

KOLLAM DISTRICT COOPERATIVE HOSPITAL SOCIETY LTD Q 952
Palathara, Kollam
Pin: 691020

TENDER DOCUMENT
for
DESIGN, SUPPLY, INSTALLATION, TESTING & COMMISSIONING
& SUPPORT OF DATACENTRE EQUIPMENTS.

N.S.
Co-operative Hospital
Tender No: NIMS/IT/2020-21/APR/DATACENTRE/108
(A Unit of Kollam District Co-operative Hospital Society)

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Co-operative Hospital
(A Unit of Kollam District Co-operative Hospital Society)

SECTION 1 INVITATION FOR TENDER

KOLLAM DISTRICT COOPERATIVE HOSPITAL SOCIETY LTD Q 952, Palathara, Kollam inviting Sealed Tenders (Two Bid System) for **DESIGN, SUPPLY, INSTALLATION, TESTING & COMMISSIONING & SUPPORT OF DATACENTRE EQUIPMENTS**. The Bidder scope is limited to the supply, installation testing and commissioning of the pathway systems, passive cabling, network and storage cabinet, etc. required for Data center. The bidder shall be responsible for managing the entire project from commencement to final handing over of the facility to NS Hospital. Also, Bidder shall coordinate with Hospital maintenance team for the work dependent like civil and electrical.

The interested Bidder can be downloaded the Tender documents from the hospital website www.nshospital.org from **25.04.2020** to against a payment of non-refundable fee of Rs. 3000/- (Three Thousand Only) in the form of crossed Demand Draft drawn in favour of the Secretary, Kollam District Cooperative Hospital Society Ltd, Q 952 payable at Kollam. The qualified Bidder can submit their BID up to date **01.06.2020**. For more information about this invitation please contact nsmimskollam@gmail.com.

BRIEF SCHEDULE

SL NO	DESCRIPTION	EMD	COMPLETION PERIOD	TENDER FEES
1	DATACENTRE SUPPLY & WORK	Rs.50000	1 MONTH	Rs.3000

SECTION II SCOPE & DESCRIPTION OF CONTRACT

2.1. GENERAL DEFINITIONS.

- 2.1.1 **Society** means Kollam District Cooperative Hospital Society Ltd Q 952, represented by the Secretary.
- 2.1.2 **Purchase Committee** is a Sub Committee of the Board of Directors authorized to decide on the purchase of the drugs, equipments and other stores procured by the Society.
- 2.1.3 **Tender Inviting Authority** is the Secretary, Kollam District Cooperative Hospital Society Ltd, Q 952 who calls for tenders and ensures supply, installation and after sales service of the items procured under this tender document.
- 2.1.4 **Blacklisting/debarring** – the event of violation of any conditions of the tender document, more specifically those mentioned in the Specific Conditions of Contract (Section V) and General Conditions of Contract. (Section VI) of this tender document, the bidders will be prevented for a period of 1 to 5 years from participating in the future tenders of Tender Inviting Authority, the period of debarring being decided on the basis of the number of violations in the tender conditions and the loss/hardship caused to the Tender Inviting Authority on account of such violations.

2.2. SCOPE.

2.2.1 The Data center shall be designed based on industry standards. All individual components used in the construction shall conform to data center best practices and industry standards. Bidder scope is limited to the supply, installation testing and commissioning of the pathway systems, passive cabling, network and storage cabinet, etc.

The bidder shall be responsible for managing the entire project from commencement to final handing over of the facility to NS Hospital. Also, Bidder shall coordinate with Hospital maintenance team for the work dependent like civil and electrical. The Bidder is required to provide As-built diagrams such as final detailed architectural diagrams and other illustrations like conceptual architectural plan, electrical layouts, false ceiling layouts, Passive connectivity diagram, pathway routing, Rack location, rack elevation; etc., for the envisaged DC.

The Data Centre complete in all aspects to be handed over with all systems tested and accepted to Construction to be undertaken based on mutually agreed upon layout the equipment/ systems supplied shall be covered under minimum warranty for 1 year from the date of commissioning and further OEM applicable warranty

Passive Cabling shall be the intelligent cabling infrastructure and physical media for LAN which shall be of high-speed switched, multi-protocol, Ethernet based network, providing converged IP based services, Power Over Ethernet, etc. This document defines the Networking system and subsystem components to include passive intelligent cabling, racks, pathway, etc. The intent of this section is to provide pertinent information to allow the bidder to bid the labor, supervision, tooling, materials, and miscellaneous installation hardware and consumables to install a complete system. However, it is the responsibility of the vendor to propose any, and, all items required for a complete system whether it is identified in the specification, drawings and bill of materials attached to this specification.

SECTION III TENDER SCHEDULE

3.1. TENDER DETAILS

1	Tender No	NIMS/IT/2020-21/APR/DATACENTRE/108
2	Cost of Tender Document	Rs. 3000/-
3	Earnest Money Deposit	Rs. 50,000/-
4	Performance Security	10% of the offered price (for successful tenders)
5	Validity of Performance Security	1 Year after the date of completion of the contractual obligations.
6	Tender Validity	The tender shall be valid for a period of one year from the date of opening of the tender.

3.2. IMPORTANT DATES.

SL NO	PARTICULARS	DATE & TIME
1	Date of Release of Tender	25.04.2020 10AM
2	Prebid Meeting	11.05.2020 10AM.
3	Tender Submission Start Date	21.05.2020 10AM.
4	Tender Submission End Date	01.06.2020 5PM.
5	Date of Technical Bid Opening	02.06.2020 11AM
6	Date of Demonstration of the Equipment	To be informed to qualified bidders qualifying after opening of technical bids
7	Date of Opening of the Price Bid	08.06.2020 10.30AM

SECTION IV
4. DETAILS OF THE DATACENTRE EQUIPMENTS (BoQ).

- 4.1 Please see the attached Excel file "NIMSDatacentre108_BoQ.xlsx".
- 4.2 The price shall be firm and shall include all applicable taxes and charges. Any variation in the duties, levies etc. during the period of services shall be charged to the bidder account. The rates quoted shall be all inclusive, with the delivery, up to destination i.e. NIMS, Kollam.
- 4.3 The detailed technical specifications and other quality parameters of the above equipment may be seen at the Appendix in Section VII-Technical Specifications.

SECTION V
5.1 SPECIFIC CONDITIONS OF CONTRACT

SL NO	ACTIVITY	TIME LIMIT
5.1.1	<i>Installation / Delivery period</i>	One weeks from date of confirmation of delivery from Tender Inviting Authority
5.1.2	<i>Completion of installation</i>	3 – 4 Weeks from the date of supply
5.1.3	<i>Comprehensive warranty period</i>	3 years for all items supplied and 25 Years of Performance Warranty.
5.1.4	<i>Frequency of visits to SMIMS during Warranty</i>	One visits in every 3 months (4 visits in a year) for periodic / preventive maintenance and any time for attending repairs/break down calls.
5.1.5	<i>Submission of Performance Security and entering contract</i>	20 days from the date of issuance of Letter of Intent
5.1.6	<i>Payment Installments of Price of equipment's and ratio</i>	3 Installments and in the ratio 70:20:10
5.1.7	<i>Time for making payments by Tender Inviting Authority</i>	Within 30-45 days from the date of submission of proper documents
5.1.8	<i>Maximum time to attend Periodic / Repair call</i>	Within 4 hours during warranty period. (If not attended within the hours, penalty will be induced).
5.1.9	<i>Uptime in a year</i>	100%

5.2. PREQUALIFICATION OF OEM.

- 5.2.1 OEM shall be global player with list of enterprise class customers. Their name shall be included in any of the tech trends report such as BSRIA/Gartner/Thomson Reuters/VOICE & DATA/etc. to validate their position in cabling field.
- 5.2.2 They should have large installation base in India with well distribution system to support the clients (List of National distributors details to be furnished).
- 5.2.3 OEM should have members participating in International Standard Bodies like EIA/TIA, ISO/IEC (Supporting documents required)
- 5.2.4 OEM should have at least One RCDD certified person based in India (Relevant certificate shall be attached along with the BID)
- 5.2.5 OEM shall propose their premium line of global products. Region specific products shall not be proposed which will result in rejection
- 5.2.6 All passive networking material should be from one OEM make only and OEM should have at least one manufacturing unit in India (Relevant address of the manufacturing unit to be attached along with the submission)
- 5.2.7 All proposed products shall be available in OEM authorised website with related product ID to download the product data sheet with all technical information
- 5.2.8 All Copper & fibre components should be from the same OEM. Material should have been designed and manufactured in OEM's own manufacturing facilities and shall not be from any other OEM.
- 5.2.9 Products such as indoor cable, patch cords etc. shall not be made of PVC jacket. The products shall be made with LSZH with CMR rated as per IEC-60332-3 for the assessment of vertical flame spread of vertically mounted bunched cables
- 5.2.10 All Passive Components should be RoHS (Restriction of Certain Hazardous Substances) complied. Declaration –RoHS Compliant should clearly be mentioned on datasheets of each Passive Components
- 5.2.11 OEM should provide 25 years Site Warranty and Application Assurance for post installation.
- 5.2.12 Four connector channel certificates shall be submitted for the performance of the proposed products. This is both cat-6 and cat-6A cabling solution. This shall be of third-party certificate preferably from Intertek (ETL). The report should include long distance (100 Meters) and short distance (15 Meters) test report.
- 5.2.13 Must provide ISO Certification of Manufacturing facilities.
- 5.2.14 OEM shall provide the online verification system to verify the Genuity of the products which they offer. This will make sure all proposed products are origin from OEM and qualify all technical and performance parameters as per global standard.

5.3 PREQUALIFICATION CRITERIA OF BIDDER.

- 5.3.1 The bidder should be either an Original Equipment Manufacturer (OEM) or Authorized Dealer / Distributer of the OEM of the offered products. A valid certificate of Manufacturers Authorization Form (MAF) should be enclosed.
- 5.3.2 A letter stating that the products quoted is not end of life should be produced from the OEM.
- 5.3.3 The bidder must have an office in Trivandrum / Kollam / Kochi (Attach Proof of Registered Office) and should have 24/7 call logging facility. Details of call logging procedure, support center and escalation matrix should be provided in the bid. The bidder should provide a single point of contact and email address for seeking clarification regarding the bid.
- 5.3.4 Bidder should have expertise of having successfully completed similar supplies during the last three (3) years, supporting documents of two purchase orders and installation reports for similar Datacenter works or larger supplies/setup should be enclosed. The work execution should be either one of the following:
 - a. One similar order costing not less than Rs 50 Lakhs
 - b. Two similar orders each costing not less than Rs 25 Lakhs.
- 5.3.5 [Similar order means "Supply, installation and commissioning of Network". (Bidder to submit copy of PO and Completion Certificate from the Client)]
- 5.3.6 Bidder should have expertise of having successfully completed in Automated Infrastructure Management installation and reference document should be enclosed.
- 5.3.7 The Bidder should have been in this business for a period not less than five years as on 31.12.2019. (Supporting documents should be enclosed).
- 5.3.8 The Bidder should not have been blacklisted by any of the Government / Private agencies for any corrupt or fraudulent practices and he shall give a declaration to that effect.
- 5.3.9 The Bidder must have a turnover of Rs 1 Crore, in at least two of the last three Financial Years ending on 31.03.2019. Relevant documents should be enclosed.
- 5.3.10 The Bidder is required to quote for the complete BOQ. Partial quotes are liable to be rejected.
- 5.3.11 The Services offered by the Bidder should have ISO Certification.
- 5.3.12 The Bidder should be ready with the deliverables (hardware and software environment) within 7 - 10 working days from the date of purchase order.
- 5.3.13 If any complaint is lodged by NIMS the same must be attended to and resolved within four hours.
- 5.3.14 NIMS reserves the right to purchases of additional resources during the time of purchase order or later.
- 5.3.15 A Detailed Network Flow Chart of Connectivity Diagram (A3) and Solution document (A4) of the offered system should be attached along with the final invoice. Upon request drawings original (PSD, Corel & AutoCAD) soft copy should be submitted for future alteration.

