records |
| 5 | Shift Operators | 2 | <ul style="list-style-type: none"> Any Degree or Above Min. 3 year experience in handling IT admin tasks such as data backups; user management; data center & command center tasks etc., Should be ready to work in Shifts. |

- The O&M team is required from the date of handover of the system to the Authority initially for a period of one year subject to extension of one more year at the Authority discretion.
- The O&M team shall work in shifts with staggered time during the normal business hours as per Authority organizational policies.
- The Team shall work under the Authority guidance and follow their work schedule from time to time.



- d) It is mandatory at least one Technical Engineer Support working on any working day in case of other Engineer absence due to vacation, leave or any other reasons. However, it is the successful Applicant's responsibility to ensure that the O&M support is provided at 99.9% availability in case of any absence of Engineers. The successful Applicant's responsibility to provide replacement in case of any shortage of capacities and manpower. Failure of the SLA will result in suitable penalties as mentioned in the tender.
- e) The Applicant's responsibility to provide communication equipment such as mobile phones, desktop/laptop, and necessary transportation to the technical persons as necessary for smooth functioning of the total system.



12. ANNEXURE – 1

12.1. BID COVER LETTER

(To be submitted on the letterhead of the Applicant)

[Location, Date]

To

The Registrar,

Osmania University, Hyderabad – 500 007.

Ref: Tender Reference No. 211/DIS/OU/2016/CCTV

Subject: Submission of proposal in response to the RFP for “Design, Supply, Install, Commission, Support & Maintenance of IP based of CCTV System in Osmania University Campus”

Dear Sir,

Having examined the RFP document, we, the undersigned, herewith submit our proposal in response to your Tender Notification number..... for “Design, Supply, Install, Commission, Support & Maintenance of IP based of CCTV System in Osmania University Campus”

We have read the provisions of the RFP document and confirm that we accept these. We further declare that additional conditions, variations, deviations, if any, found in our proposal shall not be given effect to.

1. We agree to abide by this proposal, consisting of this letter, the detailed response to the RFP and all attachments.
2. We would like to declare that we are not involved in any litigation that may have an impact of affecting or compromising the delivery of services as required under this assignment, and we are not under a declaration of ineligibility for corrupt or fraudulent practices.
3. We would like to declare that there is no conflict of interest in the services that we will be providing under the terms and conditions of this RFP.
4. We hereby declare that all the information and statements made in this proposal are true and accept that any misrepresentation contained in it may lead to our disqualification.
5. We understand you are not bound to shortlist/accept any or all the proposals you receive.

We hereby declare that we qualify and fulfill all the eligibility criteria mentioned in the RFP.

Date:

Signature of Authorized Signatory

Place:

Name of the Signatory

<Company Letter Head>



12.2. COMPANY PROFILE

(To be submitted duly signed by Statutory Auditor of the Applicant on its letter head by each member of the consortium)

| # | DESCRIPTION | DETAILS |
|----|--|---------|
| 1 | Name of the company | |
| 2 | Title of the Project | |
| 3 | State whether applying a Sole Firm or Lead Member of the consortium | |
| 4 | Corporate Headquarter Official address | |
| 5 | Local Official Address | |
| 6 | Name, Designation and Address of the contact person to whom all references shall be made regarding the project | |
| 7 | Company Landline Phone No. and Company Fax No. | |
| 8 | Contact Person Name Mobile No. Email address | |
| 9 | No. of Staff on company payroll | |
| 10 | Web Site Address | |
| 1 | Details of Company's Registration (Please enclose attested copies of the documents) * | |
| 12 | Name of Company Registration Authority | |
| 13 | Registration Number and Year of Registration | |
| 14 | Product / Service for which Registered with validity period | |
| 15 | ISO 9001/SEI CMM or higher quality certification details and its validity | |
| 16 | ISO 20000/27001 or higher Information Security certification details and its validity | |
| 17 | CST/LST/VAT registration No. * | |
| 18 | Service Tax Registration No. * | |
| 19 | Permanent Account Number (PAN) * | |
| 20 | Details of Ownership of the Firm (Name and Address of the Board of Directors, Partners etc.) * | |



* - Photocopies of respective documents should be attached with the Application. Individual Director's/Partner's details such as PAN Card, Partnership deed etc., should be attached.

We hereby declare that our proposal submitted in response to this EOI is made in good faith, and the information contained is true and correct to the best of our knowledge and belief

Sincerely,

(Authorized Signatory & Seal)

Name:

Title:



12.3. FINANCIAL DETAILS – ANNUAL TURNOVER DETAIL

(To be submitted duly signed by Statutory Auditor of the Applicant (each member of the consortium) on its letter head)

| # | FINANCIAL YEAR | ANNUAL TURNOVER (Cr) | ANNUAL NET-WORTH |
|---|----------------|----------------------|------------------|
| 1 | 2014 – 2015 | | |
| 2 | 2013 – 2014 | | |
| 3 | 2012 – 2013 | | |

Note: Audited Balance Sheets & Profit and Loss Statements for each financial year should be submitted by the Applicant duly certified by the Chartered Accountant.

