

# GREATER HYDERABAD MUNICIPAL CORPORATION (GHMC)



## E-TENDERS ARE INVITED FOR

“SUPPLY AND INSTALLATION OF IT EQUIPMENT, PERIPHERALS, SOFTWARE, SEVERS AND NETWORK ITEMS TO O/o THE MSU (METROPOLITAN SURVEILLANCE UNIT), HYDERABAD AT HARI HARA KALA BHAVAN, GHMC”

**Tender No:14/S1/IT/GHMC/2025-26 Dt: 10.03.2026**

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Prepared by

**GREATER HYDERABAD MUNICIPAL CORPORATION**

**Tank Bund Road, CC Complex, Hyderabad-500063.**

## HOW TO APPLY ON e-PROCUREMENT PORTAL

- a. Applications can be downloaded from Government of Telangana e-Procurement Website <https://tender.telangana.gov.in/> under login for suppliers. Aspiring parties who have not registered in e-procurement should register before participating through the website <https://tender.telangana.gov.in/>
- b. The details of the process of registration and obtaining the digital signature certificates are available on the website: <https://tender.telangana.gov.in/> Necessary hands on training could be obtained from the center for M/s Vupadhi Techno Services Pvt. Ltd. and could also be obtained over telephone at +91-4040-44426250/51 Fax +91-40-44426252 or mail to [tseprocsupport@vupadhi.com](mailto:tseprocsupport@vupadhi.com). can access the application on the website, fill them with all relevant information, and submit the completed application and supporting documents
- c. **Read the complete document, carefully** PDF versions or scanned copies of the required documents are to be uploaded on the website.
- d. The system will generate an acknowledgement with a unique offer submission number on successful completion of the above process.
- e. For any help or technical support on e-Procurement, Bidders may contact M/s Vupadhi Techno Services Pvt. Ltd over phone or in person or their helpdesk at: e-Procurement Help Desk. +91 40-33762222, 23 / [tseprocsupport@vupadhi.com](mailto:tseprocsupport@vupadhi.com) .

**Letter of Undertaking on Company Letter head**

To  
The Addl. Commissioner (IT)  
3<sup>rd</sup> Floor, GHMC Head Office,  
Tank Bund Road,  
Hyderabad. 500029

Sir,

Reg: Tender for Supply and installation of IT Equipment, Peripherals, Software, Severs and Network items to O/o the MSU (Metropolitan Surveillance Unit), Hyderabad at Hari Hara Kala Bhavan, GHMC, we submit our Bid Document herewith.

We understand that

- You are not bound to accept the lowest or any bid received by you, and you may reject all or any bid.
- If our Bid for the above job is accepted, we undertake to enter into and execute at our cost, when called upon by the purchaser to do so, a contract in the prescribed form. Unless and until a formal contract is prepared and executed, this bid together with your written acceptance thereof shall constitute a binding contract between us.
- If our bid is accepted, we are to be jointly and severally responsible for the due performance of the contract
- You may accept or entrust the entire work to one vendor or divide the work to more than one vendor without assigning any reason or giving any explanation whatsoever.

*(Vendor means the bidder who is decided and declared so after examination of commercial bids.)*

Yours faithfully

For \_\_\_\_\_

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

## GREATER HYDERABAD MUNICIPAL CORPORATION: HYDERABAD

O/o Additional Commissioner (IT),  
3<sup>rd</sup> floor, IT Section, Head Office,  
Tank Bund, Hyderabad.

(FORWARDING SLIP TO ACCOMPANY TO THE TENDER SCHEDULE)

1)	Tender Notice No. & Date	:	14/S1/IT/GHMC/2025-26, Dt:10.03.2026
2)	Name of the Work	:	Supply and Installation of IT Equipment's, Peripherals, Software, Severs and Network items to O/o the MSU (Metropolitan Surveillance Unit), Hyderabad at Hari Hara Kala Bhavan, GHMC.
3)	Name and address of the Agency	:	M/s. _____
4)	<b>Bid Processing Fee</b> (By way of DD drawn on or after <b>10.03.2026</b> from any scheduled Bank)	:	Rs. 13000 should be drawn in form of DD in favour of Commissioner, GHMC
5)	<b>Earnest Money Deposit</b>	:	<b>Rs. 1,30,000 (initial payment)</b> shall be paid while submitting bids through online payment at <a href="https://tender.telangana.gov.in/">https://tender.telangana.gov.in/</a> and the balance amount of the tender value calculated @ 2.5% should be paid at the time of 1 <sup>st</sup> Purchase Order and agreement in favour of Commissioner, GHMC
6)	Bid Document Down Load start Date	:	11.03.2026 @ 11:00 AM onwards
7)	End date of Submission	:	13.03.2026 @ 04:00 PM
8)	Opening of Financial Bids	:	13.03.2026 @ 04:05 PM
9)	Address	:	O/o Additional Commissioner(IT), 3 <sup>rd</sup> floor, IT Section, Head Office, Tank Bund, Hyderabad.
10)	Contact Number & mail:	:	6309999458 <a href="mailto:deeit-ghmc@gov.in">deeit-ghmc@gov.in</a>

## Section A

### NOTICE INVITING TENDERS

Tenders are invited on e-Procurement platform from the OEMs/Authorized Dealers/Authorized Partners for providing of all the peripherals. A complete set of tender document can be downloaded from the website of <https://tender.telangana.gov.in/> on payment of nonrefundable amount As mentioned in the Tender Document, Non-refundable (under any circumstances) Bid Processing fee through D.D. drawn in favor of the Commissioner, Greater Hyderabad Municipal Corporation, Hyd (Submit the DD copy at 2<sup>nd</sup> floor, IT Section, Head Office, GHMC) and the GST as mentioned in the Tender Document is to be paid to Commercial Tax Department online e-Payment on <https://www.tgct.gov.in/tgportal/DLR Services/Payments/e-PaymentGen.aspx>

#### Time schedule of various tender related events:

Tender Notification/Bid calling date	11.03.2026
Bid Submission Due date and time	13.03.2026 @ 04:00 PM on e-Procurement portal
Opening of the Prequalification & Technical bids	13.03.2026 @ 04:05 PM
Bid Document Price	Rs. 13000/-
Contact Email	<a href="mailto:deeit-ghmc@gov.in">deeit-ghmc@gov.in</a> or <a href="mailto:satya.goundla@gov.in">satya.goundla@gov.in</a> 630999458/7331189765
Reference No.	14/S1/IT/GHMC/2025-26, Dt: 10.03.2026

The interested bidders should read the tender document carefully along with Corrigendum (if any). The Tender Participant must fulfill the qualification criteria mentioned in the tender document. All tender offers must be uploaded on or before 13.03.2026 at 04:00 PM duly uploading the copies of DDs along with other documents as per terms and conditions as stipulated.

# **Introduction & Scope of Work**

## **1. The Background, Solution, Service or Material required:**

### **1.1. Introduction & Background:**

The Commissioner - GHMC invites tender for IT Equipment, Peripherals, Software, Servers and Network items to O/o the MSU (Metropolitan Surveillance Unit), Hyderabad at Hari Hara Kala Bhavan, GHMC from the experienced and reputed firms / agencies including Original Equipment Manufacturers (OEM), Solution Providers, and System Integrators having proven expertise in the proposed work. The firms / agencies should have after sales & service facilities at Hyderabad City and should have technical competency in using latest available technologies.

Bidders are advised to study the Tender document and Terms & Conditions carefully and completely. Submission of Bids shall be deemed to have been done after careful study of Tender document and examination of Terms & Conditions with full understanding of its implications.

### **1.2. The Scope, Solution, Service or Material required:**

- I. The successful bidder shall be responsible for supply, installation, configuration, commissioning with genuine licensing, warranty, and compliance as per GHMC requirements.
- II. Providing Networking equipment would cover supply, installation and operationalization of the hardware, all necessary application software's and maintenance of the equipment supplied for entire warranty period and with back-to-back support from the OEM. The new systems provided should integrate well with the existing facility.
- III. Successful Bidder will take total responsibility for configuration and integration of supplied equipment with all necessary connecting cables and other equipment's need to be provided by the bidder at their own cost along with the cost involved on electrical connections.

### 1.3 Payment Terms:

- a. In case, if the site is not made available for installation of supplied items during the period of delivery and installation as given in the bidding document, then the bidder would request purchaser in writing accompanied by "Site Not Ready" certificate duly sealed & signed from the Nodal Officer for extension of installation period without liquidity damages.
- b. All remittance charges will be borne by the supplier/ selected bidder.
- c. Advance Payments will not be made.
- d. Any penalties/liquidated damages, as applicable for delay and non-performance, as mentioned in this bidding document, will be deducted from the payments for the respective mile stones.
- e. Taxes (GST.), as applicable, will be deducted at source, from due payments, as per the prevalent rules and regulations.

### 1.4 SLA/Penalties

Item	Description
LD for late deliveries/installations	<b>0.5% of value of item/s of the late delivered or deemed late delivered/installed goods for One week or part thereof, 0.75% of value of item/s for Two weeks or part thereof, 1% of value of item/s for Three weeks or part thereof, 1.25% of value of item/s for 4 weeks or part thereof and so on.</b>
Maximum LD for late deliveries/installation	Maximum LD for late deliveries/installations: 5% on the Total value of goods for that location/ site for late delivery/ installation or deemed late delivered/ installed goods.
Penalty for failure to maintain during warranty period for all items.	For any delay beyond permissible down time, a penalty of Rs. 500/- will be levied for each day or part there of subject to a maximum of total equipment cost. *The penalty amount will be deducted from the amounts payable to the bidder by GHMC. Once this amount is exhausted, penalty amount will be recovered from the Performance Security. Once the Performance Security also exhausted, the bidder will be required to recoup the Performance Security. If the bidder fails to recoup the Performance Security, the bidder will be debarred from participating in tenders till the time he recoups the Performance Security.

### Confidentiality

The Bidder must maintain absolute confidentiality of the documents/maps/tools collected in any form including electronic media and any other data/information provided to him for the execution of the work.

## Section B

### **2. General Instructions to Bidders**

#### **A. Definitions:**

1. **Tender call or invitation for bids** means the detailed notification seeking a set of solution(s), service(s), materials or any combination of them.
2. **Specification** means the functional and technical specifications or statement of work, as the case maybe.
3. **Firm** means a company, authority, co-operative or any other organization incorporated under appropriate statute as is applicable in the country of incorporation.
4. **Bidder** means any firm offering the solution(s), service(s) and/or materials required in the tender call. The word vendor when used in the pre award period shall be synonymous with bidder and when used after award of the contract shall mean the successful bidder with whom GHMC signs the contract for rendering of goods and services.
5. **Pre-qualification and Technical bid** means that part of the offer that provides information to facilitate assessment by GHMC, professional, technical and financial standing of the bidder, conformity to specification setc.
6. **Financial Bid** means that part of the offer, that provides price schedule, total project costs etc.
7. **Three part Bid** means the pre-qualification bid, technical and financial bids
8. **Goods and services** mean the solution(s), service(s), materials or a combination of them in the context of the tender call and specifications.
9. **The word goods** when used singly shall mean the hardware, firmware component of the goods and services.
10. **Maintenance period** means period mentioned in bid document for maintaining the systems beyond warranty period.

#### **B. General Eligibility**

1. This invitation for bids is open to all firms both from within and outside India, who are eligible to do business in India under relevant Indian laws as is in force at the time of bidding subject to meeting the pre qualification criterion.
2. Bidders marked/considered by GHMC to be ineligible to participate for non-satisfactory past performance, corrupt, fraudulent or any other unethical business practices shall not be eligible.
3. Bidder/Consortium Member debarred/ blacklisted by any Central or State Govt. / Quasi – Govt. Departments or organizations as on bid calling date for non-satisfactory past performance, corrupt, fraudulent or any other unethical business practices shall not be eligible.
4. Breach of general or specific instructions for bidding, general and special conditions of contract with GHMC or any of its user organizations may make a firm ineligible to participate in bidding process.