5.4. FORMAT AND SIGNING OF BID.

- 5.4.1 The Bidder shall prepare three copies of the bid, clearly making each ***“Original Bid”*** and ***“Copy of Bid”*** as appropriate. In the event of any discrepancy between them, the original shall govern. (Upon request, soft copy of the tender document should be submitted).
- 5.4.2 The original and copy of the bid shall be typed or written in indelible ink and shall be signed by the bidder or a person or persons duly authorized to bind the bidder to the contract. Written power-of-attorney accompanying the bid shall indicate the letter of authorization. The person or persons signing the bid shall initial all pages of the bid, except for unlamented printed literature.
- 5.4.3 The bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the bidder, in which case the person or persons signing the bid shall initial such corrections.

5.5 SUBMISSION OF BIDS

- 5.5.1 The bidder shall ensure to submit the following details in their bid. Omission of items mentioned mandatory shall lead to rejection of the bid.
- a) System/Components Description (mandatory)
 - b) Compliance Statement (mandatory)
 - c) Data sheets (relevant pages only)
 - d) Bill of Quantity (Make, Model including material ID, Quantity)
 - e) Drawings (as required)
 - f) Supporting documents mentioned in all criteria (mandatory)
 - g) OEM certificate for the authorization (mandatory)
 - h) Detailed site survey report with NDL.
- 5.5.2 Applicable Documents: Design, manufacture, test, and install data distribution systems as per manufacturer's requirements and in accordance with NFPA 70 (National Electric Code), state codes, local codes, requirements of authorities having jurisdiction, and particularly the following Standards.
- a) This Technical Specification and Associated Drawings
 - b) ISO/IEC 11801:2017 Information technology -- Generic cabling for customer premises
 - c) ANSI/TIA/EIA/568-C.1, Commercial Building Telecommunications Cabling Standard – 2009
 - d) ANSI/TIA/EIA/568-C.2 Balanced Twisted Pair Telecommunications Cabling and Components Standard
 - e) ANSI/TIA/EIA 568-C.3, Optical Fibre Cabling Components Standard
 - f) ANSI/TIA/EIA-569-B, Commercial Building Standard for Telecommunications Pathways and Spaces
 - g) ANSI/TIA/EIA-606-B, Administration Standard for the Telecommunications Infrastructure of Commercial Buildings
 - h) ANSI/J-STD-607-A, Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications
 - i) Building Industries Consulting Services International (BICSI) Telecommunications Distribution Methods Manual (TDMM)
 - j) ANSI/TIA-942B, Telecommunications Infrastructure Standard for Data Centres.

The Contractor is responsible to determine and adhere to the most recent edition of these standards when developing their responses

5.5.3 Sealing and Marking of Bids.

The bidders shall seal the original and the copy of the bid in an inner and an outer envelope, duly marking the envelopes as 'Original Bid' and 'Copy of Bid'.

5.5.4 The Inner and outer envelopes shall be: -

(a) Addressed to the purchaser at the following address: -

**"The Secretary,
Kollam District Cooperative Hospital Society Ltd Q 952,
NS Memorial Institute of Medical Sciences (NSMIMS),
Palathara, Kollam,
Kerala - Pin: 691020**

(b) Bear the Invitation for Tender number and the words "DO NOT OPEN BEFORE....."
(Here insert the time and date of Bid opening).

5.5.5 The inner envelopes shall indicate the name and address of the bidder.

5.5.6 If the outer envelope is not sealed and marked as required herein, the purchaser will assume no responsibility for the bid's misplacement or premature opening.

5.5.7 Bidders shall submit their bids in two parts as under:

- a) **Technical bid**, *in duplicate*, consisting of technical details bringing out clearly in a separate sheet, the deviations in specifications, if any, from that of 'Technical Specifications' and also clause-by-clause compliance of specifications along with the commercial terms and conditions and bid security.
- b) **Price bid** showing only item wise prices in a separate sealed cover inside the main cover.
- c) It may be noted that when the main cover is opened on the date and time scheduled for tender opening, only the technical bids will be opened.
- d) Only those bidders whose technical bids are found to be substantially responsive and demonstration of the functioning of the equipment found satisfactory will be informed of the date and time of opening of their price bids. Price bids of others will not be opened.

5.6. DEADLINE FOR SUBMISSION OF BIDS.

5.6.1 Bids must be received by the purchaser at the address specified at para 5.4.2 not later than the time and date specified in the invitation for bids. In the event of the specified date for the submission of bids being declared a holiday for the purchaser, the bids will be received up to the appointed time on the next working day.

5.6.2 The purchaser may, at its discretion, extend this deadline for the submission of bids by amending the bidding documents, in which case all rights and obligations of the purchaser and bidders which were subject to the previous deadline will thereafter be subject to the deadline as extended.

5.6.3 It is the responsibility of the bidders to ensure that the completed bidding documents are delivered to the Tender Inviting Authority before the closing date and time stipulated above for receipt of bid, failing which the bid would be considered late and rejected.

5.7. LATE BIDS

- 5.7.1 Any bid received by the purchaser after the deadline for submission of bids prescribed by the purchaser, will be summarily rejected.

5.8. SINGLE BID

- 5.8.1 Any bid received by the purchaser in the form of a single bid incorporating both technical details and quoted price will be summarily rejected.

SECTION VI GENERAL CONDITIONS OF THE CONTRACT

- 6.1 Contents of The Tender Document (See Table of Content Page 2)
6.2. The general guidelines on the tender process are as below.

6.3. RESPONSIBILITY FOR VERIFICATION OF CONTENTS OF TENDER DOCUMENT.

- 6.3.1 The purchasers of the tender form shall examine all instructions, forms, terms and conditions and specifications in the Tender Document and verify that all the contents mentioned under clause 6.1, are contained in the 'Tender Document'.
6.3.2 Failure to furnish any information required by the tender documents and submission of an offer not substantially responsive to it in every respect shall be at the bidder's risk and may result in the rejection of the bids, without any further notice.

6.4 GUIDELINES FOR PREPARATION OF TENDER.

- 6.4.1 The Bidder shall bear all costs associated with the preparation and submission of its bid and the Kollam District Cooperative Hospital Society Ltd, Q 952, hereinafter referred to as the "Tender Inviting Authority", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.
6.4.2 In the event of documentary proof as required not being enclosed, the Tender shall be liable to be rejected. All pages of the bid, except for unamendable printed literature, shall be signed by the authorized person or persons signing the bid along with the stamp of the bidder.
6.4.3 Language of Bid: - The Bid prepared by the bidder and all correspondence and documents relating to the bid exchanged by the Bidder and the Tender Inviting Authority, shall be in English language only. Supporting documents and printed literature furnished by the Bidder may be written in another language provided that they are accompanied by an authenticated accurate translation of the relevant passages in the English language in which case, for purposes of interpretation of the Bid, the English translation shall govern.
6.4.4 The tender (in English Language only) for the supply of equipments mentioned in Section IV shall be submitted along with detailed specifications. A technical leaflet /brochure / literature in original shall be enclosed along with list of names of organizations to which the equipment with the same specifications have been supplied in India during the last three years. In case of copy of earlier work orders and the performance certificates supporting the claim of past performance of the bidder, it shall be attested by the organization where the same has been supplied and installed.

- 6.4.5 The documentary evidence (other than those regarding supply and past performance) submitted along with the Tender shall be produced duly attested by the bidder on every page and serially numbered. Any interlineations, erasures or overwriting shall be valid only if they are initialed by the person (s) signing the offer.
- 6.4.6 Bidder shall submit a declaration letter as per the format given as Annexure 10 and copy of amendments published, if any, signed by the bidder or the authorized representative shall be enclosed as part of the technical bid as a proof of having read and accepted the terms and conditions of the tender document.
- 6.4.7 An offer submitted in vague /ambiguous financial terms and the like, shall be deemed to be non-responsive and shall be summarily rejected.
- 6.4.8 Clarifications to specific requests shall be responded through e-mail and general clarifications, affecting all the bidders shall be published in the official website of the Tender Inviting Authority.

6.5 EARNEST MONEY DEPOSIT (EMD)

- 6.5.1 EMD of unsuccessful bidders will be discharged /returned promptly.
- 6.5.2 The successful bidder's EMD will be discharged upon the bidder signing the contract and furnishing the performance security.
- 6.5.3 No interest will be paid for the EMD submitted.
- 6.5.4 The EMD will be forfeited, if a bidder,
- (a) Misrepresents facts or submits fabricated / forged / tampered / altered / manipulated documents.
 - (b) Withdraws its bid after the opening of technical bid.
 - (c) Fails to sign the contract after issuance of Letter of Intent
 - (d) Fails to furnish performance security after issuance of Letter of Intent

6.6 DEADLINE FOR SUBMISSION OF TENDER

- 6.6.1 Tenders shall be submitted before the last date & time prescribed and the Tender Inviting Authority shall not be held liable for any delay whatsoever.
- 6.6.2 The Tender Inviting Authority may, at its discretion, extend the deadline for submission of tender by amending the Tender Document, in which case, all rights and obligations of the Tender Inviting Authority and the bidders previously subjected to the deadline shall thereafter be subjected to the deadline so extended.

6.7 MODIFICATION AND WITHDRAWAL OF BIDS.

- 6.7.1 The bidder can modify or withdraw bids submitted before the last date & time for submission.

6.8 PERIOD OF VALIDITY OF TENDER

- 6.8.1 The tender must remain valid for minimum 180 days (six months) from the date of opening of price bid. A bid valid for a shorter period shall be rejected by the Tender Inviting Authority as non-responsive.
- 6.8.2 Withdrawal or non-compliance of agreed terms and conditions after the execution of agreement or issuance of Supply Order will lead to invoking of penal provisions and may also lead to blacklisting/debarring of the successful bidder.