12.4. CCTV PROJECT IMPLEMENTATION EXPERIENCE

The Applicant (Lead Member of the consortium) should provide the details of past IP based CCTV High Definition Project Experience in the format below. Applicant should submit photocopies Purchase Orders, Invoices and Completion Certificate from each client.

| # | Client Details | Project Brief Scope | Project Location | PO # / Invoice Date & Value | No. of IP HD cameras installed | Date of Project Complete | Remarks |
|---|----------------|---------------------|------------------|-----------------------------|--------------------------------|--------------------------|---------|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



12.5. FORMAT OF IRREVOCABLE PERFORMANCE GUARANTEE

NOTE:

1. This guarantee has to be furnished by a Nationalized Bank / Scheduled Bank Authorized by RBI to issue a Bank Guarantee. THE AUTHORITY reserves its rights to reject the Bank Guarantee if the same is not in the specified format.
2. The Bank Guarantee should be furnished on Stamp paper of value of not less than Rs.100.00.
3. The stamp papers should be purchased in the name of Bank executing the guarantee.
4. The Bank Guarantee shall be valid till the completion of warranty period with a grace period of 2 (Two) months thereafter.
5. Any deviation in this format will not be acceptable.

DATE:

Bank Guarantee No.:

To
M/s. Registrar
Administrative Building,
Osmania University,
Hyderabad – 500 007
Telangana

Dear Sirs,

1. In consideration of the Authority, Office of the Registrar, Osmania University, Hyderabad hereinafter referred to as the PURCHASER, which expression shall, unless repugnant to the context or meaning, thereof include its successors, representatives and assignees, having awarded in favour of M/s. having registered office at hereinafter referred to as the CONTRACTOR, which expression shall unless repugnant to the context or meaning thereof include its successors, administrators, representatives and assignees, a Contract, hereinafter "referred as the CONTRACT" for the on terms and conditions set out interilia, in the PURCHASER's Contract /Letter of Award No..... dated as well as "CONTRACT" documents, valued at (In words) and the same having been unequivocally accepted by the CONTRACTOR and the CONTRACTOR having agreed to provide a Contract Performance Guarantee for the faithful performance of the entire "Contract" including the warranty obligations /liabilities under the contract Equivalent to 10% of the said value of the Contract if



- any, to the PURCHASER amounting to (In words) as Contract Security in the form of a Bank Guarantee.
2. We,(Name).....(Address) hereinafter referred to as the "Bank which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators, representatives and assignees do hereby irrevocably guarantee and undertake to pay the PURCHASER merely on demand without any previous notice and without any demur and without referring to any other source, any and all monies payable by the CONTRACTOR by reason of any breach by the said CONTRACTOR of any of the terms and conditions of the said CONTRACT including non-execution of the "CONTRACT AGREEMENT" to the extent of 10% of the Contract price at any time up to (day /month/ year). Any such demand made by the PURCHASER on the bank shall be conclusive and binding, absolute and unequivocal not withstanding any disputes raised/pending before any court, tribunal, arbitration or any other authority. The Bank agrees that the guarantee herein contained shall continue to be enforceable till this sum due to the PURCHASER is fully paid and claims satisfied or till the PURCHASER discharges this Guarantee.
 3. The Bank further irrevocably guarantees and undertakes to pay any and all monies due and payable by the CONTRACTOR by reasons of non-fulfillment of any of the following obligations.
 - i) For the successful and satisfactory operation of the equipment furnished and erected under the said Contract as per the specifications and documents.
 - ii) That the equipment installed under the said Contract shall be new and in accordance with Contract Documents and be free from all defects in design, material workmanship and performance including modifications, improvements and replacements for a period of 12 calendar months, from successful completion of take over test of the equipment and that immediately upon intimation /written notice from the PURCHASER, the CONTRACTOR shall remedy free of expenses to the PURCHASER such defects as noticed and developed under the normal use of the said equipment, within the said guarantee period.
 4. The PURCHASER shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee, from time to time, to extend the time of performance by the CONTRACTOR. The Bank shall not be released from its liabilities under these presents by any exercise of the PURCHASER of the liberty with reference to the matter aforesaid.
 5. The PURCHASER shall have the fullest liberty, without affecting this guarantee to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the CONTRACTOR and to exercise the same at



- any time in any manner, and either to enforce or to forbear to enforce any covenants, contained or implied in the CONTRACT between the PURCHASER and the CONTRACTOR or any other course or remedy or security available to the PURCHASER and the BANK shall not be released of its obligations/ liabilities under these presents by any exercise by the PURCHASER of his liberty with reference to the matters aforesaid or any of them or by reasons of any other act or forbearance or other acts of omission or commission on part of the PURCHASER or any other indulgence shown by the PURCHASER or by any other matter or thing whatsoever which under law would, but for this provision, have the effect of relieving the Bank Guarantee. The Bank further undertakes not to revoke this guarantee during its currency without the previous consent of the PURCHASER.
6. The Bank further agrees that the decision of the PURCHASER as to the failure on the part of the CONTRACTOR to fulfil their obligations as aforesaid and/or as to the amount payable by the BANK to the PURCHASER hereunder shall be final, conclusive and binding on the BANK.
 7. The Bank also agrees that the PURCHASER shall be entitled at his option to enforce this guarantee against the BANK as a principal debtor, in the first instance notwithstanding any other Security or guarantee that it may have in relation to the CONTRACTOR`'s liabilities.
 8. This guarantee will not be discharged due to the change in the constitution of the BANK or the CONTRACTOR(S).
 9. Notwithstanding anything contained herein:
 - i) Our liability under this bank guarantee shall not exceed (in words)
 - ii) this bank guarantee shall be valid upto; and
 - iii) we are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if you serve upon us a written claim or demand on or before

Return of this document to us by any person before the aforesaid date will, however, extinguish our liability as on the date of return.