## **2.1 Pre-Qualification criteria**

Bidders should have sufficient experience in the field of implementation of Networking Server & other IT Hardware projects and should meet the following Pre-qualification criteria:

#	Pre-Qualification Criteria	Supporting Documents to be submitted
1	<b><u>Legal Entity</u></b> OEM Authorized partner must be a corporate in India, firm should be registered with the GST	i) Copies of GST Registration certification ii) Copy of PAN Card
2	OEM/Bidder should be a Manufacturer/ Authorized representative of an OEM and should be in business of manufacture and or supply and maintenance of the offered items in India as on bid calling date.	The valid Manufacture Authorization Form Specific to this tender for the items (Audio System, Video Conference Equipement, Firewall, UPS, Servers and 55" & 75" Displays Mandatorily) to be submitted in PQ Bid along with the details of manufacturing unit.
3	<b><u>Financial Turnover</u></b> Bidder should have annual turnover of Rs. 2.5 Crores at least any one year in the last 3 years of business. i.e., Financial Years 2022-23, 2023-24 and 2024-25 from supply, installation of Networking solutions/ IT hardware/IT-ITES	i) Audited Balance sheet for each financial year. or ii) Certificate from the Statutory Auditor.
4	<b><u>Past Experience</u></b> Bidder should have experience minimum Rs.65 Lakhs worth of orders from the Similar projects i.e., from Central/ State Government Departments/ PSU's / ULBs in supply & maintenance of Networking/IT Equipment during the last 3 years of business. i.e., Financial Years 2022-23, 2023-24 and 2024-25.	Bidder should submit any of the following: i) Work order & work completion certificate from client. ii) Performance certificate duly signed by the authorized signatory from the client end. iii) Work satisfactory certificate from the client.
5	<b><u>Service Centre</u></b> OEM/ Bidder should have Service Centre in Hyderabad with technical team as on date of bidding.	Self-certified Address on Letter head to be submitted.
6	<b><u>Blacklist</u></b> Bidder and OEM shall not be black listed by any State / Central Government departments, Ministry or Agency for breach of Contractual conditions as on Bid Calling date. The Applicant should also not be entangled in any legal disputes with any Govt./PSU body.	Self-Declaration Certificate on Letter Head by authorized signatory that the Applicant/OEM is not black listed and is not in any legal disputes as on the bid calling date to be submitted in the bid duly signed by the authorized signatory.
7	<b>Product Declaration:</b> The products quoted should not be declared as end of life at the time of delivery and OEM should support the products quoted for at least 5 years	A letter to this extent from OEM to be attached as a confirmation. The bidder to submit the declaration letter as per format in PQ forms.

## **Important Points:**

- 1. Consortium bid not allowed.**
2. GHMC reserves their right in not considering the bid of a bidder, if such bidder is a previous supplier and had a past bad track record or their earlier performance was unsatisfactory on any count or they do not possess required experience in undertaking the work.

Any bidder who offers discounts/ benefits suomoto after opening of commercial bid(s) will be automatically disqualified from the current bidding process without any prior notification and also may be disqualified for future bidding processes in GHMC.

- a. The bidder should upload all the required documents with clear visibility, avoid missing documents and avoid bidding mistakes. In such cases, GHMC reserves it's right in seeking clarification from the bidder and may disqualify the bidder for the bidding mistakes, missing documents and for the documents that are not clear.
- b. Application Fee, Earnest Money Deposit, etc. shall be submitted by the lead member Firm.

### **2.2 Cost of Bidding**

1. The bidder shall bear all costs associated with the preparation and submission of its bid, and GHMC will in no case be responsible for those costs, regardless of the conduct or outcome of the bidding process.
2. Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or to submit a bid not substantially responsive to the bidding documents in every respect will be at the bidder's risk and may result in the rejection of its bid.

### **2.3 Clarification of bidding documents**

1. A prospective vendor requiring any clarification of the bidding documents may notify GHMC contact person. Written copies / e-mail of the GHMC response (including an explanation of the query but without identifying the source of inquiry) will be sent to all prospective bidders that have received the bidding documents.
2. The concerned person will respond to any request for clarification of bidding documents which it receives no later than bid clarification date mentioned in the notice prior to deadline for submission of bids prescribed in the tender notice. No clarification from any bidder shall be entertained after the close of date and time for seeking clarification mentioned in tender call notice. It is further clarified that GHMC shall not entertain any correspondence regarding delay or non-receipt of clarification from GHMC.

### **2.4 Amendment of bidding documents**

1. At any time prior to the deadline for submission of bids, GHMC, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, may modify the bidding documents by amendment.
2. All prospective bidders those have received the bidding documents will be notified of the amendment and such modification will be binding on all bidders.

3. In order to allow prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the GHMC, at its discretion, may extend the deadline for the submission of bids.

### **2.5 Period of validity of bids**

1. Bids shall remain valid for their duration specified in the bid document, after the date of bid opening prescribed by GHMC. A bid valid for a shorter period shall be rejected as non-responsive.
2. In exceptional circumstances, the GHMC may solicit the bidders' consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The bid security shall also be suitably extended. A bidder granting the request will not be permitted to modify its bid.

**Submission of bids:** The bidders shall submit all the bids i.e., Pre-Qualification, Technical and Financial Bids on e- Procurement website only.

### **2.6 Deadline for submission of bids**

1. Bids must be submitted on e-procurement website not later than the bid submission date and time specified in the tender call notice.
2. The GHMC may, at its discretion, extend this deadline for the submission of bids by amending the tender call, in which case all rights and obligations of the GHMC and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.
3. Any bid not received by the GHMC by the deadline for submission of bids will be rejected

### **2.7 Modification and withdrawal of bids**

- No bid can be modified subsequent to the deadline for submission of bids.
- No bid can be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity. Withdrawal of a bid during this interval will result in the forfeiture of its bid security (EMD).

### **2.8 General Business information:**

The bidder shall furnish general business information to facilitate assessment of its professional, technical and commercial capacity and reputation.

### **2.9 Bid Security i.e. Earnest Money Deposit (EMD)**

1. Tenders have to pay total 2.5% EMD on the Bid Price. Initial EMD payment of Rs. 1,30,000/- to be paid on the tender website and balance shall be calculated on the Invoice amount of the 1st purchase order issued and should be paid at the time of agreement in favour of Commissioner, GHMC, Hyderabad in the form of a DD, payable to the "Commissioner, Greater Hyderabad Municipal Corporation, Tank Bund, Hyderabad" drawn from any scheduled Bank. EMD in any other Form / Instrument shall not be acceptable. This EMD does not carry any interest.
2. It may be noted that no tendering party is exempted from payment of this Earnest Money Deposit. Tenders submitted without EMD shall be summarily rejected. EMD in respect of parties that are not selected shall be returned within one month.
3. Unsuccessful bidder's bid EMD will be discharged or returned as promptly as possible but not later than thirty (30) days after the expiration of the period of bid validity prescribed by GHMC.

#### **4. The bid security may be forfeited:**

- a. If a bidder withdraws its bid during the period of bid validity or quoted conditional bids deviating from the tender terms and conditions.
- b. in the case of a successful bidder, if the bidder fails:
  - i. To sign the contract in time; or
  - ii. To furnish Balance EMD 1.5 %.

#### **7. This EMD does not carry any interest**

- It may be noted that no tendering party is exempted from payment of this Earnest Money Deposit. Tenders submitted without EMD shall be summarily rejected. EMD in respect of parties that are not selected shall be returned within one month.

#### **2.10. Bid Validity**

The Commercial bid should be valid for minimum 3 months from the date of opening of qualification bid. GHMC may ask bidders to extend the period of validity. Commercial Bids of qualified bidders only shall be opened. The quote must be valid at least for three months from the date of opening of the commercial bid.

#### **Bid Submission & Evaluation:**

The bid should be submitted in 3 parts- PQ, TQ and Commercial bid as per the Formants/Annexures enclosed in the Tender document.

The bid evaluation shall be undertaken in 2 stages – PQ+TQ: Stage 1 evaluation and Commercial bid: Stage 2.

#### **3.1. Pre Qualification + Technical bid (Stage-1)**

It shall include the following information about the firm and/or its proposal.

1. (1%) EMD Online payment at <https://tender.telangana.gov.in/>
2. Process Fee (Cost of Tender Schedule)
3. EMD Online Payment Receipt
4. Firm Registration
5. GST Registration.
6. PAN Card
7. Declaration of Bidder (Annexure-I)
8. Record of Arbitration & Litigation (Annexure-II)
9. Bidder Information (Annexure-III)
10. Manufacturer Authorizations (Annexure-IV)
11. Experience Details & Materials Details (Annexure-V)
12. Technical Specifications Compliance (Annexure –VI)
13. Check List (Annexure-VII)

### **3. Standard Procedure for Bid Opening and Evaluation**

Bids will be in three parts (pre-qualification, technical and financial) indicated in the tender call. There will be three bid opening events, i.e., PQ, TQ and Commercial.

Following guidelines will generally be followed by GHMC officers at each such event. However GHMC may deviate from these in specific circumstances if it feels that such deviation are unavoidable, or will improve speed of processing and consequent project execution.

#### **3.1 Opening of bids**

Bids will be opened on the e-Procurement web site at the scheduled time & date.

The bidders names, bid modifications or withdrawals, discounts, and the presence or absence of requisite bid security and such other details as the GHMC officer at his/her discretion, may consider appropriate, will be announced at the opening. No bid shall be rejected at bid opening, except for late bids, which shall be returned unopened.

#### **3.2 Preliminary examination of Bids**

- a) Preliminary scrutiny will be made to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.
- b) Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If the vendor does not accept the correction of the errors, its bid will be rejected and its bid security may be forfeited. If there is a discrepancy between words and figures, the amount in words will prevail.
- c) GHMC may waive any minor informality, nonconformity or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any bidder.
- d) Prior to the detailed evaluation, GHMC will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations.
- e) If a bid is not substantially responsive, it will be rejected by the GHMC and may not subsequently be made responsive by the bidder by correction of the nonconformity.

**3.3 Clarification of bids:** During evaluation of the bids, the GHMC may, at its discretion, ask the bidder for clarification of its bid.

#### **3.4 Evaluation of Pre – qualification bids**

Pre – qualification bid documentation shall be evaluated in two sub-steps.

- a. Firstly, the documentation furnished by the vendor will be examined prima facie to see if the technical skill base and financial capacity and other vendor attributes claimed therein are consistent with the needs of this project.
- b. In the second step, GHMC may ask vendor(s) for additional information, visit to vendors site and/or arrange discussions with their professional, technical faculties to verify claims made in technical bid documentation.

- c. GHMC may also obtain the confirmation of the supporting documents from the issuing authority for verifying the authenticity of the submitted documents.

### **3.5 Evaluation of Technical bids.**

Technical bid documentation shall be evaluated in two sub-steps.

- a. Firstly, the documentation furnished by the vendor will be examined prima facie to see if the offer made, technical skill base and other vendor attributes claimed therein are consistent with the needs of this project.
- b. In the second step, GHMC may ask vendor(s) for additional information, visit to vendors site and/or arrange discussions with their professional, technical faculties to verify claims made in technical bid documentation.

### **3.6 Evaluation of Financial Bids**

Financial bids of those vendors who satisfy all phases of the pre-qualification and technical bid and corresponding to chosen technical bid choices will only be opened. All other financial bids will be ignored. GHMC will assess the nature of financial offers and may pursue any or all of the options mentioned under financial bid GHMC may at its discretion discuss with vendor(s) available at this stage to clarify contents of financial offer.

### **3.7 Evaluation and Comparison of Financial bids**

1. Evaluation of financial bids will exclude and not take into account any offer not asked for or not relevant to the present requirements of user.
  2. Evaluation of financial bid will take into account, in addition to the basic bid price, one or more of the following factors
    - a.) The projected costs for the entire contract Period;
    - b.) Past track record of bidder in supply/ services and
- c.) Any other specific criteria indicated in the tender call and/or in the specifications.

### **3.8. Preparation of Financial bid:**

#### **3.8.1. Overview of financial bid**

The financial bid should provide cost calculations corresponding to each component of the project.