6.9 ACCEPTANCE / REJECTION OF TENDERS:

- 6.9.1 It is not necessary that the offer of the firm quoting the lowest rates shall be accepted.
- 6.9.2 At any point of time, the Tender Inviting Authority reserves the right to cancel or modify the supply order even after it is awarded to the successful bidder, in the event of the firm deviating from the agreed terms and conditions or as mutually agreed.

6.10 NOTICES.

- 6.10.1 The Tender Inviting Authority shall publish the following information on its website at the appropriate time as part of ensuring transparency in the tender process.
- The tender notices, documents, corrigendum, addendum etc., if any.
 - Amendments to the tender conditions, if any
 - Results of the responsiveness of the technical bids and minor infirmities / clarifications sought.
 - List of bidders qualified for demonstration of equipment
 - Results of the demonstration of the equipment and provisional list of bidders qualified for price bid opening.
 - Final List of technically qualified bidders.
- 6.10.2 Notice, if any, relating to the contract, given by one party to the other shall be sent in writing or by email and confirmed by post. The procedure will also provide the sender of the notice, the proof of receipt of the notice by the receiver. The addresses of the parties for exchanging such notices will be the addresses as incorporated in the contract.
- 6.10.3 The effective date of a notice shall be either the date when delivered to the recipient or the effective date specifically mentioned in the notice, whichever is later.

6.11 OTHER TERMS AND CONDITIONS

- 6.11.1 All the terms and conditions in respect of warranty/guarantee, Training of Staff etc. mentioned herein shall be complied with.
- 6.11.2 (A Unit of Kollam District Co-operative Hospital Society) Technical Specifications and Standards: - The Goods & Services to be provided by the successful bidder under this contract shall conform to the technical specifications and quality control parameters mentioned in this document.
- 6.11.3 The bidder shall be responsible for payment of any charges due to any statutory authorities such as Income Tax, GST, and Customs Duties etc.
- 6.11.4 If at any point of time it is found out that there is a responsibility to affect some statutory deduction at the source, the Tender Inviting Authority will have the authority to do so.

6.12. TENDERING SYSTEM.

- 6.12.1 The tenders / bids are to be submitted in two covers.
- 6.12.2 PART-I is titled as **TECHNICAL BID**. The technical bid shall contain the complete technical specification, details on competency and financial stability of the bidder, delivery and after sales conditions.

6.12.3 PART II is titled as **PRICE BID (BOQ)** must be submitted.

6.14. AMENDMENT OF TENDER DOCUMENTS.

6.14.1 At any time prior to the deadline for submission of tender, the Tender Inviting Authority may, for any reason, modify the tender document by amendment.

6.14.2 The amendments shall be published in the website, and the bidder shall submit copy of amendments published, if any, signed by the bidder or the authorized representative as part of the technical bid as a proof of having read and accepted the terms and conditions of the tender document.

6.14.3 The Tender Inviting Authority shall not be responsible for failure to inform the prospective bidders for any notices published related to each tender. Bidders are requested to browse website of the Tender Inviting Authority for information/general notices/amendments to tender document etc. on a day to day basis till the tender is concluded.

6.15. CONTENTS OF BID SUBMISSION.

6.15.1 Tender Document

6.15.2 Tender Document cost (in case Tender document is downloaded from the website)

6.15.3 Earnest Money Deposit

6.15.4 General information about the bidder as per Annexures

6.15.5 Annual turnover statement for last three years certified by the auditor.

6.15.6 Offer form as prescribed in the Annexure-VI.

6.15.7 The documents proving that the bidder is an Original Equipment Manufacturer or their principal dealer/importer for Kerala/ South India/India (Annexure I/II)

6.15.8 Declaration Letter as per Annexure X and copy of amendments, if any, duly signed in all pages by the bidder or the authorized signatory.

6.15.9 Price Bid

6.15.10 Power of Attorney as per format in Annexure VIII.

6.15.11 Notary attested documents such as articles of association/partnership deed etc., proof of incorporation, proving the registration of place of business and showing the details of partners/promoters/board of directors etc.

6.15.12 Notarized audited copies of the P& L Accounts, Balance Sheet, and annual report for the last three completed years certified by the auditors.

6.15.13 Notary attested copy of IT returns filed for the last three completed years.

6.15.14 Details of Service centers as per Annexure VII

6.15.15 Documents showing service Centre facilities in Kerala/South India.

6.15.16 Technical literature, product data sheet. (Original brochure and other documents proving that the equipment tendered meets all the technical parameters laid down herein).

- 6.15.17 Comparative statement of the technical specifications and compliance with the supplier's offered model, deviations and justifications.
- 6.15.18 The documents such as supply orders, performance reports showing that the bidder and manufacturer is having previous experience in the business of the supply and installation of the equipment offered.
- 6.15.19 List of Installations of the offered model in Kerala and South India (institutions with name/designation of the contact person, phone, number/email)
- 6.15.20 Copy of Quality Certificate requested.

6.16. OPENING OF TENDER

- 6.16.1 The date of technical bid opening is published in advance. However, the date of opening of price bid will be decided only after demonstration / obtaining clarification(s) from those who qualify in the technical bid and shall be conveyed to the qualified bidders from time to time.
- 6.16.2 The opening of the technical bid and the price bid shall be done by the Tender Inviting Authority or his authorized representatives. The prospective bidders or his/her representative who choose to attend the bid opening can attend the office of the Tender Inviting Authority for the opening of the bids.
- 6.16.3 In the event of the specified date for opening of Tender being declared holiday, the Tender shall be opened at the appointed time and venue on the next working day.
- 6.16.4 In the event of a tender (a) wherein the claims in the documents are materially missing or (b) if there is substantial error or (c) if the bidder is unqualified for want of required qualifications, the tender shall stand disqualified and rejected. However, minor infirmities in the submission of documents will be allowed to be rectified to ensure qualification of maximum number of competitive offers to the final round.
- 6.16.5 The bidder shall be responsible for properly uploading the relevant documents in the formats specified in the specific location and the Tender Inviting Authority shall not be held liable for errors or mistakes done while submitting the bid.
- 6.16.6 The date and time of opening the Price Bid will be announced only after the opening of the Technical Bid and demonstration of the features, operation etc. of the equipment by the bidders.

6.17. EVALUATION OF TENDER

- 6.17.1 Bid Evaluation Committee:
 - 6.17.1.1 The commercial terms and documents submitted as part of the technical bid shall be scrutinized by a Bid Evaluation Committee constituted by the Tender Inviting Authority.
 - 6.17.1.2 The Bid Evaluation Committee may also verify the veracity of claims in respect of the known performance of the equipment offered, the experience and reputation of bidder in the field, the financial solvency etc.
- 6.17.2 Technical Committee:
 - 6.17.2.1 Evaluation of the technical bid shall be conducted by a Committee called the 'Technical Committee'. The demonstration of the machinery / equipment shall be conducted before the technical committee.

6.17.3. PURCHASE COMMITTEE

- 6.17.3.1 The recommendations of the Bid Evaluation Committee/Technical Committee will be further scrutinized by the Purchase Committee.
- 6.17.4 A bidder, at any stage of tender process or thereafter, in the event of being found after verification by the Tender Inviting Authority, to indulge in concealment or misrepresentation of facts, in respect of the claims of the offer, shall be debarred/black listed.
- 6.17.5 The Tender Inviting Authority's decisions on the tender submitted shall be based on the decisions taken by the various committees and otherwise as per the clauses as mentioned above.
- 6.17.6 Arithmetical errors shall be rectified on the following basis: If a discrepancy occurs between words and figures, the amount in words shall prevail and the offer shall stand corrected to that effect. If the bidder does not accept the correction of errors, his offer shall be rejected. The Tender Inviting Authority may waive any minor infirmity or non -conformity or irregularity in an offer, which does not constitute a material deviation, provided that the same shall not prejudicially affect the interest of the other bidders.

6.18 CLARIFICATION OF BIDS

- 18.1 During evaluation of bids, the Tender Inviting Authority may, at its discretion, give opportunity to the bidder(s) for clarification of points raised by the bid evaluation committee or technical committee, as the case may be, on its bids submitted.
- 6.18.2 The request for clarification and the response shall be in writing, either through email or by post.

6.19 DEMONSTRATION OF TECHNICAL SPECIFICATIONS AND PERFORMANCE: -

- 6.19.1 Before the opening of the Price Bid, immediately after the opening of Technical Bid, the bidder shall arrange for demonstration of the machine at own cost, either directly or through authorized Dealer /Distributors, as the case may be, for verification by the Tender Inviting Authority.
- 6.19.2 If it is not possible for the successful bidder to provide the model offered which conforms to the exact specifications as per section IV, then it shall be open to the bidder to submit a model with similar specifications for the demonstration, if agreed by the Tender Inviting Authority. The purpose of this exercise is to satisfy the Tender Inviting Authority about the ability of the bidder to manufacture and supply those items of specified specifications of good quality. However, the successful bidder will have to satisfy the Tender Inviting Authority during the installation of the first piece of accessories at any location specified that it conforms to the requirements of the Section IV and failure to supply the equipments as per the requirements will lead to forfeiture of performance security and may also lead to blacklisting/debarring the bidder for a period of 3 to 5 years.
- 6.19.2 Failure to demonstrate the technical specification or performance of the items to the satisfaction of the technical committee or the Tender Inviting Authority will lead to automatic rejection of the tender and the price bid of such bidders shall not be considered for opening of Price bids.

- 6.19.3** The Tender Inviting Authority's contractual right to inspect, test and, if necessary, reject the goods after the goods' arrival at the final destination shall have no bearing of the fact that the goods have previously been inspected and cleared by Tender Inviting Authority's inspector during demonstration as mentioned above.
- 6.19.4** Goods accepted by the Tender Inviting Authority at initial inspection and in final inspection in terms of the contract shall in no way dilute Tender. Inviting Authority's right to reject the same later, if found deficient in terms of the warranty clause of the contract.

6.20. PRICE BIDS

- 6.20.1** The Price bids (BOQ) of the short-listed technically qualified bidder(s) will be opened only after evaluation of Technical Bids. The short-listing of the bidder(s) will be carried out based on the technical evaluation and demonstration.
- 6.20.2** The opening of the price bid shall be done by the Tender Inviting Authority or his authorized representative and only the Price Bids of those firms qualified in the detailed scrutiny and evaluation of the Technical bid and successful pre delivery inspection /demonstration, conducted by the Technical Committee/Tender Inviting Authority shall be opened in the second round.
- 6.20.3** Price offered shall be all inclusive and in Indian Rupees. Price should be quoted for the supply, installation, training and successful commissioning of the accessories and fulfilment of warranty and aftersales service to the satisfaction of the NSMIMS.
- 6.20.4** Fixed price: Prices quoted by the Bidder shall be fixed during the period of the contract and not subject to variation on any account.
- 6.20.5** Price variation due to statutory changes including excise/customs duty or GST may be considered during contract period before releasing the Letter of Intent/supply order on receipt of proper documents.
- 6.20.6** There shall be no hidden costs.
- 6.20.7** Basic Price: The price of the equipment, accessories quoted shall be inclusive of ex-factory, ex-show-room, ex-warehouse, or off-the-shelf, or delivered, as applicable, all accessories / additional accessories / spares mentioned in the technical specification section IV, safe storage, on site assembly if any of the supplied goods, installation, testing and commissioning of the equipment, accessories, furnishing of detailed operations manual, service manual with circuit diagram and maintenance manual for each appropriate unit of supplied goods. Basic price shall also include loading unloading & stacking, all other taxes, duties & levies and incidental services if applicable.
- 6.20.8** Customs duty payable on the goods, if applicable, shall be indicated separately. The bidder shall indicate the value of import items on which customs duty is payable.
- 6.20.9** Tax (GST): Applicable Tax (GST) shall be quoted in numeric values and in Rupees
- 6.20.10** The packing, forwarding freight and insurance charges applicable shall be quoted separately in numeric values and in Rupees.
- 6.20.11** The total amount will be calculated and will be taken for evaluation and bid ranking.