WITNESSES:

1. (Signature with name in Block letters and with designation)

Signature
(Printed Name)
Designation
Staff Code No.
Bank's seal

2. (Signature with name in Block letters and with designation)

Attorney as per power of
Attorney No.
Dated



12.6. FORMAT FOR AUTHORIZATION LETTER FROM OEM

Date: DD/MM/YYYY

To,
Registrar,
Administrative Building,
Osmania University, Hyderabad – 500 007, Telangana

Subject : Authorization Letter to M/s _____ for the participation in the Bid for the Design, Supply, Install, Commission, Test, Support & Maintenance of IP based CCTV System at Osmania University Campus, Hyderabad covering the University Campus.

Reference No: Tender No. xxxxxxxxxxxxxxxxxxxx dated xxxxxxxxxxxxxxxxxxxx

Sir,
We _____, (name and address of the manufacturer) who are established and reputed manufacturers of _____ (name of the Product & Model No) having factories at _____ (address of facility) do hereby authorize M/s _____ (name and address of the Applicant/Bidder) to bid, negotiate and conclude the contract with you against the above mentioned tender for the above equipment / software manufacturerd / developed by us.

We hereby certify that the above mentioned equipment / software products are not end of the life and we hereby undertake to support these equipment / software for the duration of minimum 6 years from the date of submission of the Bid.

Yours faithfully,

For and on behalf of M/s _____ (name of the Manufacturer)

Signature:

Name:

Address:

Date:

Note: This letter of authority should be on the letterhead of the concerned manufacturer and should be signed by an authorized signatory of the company. The same would need to be submitted by the Applicant/Bidder as part of the Technical Bid.



12.7. FORMAT FOR UNDERTAKING

(TO BE SUBMITTED BY THE APPLICANT ON ITS LETTER HEAD)

I/We hereby undertake that I/we have studied and understood the Expression of Interest document completely.

I/We hereby undertake that I/We understand that the Scope of Work and Requirement of this RFP is indicative only and not exhaustive in any manner and that the final scope of work and technical specification will be decided by the Authority at their discretion.

I/We hereby undertake to provide the requisite OEM authorization as and when required and/or asked for by the Authority as per the solution and/or requirements, as decided by the Authority at their discretion.

I/We hereby undertake that I/We understand that the Authority reserves the right to float a separate tender for the scope of work and requirements as mentioned in this RFP irrespective of the outcome of this Project. I/We understand that in such a case I/We may have to bid separately for that tender and in no case our response to this RFP shall be deemed as a bid for the said tender. In case my/our response to this RFP is short listed, I/We agree to bid for the further tender as and when asked for by the Authority based on the terms and conditions and technical specifications and scope of work as finalized and decided by the Authority at their discretion.

I/We hereby undertake that the Authority reserves the right to short list responder(s) for further tendering of this RFP and in case of my/our response being rejected I/We shall have no claim of any sort in the further tendering process.

I/We hereby undertake that our organization (M/s. -----) (in case of consortium, all the consortium partner names to be written) has/have not been debarred / black-listed by Central / any State Government department in India, at the time of submission of the RFP.

I/We hereby affirm that our response is valid for a period of 180 days from the date of RFP opening.

Signature of Authorized Signatory
Name of the Signatory
Company Name & Seal

Date :
Place :



13. ANNEXURE – 2 : BILL OF QUANTITY (BOQ) DETAILS

13.1. LOCATION-WISE CAMERA REQUIREMENT

| Camera Location | Camera Qty | Poles | Last Mile Distance (MTRS) |
|-----------------|------------|-------|---------------------------|
| Indoor01 | 6 | | |
| Indoor02 | 4 | | |
| Indoor03 | 10 | | |
| Indoor04 | 6 | | |
| Indoor05 | 14 | | |
| Indoor06 | 6 | | |
| Indoor07 | 4 | | |
| Indoor08 | 6 | | |
| Indoor09 | 6 | | |
| Indoor10 | 6 | | |
| Indoor11 | 6 | | |
| Indoor12 | 6 | | |
| Indoor13 | 6 | | |
| Indoor14 | 4 | | |
| Indoor15 | 10 | | |
| Indoor16 | 20 | | |
| Indoor17 | 4 | | |
| Indoor18 | 4 | | |
| Indoor19 | 20 | | |
| Indoor20 | 4 | | |
| Indoor21 | 6 | | |
| Indoor22 | 6 | | |
| Indoor23 | 6 | | |
| Indoor24 | 6 | | |
| Indoor25 | 10 | | |
| Indoor26 | 10 | | |
| Indoor27 | 4 | | |
| Indoor28 | 10 | | |
| Indoor29 | 6 | | |
| Indoor30 | 20 | | |
| Indoor31 | 6 | | |
| Indoor32 | 6 | | |
| Indoor33 | 6 | | |