#### **3.8.2. Bid prices:**

- a. The bidder shall indicate the unit prices (where applicable) and the total bid price of the goods/services it proposes to supply under the contract.
- b. Bidder's separation of price components will be solely for the purpose of facilitating the comparison of bids by GHMC and will not in any way limit the purchaser's right to contract on any of the terms offered.
- c. Prices quoted by the bidder shall be fixed during the bidder's performance of the contract and not subject to variation on any account unless otherwise specified in the tender call. A bid submitted with an adjustable price quotation will be treated as non responsive and will be rejected.
- d. Bid currency : Prices shall be quoted in Indian rupees.
- e. All the rates shall be quoted with all taxes (tax mentioned separately).

### **3.9 Contacting GHMC:**

Bidder shall not approach GHMC officers outside of office hours and / or outside GHMC office premises, from the time of the tender call notice to the time the contract is awarded.

Any effort by a bidder to influence GHMC officers in the decisions on bid evaluation, bid comparison or contract award may result in rejection of the bidder's offer and bidder may also be marked as ineligible for future bids. If the bidder wishes to bring additional information to the notice of the GHMC, it should do so in writing.

### **3.10 Award Criteria:**

Final choice of firm to execute this project shall be made on the basis of conformity to technical requirements, appropriateness of the product/services offered, appropriateness of financial offer from the point of view of cost-effectiveness, total cost of ownership over entire contract period for the product/services and past track record of bidder.

**The overall evaluation is based on L1 (Least Cost ) method. The bidder who quotes the least price (incl. taxes) will be ranked & declared as L1 bidder.**

### **3.11 GHMC right to vary quantities at time of award**

GHMC reserves the right at the time of award to increase or decrease the quantity, as indicated in tender call, from the quantity of goods and services originally specified in the specification without any change in unit price or other terms and conditions.

### **3.12 Other Conditions:**

1. GHMC reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected bidder(s) or any obligation to inform the affected bidder(s) of the grounds for such decision.
2. GHMC reserves the right to decide which ever plan is feasible as quoted in Annexure IV. Whatever plan is finalized, the bidder who stands as L1 will be selected.
3. Prior to expiration of the period of bid validity, GHMC will notify the successful bidder in writing, that its bid has been accepted.
4. Upon the successful bidder's acceptance to, GHMC will promptly notify each unsuccessful bidder and will discharge its bid security on e-procurement portal only.
5. GHMC will reject a proposal for award and also may debar the bidder for future tenders in GHMC, if it determines that the bidder has engaged in corrupt, fraudulent or unethical practices in competing for, or in executing a contract.

### **3.13. Quality Standards:**

1. This specification covers design manufacture, testing and delivery of the materials described as in the tender document.
2. The materials offered should have been successfully tested and the design should be in satisfactory operation for the duration of the contract.
3. All the materials should conform in all respects to highest standards of engineering, design, this specification and the latest revisions of relevant Indian / International standards, at the time of offer and the Purchaser should have the power to reject any work or material, which, in his judgment is not in full conformity to the standards specification. All material will be of the best class and will be capable of satisfactory operation under tropical conditions without distortion or deterioration.

### **3.14. Quantity to Quote:**

Bidder shall quote for full quantity indicated in the bid Specification. Offers for Partial quantity are liable for rejection.

### **3.15. Tests certificates:**

Tests will have to be conducted on the materials in case an order is placed, according to relevant standard and tests certificates in triplicate will have to be furnished. The tests that will be conducted on the materials as per relevant IS/ Tender specification should be stated in the tender. Each unit of the materials will be subject to the tests prescribed in the relevant standard (latest edition) before supply is affected. Untested materials will not be accepted. The certificates of type tests if any should also be submitted with the tender.

### **3.16. Deviation from Specification:**

1. Any Deviation from the specified specifications or improvement over the specification should be stated in the offer in the enclosed Schedule of deviation format.
2. The detailed dimensioned drawing will have to be furnished with the tender incase if it is applicable.

### **3.17 Corrupt or Fraudulent Practices:**

It is essential that the Purchaser as well as Bidder / supplier / contractor for the purposes of this provision, the terms set forth below as follows:

- (i) "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.
- (ii) "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the purchaser, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the purchaser of the benefits of free and open competition;

- (iii) “Unethical practice” means any activity on the part of bidder which try to circumvent tender process in any way. Unsolicited offering of discounts, reduction in financial bid amount, upward revision of quality of goods etc after opening of financial bids will be treated as unethical practice
  
- (iv) Will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
  
- (v) Will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at anytime determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a contract.

## Section C

### General Conditions of Proposed Contract (GCC)

#### 1. Standards

The goods supplied under this contract shall conform to the standards mentioned in the specifications, and, when no applicable standard is mentioned, the authoritative standards appropriate to the goods' country of origin shall apply. Such standard shall be the latest issued by the concerned institution.

#### 2. Use of documents and information

1. The vendor shall not, without prior written consent from GHMC, disclose/share/use the bid document, contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the GHMC in connection therewith, to any person other than a person employed by the vendor in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
2. The Vendor shall not, without prior written consent of GHMC, make use of any document or information made available for the project, except for purposes of performing the Contract.
3. All project related document (including this bid document) issued by GHMC, other than the contract itself, shall remain the property of the GHMC and shall be returned (in all copies) to the GHMC on completion of the Vendor's performance under the contract if so required by the GHMC.

#### 3. User License and Patent Rights

1. The Vendor shall provide licenses/relevant proofs for all products, supplied by it or acquired from others. In the event of any claim asserted by a third party for piracy/infringement, the vendor shall act expeditiously to extinguish such claim. If the vendor fails to comply and the GHMC is required to pay compensation to a third party resulting from such act, the vendor shall be responsible for compensation including all expenses, court costs and lawyer fees. The GHMC will give notice to the vendor of such claim, if it is made, without delay.
2. The Vendor shall indemnify the purchases against all third party claims of infringement of patent, trademark or industrial design rights arising from use of the goods, package or any part thereof.

#### 4. Inspection and Acceptance Tests

1. Inspection and tests prior to shipment of Goods and at final acceptance are as follows:
  - a. Inspection of the goods shall be carried out to check whether the goods are in conformity with the specifications mentioned in the bid document. Following broad test procedure will generally be followed for inspection and testing of hard ware and firm wares. The vendor will dispatch the goods to the ultimate consignee after internal inspection testing along with the supplier's inspection report, manufacturer's warranty certificate. The GHMC will test the equipment after completion of the installation and commissioning at the site of the installation. (If site preparation is not included in the tender call or specification, the vendor should furnish all details of the site requirement to the GHMC sufficiently in advance so as to get the works completed before receipt of the equipment.)
  - b. The Inspections and tests, at the discretion of GHMC, may be conducted on the premises

- of the Vendor or its subcontractor(s), at point of delivery, and / or at the good's final destination. If conducted on the premises of the Vendor or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to theGHMC.
- c. Should any inspected or tested goods fail to conform to the specifications the GHMC may reject the goods, and the vendor shall either replace the rejected goods or make alterations necessary to meet specification requirements free of cost to theGHMC/user.
  - d. GHMC' right to inspect, test and, where necessary reject the goods after the goods' arrival at user's site shall in no way be limited or waived by reason of the goods having previously been inspected, tested and passed by the GHMC or its representative prior to the goods shipment from the country oforigin.
  - e. Nothing in this clause shall in any way release the vendor from any warranty or other obligations under thiscontract.
  - f. The acceptance test will be conducted by the GHMC, their consultant or any other person nominated by the GHMC, at its option. There shall not be any additional charges for carrying out acceptance tests. Any reduction in functional requirements and performance specifications shall be ground for failure. Any malfunction, partial or complete failure of any part of hardware, firmware or excessive heating of hardware enclosures, motors attached to printers, drivers etc. shall be grounds for failure of acceptance test.. The vendor shall maintain necessary log in respect of the results of the tests to establish to the entire satisfaction of the GHMC, the successful completion of the test specified. An average uptake efficiency of 99% for the duration of test period (7 days) shall be considered assatisfactory.
  - g. In the event of the hardware failing to pass the acceptance test, A period not exceeding two weeks will be given to rectify the defects and clear the acceptance test, failing which the GHMC reserves the rights to get the Equipment replaced by the vendor at no extra cost to theGHMC/user.

## 5. Acceptance Certificates

On successful completion of acceptability test, receipt of deliverables etc, and after GHMC is satisfied with the working of the system, the acceptance certificate signed by the vendor and the representative of the GHMC will be issued. The date on which such certificate is signed shall be deemed to be the date of successful commissioning of the systems.

## 6. Delivery and Documents

Delivery of the goods/services shall be made by the vendor in accordance with the terms specified in the Schedule of requirements. The details of shipping and / or other documents to be furnished and submitted by the vendor are specifiedbelow.

### **For Goods supplied from abroad:**

1. Within 24 hours of shipment, the Vendor shall notify the GHMC and the Insurance Company by cable or telex or fax full details of the shipment including contract number, description of goods, quantity, the vessel, the bill of lading number and date, port of loading, date of shipment, port of discharge, etc. The Vendor shall mail the following documents to the GHMC, with a copy to the InsuranceCompany.
2. Four copies of supplier's invoice showing goods description, quantity, unit price and total amount;
3. 4 copies of packing list identifying contents of eachpackage;

4. Insurance certificate; Manufacturer's/Supplier's warranty certificate;
5. Inspection certificate, issued by the nominated inspection agency and
6. Supplier's factory inspection report; and Certificate of origin.

The above documents shall be received by the GHMC at least one week before arrival of Goods at the port or place of arrival and, if not received, the Vendor will be responsible for any consequent expenses.

**For Goods from within India:**

Upon delivery of the goods to the user, the vendor shall notify the GHMC and mail the following documents to the GHMC:

1. Four copies of the Vendor invoice showing goods description, quantity, unit price total amount;
2. Delivery note, or acknowledgement of receipt of goods from the user;
3. Manufacturer's or Supplier's warranty certificate;
4. Inspection Certificate issued by the nominated inspection agency, and the Supplier's factory inspection report.
5. Certificate of Origin;
6. Insurance policy;
7. Excise gate pass Octroi receipts wherever applicable duly sealed indicating payments made and
8. Any of the documents evidencing payment of statutory taxes.

The above documents shall be received by the GHMC before arrival of the Goods (except delivery note and where it is handed over to the user with all documents) and if not received, the vendor will be responsible for any consequent expenses.

**7. Insurance**

1. It is suggested that the goods supplied under the contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery up to user site.
2. The insurance should be for replacement value from "Warehouse to warehouse (final destination)" on "All Risks" valid upto 3 months till completion of delivery, installation and commissioning.

**8. Transportation**

Transport of the goods to the project site(s) shall be arranged by the vendor at his cost.

**9. Hardware Installation**

The vendor is responsible for all unpacking, assemblies, wiring, installations, cabling between computer units and connecting to power supplies. The vendor will test all hardware operations and accomplish all adjustments necessary for successful and continuous operation of the computer hardware at all installation sites.

## 10. **Incidental services**

The Vendor may be required to provide any or all the following services, including additional services:

- a. Performance or supervision or maintenance and/or repair of the supplied goods and services, for a period of time agreed by the parties, provided that this service shall not relieve the Vendor of any warranty obligations under this Contract, and
- b. Training of GHMC and/or its user organization personnel, at the Vendor's site and / or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied goods and services.
- c. Prices charged by the Vendor for the preceding incidental services, if any, should be indicated separately (if required), and same will be mutually negotiated separately.

## 11. **Spare parts**

1. The Vendor may be required to provide any or all of the following materials, notifications and information pertaining to spare parts manufactured or distributed by the Vendor.
2. Such spare parts as the GHMC may elect to purchase from the Vendor, provided that this election shall not relieve the Vendor of any warranty obligations under the contract and
3. In the event of termination of production of the spare parts, an advance notification to the GHMC of the pending termination, in sufficient time to permit the GHMC to procure needed requirements and
4. The Vendor shall ensure availability of spares in stock at his nearest service centre for immediate delivery such spare parts as: (a) are necessary for a minimum of 5 years of operation after installation at the Purchaser's sites (b) are necessary to comply with specifications.