- 6.20.12 The bidders shall offer prices of the accessories inclusive of all the accessories mentioned in the technical specification under and under no circumstances offer the essential equipments, without which the accessories cannot function properly, as optional or left un-quoted.

6.22. AWARD OF CONTRACT.

- 6.21.1 Criteria: The contract will be awarded to the lowest evaluated responsive bidder qualifying to the final round after scrutiny of the technical bids and demonstration of the accessories, i.e. after price bid opening. However, the Tender Inviting Authority reserves the right to reject the claims of the lowest evaluated bidder for enough reasons.
- 6.21.2 The details such as rates, the model of the accessories selected for award of the contract and the details of successful bidders etc. will be published during the period of price firmness on the website of the Tender Inviting Authority

6.23. NOTIFICATION OF AWARD/LETTER OF INTENT (LOI).

- 6.23.1 Before expiry of the tender validity period, the Tender Inviting Authority will notify the successful bidder(s) in writing, by registered / speed post or by email (to be confirmed by registered / speed post immediately afterwards) that its tender for accessories, which have been selected by the Tender Inviting Authority, has been accepted, also briefly indicating therein the essential details like description, specification and quantity of the goods & services and corresponding prices accepted. This notification is undertaken by issuing a Letter of Intent (LOI) by the Tender Inviting Authority.
- 6.23.2 The successful bidder, upon receipt of the LOI, shall furnish the required performance security and submit an agreement in the prescribed format within ten days, failing which the EMD will forfeited and the award will be cancelled.
- 6.23.3 The Notification of Award shall constitute the conclusion of the Contract.

6.24. SIGNING OF CONTRACT.

- 6.24.1 The successful tender shall execute an agreement in the format as given under Annexure III for (ensuring satisfactory supply, installation, commissioning and the after sales service/support during the warranty period).
- 6.24.2 The successful bidder shall submit bank guarantee in the format as per Annexure IV as performance security.
- 6.24.3 Promptly after notification of award, within ten days from the date of the letter of intent, the successful bidder shall return two copies of the contract (as per agreement Annexure III), both on ` Rs 200/- stamp paper purchased in the name of the successful bidder, duly signed and dated, to the Tender Inviting Authority by registered / speed post or in person.
- 6.24.4 The successful bidder shall later extend the contract converting it as Comprehensive Maintenance Contract/Annual Maintenance Contract with the Tender Inviting Authority/three months prior to the completion of Warranty Period, if the Tender Inviting Authority desires so. The CMC will commence from the date of expiry of the Warranty Period.
- 6.24.5 Assignment: -The successful bidder shall not assign, either in whole or in part, its contractual duties, responsibilities and obligations to perform the contract, except with the Tender Inviting Authority's prior written permission

- 6.24.6** Subcontracts: - The successful bidder shall not subcontract the execution of the contract. Such action, if done without the knowledge of the Tender Inviting Authority prior to the entering of the contract, shall not relieve the successful bidder from any of its liability or obligation under the terms and conditions of the contract.
- 6.24.7** Modification of contract:- If necessary, the Tender Inviting Authority may, by a written order given to the successful bidder at any time during the currency of the contract, amend the contract by making alterations and modifications within the general scope of contract in any one or more of the following.
- 6.24.7.1** Specifications, drawings, designs etc. where goods to be supplied under the contract are to be specifically manufactured for the Tender Inviting Authority.
- 6.24.7.2** Mode of Demonstration.
- 6.24.7.3** Incidental services to be provided by the successful bidder
- 6.24.7.4** Mode of Installation
- 6.24.7.5** In the event of any such modification/alteration causing increase or decrease in the cost of goods and services to be supplied and provided, or in the time required by the successful bidder to perform any obligation under the contract, an equitable adjustment shall be made in the contract price and/or contract delivery schedule, as the case may be, and the contract amended accordingly.
- 6.24.7.6** If the successful bidder does not agree to the adjustment made by the Tender Inviting Authority, the successful bidder shall convey its views to the Tender Inviting Authority within ten days from the date of the successful bidder's receipt of the Tender Inviting Authority's amendment / modification of terms of the contract.

6.25. PERFORMANCE SECURITY

- 6.25.1** There will be a performance security deposit amounting to the total value as mentioned in Section III excluding taxes, which shall be submitted by the successful bidder to the Tender Inviting Authority within 10 days from the date of issuance of 'Letter of Intent'.
- 6.25.2** The contract duly signed and returned to the Tender Inviting Authority shall be accompanied by a demand Draft or Bank Guarantee in the prescribed format.
- 6.25.3** Upon receipt of such contract and the performance security, the Tender Inviting Authority shall issue the Supply Orders containing the terms and conditions for the execution of the order.
- 6.25.4** Failure of the successful bidder in providing performance security mentioned in Section III and/or in returning contract copy duly signed in time shall make the bidder liable for forfeiture of its EMD.
- 6.25.5** The Performance security shall be denominated in Indian Rupees as detailed below:
- 6.25.5.1** It shall be in any one of the forms namely Account Payee Demand Draft or Bank Guarantee issued by a Scheduled bank in India, endorsed in favour of the Tender Inviting Authority.
- 6.25.5.2** In the event of any failure /default of the successful bidder with or without any quantifiable loss to the Society including furnishing Bank Guarantee for CMC security, the amount of the performance security is liable to be forfeited.

- 6.25.5.3** In the event of any amendment issued to the contract, the successful bidder shall, within ten (10) days of issue of the amendment, furnish the corresponding amendment to the Performance Security (as necessary), rendering the same valid in all respects in terms of the contract, as amended.
- 6.25.5.4** Tender Inviting Authority will release the Performance Security without any interest to the successful bidder on completion of the successful bidder's all contractual obligations including the warranty obligations and after confirming that all the contractual obligations have been successfully complied with.
- 6.25.5.5** The Bank Guarantee submitted in the place of EMD/Security deposit shall be in the prescribed format; Bank Guarantee in no other form will be accepted and will lead to rejection of tenders.

6.26 DELIVERY AND INSTALLATION

- 6.26.1** The successful bidder shall visit the NSMIMS and recommend preinstallation requirements. If the supplier fails to communicate any of such instances before delivery of equipment and cannot complete the installation within the stipulate period, Tender Inviting Authority shall deduct liquidated damages as per the tender conditions.
- 6.26.2** The successful bidder will have to arrange transportation of the ordered goods as per its own procedure and pay necessary insurance against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery and pay all necessary charges incidental till it is installed in the NSMIMS. It shall be ensured that the equipments arrive at the destination in good condition within the delivery period mentioned and as per the other requirements of the Tender Document.
- 6.26.3** If at any time during the currency of the contract, the successful bidder encounters conditions hindering timely delivery of the goods and performance of services, the successful bidder shall inform the Tender Inviting Authority in writing within a week about the same and its likely duration and make a request to the Tender Inviting Authority for extension of the delivery schedule accordingly. On receiving the successful bidder's communication, the Tender Inviting Authority shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of successful bidder's contractual obligations by issuing an amendment to the contract.
- 6.26.4** The successful bidder is required to deliver the equipments and install the equipments at the site within time specified from the date of issue of the 'Supply Order' and demonstrate the specification/features as well as operation / performance of the product to the satisfaction of the Tender Inviting Authority.

6.27. PAYMENT

- 6.27.1** The payment of the first installment of the price agreed will be made within thirty days from the date of installation of the equipment with its all necessary accessories specified in the supply order.
- 6.27.2** The original invoice submitted shall be in the name of the Tender Inviting Authority and the name of the consignee shall also be mentioned in it.
- 6.27.3** Requests for advance payment, payment against delivery or payment. Through Bank against dispatched documents will not be considered. Part Payment at the agreed rate as per cl.5.1.6 Shall be considered in respect of equipments installed and the necessary Installation Certificate obtained.

- 6.27.4 The retained remaining (second) installment will be released on submission of the 'One-month performance certificate' subject to recoveries, if any, either on account of non-rectification of defects/ deficiencies by the successful bidder.
- 6.27.5 The successful bidder shall not claim any interest on payments under the contract.
- 6.27.6 Where there is a statutory requirement for tax deduction at source, such deduction towards income tax and other taxes as applicable will be made from the bills payable to the successful bidder at rates as notified from time to time.
- 6.27.7 The successful bidder shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date, to the Tender Inviting Authority.
- 6.27.8 While claiming reimbursement of duties, taxes etc. (like sales tax, excise duty, custom duty) from the Tender Inviting Authority, as and if permitted under the contract, the successful bidder shall also certify that, in case it gets any refund out of such taxes and duties from the authorities concerned at a later date, it (the successful bidder) shall refund the same to the Tender Inviting Authority forthwith.

6.28 AFTER SALES SERVICE CONDITIONS.

- 6.28.1 The Tender Inviting Authority gives paramount importance to the aftersales service of the machinery/equipments installed to ensure smooth operation afterwards. The successful bidder is required to undertake preventive maintenance and attend all repairs, if any, that may arise during the warranty period free of cost.
- 6.28.2 The aftersales terms and conditions will be strictly enforced and those bidders who are willing to support the Tender Inviting Authority in its endeavor to provide trouble free operation/performance of the equipments for the prescribed period need only participate in the tender.
- 6.28.3 Failure to provide satisfactory after sales services during or after the warranty period and CMC/AMC will lead to blacklisting/debarring of the bidders, but after issuing due notice and provide opportunity for being heard.

6.29 GUARANTEE/WARRANTY TERMS.

- 6.29.1 The successful bidder must warrant that the Goods supplied under this Contract are new, unused, of the most recent or current models and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.
- 6.29.2 The successful bidder further must warrant that the Goods supplied under this Contract shall have no defect arising from design, materials or workmanship or from any act or omission of the successful bidder that may develop under normal use of the supplied goods.
- 6.29.3 All the equipment including the accessories supplied as per the technical specification in clause 4.2 should carry comprehensive warranty for a period mentioned under cl.5.1 in the first instance. During this period, the successful bidder shall replace all defective parts and attend to all repairs/breakdowns and undertake stipulated number of preventive maintenance visits to every user installation site. The cost of spare parts for all replacements must be borne by the successful bidder during the period of comprehensive warranty.
- 6.29.4 The prospective bidders, who are manufacturers, shall submit an undertaking from the Original Equipment Manufacturers (OEM) that they are willing to provide spare parts for the period of warranty as mentioned d, if awarded. The OEM shall also assure continuity of service to their

product, in the event of change in dealership of the bidders – their existing dealers – could not provide service during the warranty period. The undertaking from OEM is an essential document forming part of the Technical Bid, without which the tenders will be rejected summarily in the first round itself.