| | | | |
|----------|----|---|-----|
| Indoor34 | 6 | | |
| Indoor35 | 6 | | |
| Indoor36 | 6 | | |
| Indoor37 | 6 | | |
| Indoor38 | 6 | | |
| Indoor39 | 6 | | |
| Indoor40 | 6 | | |
| Indoor41 | 6 | | |
| Indoor42 | 10 | | |
| Indoor43 | 6 | | |
| Indoor44 | 4 | | |
| Indoor45 | 10 | | |
| Indoor46 | 6 | | |
| Indoor47 | 6 | | |
| Indoor48 | 6 | | |
| Indoor49 | 6 | | |
| Indoor50 | 6 | | |
| Indoor51 | 4 | | |
| Indoor52 | 6 | | |
| Indoor53 | 4 | | |
| Indoor54 | 10 | | |
| Indoor55 | 6 | | |
| Indoor56 | 6 | | |
| Indoor57 | 6 | | |
| Indoor58 | 8 | | |
| Indoor59 | 4 | | |
| Indoor60 | 4 | | |
| Indoor61 | 4 | | |
| Indoor62 | 4 | | |
| NWS01 | 5 | | 200 |
| NWS02 | 4 | 3 | 150 |
| NWS03 | 4 | 2 | 200 |
| NWS04 | 6 | 2 | 150 |
| NWS05 | 11 | 5 | 550 |
| NWS06 | 3 | 2 | 100 |
| NWS07 | 6 | 4 | 350 |
| NWS08 | 3 | 1 | 200 |
| NWS09 | 2 | 1 | 200 |
| NWS10 | 4 | 1 | 200 |
| NWS11 | 6 | 2 | 550 |



| | | | |
|--------------------|------------|-----------|--------------|
| NWS12 | 3 | 2 | 100 |
| NWS13 | 4 | | 100 |
| NWS14 | 4 | 1 | 150 |
| NWS15 | 4 | 1 | 150 |
| NWS16 | 3 | 2 | 200 |
| NWS17 | 3 | | 300 |
| NWS18 | 5 | | 700 |
| NWS19 | 8 | 4 | 500 |
| NWS20 | 2 | 2 | 500 |
| NWS21 | 3 | 1 | 200 |
| NWS22 | 3 | 3 | 200 |
| NWS23 | 6 | 3 | 650 |
| NWS24 | 2 | 1 | 150 |
| NWS25 | 4 | 2 | 200 |
| NWS26 | 5 | 2 | 200 |
| NWS27 | 2 | 1 | 100 |
| NWS28 | 4 | 2 | 200 |
| NWS29 | 7 | 1 | 600 |
| NWS30 | 3 | 2 | 200 |
| NWS31 | 5 | | 300 |
| NWS32 | 2 | 1 | 300 |
| NWS33 | 1 | 1 | 200 |
| NWS34 | 18 | 8 | 1400 |
| NWS35 | 5 | 1 | 300 |
| NWS36 | 6 | 4 | 100 |
| NWS37 | 2 | 2 | 200 |
| NWS38 | 2 | 2 | 150 |
| GRAND TOTAL | 598 | 72 | 11200 |

NOTE:

- i) Locations are suggestive; however the Applicant should firm up based on their site survey and conditions for the proposal. The quantity may vary during the project implementation as mentioned in the tender document.
- ii) The Last Mile (LM) Connectivity is the distance from the nearest Network point to the camera location in Meters.



13.2. BILL-OF-QUANTITY (BOQ) FOR CCTV SYSTEM AT OU CAMPUS

| # | Item Description | Unit | Qty | Base Rate | Item Amount (INR) | Tax % | Tax Amount (INR) | Total Amount (INR) |
|----|--|------|-----|-----------|-------------------|-------|------------------|--------------------|
| 1 | Fixed Box/Bullet Outdoor Camera | Nos | 164 | | | | | |
| 2 | Fixed Dome Indoor Camera | Nos | 428 | | | | | |
| 3 | IP Outdoor PTZ Dome Full HD Camera | Nos | 6 | | | | | |
| 4 | High quality external microphone | Nos | 15 | | | | | |
| 5 | Servers (App + Database + Storage) ** | | | | | | | |
| 6 | Storage Disks (Min. 1.2 Petabyte) with controllers ** | Set | 1 | | | | | |
| 7 | Application Software – VMS & others ** | | | | | | | |
| 8 | 24 P L3 Layered Manageable switch in Data center (12 Fiber ports) | Nos | 2 | | | | | |
| 9 | 24 P L3 Layered Manageable network switch at aggregation points with SFP module | Nos | 4 | | | | | |
| 10 | 8 UTP + 2 Fiber Port PoE Edge L2 Switch (IG) + SFP module Industrial Grade (outdoor) | Nos | 52 | | | | | |
| 11 | 8 UTP port + SFP Module for Indoor | Nos | 30 | | | | | |
| 12 | 24 Port UTP Patch Panel loaded | Nos | 5 | | | | | |
| 13 | 42" LED Monitors / Video Wall at Data Center | Nos | 35 | | | | | |
| 14 | 42" LED Monitors at Heads of offices / colleges | Nos | 10 | | | | | |
| 15 | Workstations with 8 GB RAM + 1 TB HDD + 2 GB NVIDIA graphic card at Data Center / CC&C | Nos | 20 | | | | | |
| 16 | Workstations with 8 GB RAM + 2 GB NVIDIA graphic card at Offices / Colleges | Nos | 10 | | | | | |
| 17 | Junction Box at Camera Locations | Nos. | 600 | | | | | |
| 18 | Rack 42U at Control Room / Data Center | Nos | 3 | | | | | |
| 19 | UPS 10KVA at Control Room with 1 hr backup and 2 sets of batteries for 3 years | Nos | 1 | | | | | |
| 19 | UPS 1 KVA at critical camera locations with 2 hours backup | Nos | 30 | | | | | |