## 12. **Warranty**

1. The Vendor warrants that the goods and services supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The Vendor further warrants that all goods and services supplied under this contract shall have no defect arising from design, materials or workmanship or from any act or omission of the Vendor that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.
2. The warranty period shall be as stated in bid document. The Vendor shall, in addition, comply with the performance guarantees specified under the contract. If, for reasons attributable to the Vendor, these guarantees are not attained in whole or in part, the Vendor shall, make such changes, modifications, and/or additions to the goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the contract at its own cost and expenses and to carry out further performance tests.
3. The equipment supplied should achieve required uptime.
4. GHMC/user shall promptly notify the Vendor in writing of any claims arising under this warranty.
5. Upon receipt of such notice, the Vendor shall, within the period specified in GCC and with all reasonable speed, repair or replace the defective goods and services or parts thereof, without costs to the user.
6. If the Vendor, having been notified, fails to remedy the defect(s) within a reasonable period, the GHMC/user may proceed to take such remedial action as may be necessary, at

the vendor's risk and expense and without prejudice to any other rights which the GHMC/ user may have against the Vendor under the contract.

### 13. **Maintenance service**

- Free maintenance services including spares shall be provided by the vendor during the period of warranty. User, at its discretion may ask the vendor to provide maintenance services after warranty period, i.e. Annual maintenance and repairs of the system at the rates indicated by bidder in its proposal and on being asked so, the vendor shall provide the same. The cost of annual maintenance and repairs cost (after warranty period), which will include cost of spares replaced, shall be paid in equal quarterly installments at the end of each quarter.
- The maximum response time for maintenance complaint from any of the destination (i.e. time required for supplier's maintenance engineers to report to the installations after a request call/telegram is made or letter is written) shall not exceed 48 hours.
- The vendor will accomplish preventive and breakdown maintenance activities to ensure that all hardware, and firmware execute without defect or interruption for at least required uptime.
- In case up time is less than the stipulated up time, penalty as indicated in the bid document shall be imposed on the vendor.
- The amount of penalty if any, will be recovered at source from the performance guarantee during the warranty or from annual maintenance charges payable as the case may be.

### 14. **Prices**

Prices charged by the Vendor for goods delivered and services performed under the contract shall not vary from the prices quoted by the Vendor in its bid, with the exception if any price adjustments authorized in special conditions of contract or in the request for bid validity extension, as the case may be.

### 15. **Change orders**

GHMC may, at any time, by written order given to the Vendor, make changes within the general scope of the Contract in any one or more of the following:

- i. Drawing, designs, or specifications, where Goods to be supplied under the Contract are to be specifically manufactured for the GHMC;
- ii. The method of shipment or packing;
- iii. The place of delivery and/or the services to be provided by the Vendor. If any such change causes an increase or decrease in the cost of, or the time required for, the vendor's performance of any provisions under the contract, an equitable adjustment shall be made in the contract price or delivery schedule, or both, and the contract shall accordingly be amended. Any claims by the Vendor for adjustment under this clause must be asserted within thirty (30) days from the date of the Vendor's receipt of the change order.

### 16. **Contract Amendment**

No variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

## **17. Assignment & Subcontract**

The Vendor shall not assign, in whole or in part, its obligations to perform under this Contract, except with the prior written consent from GHMC. Sub-Contracting is not allowed.

## **18. Delays in the Supplier's Performance**

Delivery of the Goods and performance of the services shall be made by the Vendor in accordance with the time schedule specified by the GHMC in the specifications.

1. If at any time during performance of the Contract, the Vendor or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the Vendor shall promptly notify the GHMC in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the vendor's notice, GHMC shall evaluate the situation and may at its discretion extend the Vendor's time for performance, with or without liquidated damages.
2. A delay by the Vendor in the performance of its delivery obligations shall render the vendor liable to the imposition of appropriate liquidated damages, unless an extension of time is agreed upon by GHMC without liquidated damages.

## **19. Liquidated damages**

If the Vendor fails to deliver any or all of the goods or perform the services within the time period(s) specified in the Contract, the GHMC shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to, as per the terms indicated in the bid document, until actual delivery or performance, subject to maximum limit. Once the maximum is reached, the GHMC may consider termination of the contract.

## **20. Termination for Default**

1. The GHMC, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Vendor, may terminate the Contract in whole or in part:
  - a. if the Vendor fails to deliver any or all of the Goods/services within the time period(s) specified in the contract, or within any extension thereof granted by the GHMC pursuant to GCCor
  - b. if the Vendor fails to perform any other obligation(s) under the Contract or
  - c. if the Vendor, in the judgment of the GHMC has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
2. In the event the GHMC terminated the contract in whole or in part, GHMC may procure, upon such terms and in such manner as it deems appropriate, goods or services similar to those undelivered, and the Vendor shall be liable to the GHMC for any excess costs for such similar goods or services. However, the Vendor shall continue performance of the contract to the extent not terminated.

## **21. Force Majeure**

1. The Vendor shall not be liable for forfeiture of its performance security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
2. For purposes of this clause, "Force Majeure" means an event beyond the control of the Vendor and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the GHMC in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

3. If a Force Majeure situation arises, the Vendor shall promptly notify the GHMC in writing of such condition and the cause thereof. Unless otherwise directed by the GHMC in writing,
4. the Vendor shall continue to perform its obligations under the Contracts far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

## **22. Termination for Insolvency**

GHMC may at any time terminate the contract by giving 30 days written notice to the Vendor if the Vendor becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Vendor, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the GHMC.

## **23. Termination for Convenience**

- GHMC may at any time by giving 30 days written notice to the Vendor, terminate the Contract, in whole or in part, for its convenience. The notice of termination shall specify that termination is for the GHMC/Purchaser's convenience, the extent to which performance of the Vendor under the Contract is terminated, and the date upon which such termination becomes effective.
- The goods that are complete and ready for shipment within thirty (30) days after the vendor's receipt of notice of termination shall be accepted by the GHMC at the contract terms and prices. For the remaining Goods, the GHMC may elect to have any portion completed and delivered at the contract terms and prices at its discretion.

## **24. Resolution of Disputes**

- The GHMC/ and the Vendor shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the contract.
- If after thirty (30) days from the commencement of such informal negotiations, the GHMC and the Vendor have been unable to resolve amicably a contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified here in. These mechanisms may include, but are not restricted to, conciliation mediated by a thirdparty.
- The dispute resolution mechanism shall be as follows:
- In case of a dispute or difference arising between the GHMC and the Vendor relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, of India, 1996.
- The place for settlement of disputes & arbitration shall be at Hyderabad Telangana State only.

## **25. Governing language**

The contract shall be written in English only. All correspondence and other documents pertaining to the contract which are exchanged by the parties shall be written in same languages.

## **26. Applicable law**

The contract shall be interpreted in accordance with appropriate Indian laws.

## **27. Notices**

- Any notice given by one party to the other pursuant to this contract shall be sent to the other party in writing or by telex, email, cable or facsimile and confirmed in writing to the other

party's address and also in the name of the authorized person and any notice addressed on any person other than the authorized person, the same shall not be a valid notice and not binding on the notice.

- A notice shall be effective when delivered or tendered to other party whichever is earlier.

## 28. **Taxes and duties**

The vendor shall be entirely responsible for all taxes, duties, license fee Octroi, road permits etc. incurred until delivery of the contracted Goods/services at the site of the user or as per the terms of tender document if specifically mentioned.

## 29. **Protection against damages- site conditions:**

- The system shall not be prone to damage during power failures and trip outs. The normal voltage and frequency conditions available at site are as under:
  - a. Voltage 230Volts
  - b. Frequency 50Hz.
- However, locations may suffer from low voltage conditions with voltage dropping to as low as 160 volts and high voltage conditions with voltage going as high as 220 + 20% volts. Frequency could drop to 50Hz + 2%. The ambient temperature may vary from 10°C to 48°C. The relative humidity may range in between 5% to 95%.
- The goods supplied under the contract should provide protection against damage under above conditions.

## 30. **Fail-safe procedure**

The vendor should indicate in detail fail-safe procedure(s) for the following:

- Power failure
- Voltage variation
- Frequency variation
- Temperature and humidity variations.

## 31. **Training:**

For each hardware component installed, the Vendor may be required to train the designated GHMC and user Department personnel to enable them to effectively operate the total system. The training, if required, shall be given, as specified in the SCC at the locations specified. The training schedule will be agreed to by both parties during the performance of the Contract.

## 32. **Site Preparation and Installation:**

The Purchaser is solely responsible for the construction of the installation sites except where it is specifically required under bid document. The bidder will designate to perform a site inspection to verify the appropriateness of the sites before the installation of every hardware related item.

## Section D

### Technical Specifications:

Sl. No	Description of Item	UoM	Qty
1	Supply and Installation of <b>Video Conferencing Setup</b> for Conference /Meeting Room (75 Inch Display, VC Cameras, Mic cum Speakers including accessories with 3 years warranty)	Set	1
2	Supply and Installation of <b>Firewall for up to 100 Users</b> with 3 years warranty.	Nos	1
3	Providing of <b>100 MBPS Leased Line (1:1)</b> per year	Nos	2
4	Providing of DTH Connections Per Annum	Nos	3
5	Supply and Installation of <b>55" TV</b> With 3 years warranty	Nos	1
6	Supply and Installation <b>GPS Devices</b> for Vehicle Tracking System.	Nos	5
7	Providing of <b>complete Audio System</b> - which includes Control room audio, entire office audio speakers, 2 zone 180 watts amplifier, VC Camera and MIC at each user with required cabling and Control Units	Set	1
8	Providing of <b>Video wall - 49 inch (3x2) with video Controller</b> with required cabling, wall brackets, HDMI cables and other accessories to complete the installation.	Set	1
9	Supply and Installation of <b>IPBPX with scalability of 50 users with 30 IP landline Instrument</b> with PoE Switch	Set	1
10	Supply and Installation of <b>CC Cameras - 10 camera setup</b> with 16 CH NVR, 8TB HDD Storage and required Cabling: <b>Honey well/CP Plus</b>	Set	1
11	Supply and Installation of <b>Application server single process server</b> with 128 GB RAM with rack mount form factor	Nos	1
12	Supply and Installation of <b>Data Servers Dual Processor</b> populated with minimum 128 GB with redundant poer supply rack mountable form factor	Nos	1
13	Sully and installation of UPS 20 KVA with 200ah x 32 Numbers with 3 hours backup and warranty will be 3 years	Set	1
	Make: <b>(BPE/Vertiv/Numeric)</b>		
14	Supply and Installation <b>48 Port I/O Network with 48 Port Switch networking.</b>	Nos	1
15	Supply and Installation <b>wireless access points</b>	Nos	4
16	Supply and Installation Bio-metric Device (attendance System) Facial or Thumb	Nos	1
17	LAN –48 I/O Setup Using Cat 6 cable for all IT devices Desktops, VC, Equipment's, Control Room, all printers and Wi-Fi access points in required PVC conduits and cable trays	Set	1
18	Providing of Cisco Webex/Zoom Meeting with (1) year subscription	Set	1
<b>Total Amount (including GST @ 18%) in Rs</b>			

#### **D.1- Video Conference Setup: (Make: People link/Poly/Yamaha)**

Parameter	Specification
Make & Model	<<Specify>> camera and Speaker cum Mic by same OEM
Camera Sensor	1/2.5-inch CMOS, 8.4 Megapixels or better
Resolution	4K (3840 x 2160) @ 60fps or better
Optical Zoom	12X or better
Digital Zoom	16X or better
Field of View	80.8°
Vertical Field of View	49.9° ~ 4.3° or wider
Minimum Illumination	0.5 Lux @ (F1.8, AGC ON) or lower
Shutter Speed	1/30s ~ 1/10000s or better