- 6.29.5 After sales service center in Kerala preferably or at least in South India should be available as part of the pre-qualification criteria under cl.5.2.6 and the bidder shall provide proof of their capability to undertake such maintenance/repair within the stipulated time.
- 6.29.6 Site Visits: The successful bidder shall visit the Institution as part of preventive maintenance as per the frequency mentioned under cl.5.1. during the warranty period. The bidder shall attend any number of break down/repair calls as and when informed by the Tender Inviting Authority.
- 6.29.7 Complaints should be attended properly, maximum within the time mentioned in clause 5.1.9. In case, the repair/fault duration is likely to exceed 72 hours, the successful bidder shall arrange a standby equipment of the same make and model within next 48 hours (total down time should not exceed 5 days) as a stop-gap arrangement till the repair/fault is rectified and the stand by equipment shall perform in the same manner as regards a new equipment.
- 6.29.8 Upon receipt of such notice for repair/breakdown from the Tender Inviting Authority, the successful bidder shall, within the period specified under cl.5.1.9, and with all reasonable speed, repair or replace the defective goods or parts thereof, without cost to the Tender Inviting Authority.
- 6.29.9 If the successful bidder, having been notified, fails to rectify the defect(s) within the period specified in cl.5.1.9, the Tender Inviting Authority may proceed to take such remedial action as may be deemed necessary at the successful bidder's risk and cost and without prejudice to any other rights which the Tender Inviting Authority may have against the successful bidder under the contract.
- 6.29.10 Failure to attend the repairs in time or failure to attend the stipulated preventive maintenance visit or failure to replace the defective equipments or to provide standby equipment if the fault/down time exceeds the stipulated period or to ensure the stipulated up-time in an year shall lead to imposition of a fine of Rs.500 for each day exceeding the stipulated period and/or forfeiture of the performance security and/or may lead to blacklisting/debarring of the defaulting bidder.
- 6.29.11 A warranty certificate duly signed and with proper stamp of the institution concerned and also signed by the authorized signatory with the stamp of the successful bidder shall be submitted to the Tender Inviting Authority for keeping it under safe custody along with the Installation Certificate.
- 6.29.12 The equipment which requires quality assurance test shall be so tested free of cost immediately after installation, during the comprehensive warranty period, during the CMC / AMC period, by the demand of the Tender Inviting Authority and when major spares are replaced.
- 6.29.13 Any mandatory approval required for installation shall be obtained by the successful bidder in liaison with the respective authorities.
- 6.29.14 The bidder shall submit the activities to be carried out during the preventive maintenance visit.
- 6.29.15 The bidder shall submit the parameters which require calibration and the frequency of calibration required. *(If applicable)*
- 6.29.16 The bidder shall submit the details of all major spares in the price bid cover.

6.29.17 The bidder shall undertake on-site calibration of the equipment every year as part of the aftersales service during the period of comprehensive warranty and submit a 'calibration certificate' to the Tender Inviting Authority afterwards. *(If applicable)*

6.29.18 *The offered warranty includes: -*

6.29.18.1 Visits to NSMIMS at frequencies prescribed under cl.5.1. as part of preventive maintenance.

6.29.18.2 Testing & calibration as per technical/service/operation manual of the manufacturer or as per the period specified or as per the demand of the Tender Inviting Authority.

6.29.18.3 Quality Assurance tests (if applicable). The exclusion of warranty of any vital equipment parts will be compared with offers of other bidders during evaluation of the bids and this may be taken into consideration in deciding the successful bidder based on expert advice

6.29.19.5 The bidder shall provide up-time warranty of complete equipment as mentioned in clause 5.1.10, the uptime being calculated on 24 (hrs.) X 7 (days) basis failing which the extension of Warranty period will be extended by double the downtime period.

6.30 SPARE PARTS

6.30.1 The tenders shall offer prices for all the spares/reagents mentioned in the technical specifications separately in the price bid form.

6.30.2 Successful bidder shall carry enough inventories to assure ex-stock supply of consumable spares for the goods so that the same are supplied to the Tender Inviting Authority promptly on receipt of order from the Tender Inviting Authority.

6.30.3 The successful bidder shall take over the replaced parts/goods after providing their replacements and no claim, whatsoever shall lie on the Tender Inviting Authority for such replaced parts/goods thereafter.

6.30.4 The Tender Inviting Authority may place orders for additional spares/consumables/reagents which are needed for the smooth performance/operation of the equipment and the successful bidder shall be willing to supply the same in time at the cost offered in the price bid forms, failing which, such instances will be construed as a breach of tender conditions and lead to penal provisions.

6.30.5 The method of evaluation and comparison of prices will take into consideration the cost of the reagents as well.

6.31. TRAINING.

6.31.1 The successful bidder must impart on-site training to IT Staffs / Doctors/ Technicians/Para-medical staff on the operation and preventive maintenance of the equipment at the time of installation and anytime during warranty period to the satisfaction of the Tender Inviting Authority.

6.31.2 The training details shall be recorded in the installation certificate for enabling the Tender Inviting Authority to make the first 60% payment.

6.33. IMPORTED EQUIPMENTS.

- 6.33.1 The Tender Inviting Authority shall in no way involve in the import of the equipments from foreign countries, if such equipments are manufactured outside the country. It shall be the solemn duty of the bidder to import the equipments offered by paying the requisite consideration in foreign currency and following the stipulations issued by the Government of India, from time to time, in the import of equipments.
- 6.33.2 The bidders shall inform any advantages in prices to the Tender Inviting Authority because of reductions/exemptions in customs duty in case of imported equipments at the time of pre-tender meeting and the tender document shall be modified by amendment to that extent.
- 6.33.3 The Tender Inviting Authority will not interfere in any manner with the import process and the successful bidder shall be solely responsible for supply and installation of any equipment at the time and locations stipulated/agreed to in the bids.
- 6.33.4 Successful bidder shall carry enough inventories to assure ex-stock supply of consumable spares for the goods so that the same are supplied to the Tender Inviting Authority promptly on receipt of order from the Tender Inviting Authority.

6.34. INTELLECTUAL PROPERTY RIGHTS (IPR).

- 6.34.1 The successful bidder shall, at all times, indemnify and keep indemnified the Tender Inviting Authority, free of cost, against all claims which may arise in respect of goods & services to be provided by the successful bidder under the contract for infringement of any intellectual property rights or any other right protected by patent, registration of designs or trademarks.

6.35. CORRUPT OR FRAUDULENT PRACTICES.

- 6.35.1. It is required by all concerned to observe the highest standard of ethics during the procurement process. In pursuance of this policy, the Tender Inviting Authority prescribes the following conditions:
- 6.35.2 "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence in the procurement process or in contract execution; and
- 6.35.3 "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 Tender Inviting Authority, and includes collusive practice among Bidders (prior to or after Tender submission) designed to establish Tender prices at artificial non-competitive levels and to deprive the Tender Inviting Authority of the benefits of free and open competition;
- 6.35.4 Tender Inviting Authority 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; will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract by the Tender Inviting Authority if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing the contract.
- 6.35.5 No bidder shall contact the Tender Inviting Authority or any of its officers on any matter relating to its bid, other than communications for clarifications and requirements under this tender in writing, with an intention to influence the members of various committees or officials of Tender Inviting Authority. Any such effort by a bidder to influence the Tender Inviting Authority in the Tender Inviting Authority's bid evaluation committee, bid comparison or contract award decisions may result in rejection of the bidders bid.

6.36. FORCE MAJEURE

- 6.36.1** For purposes of this clause, Force Majeure means an event beyond the control of the successful bidder and not involving the successful bidder's fault or negligence and which is not foreseeable and not brought about at the instance of the party claiming to be affected by such event and which has caused the non-performance or delay in performance. Such events may include, but are not restricted to, acts, wars or revolutions, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes excluding by its employees, lockouts excluding by its management, and freight embargoes.
- 6.36.2** If a Force Majeure situation arises, the successful bidder shall promptly notify the Tender Inviting Authority in writing of such conditions and the cause thereof within twenty-one days of occurrence of such event. Unless otherwise directed by the Tender Inviting Authority in writing, the successful bidder shall continue to perform its obligations under the contract as far as reasonably practical and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
- 6.36.3** If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of Force Majeure for a period exceeding sixty days, either party may at its option terminate the contract without any financial repercussion on either side.
- 6.36.4** In case due to a Force Majeure event the Tender Inviting Authority is unable to fulfill its contractual commitment and responsibility, the Tender Inviting Authority will notify the successful bidder accordingly and subsequent actions taken on similar lines described in the above sub-paragraphs

6.37. RESOLUTION OF DISPUTES.

- 6.37.1** If dispute or difference of any kind shall arise between the Tender Inviting Authority and the successful bidder in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.
- 6.37.2** If the parties fail to resolve their dispute or difference by such mutual consultation within twenty-one days of its occurrence, then, unless otherwise provided in the tender document, either the Tender Inviting Authority or the successful bidder may give notice to the other party of its intention to commence arbitration, as provided the applicable arbitration procedure will be as per the Arbitration and Conciliation Act, 1996 of India.
- 6.37.3** In the case of a dispute or difference arising between the Tender Inviting Authority and a domestic Successful bidder relating to any matter arising out of or connected with the contract, such dispute or difference shall be referred to the sole arbitration of the Board of Directors whose decision shall be final.
- 6.37.4** Venue of Arbitration: The venue of arbitration shall be the place from where the contract has been issued, i.e., Kollam, Kerala State, India.

6.38. APPLICABLE LAW & JURISDICTION OF COURTS.

- 6.38.1** The contract shall be governed by and interpreted in accordance with the laws of India for the time being in force.
- 6.38.2** All disputes arising out of this tender will be subject to the jurisdiction of courts of law in Kollam

6.39. GENERAL/ MISCELLANEOUS CLAUSES

- 6.39.1 Nothing contained in this Contract shall be construed as establishing or creating between the parties, i.e. the successful bidder/its Indian Agent/CMC Provider on the one side and the Tender Inviting Authority on the other side, a relationship of master and servant or principal and agent.
- 6.39.2 Any failure on the part of any Party to exercise right or power under this Contract shall not operate as waiver thereof.
- 6.39.3 The Successful bidder shall notify the Tender Inviting Authority of any material change that would impact on performance of its obligations under this Contract.
- 6.39.4 Each member/constituent of the Successful bidder in case of consortium shall be jointly and severally liable to and responsible for all obligations towards the Tender Inviting Authority for performance of contract/services including that of its Associates/ Sub Contractors under the Contract.
- 6.39.5 The Successful bidder shall, at all times, indemnify and keep indemnified the Tender Inviting Authority against any claims in respect of any damages or compensation payable in consequences of any accident or injury sustained or suffered by its employees or agents or by any other third party resulting from or by any action, omission or operation conducted by or on behalf of the successful bidder/its associate/affiliate etc.