| | | | | | | | | |
|----|--|--------|-------|--|--|--|--|--|
| 20 | Optical Fiber Single mode 6 Core | Mtr | 14000 | | | | | |
| 21 | Cat6 Cable (305 mtr Box) for indoor | Box | 175 | | | | | |
| 22 | Cat 5 Armored Cable for outdoor | Mtr | 1000 | | | | | |
| 23 | UTP Patch Cords Max. 2 Mtrs | Nos | 500 | | | | | |
| 24 | I/O UTP Box | Nos | 100 | | | | | |
| 25 | LIU Fully loaded with Pigtails; Adaptors, OFC patch cords 12/24 ports (as per site conditions) | Set | 200 | | | | | |
| 26 | HDPE/MS Pipe for Fiber Laying underground (including Last Mile Distance) | Mtr | 14000 | | | | | |
| 27 | GI Pipe | Mtr | 250 | | | | | |
| 28 | PVC Conduits | Mtr | 10000 | | | | | |
| 29 | 3C x 2.5 Sq mm Armored Power cable | Mtr | 5000 | | | | | |
| 30 | 6 Mtr Pole with Cantilever | Nos | 75 | | | | | |
| 31 | Underground Fiber Cabling Laying Charges for Road / Hard surface cutting | Sq. Ft | 10000 | | | | | |
| 32 | Underground Fiber Cabling Laying Charges for soft surface | Sq. Ft | 36000 | | | | | |
| 33 | Any additional components required | | | | | | | |
| A | SUB TOTAL - SUPPLY | | | | | | | |
| 34 | Installation & Commission Charges incl swatch bharat tax | LS | | | | | | |
| B | TOTAL - CCTV SYSTEM | | | | | | | |
| 35 | CONTROL ROOM RELAYOUT & FURNISHING - 33 X 22 SQ.FT) | SET | 1 | | | | | |
| C | GRAND TOTAL | | | | | | | |

NOTE:

- a) The quantity and Item scope are suggestive; however the Applicant should provide the exact scope & quantity based on their Site survey as part of the proposal.
- b) The Applicant should submit the design of customized items/activities such as Control Room layout, Junction Box etc., to the Authority for the approval prior to deploying at the site.
- c) Every component should have the details and the unit rate is applicable includes 5-year on-site comprehensive warranty period.



- d) The Applicants should clearly indicate applicable taxes and duties separately for each item/component, which they propose to charge. Offers with such stipulations like “As Applicable” will be treated as vague and are liable to be ignored.
- e) Any additional items or components required for the system that were not mentioned above should be included by the bidder under “Additional Components” and its details such as Make/Model, Quantity, Specifications etc.,
- f) ** - The Applicant is expected to carry out the Server, Storage with appropriate NAS box equipment, VMS & other Application software requirement estimation and supply as per the solution proposed. They may also refer to the bandwidth estimation as provided in the document. The Applicant may supply the storage in modular manner during the implementation.



13.3. IMPORTANT POINTS FOR SYSTEM DESIGN AND BID PROPOSAL

The following points should be considered while designing the system and preparing the bid proposal for a comprehensive coverage:

- i) A cost effective Recording & Storage solution should be worked based on the site conditions along with the basic Video Management Software features.
- ii) The storage calculation should be worked out based on the below points:
 - 30 day recording for 24-hour camera location
 - Recording at 18 FPS with motion detection
- iii) It is a turnkey project, the Applicant has performed proper due diligence to arrive at comprehensive bid proposal through the survey. Any change in the Quantities on the upper side would be borne by the successful Applicant and no Extra cost would be borne by the Authority.
- iv) The base rate of each item includes 5-year comprehensive on-site warranty.



14. ANNEXURE – 3 : TECHNICAL DETAILS

14.1. COMPONENT APPROVED MAKES

| # | EQUIPMENT / COMPONENT | APPROVED MAKES |
|----|--|--|
| 1 | CCTV Cameras | Arecont, Axis, Infinova, Pelco, Sony |
| 2 | Network Edge L2 Switches (Industrial Grade) | Allied Telesis, Cisco, Extreme |
| 3 | Network Switches L2 Switches (Non Industrial Grade) | Allied Telesis, Cisco, Extreme, Juniper |
| 4 | Network L3 Datacenter switches | Allied Telesis, Cisco, HP |
| 4 | Video Management Software (VMS) | Genetec, Milestone, Nice, Verint, |
| 5 | Display LED 42" & Above | LG, Panasonic, Samsung, Sony |
| 6 | VMS/Recording/Application/ Database Servers | Dell, IBM, HP (No assembled machines accepted) |
| 7 | Workstations | Dell, HP, Lenovo (No assembled machines accepted) |
| 8 | Data Cabling - Cat6 / Cat5e / Fiber & Terminations | Finolex, Sterlite, Usha Martin |
| 9 | Electrical Cabling | Finolex, Polycab, Finecab |
| 10 | MCBs & Electrical accessories | Anchor, Cabtree, Legrand, Hager, L&T |
| 11 | Outdoor / Indoor Racks | Netrack, Valrack, APW |
| 12 | PVC Conduits, Pipes, | ISI Makes |
| 13 | Other bought out items | ISI Makes |

INSTRUCTIONS TO BIDDERS:

- i) All quoted items, components are already deployed in the field and satisfactorily working in the last 6 months for respective OEMs and must have deployed at least one similar project of this tender size. The Bidder should submit the proof of the project deployment with respective item details from the OEM.
- ii) All field, edge level items, components should be vandal-proof certified.
- iii) All items/components should be IP-66 or equivalent compliant where necessary.
- iv) No China based (Firms registered in China & Hongkong) Original Equipment Manufacturer (OEM) products are allowed.
- v) OEM should have a full fledged ROC registered office in India and operational since last 3 years as on March 31, 2015.
- vi) OEM should have a support center in Hyderabad operational since last 3 years as on March 31, 2015.
- vii) No assembled Workstations or Servers are allowed.