White Balance	Auto, Indoor, Outdoor, One-push, Manual
Backlight Compensation	Supported
Noise Reduction	3D Digital Noise Reduction
SNR	≥55Db
Preset Positions	255 or more
Network Compression	H.265 / H.264 / MJPEG
Video Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps or higher
Audio Compression	AAC, G.711
Audio Bit Rate	48Kbps, 64Kbps, 96Kbps, 128Kbps or better
Network Protocols	NDI® HX, TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, multicast
Output Interfaces	HDMI 2.0, 3G-SDI, RJ45 (Ethernet), USB 3.0 Type-C, 3.5mm Audio In
Control Interfaces	RS232 In/Out, RS485
Power Supply	DC 12V / POE
Operating Temperature	0°C ~ 40°C or better
Storage Temperature	-40°C ~ 60°C or better
Accessory	The camera should be supplied with IR remote control as an included accessory. Along with ceiling/Wall mount kit.
Certifications	It should have CE,FCC,ROHS & latest CB Certification. CB Test Reports must be submitted.
Warranty	3 years comprehensive warranty
Parameter	Specification
Connectivity of Microphone	Supply of all in one Wired and Wireless (Bluetooth) Speakerphone with 4 Inbuilt Microphone or better
Audio Parameters	48K sampling rate and 500ms echo length cancellation or better
Voice Pickup Range	Built with 4 internal HD microphones, the best coverage is 4m with 360 Degree Pickup or better
Built-in rechargeable battery	4000mAh battery, talk time 18-20 hours and standby time 90 days
3A Algorithm	Automatic Intelligent Microphone Direction Identification (EMI) technology and Automatic Gain Control (AGC) or better
Controls	Microphone Mute and Unmute, Speaker Volume Mute, UP and Down, Bluetooth On/Off, Echo Cancellation on/off
Built in Bluetooth	5.0 or better
Interface	The speakerphone should be able to simultaneously merge the video conferencing call (connected to the PC through USB) and the mobile call (connected through Bluetooth/3.5mm Jack).
Power	The device should be powered by USB (Type-B); no external power source is required to activate the device
Speaker Volume	In the future, there should be provisions to extend the microphone pickup of 2 meter with built in speaker of 85DB using an external speakerphone connected through an RJ45 cable
Interface	3.5mm jack support for mobile phone calls
Certifications	BIS(Indian), CE, FCC, ROHS
Warranty	3 Years Comprehensive Warranty

**D.2:-Firewall 100 Users – 1 (Preferred make: FortiGate/SonicWALL/Sophos)**

Make & Model	<<Specify>>
Parameter	Specifications
Firewall Throughput	5.0 Gbps or more
IPS Throughput	Minimum 1 Gbps
Threat Protection Throughput	Upto 145 Mbps or Above
VPN Throughput (IPSec)	2000Mbps or more
Max Concurrent Connections	10,00,000 or more
Ethernet Interfaces	8GBE COPPER OR MORE and 1 SFP PORT
I/O Ports or more	2X USB 2.0 / USB 3.0
Support	The Proposed Should Support Content Filtering Web Search Filtering, Intrusion Prevention, Threat Protection, Advanced Malware Protection and Active Directory Integration
Warranty	The proposed solution shall support 3 years Replacement and 24*7TAC support.

**D.3: Internet Leased Line –2 Nos (Different Service Providers)**

Parameter	Specification
Make & Model	<<Specify>>
Internet Leased Line	Internet Leased Line connection 1:1 WITH 100Mbps for 1 years
Static IP Address	Minimum 5 Static IP Each Connection

**D.4: DTH Connection – 3 Numbers (Preferred make: Airtel/Tata/any reputed)**

Parameter	Specification
Make & Model	<<Specify>>
DTH Connection	Any reputed DTH Connection with selected packages by user department with Antenna, Cabling, etc for the period of 1 years

**D.5: 55 Inches Display – 1 (Preferred make: Panasonic/LG/Samsung/Sony)**

Make & Model	<Specify>
Panel Size	55" or Higher
Panel Technology	ADS/IPS
Display Area (mm)	1209(H)x680(V) or higher
Memory	16 GB or Higher
Storage	32GB
Native Resolution	3840 x 2160
Aspect Ratio	16:9

Brightness	500 nits or better
Contrast Ratio	1200:1
Viewing Angles	178 degrees
Backlight Life	50000 Hrs and higher
Surface Treatment	Anti-Glare, 3H hardness, Haze 25%
Orientation	Landscape and Portrait
Audio (Speakers)	10W x 2
Ports	2.1 x2 (HDCP 2.2) RS-232: x 1 IR Pass Thru: x1 OUTPUT RS232: x1 IR Pass Thru: x1 LAN RJ45: x 1 USB Type A: 2.0 x 2 /Type C: x1 (DP1.2, PD 15W, USB2.0)
Operating Hours	24/7
Operating System	Web OS/Android 14 or higher
Warranty	3 Years comprehensive warranty

**D.6: -GPS Device for vehicle tracking – (Standard) 5 Numbers**

Make & Model	<Specify>
GPS Device	Device should be AIS-140 compliant
	Must comply with guidelines issued by Ministry of Road Transport and Highways
	Should support Vehicle Location Tracking (VLT)
Communication	SIM based communication
Memory	Internal memory shall support to save the locations in the device
Warranty	3 Years comprehensive warranty

**D.7: -Audio System.(Preferred makes: Bosch/Bose/Yamaha)**

Make & Model	<<Specify>> (Preferred makes: Bosch/Bose/Yamaha)
Amplifier	All-in-One 180 Watt or higher 2-zone output Amplifier, 4 Microphone Inputs with individual volume control, with USB Drive and SD Card Slot
Call Station	2 Call Stations with Selectable gain, speech filter and limiter, Output level control, Loop through option to connect upto 8 call stations
Wall Mount Speakers	15Watt Wall Mount Speakers (6 Numbers)
Ceiling Mount Speakers	06 Watt Ceiling Speakers (8) Numbers
Speakers Cable	300 Meters of heavy duty speaker wire
Warranty	3 Years Comprehensive warranty

**D.8:- Videowall (Preferred make: Samsung/LG/Sony)**

Parameters	Specifications
Make & model	<<Specify>>
LED Video Wall Screen	Displays should be arranging in an 3x2 matrix with daisy chain by DP/HDMI Cables
Screen Size (Inch)	49 Inches each Panel size
Panel Technology	IPS Technology
Back Light Type	Direct
Aspect Ratio	16:09
Native Resolution	1,920X1,080 (FHD)
Brightness	500nit (Typ.)
Dynamic CR	500,000:1
Viewing Angle (H x V)	178 X 178
Color Depth (Number of Colors)	10bit, 1.07Billion colors
Response Time	8ms(G to G)
Operation Hours	24/7
Portrait / Landscape	Yes/Yes
Input	HDMI (HDCP 2.2) x 2,
	DP (HDCP 2.2) x 1,
	DVI-D (HDCP 1.4) x 1,
	Audio In x 1,
	RS-232C In x 1,
	RJ45 (LAN) x 1 ,
	IR In x 1,
Output	USB 2.0 Type A x 1
	DP Out (Input : HDMI / DVI / DP),
	Audio Out x 1,
	RS-232C Out x 1
Bezel Width	T/R/L/B : 2.25/1.25/2.25/1.25mm
Handle	Yes
VESA Standard Mount Interface	600 x 400
Internal Memory (eMMC)	8GB
Temperature Sensor	Yes
Acceleration(Gyro) Sensor	Yes

Key Features	Embedded CMS (Local Contents Scheduling, Group Manager), USB Plug & Play, Fail Over,, Sync Mode (RS-232C Sync, Local Network Sync), Play via URL, Rotation (Screen Rotation, External Input Rotation), Gapless Playback, Tile Mode Setting (Max. 15 × 15), Setting Data Cloning, SNMP, ISM Method, Auto Set ID, Status Mailing, Control Manager, 3rd Party Compatibility (Crestron Connected 2)), Power (Smart Energy Saving, PM Mode, Wake on LAN, Network Ready), HDMI-CEC3), SI Server Setting, webRTC, W/B Setting by Grey Scale
Power Type	Built-In Power
Typ.	110W
Max.	120W
IP Rating	IP5X tested
Remote Management Feature	Display should support RMS features and this RMS should be from the same OEM vendor.
Accessories	Heavy duty HDMI Cables 15 Meters - 18 Numbers, HDMI Cables 3 Meters 5 Numbers Power Source, wall mount bracket and other accessories if any to complete the installation and also required wall mount brackets for installation

#### D.8.1: -Video wall controller (Standard)

Make & Model	<<Specify>>
Parameter	Specifications
Videowall Controller and its features	8 HDMI 2.0 inputs with embedded audio
	8 HDMI 2.0 outputs with embedded audio
	Supports up to 4K60 4:4:4 inputs
	Supports up to 4K60 4:4:4 outputs
	8 analog audio inputs and outputs
	Supports audio embedding for outputs
	Supports audio de-embedding for inputs
	Independent 8x8 IR Matrix
	Supports video wall capabilities
	Supports picture in picture effect on video wall
	Supports scaling on outputs
	Supports presentation switching capabilities
	Custom pre-set layouts for both matrix and video wall modes
	Supports seamless switching
	HDCP compliant
	EDID management on each input/output
	Adjust Display settings such as Contrast and Saturation remotely
Controllable via IP/serial port	
Controllable via front panel buttons	
Input Resolution	

Up to 4K@60fps 4:4:4 Input Format HDMI 2.0
Output Resolution
Up to 4K@60fps 4:4:4 Output Format HDMI 2.0
Analog Audio Output Interface
3.5mm Jack L/R Analog Audio Input Interface 3.5mm Jack L/R
IR in
3.5mm Jack IR out 3.5mm Jack
HDCP
Yes Power Supply AC 100V to 240V, ~50/60Hz
Video Wall Capabilities
Yes Remotely Fine Tune Settings Yes
Operating Temperature Range
0~40 degrees centigrade Operating Humidity Range 10%-90% non-condensing
Storage Temperature Range
-20~60 degrees centigrade Storage Humidity Range 10%~90% non-condensing
Control Interface
10/100/1000M Ethernet Port or RS232/Front Panel buttons
Warranty - 3 years comprehensive warranty

**D.9:- IPBPX for 40 for Users.**

Parameter	Make: <b>Matrix/Siemens/Cisco</b>
Make & Model	<Specify>
Type	<b>Hybrid IP-PBX / Unified Communication System</b>
Architecture	IP-centric with support for legacy telephony networks (POTS, ISDN, GSM, VoIP)
Expansion	Modular chassis with <b>12 universal slots</b> for interface cards
Trunk Ports	Minimum 2 or more
Users	System shall support to connect 40 IP/Analog users
Ethernet Port	1 Gigabit Ethernet Port
Form Factor	2U Rack Mount
Telephone Instruments	Analog instruments with digital display 40 Numbers to be supplied along with device
Warranty	3 Years Comprehensive warranty

**D.10:-CCTV Setup (Preferred Makes: CP plus/Matrix/Hikvision)**

Parameter	Specifications
Make & Model	<Specify>
Bullet Cameras (4 Numbers)	4MP or Higher IR Bullet cameras 30-50 Meters Range
Dome Cameras (6)	4MP or Higher IR Bullet cameras 20-50 Meters Range

Numbers)	
NVR (1)	16CH 4K NVR with minimum 2 SATA Ports (rack mountable)
Storage	8TB Surveillance Hard drive – 1 Number
PoE Switch	16 Port PoE Switches with minimum 180w and more Power Budget – 1 Number
Cable & Accessories	Required cat6 UTP Cable, and any other accessories to complete the installation and make it functional
Warranty	3 Years comprehensive warranty

**D.11: Server-1(Make : HP/DELL)**

Parameter	Specifications
Make & Model	<<Specify>>
Market position	The OEM for the proposed server must be in one of the top three server vendors (by market share revenue in IDC) in any of the previous 2 quarters
Chipset	Intel® C741 series chipset
Form Factor	Max. 1U rack mounted with sliding rails
Configured CPU	Up to two 4th Generation Intel Xeon Scalable processors, with up to 32 cores and optional Intel® QuickAssist Technology <b>(16core with 2.8Ghz minimum)</b>
Memory slots	16 DDR5 DIMM slots supports RDIMM 4TB max, speeds up to 5600 MT/s.
Memory configured	<b>(128Gb)</b> , scalable to 4TB
Disks supported	Front bays: <ul style="list-style-type: none"> <li>● Up to 8 x 2.5-inch NVMe SSD max 122.88TB</li> <li>● Up to 10 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 153.6 TB</li> </ul> Rear bays: <ul style="list-style-type: none"> <li>● Up to 2 x 2.5-inch SAS4/SATA (HDD/ SSD) max 30.72 TB</li> </ul>
RAID Controller	Up to 24Gbps PCIe 4.0 with RAID 0,1,5,6,10,50,60  <ul style="list-style-type: none"> <li>● Internal: PERC H965i, PERC H755, PERC H755N, PERC H355, HBA355i</li> <li>● External: HBA355e</li> <li>● Software RAID: S160</li> <li>● BOSS-N1</li> </ul>
Disks configured	<b>(960Gb SSD x2)</b>
I/O slots	Up to three x 16 PCIe slots <ul style="list-style-type: none"> <li>● 1 x PCIe Gen5 slots</li> <li>● 1 x PCIe Gen4 slots</li> </ul>