6.39.6 All claims regarding indemnity shall survive the termination or expiry of the contract.

6.40. PENALTIES FOR NON-PERFORMANCE.

- 6.40.1 The penalties to be imposed, at any stage, under this tender are.
- 6.40.1.1 Imposition of liquidated damages,
- 6.40.1.2 forfeiture of EMD/performance security
- 6.40.1.3 Termination of the contract
- 6.40.1.4 Blacklisting/debarring of the bidder
- 6.40.2 (A) Failure to produce the requisite certificates after claiming to possess such certificates or concealment or misrepresentation of facts will not only lead to rejection of tenders in the first round itself and/or may lead to forfeiture of EMD or performance security as well as result in black listing/debarring of the bidder.
- 6.40.3 The penalties to be imposed on the bidder, at any stage, will be decided on the basis of the violations of number of tender conditions specifically mentioned in the tender document as that leading to forfeiture or EMD/ Performance Security or leading to black-listing/ debarring .
- 6.40.4 Any unexcused delay by the successful bidder in maintaining its contractual obligations towards delivery of goods and performance of services shall render the successful bidder liable to any or all the following sanctions:
- 6.40.5 Liquidated damages:- If the successful bidder fails to deliver any or all of the goods or fails to perform the services within the time frame(s) prescribed in the contract, the Tender Inviting Authority shall, without prejudice to other rights and remedies available to the Tender Inviting Authority under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% of the equipment to be supplied per week of delay or part thereof on delayed supply of goods and/or services until actual delivery or performance subject to a maximum of 15% of the contract price. Once the delivery period is exceeded, Tender Inviting Authority may

consider termination of the contract. During the above-mentioned delayed period of supply and / or performance, the conditions incorporated shall also apply and Tender Inviting Authority shall seek alternate measures at the risk and cost of the successful bidders.

- 6.40.5.1 The penalties imposed by the Tender Inviting Authority will be published on the website of the Tender Inviting Authority for a period as decided as appropriate by it.
- 6.40.5.2 The decision to impose penalties and finally to blacklist the defaulting firm will be final and shall be binding on all bidders participating in this tender.

6.41. TERMINATION OF CONTRACT.

- 6.41.1 Termination for default:- The Tender Inviting Authority, without prejudice to any other contractual rights and remedies available to it (the Tender Inviting Authority), may, by written notice of default sent to the successful bidder, terminate the contract in whole or in part, if the successful bidder fails to deliver any or all of the goods or fails to perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by the Tender Inviting Authority.
- 6.41.2 In the event of the Tender Inviting Authority terminating the contract in whole or in part, the Tender Inviting Authority may procure goods and/or services similar to those cancelled, with such terms and conditions and in such manner as it deems fit and the successful bidder shall be liable to the Tender Inviting Authority for the extra expenditure, if any, incurred by the Tender Inviting Authority for arranging such procurement.
- 6.41.3 Unless otherwise instructed by the Tender Inviting Authority, the successful bidder shall continue to perform the contract to the extent not terminated.
- 6.41.4 Termination for insolvency: If the successful bidder becomes bankrupt or otherwise insolvent, the Tender Inviting Authority reserves the right to terminate the contract at any time, by serving written notice to the successful bidder without any compensation, whatsoever, to the successful bidder, subject to further condition that such termination will not prejudice or affect the rights and remedies which have accrued and / or will accrue thereafter to the Tender Inviting Authority.
- 6.41.5 Termination for convenience:- The Tender Inviting Authority reserves the right to terminate the contract, in whole or in part for its (Tender Inviting Authority's) convenience, by serving written notice on the successful bidder at any time during the currency of the contract. The notice shall specify that the termination is for the convenience of the Tender Inviting Authority. The notice shall also indicate inter alia, the extent to which the successful bidder's performance under the contract is terminated, and the date with effect from which such termination will become effective. Further details could be obtained from the office of the Secretary, Kollam District Cooperative Hospital Society Ltd Q 952

6.42. FALL CLAUSE.

- 6.42.1 The prices charged for the equipment supplies under the contract by successful bidder shall in no event exceed the lowest price at which the successful bidder sells the equipments of identical description to any other persons during the period of contract. If any time, during the contract, the bidder reduces the sales price chargeable under the contract, he shall forthwith notify such reduction to the Tender Inviting Authority and the price payable under the contract of the equipments supplied after the date of coming into force of such reduction or sale shall stand correspondingly reduced.

6.43. COMPLIANCE STATEMENT.

The Bidder shall only use complied products as per the specification mentioned in the tender document. Any variation from “fully-complied” shall be mentioned as “partially complied” and the variation shall be mentioned clearly in a separate “Remarks”.

6.44. SITE SUREVY

Bidder shall conduct a project survey and inspection prior to submit the proposal. A detailed installation plan, dependencies shall be highlighted. The installation plan should consider the required equipment and manpower resources, Additional installation area, re-routing/termination of existing cable/panel/fiber shelf etc. shall be considered. Bidder shall recommend installation techniques such as intermediate assist and back feeds. Detailed survey report shall be submitted along with the proposal. All type of activities shall be mentioned in the survey report. Modified Bill of quantity shall be part of this survey report, if any.

6.45. INSTALLATION

Installation of said work shall be as per manufacturer’s requirements and in accordance with NFPA 70 (National Electric Code), state codes, local codes, etc. Bidder shall use all required consumables. This includes Safety precautions for the labors and components, testing of fiber cable using LED, VCSEL or LASER, etc. There are existing fiber optic cables which is up and running. Bidder shall re-route all the cables and terminate into the open rack located in the proposed DC. Additional components, labor charges, down time, etc. shall be considered in the installation cost and highlight the same in the proposal

6.46.1. INSTALLTION OF OPEN RACK

There are two numbers of 19 Inch 2 post open rack which will be installed including vertical wire manager. All arrangement will be as per the approved layout provided by NS Hospital. Final approval shall be taken for the rack layout and rack positing before mounting the rack. The racks will be mounting on the raised floor which is approx. 300 mm higher than the true floor. However, the mounting support must be installed directly from the true floor. Four numbers of 20-22 mm full treaded rod shall be used to mount the rack from the true floor including all required accessories/fasters for the proper mounting of the rack. 8-12 MM metal plate shall be used to manage the load bearing of the rack. This plate shall be installed below the raised floor tiles. Therefore, the plate shall be received the entire load of the rack and transmit to the floor instead of receiving the load directly to the raised floor tiles and chances to damage the same.

6.47. AIM SOLUTION

Unnecessary downtime and operational inefficiencies cost business millions in lost revenue and missed opportunities every year. our network faces several key challenges for greater operational efficiency, availability and flexibility. There are fiber cables connected from data center to multiple building as the backbone of entire IT services. Any outage of this connectivity will disturb the entire hospital business and lead to loss of revenue. Therefore, Data center shall be enabled with Automated Infrastructure Management for the easy maintenance and manage the entire campus network

6.48. WARRANTY

NS Hospital seeks warranty for the installed cable plant from the equipment supplier. Bidder shall ensure that the OEM norms for supply, installation, testing and documentation as specified by the OEM supplier shall be adhered to, provided those are in line with TIA / EIA standards and Owner requirement specifications. The warranty shall be provided by the OEM vendor to Owner and shall be administered in India. The duration of the warranty shall be for a minimum of 25 years and shall cover the system performance, application assurance and the costs of the supply of components and installation.



Annexure -1
MANUFACTURERS OFFER FORM
(To be submitted by manufacturers)

No.

Dated:

To

The Secretary,
Kollam District Cooperative Hospital Society Ltd Q 952

Sir,

Tender No _____
Equipment Name _____ :

1. We (name of the OEM) declare that we are the original manufacturers of the above equipment having registered office at (Full address with telephone number/fax number & email ID and website), and having factories at _____
2. No company or firm or individual has been authorized to bid, negotiate and conclude the contract regarding this business against this specific tender.
3. We hereby declare that we are willing to provide guarantee /warranty and after sales service (during the period of Warranty as per the above tender).
4. We also hereby declare that we have the capacity to manufacture and supply, install and commission the quantity of the equipments tendered within the stipulated time.

(Name) for and on behalf of M/s. _____
Date: (Name of manufacturers) Place:

Note: This letter of authority should be on the letter head of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer.

Annexure-2
MANUFACTURER'S AUTHORISATION FORM

(to be submitted by authorized dealers/representatives/importers)

No.

Dated:

To

The Secretary
(Tender Inviting Authority)

Kollam District Cooperative Hospital Society Ltd Q 952

Sir,

Tender No :

Equipment Name :

1. We (Name of the OEM) are the original manufacturers of the above equipment having registered office at (Full address with telephone number/fax number & email ID and website), having factories at

_____ and _____, do hereby authorize M/s. _____ (Name and address of bidder) to submit tenders, and subsequently negotiate and sign the contract with you against the above tender no. _____

2. No company or firm or individual other than M/s. _____ are authorized to bid, negotiate and conclude the contract regarding this business against this specific tender.

(A Unit of Kollam District Co-operative Hospital Society)

3. We also hereby undertake to provide full guarantee/ warrantee /CMC/AMC as agreed by the bidder in the event the bidder is changed as the dealers or the bidder fails to provide satisfactory after sales and service during such period of Comprehensive warranty/CMC/AMC and to supply all the spares/reagents during the said period.

4. We also hereby declare that we have the capacity to manufacture and supply, install and commission the quantity of the equipments tendered within the stipulated time.

(Name) for and on behalf of

M/s. _____

Date: (Name of manufacturers) Place:

Note: This letter of authority should be on the letterhead of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the

Annexure-3 AGREEMENT

THIS AGREEMENT made on the.....Day of.....2020 between(Name and Address of *Purchaser*) represented by the Secretary (Hereinafter "*the Purchaser*") on the one part and (Name and Address of Supplier)(Hereinafter "*the Supplier*") represented by (Name of the Authorized Signatory and Designation), Agedyears, residing at (Full Residential Address of the Signatory) on the other part: WHEREAS the *Purchaser* has invited tenders for the supply of(brief description of goods and services vide tender nodatedThe supplier has submitted technical and price bids and also demonstrated the technical specifications / features / other quality requirements as contained in the tender document. The *Purchaser* has finalized the tender in favor of the Supplier for the supply of the said goods and services for a total cost of Rs..... (Contract Price in Words and Figures) (Hereinafter "*the Contract Price*") and issued Letter of Intent / Supply Order No. dated

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the tender document referred to.
2. The following documents shall be deemed to form and be read and constructed as part of this Agreement, viz.:
 - a. all the documents submitted by the bidder as part of technical bid and price bid.
 - b. the Schedule of Requirements.
 - c. the Technical Specifications and other quality parameters.
 - d. the clarifications and amendments issued / received as part of the tender document
 - e. the General Conditions of Contract.
 - f. the Specific Conditions of Contract; and
 - g. the Purchaser's Letter of Intent
3. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to supply, install and commission the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The *Purchaser* hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

Annexure - 4
BANK GUARANTEE FORM

To,

The Secretary
Kollam District Cooperative
Hospital Society Ltd Q 952

WHEREAS _____ (Name and address of the supplier) (Hereinafter called "the supplier") has undertaken, in pursuance of Tender / Contract no _____ dated _____ (herein after called "the contract") to supply the Kollam District Co-operative Hospital Ltd with (Description of goods and supplies).