14.2. IP BASED HIGH MEGAPIXEL FIXED DOME INDOOR CAMERA

| # | PARAMETER | MINIMUM SPECIFICATIONS OR BETTER |
|----|---------------------------------|---|
| 1 | Camera Type | IP based Full HD Fixed Dome Indoor Camera with built-in 64 GB Micro SD memory slot and 64 GB Class 10 48/890 Mbp/s memory card. |
| 2 | Video Compression | H.264 or better |
| 3 | Image Sensor | 1/2.8" or 1/3" Progressive Scan CCD /CMOS in 1920 x 1080 resolution; S/N Ratio : ≥ 50 db(AGC Off) |
| 4 | Multiple Simultaneous Streaming | Dual Streaming : Main Stream at Full Resolution (1920x1080) with Full Frame Rate; Second Stream: 720p resolution with full frame rate H.264,multicast streaming |
| 5 | Video Resolution | 1920 x 1080 – Full HD |
| 6 | Lens | Auto IRIS, Auto Focus 3 to 8 mm megapixel Lens, F1.4 or better |
| 7 | Lens Type | Varifocal, C/CS Mount, IR Correction |
| 8 | Frame Rate | Min. 25 FPS |
| 9 | Min. Illumination | 0 Lux with IR at 20 meters |
| 10 | Day/Night Vision | Color, Mono, Auto |
| 11 | Image Settings | Automatic Adjustments / Remote Control Settings – Color, brightness, sharpness, contrast, white balance, exposure control, backlight compensation, gain control, wide dynamic range ~ min. 120 db |
| 12 | IR Cut Filter | Automatically Removable IR-cut filter |
| 13 | Shutter Speed | 1/5s to 1/10,000s |
| 14 | Audio | Two-way Audio |
| 15 | Protocol | IPv4, IPv6, HTTP, HTTPS, FTP, RTSP, RTP, TCP, UDP, RTCP, DHCP, UPnP, QoS, Multicast, 802.1x, 10/100 Mbps Ethernet, IEEE 802.3af PoE (RJ45) |
| 16 | Operating Conditions | 0 to 60 deg C (Temperature), 50 to 90% (Humidity) |
| 17 | Power | 12V DC; 24V AC 802.3af compliant POE Class 3 |
| 18 | Security | Password Protection, IP Address filtering, User Access Log, HTTPS encryption |
| 18 | Housing & Casing | IP66 rated; Tamper Resistant casing for Indoor environment; Vandal Proof |
| 20 | Certification | UL for specific models and power adapter, EN/CE & FCC |
| 21 | Compliant | ONVIF Profile S / G Fully Compliant |



14.3. IP BASED HIGH MEGAPIXEL BULLET / BOXFIXED OUTDOOR CAMERA

| # | PARAMETER | MINIMUM SPECIFICATIONS OR BETTER |
|----|---------------------------------|--|
| 1 | Camera Type | IP based Full HD Bullet/Box Fixed Camera with built-in 64GB Micro SD memory slot and 64 GB Class 10 48/890 Mbp/s memory card. |
| 2 | Video Compression | H.264 or better |
| 3 | Image Sensor | 1/2.8" or 1/3" Progressive Scan CCD /CMOS in 1920 x 1080 resolution; S/N Ratio : ≥ 50 db(AGC Off) |
| 4 | Multiple Simultaneous Streaming | Dual Streaming : Main Stream at Full Resolution (1920x1080) with Full Frame Rate; Second Stream: 720p resolution with full frame rate H.264 multicast streaming |
| 5 | Video Resolution | 1920 x 1080 – Full HD |
| 6 | Lens | Auto IRIS 3 to 8 mm F1.4 or better |
| 7 | Lens Type | Varifocal, C/CS Mount, IR Correction |
| 8 | Frame Rate | Min. 25 FPS |
| 9 | Min. Illumination | Color: 0.5 lux, B/W: 0.1 lux at 30 IRE |
| 10 | Day/Night Vision | Color, Mono, Auto |
| 11 | Image Settings | Automatic Adjustments / Remote Control Settings – Color, brightness, sharpness, contrast, white balance, exposure control, backlight compensation, gain control, wide dynamic range~ min. 120 db |
| 12 | IR Cut Filter | Automatically Removable IR-cut filter |
| 13 | Shutter Speed | 1/5s to 1/25,000s |
| 14 | Audio | Line-in |
| 15 | Protocols | IPv4, IPv6, HTTP, HTTPS, FTP, RTSP, RTP, TCP, UDP, RTCP, DHCP, UPnP, QoS, SMTP, multicast, 802.1x, 10/100 Mbps Ethernet, IEEE 802.3 afPoE (RJ45) |
| 16 | Operating Conditions | 0 to 50 deg C (Temperature), 50 to 90% (Humidity) |
| 17 | Power | 12V DC; 24V AC 802.3af compliant POE Class 3 |
| 18 | Security | Password Protection, IP Address filtering, User Access Log, HTTPS encryption |
| 19 | Casing | NEMA 4X / IP-66/IP-67 Rated weather proof housing, Mount bracket with cable concealment; Vandal Proof |
| 20 | Certification | UL for specific models, EN/CE & FCC |
| 21 | Compliant | ONVIF Profile S / G Fully Compliant |