Ports	<p>Front Ports</p> <ul style="list-style-type: none"> <li>• 1 x Dedicated iDRAC Direct micro-USB</li> <li>• 1 x USB 2.0</li> <li>• 1 x VGA</li> </ul> <p>Rear Ports</p> <ul style="list-style-type: none"> <li>• 1 x USB 2.0</li> <li>• 1 x Serial port (optional)</li> <li>• 1 x USB 3.0</li> <li>• 1 x Dedicated iDRAC Ethernet port</li> <li>• 1 x VGA (optional for liquid cooling configuration)</li> </ul> <p>Internal Port: 1 x USB 3.0 (optional)  Embedded NIC: 2 x 1 GbE LOM card (optional)  Network Options: 1 x OCP card 3.0 (optional)  Note: The system allows either LOM card or an OCP card or both to be installed in the system.</p>
Certification and compliances	<ul style="list-style-type: none"> <li>• Canonical Ubuntu Server LTS</li> <li>• Windows Server with Hyper-V</li> <li>• Red Hat Enterprise Linux</li> <li>• SUSE Linux Enterprise Server</li> <li>• VMware ESXi</li> </ul>
Power Supply	<p>Two redundant AC or DC power supply units:</p> <ul style="list-style-type: none"> <li>• 1800 W Titanium 200-240 VAC or 240 HVDC</li> <li>• 1400 W Platinum 100-240 VAC or 240 HVDC</li> <li>• 1100 W Titanium 100-240 VAC or 240 HVDC</li> <li>• 1100 W LVDC -48 - -60 VDC</li> <li>• 800 W Platinum 100-240 VAC or 240 HVDC</li> <li>• 700 W Titanium 200-240 VAC or 240 HVDC</li> </ul> <p>Hot swap PSUs with full redundancy.</p>
Management integration	Support for integration with Microsoft System Center, VMware vCenter, BMC Software
Power & temperature	<p>Real-time power meter, graphing, thresholds, alerts &amp; capping with historical power counters.</p> <p>Temperature monitoring &amp; graphing</p>
Pre-failure alert	Should provide predictive failure monitoring & proactive alerts of actual or impending component failure for fan, power supply, memory, CPU, RAID, NIC, HDD
Configuration & management	<ul style="list-style-type: none"> <li>• Real-time out-of-band hardware performance monitoring &amp; alerting</li> <li>• Agent-free monitoring, driver updates &amp; configuration, power monitoring &amp; capping, RAID management, external storage management, monitoring of FC, HBA &amp; CNA &amp; system health</li> <li>• Out-of-band hardware &amp; firmware inventory</li> <li>• Zero-touch auto configuration to auto deploy a baseline server configuration profile</li> </ul>
Management (continued)	<ul style="list-style-type: none"> <li>• Automated hardware configuration and Operating System deployment to multiple servers</li> <li>• Zero-touch repository manager and self-updating firmware system</li> <li>• Virtual IO management / stateless computing</li> </ul>
HTML5 support	HTML5 support for virtual console & virtual media without using Java or ActiveX plugins
Server security	Should have a cyber resilient architecture for a hardened server design for protection, detection & recovery from cyber attacks
	Should protect against firmware which executes before the OS boots

	Should provide effective protection, reliable detection & rapid recovery using: <ul style="list-style-type: none"> <li>• Cryptographically signed firmware</li> <li>• Data at Rest Encryption (SEDs with local or external key mgmt)</li> <li>• Secure Boot</li> <li>• Secure Erase</li> <li>• Secured Component Verification (Hardware integrity check)</li> <li>• Silicon Root of Trust</li> <li>• System Lockdown (requires iDRAC9 Enterprise or Datacenter)</li> <li>• TPM 2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ</li> </ul>
	Configuration upgrades should be only with cryptographically signed firmware and software
	Should provide system lockdown feature to prevent change (or “drift”) in system firmware image(s) & prevent malicious modification of server firmware
Intrusion alert	Intrusion alert in case chassis cover being opened
OS	<b>Microsoft Server OS Support:</b> <ul style="list-style-type: none"> <li>• Windows Server 2022 Data Center Edition w/HyperV</li> <li>• Windows Server 2022 Standard Edition w/HyperV</li> <li>• Windows Server 2019 Data Center Edition w/HyperV</li> <li>• Windows Server 2019 Standard Edition w/HyperV</li> </ul> <b>Linux Server OS Support:</b> <ul style="list-style-type: none"> <li>• Red Hat Enterprise Linux 8.6 &amp; 9.0</li> <li>• SUSE Linux Enterprise Server 15 SP4</li> <li>• Ubuntu 22.04</li> </ul>
Warranty	3 years On-site comprehensive warranty with 24x7x365 remote hardware support. Post installation, 3-year product warranty should reflect in the support web site of the OEM.
Make In India	The server should come Under Class II MII

#### D.12:- Server-2. Make: Dell/HP

Parameter	Specifications
Make & Model	<<Specify>>
Market position	The OEM for the proposed server must be in one of the top three server vendors (by market share revenue in IDC) in any of the previous 2 quarters
Chipset	Intel® C741 series chipset
Form Factor	Max. 2U rack mounted with sliding rails
Configured CPU	Up to two 4th Generation Intel Xeon Scalable processors, with up to 32 cores and optional Intel® QuickAssist Technology <b><u>(Dual 16core with 2.8Ghz minimum)</u></b>
Memory slots	16 DDR5 DIMM slots supports RDIMM 4TB max, speeds up to 5600 MT/s.
Memory configured	<b><u>(128Gb)</u></b> , scalable to 4TB
Disks supported	Front bays: <ul style="list-style-type: none"> <li>• Up to 8 x 2.5-inch NVMe SSD max 122.88TB</li> <li>• Up to 10 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 153.6 TB</li> </ul> Rear bays: <ul style="list-style-type: none"> <li>• Up to 2 x 2.5-inch SAS4/SATA (HDD/ SSD) max 30.72 TB</li> </ul>

RAID Controller	<p>Up to 24Gbps PCIe 4.0 with RAID 0,1,5,6,10,50,60</p> <ul style="list-style-type: none"> <li>● Internal: PERC H965i, PERC H755, PERC H755N, PERC H355, HBA355i</li> <li>● External: HBA355e</li> <li>● Software RAID: S160</li> <li>● BOSS-N1</li> </ul>
Disks configured	<b>(960Gb SSD x2 + 2TB x2 SATA 7.2k RPM)</b>
I/O slots	<p>Up to three x 16 PCIe slots</p> <ul style="list-style-type: none"> <li>● 1 x PCIe Gen5 slots</li> <li>● 1 x PCIe Gen4 slots</li> </ul>
Ports	<p>Front Ports</p> <ul style="list-style-type: none"> <li>● 1 x Dedicated iDRAC Direct micro-USB</li> <li>● 1 x USB 2.0</li> <li>● 1 x VGA</li> </ul> <p>Rear Ports</p> <ul style="list-style-type: none"> <li>● 1 x USB 2.0</li> <li>● 1 x Serial port (optional)</li> <li>● 1 x USB 3.0</li> <li>● 1 x Dedicated iDRAC Ethernet port</li> <li>● 1 x VGA (optional for liquid cooling configuration)</li> </ul> <p>Internal Port: 1 x USB 3.0 (optional)  Embedded NIC: 2 x 1 GbE LOM card (optional)  Network Options: 1 x OCP card 3.0 (optional)  Note: The system allows either LOM card or an OCP card or both to be installed in the system.</p>
Certification and compliances	<ul style="list-style-type: none"> <li>● Canonical Ubuntu Server LTS</li> <li>● Windows Server with Hyper-V</li> <li>● Red Hat Enterprise Linux</li> <li>● SUSE Linux Enterprise Server</li> <li>● VMware ESXi</li> </ul>
Power Supply	<p>Two redundant AC or DC power supply units:</p> <ul style="list-style-type: none"> <li>● 1800 W Titanium 200-240 VAC or 240 HVDC</li> <li>● 1400 W Platinum 100-240 VAC or 240 HVDC</li> <li>● 1100 W Titanium 100-240 VAC or 240 HVDC</li> <li>● 1100 W LVDC -48 - -60 VDC</li> <li>● 800 W Platinum 100-240 VAC or 240 HVDC</li> <li>● 700 W Titanium 200-240 VAC or 240 HVDC</li> </ul> <p>Hot swap PSUs with full redundancy.</p>
Management integration	Support for integration with Microsoft System Center, VMware vCenter, BMC Software
Power & temperature	<p>Real-time power meter, graphing, thresholds, alerts &amp; capping with historical power counters.</p> <p>Temperature monitoring &amp; graphing</p>
Pre-failure alert	Should provide predictive failure monitoring & proactive alerts of actual or impending component failure for fan, power supply, memory, CPU, RAID, NIC, HDD
Configuration & management	<ul style="list-style-type: none"> <li>● Real-time out-of-band hardware performance monitoring &amp; alerting</li> <li>● Agent-free monitoring, driver updates &amp; configuration, power monitoring &amp; capping, RAID management, external storage management, monitoring of FC, HBA &amp; CNA &amp; system health</li> <li>● Out-of-band hardware &amp; firmware inventory</li> <li>● Zero-touch auto configuration to auto deploy a baseline server configuration profile</li> </ul>

Management (continued)	<ul style="list-style-type: none"> <li>Automated hardware configuration and Operating System deployment to multiple servers</li> <li>Zero-touch repository manager and self-updating firmware system</li> <li>Virtual IO management / stateless computing</li> </ul>
HTML5 support	HTML5 support for virtual console & virtual media without using Java or ActiveX plugins
Server security	Should have a cyber resilient architecture for a hardened server design for protection, detection & recovery from cyber attacks
	Should protect against firmware which executes before the OS boots
	Should provide effective protection, reliable detection & rapid recovery using: <ul style="list-style-type: none"> <li>Cryptographically signed firmware</li> <li>Data at Rest Encryption (SEDs with local or external key mgmt)</li> <li>Secure Boot</li> <li>Secure Erase</li> <li>Secured Component Verification (Hardware integrity check)</li> <li>Silicon Root of Trust</li> <li>System Lockdown (requires iDRAC9 Enterprise or Datacenter)</li> <li>TPM 2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ</li> </ul>
	Configuration upgrades should be only with cryptographically signed firmware and software
	Should provide system lockdown feature to prevent change (or “drift”) in system firmware image(s) & prevent malicious modification of server firmware
Intrusion alert	Intrusion alert in case chassis cover being opened
OS	<b>Microsoft Server OS Support:</b> <ul style="list-style-type: none"> <li>Windows Server 2022 Data Center Edition w/HyperV</li> <li>Windows Server 2022 Standard Edition w/HyperV</li> <li>Windows Server 2019 Data Center Edition w/HyperV</li> <li>Windows Server 2019 Standard Edition w/HyperV</li> </ul> <b>Linux Server OS Support:</b> <ul style="list-style-type: none"> <li>Red Hat Enterprise Linux 8.6 &amp; 9.0</li> <li>SUSE Linux Enterprise Server 15 SP4.</li> </ul>
Warranty	3 years On-site comprehensive warranty with 24x7x365 remote hardware support. Post installation, 3-year product warranty should reflect in the support web site of the OEM.
Make In India	The server should come Under Class II MII

#### D.13:- UPS 20 KVA Vertive/Numeric/Socomec

Make & Model	
Capacity	20KVA
Technology	Double conversion true on-line UPS system, with IGBT Base Charger
Input	380V / 400V / 415V AC (3Ph+N+PE)
Voltage Range	300V ~ 480V AC
Frequency Range	50 / 60 Hz ± 10% Auto Sensing
Power Factor	≥ 0.99
Output	Three Phase
Voltage Range	380V / 400V / 415V AC (3Ph+N)