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such bank guarantee.

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total amount of Rs _____/- (_____) (Amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We undertake to pay you any money so demanded notwithstanding any dispute or disputes raised by the supplier(s) in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under these presents being absolute and unequivocal.

We agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

No action, event, or condition that by any applicable law should operate to discharge us from liability, hereunder shall have any effect and we hereby waive any right we may have to apply such law, so that in all respects our liability hereunder shall be irrevocable and except as stated herein, unconditional in all respects.

This guarantee will not be discharged due to the change in the constitution of the Bank or the Supplier(s).

We, _____ (indicate

the name of bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent, in writing, of Kollam District Cooperative Hospital Society Ltd Q 952

This Guarantee will remain in force up to (Date) unless a claim or a demand in writing is made against the bank in terms of this guarantee on or before the expiry of (Date) all your rights in the said guarantee shall be forfeited and we shall be relieved and discharged from all the liability there under irrespective of whether the original guarantee is received by us or not.

(Signature with date of the authorized officer of the Bank)

.....

Name and designation of the officer

.....

Seal, name & address of the Bank and address of the Branch



Annexure-5
GENERAL INFORMATION ABOUT THE BIDDER

1	Name of the Bidder	
	Registered Address of the Firm	
	State	
	District	
	Telephone	
	Email Address	
	Official Website	

ESCALATION MATRIX					
SL NO	LEVEL	NAME	DESIGNATION	CONTACT	EMAIL
	LEVEL 1				
	LEVEL 2				
	LEVEL 3				
	LEVEL 4				
	LEVEL 5				

KEY PERSONNELS OF THE COMPANY			
SL NO	NAME	DESIGNATION	CONTACT NUMBER
1	Chairman		
2	Managing Director		
3	CEO		
4	Managing Partners		

BUSINESS LOCATIONS OTHER THAN REGISTERED ADDRESS

Address -1	
Address - 2	
Address - 3	

TYPE OF THE FIRM	
Private Ltd	
Partnership	
Public Ltd	
Proprietorship	
Society	
Others (Specify)	

NATURE OF BUSINESS OF THE BIDDER	
Original Equipment Manufacturer	
Authorized Dealer / Representative	
Direct Importer	
Others, Specify	

N.S.
Co-operative Hospital
(A Unit of Kollam District Co-operative Hospital Society)

Annexure-6
OFFER FORM

Having examined and accepting the conditions of the tender document
we here by submit this offer for the

supply & installation of

..... conforming the detailed technical specification

mentioned in section IV of the tender document. The details of the equipment offered are as follows.

Sl. No	Name of the Equipment	Model	Original Equipment Manufacturer

N.S.
Co-operative Hospital
(A Unit of Kollam District Co-operative Hospital Society)

Date:

Office seal

Signature of the Bidder/

Authorized Signatory

Annexure-7
SERVICE CENTRE DETAILS

Toll free number, if any			
Sl. No	Name and address of the service center (s)	Contact Details	
1		Telephone No:	
		Fax No:	
		Email ID.	
		Name of the Service Engineer	
		Mobile No.	
		Office No	
		Fax No:	
		Email ID.	
2		Name of the Service Engineer	
		Mobile No.	

Date:

Official Seal

Signature of the
Bidder /
Authorized
Signatory

Annexure-8
POWER OF ATTORNEY
(On a Stamp Paper of relevant value)

I/We..... (Name and address of the registered office) do hereby constitute, appoint and authorize Sri/Smt..... (name and address) who is presently employed with us and holding the position of as our attorney, to act and sign on my/our behalf to participate in the tender no..... for..... (Equipment name). I/ We hereby also undertake that I/we will be responsible for all action of Sri/Smt Undertaken by him/her during the tender process and thereafter on award of the contract. His / her signature is attested below.

Dated this the ____day of 2020

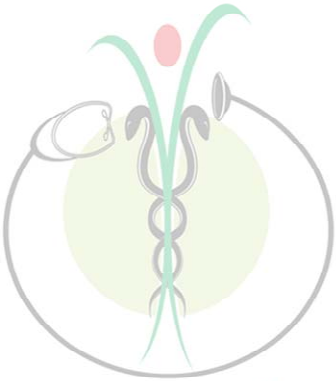
For_____

(Name, Designation and Address)

Accepted

(Signature)

(Name, Title and Address of the Attorney) Date: _____



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(A Unit of Kollam District Co-operative Hospital Society)

Annexure-9
DECLARATION FORM

I/We M/s. _____ represented by _____
its Proprietor / Managing Partner / Managing Director having its Registered Office at _____ do hereby declare that I/We have carefully read all the conditions of tender dated _____
..... for Design, Supply, Installation, Testing & Commissioning & Support of Datacenter Equipments.
floated by the Kollam District Cooperative Hospital Society Ltd Q 952 and accepts all conditions of Tender.

Signature of the Bidder _____
Name in capital letters with Designation _____



N.S.
Co-operative Hospital
(A Unit of Kollam District Co-operative Hospital Society)

Annexure-10
Warranty Certificate

Name of the Supplier:	Name of the Secretary
Signature:	Signature:
Seal:	Seal:

WARRANTY CERTIFICATE

(to be filled jointly by the Bidder, & Representative of the Tender Inviting Authority individually for every equipment)

Date:

Supply order No: dated.....

The instrument (Item Name)


Model No..... Bearing serial no was installed

successfully at NSMIMS is offered with

a comprehensive warranty for a period of Years starting from

(A Unit of Kollam District Co-operative Hospital Society)

..... to including all the following accessories.



N.S.

Co-operative Hospital

(A Unit of Kollam District Co-operative Hospital Society)

SECTION VII

TECHNICAL SPECIFICATION FOR THE DATACENTER ITEMS

1. Specification for CAT 6A LSZH U/UTP Cable

Cat-6A Horizontal Cable	Compliance (Yes/No)	Remarks
The Cable should meet ANSI/TIA 568C.2 Category 6A Specifications		
The cable should consist of Eight 23 AWG bare copper conductors. Copper Clad Aluminum or any other combinations are not allowed		
The weight of the cable box of 1000 Feet should not be less than 36. 90 lb/kft		
Maximum Operating Frequency will be 550 MHz		
Pair Separator shall be Isolator for between pair and within pair to reduce the cross talk and improve performance		
maximum Pulling Tension will be 11 KG		
The cable should support the installation temperature: 0 to 60 ° C		
It should support Operating temperature of -20 to 60 ° C		
Should have ETL verified CMR, CMG		
The LSZH Cable should support the following standard to qualify		
ISO/IEC 60332-3-22 Vertical Flame spread test		
ISO/IEC 60754-2Acidity		
ISO/IEC 61034-2 Smoke Density		
3rd Party verification of Fire safety/environmental tests listed above must be provided as part of the bid response.		
The cable and cordage shall be UTP components that do not include internal or external shields, screened components or drain wires.		

2. Specification for CAT 6A LSZH U/UTP RJ45 Patch Cords

Standard Compliance	Compliance (Yes/No)	Remarks
Patch Cords shall be equipped with 8-pin modular plugs on each end.		
All cords shall be round, and consist of copper conductors, tightly twisted into individual pairs.		
Nominal cordage diameter shall not exceed 7.24 mm.		
Plugs shall be designed with an anti-snag latch to facilitate easy removal during move, add and change processes.		
The cordage sheath shall be made of Low-Smoke, Zero Halogen (LSZH)		
The LSZH version must comply with the following Fire Safety standards:		
ISO/IEC 60332-3-22: Vertical Flame Spread		
ISO/IEC 60754-2: Acidity		
ISO/IEC 61034-2: Smoke Density		

3rd Party verification of the Fire Safety/ Environmental tests listed above must be provided as part of the bid response.		
The cordage shall be UTP components that do not include internal or external shields, screened components or drain wires.		
The patch cords will have insertion life of 750 cycles minimum.		

3. Specification for CAT 6A Jack Panel

Standard Compliance	Compliance (Yes/No)	Remarks
The panel shall be available in 24-port and 48-port configurations with universal A/B labeling and 110 connector terminations on rear of panel allowing for quick and easy installation of 22 to 24 AWG cable		
The ganged adapter style patch panel will utilize increments of six RJ-45 style jacks in a common molded component.		
The patch panel shall be compliant with IEC 60603-7 for Plug Insertion life test and minimum Plug Insertion life shall be 750 times		
The ganged adapters shall have RJ45 jack in the front and Insulation Displacement Connector (IDC) at the rear of the module.		
Panel shall be available in straight and angled style with made of Powder-coated steel		
Termination managers must be provided with the panel. These termination managers provide proper pair positioning, control, and strain relief features to the rear termination area of the panel.		
3rd Party Verification test certificates shall be provided to show compliance to ISO/IEC 11801 testing for category 6 components.		
When configured in worst-case 100-meter channels with full cross-connects and consolidation points with the other products proposed in this tender, the panel shall be capable of delivering the minimum guaranteed channel performance.		

4. Specification for CAT 6A Jack Panel-AIM

Standard Compliance	Compliance (Yes/No)	Remarks
Cat-6A AIM patch panels shall provide capabilities of registering patch connections made between corresponding intelligent panel ports and non-intelligent patch panel port or equipment port		
AIM copper patch panels shall be available in 24-port and 48-port standard and angled configurations, and a 24-port configuration that supports individual jack modules.		
patch panels shall be compatible with standards-compliant 60603-7 (RJ45) plugs and shall detect the insertion and removal of compliant plugs into a patch panel port.		