14.4. IP BASED HIGH MEGAPIXEL DOME PTZ CAMERA

| # | PARAMETER | MINIMUM SPECIFICATIONS OR BETTER |
|----|---------------------------------|---|
| 1 | Camera Type | IP based Full HD Dome PTZ Camera, with built-in 64GB Micro SD memory slot and 64 GB Class 10 48/890 Mbp/s memory card. |
| 2 | Video Compression | H.264/H.265, MJPEG |
| 3 | Image Sensor | 1/3" or 1/4" Progressive Scan CCD /CMOS in 1920 x 1080 resolution; S/N Ratio : ≥ 50 db(AGC Off) |
| 4 | Multiple Simultaneous Streaming | Dual Streaming : All streams at Full Frame Rate and Full Resolution H.264 / H265, MJPEG multicast streaming |
| 5 | Video Resolution | 1920 x 1080 – Full HD |
| 6 | Lens | Auto Focus, 30x |
| 7 | Lens Type | Varifocal, C/CS Mount, IR Correction |
| 8 | Frame Rate | Min. 25 FPS |
| 9 | Min. Illumination | Color: 0.5 lux, B/W: 0.1 lux at 30 IRE |
| 10 | Day/Night Vision | Color, Mono, Auto |
| 11 | Image Settings | Automatic Adjustments / Remote Control Settings – Color, brightness, sharpness, contrast, white balance, exposure control, backlight compensation, gain control, wide dynamic range~ min. 120 db |
| 12 | IR Cut Filter | Automatically Removable IR-cut filter |
| 13 | Shutter Speed | 1/5s to 1/25,000s |
| 14 | PTZ Controls | Pan: 360 deg endless/continuous, 0.2 to 300 deg/s (auto), 0.2 to 100 deg/s (Manual), Tilt: 90 deg, 0.2 to 100 deg/s (Auto), 0.2 to 40 deg/s (Manual), 30x Optical Zoom, 10x digital Zoom, min. 64 preset positions, Auto tracking, pre-set tour |
| 15 | Protocol | IPv4, IPv6, HTTP, HTTPS, FTP, RTSP, RTP, TCP, UDP, RTCP, DHCP, UPnP, QoS |
| 16 | Operating Conditions | 0 to 50 deg C (Temperature), 50 to 90% (Humidity) |
| 17 | Power | 802.3at compliant POE+ |
| 18 | Security | Password Protection, IP Address filtering, User Access Log, HTTPS encryption |
| 19 | Casing | NEMA 4X / IP-66 Rated or equivalent; Vandal Proof |
| 20 | Certification | UL for specific camera model, EN/CE & FCC |
| 21 | Compliant | ONVIF Profile S / G Fully Compliant |



14.5. EDGE LEVEL NETWORK SWITCH

| # | PARAMETER | MINIMUM SPECIFICATIONS OR BETTER |
|----|------------------------|---|
| 1 | Switch Type | Network Switch at camera location (Non Industrial grade) |
| 2 | Ports | 4/8 10/100/1000ethernetPoE ports with additional 2 / 4Gigabit ports with switching capability of minimum 20Gbps. All ports on Gigabit |
| 3 | PoE Standard | IEEE 802.3af, at or better; Power wattage required is minimum 120W having at least 4*30W at 802.3at |
| 4 | Protocols Support | IPv4, IPv6, 802.1Q VLAN, DHCP support, IGMP, SNMP, Loop protection and detection, Ring Protection, End Point Authentication |
| 5 | Access Control Support | Port Security; 802.1x port based access control; MAC filtering |
| 7 | Operating Temperature | 0 to 50 deg C |
| 8 | Multicast Support | IGMP Snooping v1, v2, v3; MLD snooping v1, v2 |
| 9 | Management | RS-232/USB console port for management via a console or PC; Web GUI; Syslog for log capturing; SNMP v1, v2, v3 |
| 10 | Certification | EC & FCC; ONVIF compliant |



14.6. AGGREGATION (CORE)/CONTROL ROOM SWITCH (L3 MANAGEABLE)

| # | PARAMETER | MINIMUM SPECIFICATIONS OR BETTER |
|---|------------------------|---|
| 1 | Switch Type | Network L3 Manageable Switch at Control Room or Aggregation Point |
| 2 | Ports Support | 24*10/100/1000 ports with min. 4*100/1000 SFP port switch; Support two additional expansion slots for additional 4 nos of 1G/10G ports Auto-negotiate, full/half duplex and flow control for half duplex; All ports on Gigabit |
| 3 | MAC Support | 16K MAC address |
| 4 | Backplane | <ul style="list-style-type: none"> • 128Gbps(24*2Gbps + 4*20 Gbps) or more switching fabric capacity for 24 ports |
| 5 | Forwarding Rate | <ul style="list-style-type: none"> • Packet Forwarding Rate should be 96 Mpps or better |
| 6 | Flow Control | <ul style="list-style-type: none"> • IEEE 802.3x flow control for full-duplex mode ports |
| 7 | Protocols Support | <ul style="list-style-type: none"> • 802.3 ad LACP Link Aggregation port tunks; Port Mirroring and Trunking • 802.1 D,S,X,Q VLAN, w, p Protocols • 802.1 Q Tagged VLAN and port based VLANs and Private VLAN; • IGMP v1, v2, and v3 snooping and querying; DHCP; DHCP snooping/relay; Multicasting; SRR / WRR scheduling; • Loop protection and detection; Ring protection • Routing protocols – RIP version 1 and 2, OSPF, BGP, PIM-DM, PIM-SM |
| 7 | Access Control Support | Port Security; 802.1x port based access control; MAC filtering; RADIUS authentication |
| 8 | Protocol and Traffic | Support NTP; SNTP; Traffic Segmentation; Port based TOS, DSCP, TCP/UDP port number |
| 9 | Management | RS-232/USB console port for management via a console or PC; Web GUI; Syslog for log capturing; SNMP v1, v2, v3; sflow; Support 4 groups RMON; Accessibility using Telnet, SSH, Console access, easier software upgrade using TFTP, configuration management through CLI, GUI based software utility and using web interface |