Frequency	Auto Sensing 50 / 60 Hz $\pm$ 1~10% Sync Mode (Configurable), 50/60 Hz $\pm$ 0.1 Hz Battery Mode
Transfer Time	Zero
Crest Factor	3:01
Overall Efficiency	94.0% Dual Conversion Mode, 99% ECO Mode
Power Factor	0.8
Harmonic Distortion (THDv)	$\leq$ 1% Linear Load, $\leq$ 5% Non-Linear Load
OverLoad Capacity	$\leq$ 110% for 60 Min, $\leq$ 125% for 10 Min, $\leq$ 150% for 1 Min, $\geq$ 150% for 300 ms
Isolation Transformer	Isolation Transformer should be inbuilt
Battery	12v/200AH 32No's
Battery Type	Exide/Quanta Make SMF Batteries
Rack&interlinks	Suitable Battery Rack Should be provided along with Interlinks
Features	
LCD Indication	Input Voltage & Freq.; Output Voltage, Current, kVA, kW, Total Power, PF, Load % Per Phase, Load % Total & Freq.; Bypass Voltage & Freq.; Inverter Voltage & Freq.; Battery Voltage, DC Bus Voltage, Charging Current, Discharging Current, Temperature.
LED Indication	Bypass, Mains, Battery and Fault
Alarms/Protection	Short Circuit, Input Under/Over Voltage, Over Temperature, Over Current,
Parallel	Yes, With Parallel Kit
Static Bypass	To be provided
Manual Bypass	To be provided
Standard	RS232/SNMP option Should be Available
OEM Criteria	Must have centralized helpline number (Toll-Free Number) for service call login and complaint center and proper resolution process (Escalation Matrix) – documentary evidence to be submitted
OEM Certifications	ISO 9001, ISO 14001, ISO 45001:2018, ISO 50001, CE (EN 62040-2:2006, EN 61000-3-12:2011, EN 61000-3-11:2000, EN 60950-1:2006,EN 62040-1, EN 61000-2-2), RoHS , FCC, ISO27001, And EPR Certificate from CPCB Govt of India. – documents to be submitted
Warranty	2 years warranty for ups systems and for batteries

#### **D.14: 48 Port Network Switch TP (Make: TP link/Netgear/Cisco)**

Parameter	Specifications
Make & Model	<<Specify>>
Physical Specifications	48 # 10/100/1000 Base-T ports and 4 dedicated 1000/10G Base-X Fiber SFP+ ports
Performance Specification	Bandwidth: 176 Gbps non-blocking or above
	Forwarding rate: 130.94 mpps
	800MHz ARM A55 Single Core
	512MB DDR RAM 64MB FLASH
	MAC Address database size: 16k media access control (MAC) addresses or more
	VLAN: 256 or above

	Packet buffer: 1.5Mb or above
	Jumbo frame: 10K
IEEE Network Protocols	IEEE 802.3 af (PoE)
	IEEE 802.3 at (PoE+)
	IEEE 802.1X Radius network access control
Network Security and Traffic	RADIUS based VLAN assignment via .1x
	MAC-based .1x
	Network Storm Protection
	Broadcast, Unicast, Multicast Protection
	Access Control Lists (ACLs) L2 / L3 / L4
	IP,MAC, TCP/UDP -based ACL
	MAC lockdown
	IEEE 802.1x Radius Port Access Authentication
L2 Services	IEEE 802.1Q VLAN Tagging
	Should support STP, MSTP, RSTP
	IEEE 802.3ad - LAGs - LACP (8 LAGS with max. of 8 members in each LAG)
	Broadcast Storm Control , LLDP-MED
	IGMP Snooping (v1, v2 and v3), IGMP Snooping queriers
L3	Should supports 32 or more static routes
	DHCP Client, DHCP Snooping
Network Monitoring and Discovery Services	802.1ab LLDP
	SNMP V1, V2, V3
Quality of Service(QoS)	Advanced per-port PoE controls (enable/disable/power limit)
	Egress rate limiting
	Diff ServQoS, IEEE 802.1p COS, WRR (Weighted Round Robin)
	Strict Priority queue technology
	Port Mirroring , Many to One Port Mirroring
Management	Configurable Management VLAN
	switch should support both Standalone & cloud management
	Dual software (firmware) image
	Web-based graphical user interface (GUI)
	RMON 1,2,3,9
Certifications	CE mark, EN 55024,CCCUL listed (UL 1950)/cUL IEC 950/EN 60950, RoHS
	MANDATORY TESTING & CERTIFICATION OF TELECOMMUNICATION EQUIPMENT(MTCTE)
Warranty	3 Years warranty

**D.15: - Wireless Access points – 4 (Preferred Makes: TP link/Netgear/Cisco)**

Make & Model	<<Specify>>
Physical Interfaces	One 100/1000/2.5GBASE-T Gigabit Ethernet (RJ-45) ports with Auto Uplink™ (Auto MDI-X) supporting IEEE 802.3af, 802.3bt or 802.3at Power over Ethernet (PoE)
	Should Included 4 Years Cloud License

	Internal Antena 2.4/2.9 dBi (2.4GHz/5GHz)
	The device should include a 2.5 Gbps Ethernet port.
	Wall/ceiling mount kit should be included from the day 1
Standards	IEEE 802.11ax, IEEE 802.11ac
	WMM - Wireless MultiMedia Prioritization
	WDS- Wireless Distribution System
	Radio : 5GHz: 4x4 20/40/80/160MHz
	Power over Ethernet (PoE) IEEE 802.3at/802.3bt
Security	Wi-Fi Protected Access (WPA, WPA2, WPA3), 802.11i
	802.1x RADIUS support with EAP TLS, TTLS, PEAP
	Neighbor AP detection
	Link Layer Discovery Protocol
	Dynamic VLAN Support
	Wireless access control to identify authorized wireless network devices
	MAC address filtering with access control
Network Management Manageability	Security Socket Layer (SSL) remote management login
	Cloud-based centralized management is essential as it reduces on-site maintenance efforts, making it perfect for multi-floor or multi-site operations, and allows for remote monitoring of unlimited locations for multiple customers.
	Cloud Management with multi-location & multi-tenant capabilities
Advanced Wireless Features	Furthermore, cloud management should be client-less, eliminating any dependency on specific applications or hardware.
	Wireless Distribution System (WDS)
	Wireless backhaul to form Mesh Network
	Minimum 8 SSID per device
	Bidir and MU-MIMO
	Bridge mode: Point-to-point wireless WDS mode
	Bridge mode: Point-to-multipoint wireless WDS mode
	Repeater mode
	Free Roaming
Load Balance	
Other Specifications	Adjustable Transmit Power Control (TPC)
	PoE power consumption: 21.5 Watts maximum
	Bandsteering
	Support OFDM and OFDMA
	Business class with superior 802.11ax performance (up to 5.4 Gbps)
	Block SSID Broadcast
	4x4 MU-MIMO support
User Support 275	
Certifications	Deployment Options: Standalone, Cloud Management
	CE mark, commercial
	FCC Part 15 Class A, VCCI Class A
	VCCI-CISPR 32:2016, Class A

	ISED: ICES-003:2016 Issue 6, Class A, ANSI C63.4:2014
	EN 50082-1, BSMI: CNS 13438 Class A
	EN 55024
	CSA certified (CSA 22.2 #950)
	UL listed (UL 1950)/cUL IEC 950/EN 60950
	OEM vendor should be ISO certified.
	MANDATORY TESTING & CERTIFICATION OF TELECOMMUNICATION EQUIPMENT(MTCTE) LOGO
Warranty and Support	3 Years Warranty.

**D.16: -Biometric Device (Preferred Makes: ESSL/MATRIX/MYNTRA/REALTIME)**

Parameter	Specifications
Make & Model	<<Specify>>
Display	TFT Screen
Identifications Mode	Fingerprint, Face
Warranty	2 Years warranty

**D.17: -LAN (Preferred makes: Commscope/R&M/D-Link)**

Parameter	Specifications
Make & Model	<<Specify>>
LAN	LAN for ALL IT EQUIPEMNTS 100 Numbers (Including Data and Voice) Using Cat6 UTP Cable in raceway and pvc conduits wherever is required, end to end terminations using Information outlets and jack panel, clear labelling for LAN points, 42U Closed Rack (800X1000) also to be supplied for equipment installation
Warranty	2 Years warranty

**D.18: -Cisco Webex Enterprise Subscription.**

Parameter	Specifications
Make & Model	Cisco Webex
License	Enterprise Subscription for 1 Year
Specification	Enterprise Meeting Features, Unlimited Meeting Sessions, Personal Video Meeting Room, Online Recording and Playback

**SECTION – E / Annexure – I**

**Bid Letter Form**

*(to be filled in and submitted Mandatory)*

From:

(Registered name and address of the bidder.)

To:

The Commissioner,  
Greater Hyderabad Municipal Corporation,  
GHMC Building, Tank Bund Road, Hyderabad

Sir,

Having examined the bidding documents and amendments there on, we the undersigned, offer to provide services/execute the works including supply, delivery installation of hardware, firm wares and software as the case may be, in conformity with the terms and conditions of the bidding document and amendments there on, for the following project in response to your tender call dated.....

Project title:

We undertake to provide services/execute the above project or its part assigned to us in conformity with the said bidding documents in accordance with the schedule of prices attached herewith and coverage options made by GHMC or its user organization.

- Provide services/ execute the work according to the time schedule specified in the bid document,
- Obtain the performance guarantee of a bank in accordance with bid requirements for the due performance of the contract, and
- Agree to abide by the bid conditions, including pre-bid meeting minutes if any, which remain binding upon us during the entire bid validity period and bid may be accepted any time before the expiration of that period.
- We do hereby undertake that in the event of acceptance of our bid, and the work shall be started at designated places within as per the time lines from the date of Award of Contract.
- We enclose the complete Bid enclosing all documents / information as required in the tender document.
- We agree to abide by our offer for a period of <<>>days from the date fixed for opening of

the tenders and that we shall remain bound by a communication of acceptance within that time.

- We have carefully read and understood the terms and conditions of a tender and the conditions of the Contract applicable to the tender and we do hereby undertake to the project as per these terms and conditions. The deviations from the above Technical specifications, Services and Terms & Conditions are only those mentioned in RFP.

We understand that you are not bound to accept the lowest or any bid you may receive, nor to give any reason for the rejection of any bid and that you will not defray any expenses incurred by us in bidding.

Place:

Bidder's signature

Date

and seal.

**Annexure – II**

Ref. No.....

**Bid Security (EMD) Form**

Tenders have to pay total 2.5% EMD on the Bid Price. Initial EMD payment of Rs. 1,13,000/- to be paid on the tender website and balance shall be calculated on the Invoice amount of the 1st purchase order issued and should be paid at the time of agreement in favour of Commissioner, GHMC, Hyderabad in the form of a DD, payable to the “Commissioner, Greater Hyderabad Municipal Corporation, Tank Bund, Hyderabad” drawn from any scheduled Bank. EMD in any other Form / Instrument shall not be acceptable. This EMD does not carry any interest.

obligations:

1. If the bidder withdraws its bid during the period of bid validity or
2. If the bidder, having been notified of the acceptance of its bid by the GHMC during the period of bid validity:
  - a. fails or refuses to execute the contract form if required; or
  - b. fails or refuses to furnish the performance security, in accordance with the bid requirement;

We undertake to pay the GHMC up to the above amount upon receipt of its first written demand, without the GHMC having to substantiate its demand, provided that in its demand the GHMC will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

Place:

Date:

Signature of the Bank  
and seal.