Panels should be able to detect any standard patch cord insertion and disconnection		
patch panel shall provide a button and an LED indicator at every panel port to enable easy tracing and identification of patch connections in the telecom room.		
AIM patch panels shall be packaged with all necessary system-connecting cable(s) attached to the panel. Intelligent patch panels should be ready for use right out of the shipping box.		
copper patch panels should allow for removal and replacement of sensing Assembly without requiring disconnection of installed patch cords		
AIM patch panels should be as easy to install/terminate as non-intelligent panels		
patch panels shall be compatible with mounting on 19" based hardware per EIA-310		

5. Specification for AIM Controller

Standard Compliance	Compliance (Yes/No)	Remarks
The Intelligent System Controller should be 19" Rack Mountable		
The Intelligent System Controller Should occupy no more than 2 U rack space with the capability for 0U mounting		
The Intelligent System Controller Should be able to manage up to 45 1 U Copper or Fiber Panels per rack (1080 ports)		
Only one Intelligent System Controller shall be required per rack.		
Color LCD Screen with a touch screen interactive user interface to Display status, complete Circuit trace, alarms and work order, also performs configurations, diagnostics functions.		
The Intelligent System Controller shall be able to display on the LCD screen information indicating if a traced panel port is assigned to a scheduled work order.		
Multiple Intelligent System Controllers shall be able to interconnect together using serial bus architecture such as "daisy chain", with standard modular RJ45 patch cords.		
The Intelligent System Controller shall have a configurable Ethernet LAN connection capability to enable communication with Intelligent Infrastructure Operations Software.		
Enabling of Ethernet capabilities for a System Controller System shall not require the use of external devices		
The Intelligent System Controller shall support IPv6 and IPv4 communications		

6. Specification for AIM Software

Standard Compliance	Compliance (Yes/No)	Remarks
The Operations Software shall be web based, 64 bits, supports (IE, Firefox, Safari, Chrome) browser application		
The Operations Software shall be compatible with Simple Network Management Protocol (SNMP) and support SNMP v1, SNMP v2c, and SNMP v3.		
The Operations Software shall support IPv6 communications.		
The Operations Software shall be capable of importing, displaying and printing CAD drawings for accurate representation of building's floor plans.		
The Operations Software shall provide capabilities for documenting Outside Plant cabling infrastructure that includes campus maps, cable vaults, conduits, splice enclosures, etc.		
The Operations Software shall support automatic and manual database backups.		
The Operations Software shall have capability to auto discover the installed intelligent hardware (intelligent panels and control systems) in each rack/cabinet and to auto populate this information in its database.		
The Operations Software shall have the capability of auto discover the configuration of predefined managed switches (LAN and SAN environments) and then to auto populate that information in its database, link status information,		
The Operations Software shall have the capability to accurately identify the physical location of the discovered networked devices (physical or virtual) within the corporate network (as defined within site/building/telecom room/rack/office/outlet/jack).		
The Operations Software shall have the capability to detect configuration changes to managed SAN and LAN switches.		

7. Fiber Optic panel unloaded, 1U up to 48 port

Standard Compliance	Compliance (Yes/No)	Remarks
Fiber panel shall be made of metal with powder coated which shall Accepts four pigtail modules and two Splices tray with three trays each.		
The width shall be 19 inches and height of 1U (1.75 inches), with a maximum of 18-inch depth.		
Should be available with Bend limiters maximize space by integrating into the shelf trough		
Should have Unique open-floor trough design enhances access for patch cord latching and de-latching		
These Fiber shelves should be usable with MPO Pre-terminated fiber cassettes as well.		

The Panel Should have Front cable management trough and top cover panel		
The solution should be upgradable to intelligence without any downtime requirement to the network.		
Shall have splice trays to splice minimum 32/64 fibers.		
Mounting brackets can be placed in different positions		
Panel shall be intelligent panel to manage the fiber ports		

8. Multi-mode (OM4) LC Pigtails Module set of 12 pigtails

Standard Compliance	Compliance (Yes/No)	Remarks
All modules shall be prepopulated with fiber-optic adapters, and shall be offered with or pre-assembled and factory-terminated pigtails LC type		
One type of LC module is offered, containing 12 pigtails with colorized 0.9mm tight-buffered cordages, following color sequence as defined by TIA standard.		
The modules should be intelligent ready modules		
The systems should be upgradable to intelligence without any downtime to the network/users.		
The LC Interface should have the shutter for the port to avoid dust in the fiber connectors.		
LC to Connectorized, Fiber Pigtail, 0.9 mm Riser		
Cable Length 5 feet		
Cable Sheath Low Smoke Zero Halogen (LSZH)		
Adapter color Aqua		
Full Ceramic		
LC connector		
ROHS/ELV Compliant		

9. Splice tray Kit with 2 fusion splice trays

Standard Compliance	Compliance (Yes/No)	Remarks
Product type shall be Fusion splice kit		
For 1U shelves and surface mount enclosures		
Splice Trays shall be Included		
Number of Splice Trays will be 2/4		
Splices, quantity will be 24/64		
ROHS/ELV Compliant		

10. Multimode (OM4) LC to LC Patch Cord, 3 meters

Standard Compliance	Compliance (Yes/No)	Remarks
LC to LC Duplex OM4, Fiber Optic Patch Cords 3m 50/ 125 micron		
Cable Sheath shall be made of LSZH		
Cable Diameter shall be 1.6 mm		
Ferrule shall made of Ceramic		
Operating Temperature -10 °C to +60 °C (+14 °F to +140 °F)		
Cable Retention Strength, maximum -4.40 lb. @ 90 °		
ROHS/ELV Compliant		

11. Wire Basket System

Standard Compliance	Compliance (Yes/No)	Remarks
Wiring Basket / Cable Tray should be as per latest TIA 568C standard maintaining all stringent requirements of the same standard.		
Should support cabling for fiber and Cat5e/Cat6/Cat6A/Cat7/Cat7a while ensuring the bend radius requirements all along the lay of the cable.		
Cross section, T sections. L bends, drop kits etc. should be part of the complete solution for mounting it over the rack as per rack placement		
The Wiring Basket / Cable tray should be made of Mild steel and the finish shall be Zinc Blue Trivalent Plated		
The construction should be welded		
It should be available in metallic color		
The Wiring Basket / Cable Tray should have a provision to ground the system		

12. 2 Post Open Frame Racks

Standard Compliance	Compliance (Yes/No)	Remarks
Shall be a 45U equipment rack General Specifications a) Product Type: 2 Post Rack b) Rack Units: 45 c) Color: Black d) Finish: Powder-coated, textured e) Rack Type: EIA 19 in		

Dimensions		
a) Channel Width: 3 inches		
b) Depth: 15 inches		
c) Height: 84 inches		
d) Width: 20.4 inches		
Dimensional Standards: EIA-310-E		
Safety Standards: UL Listed		
Mechanical Specifications		
a) Rail Mounting Hole: #12-24		
b) Material Type: Aluminum		
c) Static Load Rating: 453.6 kg (1000		
Regulatory Compliance: RoHS 2011/65/EU compliant		

13. Double Sided Vertical Cable Management 8 inches

Standard Compliance	Compliance (Yes/No)	Remarks
Shall be available in 8 inches, with silver color doors		
General Specifications		
a) Color: Silver		
b) Configuration Type: Double sided		
c) Door Quantity: 2		
d) Finish: Powder coated, smooth		
Dimensions		
a) Depth: 22 inches		
b) Height: 84 inches		
c) Width: 6 inches		
Safety Standards: UL Listed		
Mechanical Specifications		
a) Material Type: Aluminum		
Regulatory Compliance: RoHS 2011/65/EU compliant		
Shall have 2 nos. of cable management spools		
General Specifications for Spools		
a) Color: Black		
b) Quantity: 2		
c) Material Type: Plastic		
d) Safety Standards: UL		
Regulatory Compliance: RoHS 2011/65/EU compliant		

14. Single Side 1U Cable Manager

Standard Compliance	Compliance (Yes/No)	Remarks
Shall be a single sided 1U, 19 Inch Cable Manager		
Safety Standard: UL		
Regulatory Compliance: RoHS 2011/65/EU		
Material Type: Aluminum and Steel		
General Specifications a) Color: Black b) Rack Units: 1 c) Finish: Powder coated, smooth		
Shall have fingers to maintain the patch cord bend radius		
The front shall have a hinged door for easy access		

15. Floor Standing Server Racks

Standard Compliance	Compliance (Yes/No)	Remarks
The General Specifications of the Floor standing Server rack shall be: a) Product Type: Floor Standing rack b) Rack Units: 45U c) Color: Black d) Finish: Powder-coated, textured e) Rack Type: EIA 19 in		
The cabinets shall consist of a welded and assembled steel frame Construction of 800mm widths, 1200mm depths, and 45 RU heights.		
Cabinets shall include perforated double doors with 69% air flow rate and split rear perforated doors.		
Cabinet shall have two horizontal side panels on each side or optional as an accessory.		
The cabinet shall have fully adjustable equipment rails with provision for front (800mm wide) cable management fingers.		
The top of cabinet includes brush cable entry points (Front and rear side) to prevent air leakage.		
Cabinets shall have optional equipment rails, vertical blanking panels and bottom panels for effective air sealing.		
The entire cabinet shall be fully electrically bonded, including equipment rails, doors, and side panels.		
Cabinets shall have static 1200kg (2645 lbs.) load rating and rolling 500kg (1100 lbs.) load rating.		
Cabinet shall have Cable Runways with the Size of Height: 245 mm Width: 514 Depth: 80		

Cabinet Supply shall include cable loop 90x85 mm for cable management		
Shelving -The manufacturer should offer shelves with the ability to Support up to 100 kg of non-rack mount equipment.		
Safety Standards: UL Listed		
Regulatory Compliance: RoHS 2011/65/EU compliant		

16. Vertical Power Distribution Unit (Server Rack)

Standard Compliance	Compliance (Yes/No)	Remarks
The Basic Vertical Rack Power Distribution Unit (PDU) shall have the following specifications		
Power Outlets IEC-320-C13 : 12 Numbers outlets IEC-320-C19 : 12 Numbers outlets Power Cord : 32 A, 3-pin IEC-309		
Electrical : 32 A Input Connections : 400 - 440VAC +6%, -10% Acceptable input voltage : 32 A Maximum input current : 50/60 Hz Input frequency : Min 10 kVA Input power : 220-240 VAC Output voltage : IEC-320-C13: 10 A. Maximum output current (outlet) : IEC-320-C19: 16 A Maximum output current (phase) : 32 A Maximum output current (breaker) : 16 A (A Unit of Kollam District Co-operative Hospital Society)		
Safety Standards : VDE, CE / UL		
Mechanical Specifications Material Type: : Aluminum		
Regulatory Compliance: : RoHS 2011/65/EU compliant		
Dimensions (H x W x D) : 162.5 x 5.5 x 4.6 cm		
Depth at breakers : 9.4 cm		

17. Cable Runway kit

Standard Compliance	Compliance (Yes/No)	Remarks
Cable Runway kit should be as per latest TIA 568C standard maintaining all stringent requirements of the same standard.		

The tubular Cable Runway kit shall be 300 mm Wide with cross member at 225mm intervals		
Butt Splice Kit, Junction Splice Kit, End Closing Kit, Cable runway, Foot Kit, Cable Runway, etc. should be part of the complete solution for mounting it over/below the rack as per rack placement		
The construction should be welded		
Color shall be black powder coated		
Cable Runway kit should have a provision to ground the system		

SECTION VIII
APPROVED MAKES & SPECIAL INSTRUCTIONS

Closed cabinet	Netrack / APW / Rittal
Open Rack	Panduit-Pan net / CommScope SYSTIMAX / Nexans / Belden
Passive cabling	Panduit-Pan net / CommScope SYSTIMAX / Nexans / Belden
Pathway system	Panduit-Pan net / CommScope SYSTIMAX / Nexans / Belden

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N.S.
Co-operative Hospital
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