14.7. UPS 10 KVA AT CONTROL ROOM

| # | PARAMETER | MINIMUM SPECIFICATIONS OR BETTER |
|----|------------------------|--|
| 1 | Rating | 10 KVA |
| 2 | AC Input / Frequency | 230V \pm 15%; 50/60 Hz \pm 6% |
| 3 | DC Voltage | As per OEM |
| 4 | Charging Time | 12 hours for 90% of full Capacity |
| 5 | Charging Type | CVCC Internal controlled rectifier |
| 6 | Redundancy | Should work in redundant mode with another UPS device |
| 7 | Technology | IGBT Double Conversation |
| 8 | Output Voltage | 230V AC Single Phase |
| 9 | Voltage Regulation | \pm 1% for DC input variation & output load variation |
| 10 | Waveform | PWM Sine wave |
| 11 | Inverter Efficiency | More than 92% |
| 12 | Overload | 150% for 60 sec |
| 13 | Transient Recovery | \pm 4% under full load change and corrected within 60m sec |
| 14 | Audible Noise | Less than 45 db at 1 meter |
| 15 | Microprocessor Feature | Microprocessor based Digital LCD meter for output voltage, output current and frequency, DC voltage & Current, battery and load percentage |
| 16 | Indications & Alarms | LED indications for Mains ON, DC Low, Inverter ON, Fault, Output Overload, |
| 17 | Protections | Output overload, short circuit, output under and over voltage, DC under & over voltage, Input under & over voltage, single phasing and phase unbalance |
| 18 | Operating Temperature | 0 – 50 Deg C |
| 19 | Humidity | Max. 95%, Non-Condensing |
| 20 | BYPASS | Manual Bypass swtich, Static bypass switch bi-directional, |
| 21 | Backup Time | Heavy Duty Batteries with min. 4 hours backup time on full load |
| 22 | Certification | UL Certified |



14.8. OTHER CRITICAL COMPONENTS

| # | COMPONENT NAME | MINIMUM SPECIFICATIONS OR BETTER |
|---|--|---|
| 1 | FIELD JUNCTION BOX | Suitable size as per site conditions to cover field equipment; Powder coated CRCA sheet / stainless sheet with min. 1.2 mm thickness and lock; On wall/pole /ground mounting as per site conditions; Rack Mount/DIN Rail Form factor; Adjustable fan, cable entry with glands, Rain Canopy where exposed outside |
| 2 | CAMERA POLES | Hot dip galvanized after fabrication with silver coating as per IS:2629 and IS-2713 (1980); 6 – 8mtr long as per site conditions with min. 10 cm diameter pole with larger diameter for higher height; suitable size cantilevers with adjustments on the pole; Minimum bottom base plate of 30x30x15 cms; All wiring, cabling must be hidden, through tubes/pipes as no wires/cables should be visible outside; ensure pole foundation is vibration free with an expected foundation depth of min. 100 cm. |
| 3 | DATA CABLE – UTP | <ul style="list-style-type: none"> • Cat 6 UTP cable for indoor cabling • Cat 5e (STP) for outdoor cabling • Cat 5 armored cabling for underground |
| 4 | DATA CABLE – Optic Fiber Cable (OFC) | Single Mode 6-core Optical Fiber Cable |
| 6 | 42” LED Display Monitor | <ul style="list-style-type: none"> • 42” LED with :09 aspect Ratio, Full HD Resolution (1920 x 1080p), • 5000:1 (Native) and 100000:1 (Dynamic) contrast Ratio; • HDMI In; DVI In, VGA In Component/Composite, RS232C In, • LAN, Bright Sensor and embedded media player, • Required accessories namely corrosion free brackets for wall mount, cables for DHMI, DVI of min. 15 mtrs length, • AV Input-1 No; Video I/P-RGB, HDMI/DVI, USB Input, Power Supply – AC 100-240V, 50/60 Hz; • Suitable 24x7 operations; UL certified |
| 7 | Workstation with 21/22” Monitor with full resolution | Intel Core i5 processor, 8GB RAM DDR3 memory scalable upto 32 GB, ECC memory modules support; min. 250GB 7200RPM HDD, NVIDIA 2GB Graphics card, USB Keyboard, USB Optical mouse, Onboard gigabit Ethernet, Min. 2 Nos. of PCI slots including 1 PCIe 3.0 x16, PCI3 2.0x16, min. 4USB2 ports, one Ethernet RJ-45 port, preloaded with licensed windows 7 pro, 90% energy efficient EPEAT Gold certified power supply, UL, Energy star certification |
| 8 | External Microphone | External Microphone to be recorded on the server with high quality synchronized with the camera video |