## Pre-Qualification Bid Forms

### Form P1-Bidder Information

Name of the Bidder:

Name of the Project:

#	Description	Supporting Documents with Page Nos
1	Name of the Company/ Firm	
2	Date of Incorporation (Registration Number & Registering Authority) VAT No., CST No., PAN No.	
3	Legal Status of the Company in India & Nature of Business in India	Public Ltd / Private / Partnership Firms
4	Address of the Registered Office in India	
5	Date of Commencement of Business	
6	Name & e-mail id, phone number, fax of the Contact Person	
7	Web-Site	
8	EMD details (Amount, Ref. No& Date)	
9	Certification details if any	
10	Proof of purchase of bid document (Receipt No. & Date of purchase)	

Place &Date

Bidder's signature and Seal

## **Form P2- Financial Turnover Details**

*(To be submitted bidders letter head)*

Name of the Bidder:

Name of the Project:

<b>Financial Information of Bidder (in Crores)</b>				
#	<b>Financial Year</b>	<b>Turnover of the Firm in</b>		<b>Net worth</b>
		<b>Total Turnover</b>	<b>Turnover from Similar Business</b>	
	(1)	(2)	(3)	(4)
1	2022-23			
2	2023-24			
3	2024-25			

- 1. Audited Balance sheet and Profit & Loss account statement of the Bidder for each of the last 3 audited financial years shall be submitted as supporting evidence.*
- 2. The bidder should submit certificates from CFO of the Company duly audited by the Chartered Accountant and certified by the Company Secretary for all the above stated three financial years.*
- 3. Extracts from the audited Balance sheet and Profit & Loss; OR Certificate from the statutory auditor).*
- 4. Turn over certificate from Certified CA to be submitted*

Place:

Bidder's signature

Date:

Bidder's seal

## Form P3- Past Similar Project Experience

Name of the Bidder:

Name of the Project:

#	Description	Details	Reference to attached sheets if any
1	Client Name, Address and Phone/Mobile		
2	Consortium / JV Arrangement and Partnership Ratio		
3	Brief Project Details		
4	Period / Date of Contract and Tenure		
5	Solution Details (but not limited to): <ul style="list-style-type: none"><li>• Equipment Make, Type &amp;Quantity</li><li>• Platform &amp; Technologydetails</li><li>• Networking Technologydetails</li><li>• Software &amp; Toolsdetails</li><li>• Any other (Specify indetails)</li></ul>		
6	Total Value of the Contract		
8	Enclosed the Supporting Documents		

### NOTE:

- Supporting documents to support the claim and the certificates must be signed by the authorized signatory of the organization clearly indicating his/her name, designation and contact details such as Telephone Number, Fax number, email-idetc.
- Separate sheets may be attached to elaborate the projectsundertaken
- Necessary project completion certificate / satisfactory progress certificate must be provided as documentary evidence of the projectsexecuted

Place:

Bidder's signature&seal

Date:

**Form P4- Major Past Projects/Supplies**

S.No	Customer Full Address	Year of supply	Items supplied to the Customer
A	B	C	D

Place:

Bidder's signature

Date:

Bidder's seal

**Form P5-Details of Service Centers**

S.No	Full Address of service center	Contact person with phone No.	No. of support engineers
A	B	C	D

Place:

Bidder's signature

Date:

Bidder's seal

## **Form P6 - Declaration Regarding Clean Track Record**

To,  
The Commissioner,  
GHMC, Tank Bund Road,  
Hyderabad, 500063

Sir,

I have carefully gone through the Terms & Conditions contained in the RFP Document [No.\_\_\_\_\_]. I hereby declare that my company has not been debarred/ black listed as on Bid calling date by any State Government, Central Government, Central & State Govt. Undertakings/enterprises/Organizations and by any other Quasi Government bodies/Organizations, World Bank and any other major Enterprise/Organizations in India for non-satisfactory past performance, corrupt, fraudulent or any other unethical business practices. Further, declaring that no cases pending against the firm/organization either in Government (State or Union) or as mentioned above for involvement in cases for supply of sub-standard goods/material or track record of supply of inferior quality or no enquiries on past supplies are being conducted or underway. I further certify that I am competent officer in my company to make this declaration.

Yours faithfully,

(Signature of the  
Bidder) Printed  
Name Designation

Seal Date:

Business Address:

## Form-P7-Manufacturer Authorization Form

**Date:**

To,  
The Commissioner,  
GHMC, Tank Bund Road,  
Hyderabad, 500063

Sir,

ReferenceNo.: \_\_\_\_\_ Dated \_\_\_\_\_ for

*The authorization should be in the nature of a letter, memorandum or certificate latest issued by the manufacturer/OEM to its channel partners, authorized distributors or a specific letter issued for purposes of this bid. **The MAF should clearly specify the item/material for which the MAF is being issued by OEM.** Such communication should include statements / undertakings from the said manufacturer to the following effect:*

1. Warranty coverage in respect of the goods and services manufactured by the said manufacturer shall be honored by that manufacturer, their channel partners, distributors, and authorized service centers as the case maybe.
2. The manufacturer updates the bidder and their technical personnel with relevant technical literature, training and skill transfer workshops etc. on a regularbasis.
3. The manufacturer provides back to back technical support to the said bidder on a continuingbasis.
4. The said bidder is authorized to provide service and solutions using hardware, firmware and / or software as the case maybe.

The products supplied are not declared as end of life at the time of delivery and (parts and spares) are supported for at least 5 years from the date of supply of items.

**Note:** The letter of authority should be signed and sealed with date by the competent authority having the power of attorney by the manufacturer.

## **Form P8- Undertaking On Genuineness of Equipment's**

{To be filled by the bidder & submitted on bidder's letterhead}

To,  
{The Commissioner, GHMC},

TenderRef. No:        Dated

This has reference to the items being supplied /quoted to you vide our bid Ref. No.                      Dated \_\_\_\_\_. We hereby undertake that all the components / parts/assembly/software used in the equipment shall be genuine, original and new components/ parts/ assembly/ software from respective OEMs of the products and that nor furbished/ duplicate/ second-hand components/ parts/ assembly/ the quoted product should not be declared End of Life at the time of delivery and OEM should support the product quoted at least 5 years / software are being used or shall be used. All the licenses (if applicable) shall be sourced from the authorized source for use in India.

In case, we are found not complying with above at the time of delivery or during installation, for the equipment already billed, we agree to take back the equipment already supplied at our cost and return any amount paid to us by you in this regard and that you will have the right to forfeit our EMD/PBG for this bid or debar/blacklist us or take suitable action against us.

Authorized Signatory Name:

Designation:

Note: The signing Authority should be no lower than Managing Director/VP/CFO of the Bidder Organization.

Technical Bid Forms

**Form T1-Technical Compliance Sheet**

**Item wise technical compliance statement as per technical specifications mentioned in Section-D** of this document (taking in to consideration all the amendments issued to this document, if any) is to be submitted in the following format:

Item Code:

Item Name:

Sl. No.	Parameter/ Feature	Specification Required as per of RFP & amendments, if any given	Specification of proposed item along with Part Code, Qty. & Description if any (Part code details must be provided if available)	Compliance (Complied/ Higher/Lower)	Reference for proof of compliance (Required documents to be uploaded along with technical bid)
A	B	C	D	E	F
		<b>&lt;&lt; Make &amp; Model&gt;&gt; to be clearly mentioned</b>			(Detailed reference such as doc name, para no. page no. etc. should be provided)

The bidder should submit relevant technical documentation viz- Brouchers, leaflets for supporting the product quoted in the tender.

Place &Date:

Bidder's signature and seal

**Form-T2 -Certificate of Conformity/No Deviation**

{To be filled by the bidder & submitted on bidder's letterhead}

To,

{The Commissioner, GHMC},

\_\_\_\_\_

\_\_\_\_\_

**CERTIFICATE**

This is to certify that, the specifications of Hardware &Software which I/We have mentioned in the Technical bid, and which I/ we shall supply if I/We am/ are awarded with the work, are in conformity with the specifications of the Tender/bidding document and that there are no deviations of any kind from the requirement specifications and are supported by the OEM.

Also, I/we have thoroughly read the Tender/ bidding document and by signing this certificate, where by submit our token of acceptance to all the Tender terms &conditions without any deviations.

I/We also certify that the price I/ we have quoted is inclusive of all the cost factors involved in the end-to-end implementation and execution of the project, to meet the desired Standards set out in the Tender/ bidding Document.

Thanking you,

Name of  
theBidder:

Authorized Signatory -----

Seal of the Organization-----

Date-----

Place-----

-

## Check List

### **Compliance/Agreed/Enclosed/ Deviation Statement**

The following are the particulars of compliance/deviations from the requirements of the tender specifications.

<b>Bid document reference</b>	<b>Submitted/Agreed/Remarks</b>
1. Bid Letter Form	
2. Form P-1	
3. Form P-2	
4. Form P-3	
5. Form P-4	
6. Form P-5	
7. Form P-6	
8. Form P-7	
9. Form P-8	
14. Form T1	
15. Form T2	
16. Form-C1	
17. General instruction to bidders	
18. General condition of proposed contract (GCC)	
19. Special Condition of proposed Contract (SCC)	

The specifications and conditions furnished in the bidding document shall prevail over those of any other document forming a part of our bid, except only to the extent of deviations furnished in this statement.

Place & Date

Bidder's signature and Seal

**NOTE:** For every item appropriate remarks should be indicated like 'no deviation', 'agreed', 'enclosed' etc. as the case may be.

## Commercial Bid Forms

### Detailed Commercial Form-C1

Sl. No	Description of Item	UoM	Qty	Rate per Year (Rs.)	Amount (Rs.)
1	Supply and Installation of <b>Video Conferencing Setup</b> for Conference /Meeting Room (75 Inch Display, VC Cameras, Mic cum Speakers including accessories with 3 years warranty)	Set	1		
2	Supply and Installation of <b>Firewall for up to 100 Users</b> with 3 years warranty.	Nos	1		
3	Providing of <b>100 MBPS Leased Line (1:1)</b> per year	Nos	2		
4	Providing of DTH Connections Per Annum	Nos	3		
5	Supply and Installation of <b>55" TV</b> With 3 years warranty	Nos	1		
6	Supply and Installation <b>GPS Devices</b> for Vehicle Tracking System. With 3 years warranty	Nos	5		
7	Providing of <b>complete Audio System</b> - which includes Control room audio, entire office audio speakers, 2 zone 180 watts amplifier, VC Camera and MIC at each user with required cabling and Control Units	Set	1		
8	Providing of <b>Video wall - 49 inch (3x2) with video Controller</b> with required cabling, wall brackets, HDMI cables and other accessories to complete the installation. With 3 years warranty	Set	1		
9	Supply and Installation of <b>IPBPX with scalability of 50 users with 30 IP landline Instrument</b> with PoE Switch	Set	1		
10	Supply and Installation of <b>CC Cameras - 10 camera setup</b> with 16 CH NVR, 8TB HDD Storage and required Cabling: <b>Honey well/CP Plus</b>	Set	1		
11	Supply and Installation of <b>Application server</b> with 128 GB RAM with rack mount form factor as per Specification Mentioned	Nos	1		
12	Supply and Installation of <b>Data Servers Dual Processor</b> populated with minimum 128 GB with redundant per supply rack mountable form factor as per Specification Mentioned	Nos	1		
13	Sully and installation of UPS 20 KVA with 200ah x 32 Numbers with 3 hours backup and warranty will be 3 years	Set	1		
	<b>Make: (Vertive/Numeric)</b>				
14	Supply and Installation <b>48 Port I/O Network with 48 Port Switch.</b>	Nos	1		
15	Supply and Installation <b>wireless access points</b>	Nos	4		
16	Supply and Installation Bio-metric Device (attendance System) Facial or Thumb	Nos	1		
17	LAN - Using Cat 6 cable for all IT devices Desktops, VC, Equipment's, Control Room, all printers and Wi-Fi access points in required PVC conduits and cable trays	Set	1		
18	Providing of Cisco Webex/Zoom Meeting with (1) year subscription	Set	1		
<b>Total Amount (including GST @ 18%) in Rs</b>					

InWords \_\_\_\_\_

**Place &Date**

**Bidder's signature and Seal**

**Note:**

- a) The L1 bidder shall be arrived on least cost of Form C1 and overall evaluation based on L1 method on grand total of Form C1 The prices quoted are inclusive of all the incidental services related to the Project even if not specified explicitly.
- b) All unit rates indicated shall be inclusive of installation, duties, transport, packing and transit insurance charges etc.
- c) Deduction of taxes at source will be made as per applicable laws from the payments to be made to the selected Vender