

No: IGCON/IT/2026-1

TENDER DOCUMENT

Date: 06.07.2026

SUPPLY, INSTALLATION, TESTING, COMMISSIONING, MAINTENANCE AND RELATED SERVICES OF EXTRA LOW VOLTAGE (ELV) NETWORKING SYSTEMS

At College Building of Indira Gandhi College Of Nursing

For M/s Cochin Co Operative Hospitals Society Ltd No: E 288

ADDRESS

Secretary,
Cochin Co Operative Hospitals Society Ltd No: E 288,
Kadavanthra, Kochi 682020
Phone: 0484 220 6734

NOTICE INVITING TENDER (NIT)

Tender No: CCHS/COLLEGE/2026-1

Date: 06.07.2026

NOTICE INVITING TENDER FOR SUPPLY, INSTALLATION, TESTING, COMMISSIONING, MAINTENANCE AND RELATED SERVICES OF EXTRA LOW VOLTAGE (ELV) NETWORKING SYSTEMS

Project: Indira Gandhi College of Nursing at Thiruvaniyur Panchayath, Ernakulam District (SH: Supply, Installation, Testing, Commissioning and Maintenance of ELV Networking Systems including CCTV Surveillance, , Biometrics, Audio Visual Systems, Network Cabling, Wireless Access Systems and Network Racks.)

Invitation for Bids

The Secretary, **Cochin Co-operative Hospitals Society Ltd No. E 288**, Kadavanthra, Kochi – 682020, invites sealed **Item Rate Bids (Single Stage – Two Envelope System)** from eligible and qualified **OEMs / System Integrators / Authorized Channel Partners** having experience in similar institutional ELV / IT infrastructure projects, and having valid license in Kerala Government/ State PWD / CPWD / BSNL / Indian Railways or Reputed Private Firms in Kerala as for the **Supply, Installation, Testing, Commissioning, Maintenance and Related Services of Extra Low Voltage (ELV) Networking Systems** for the College Building of **Indira Gandhi College of Nursing at Thiruvaniyur Panchayath, Ernakulam District**.

The key details of the tender are as follows:

1. Bid Data Table

Sl. No.	Description	Details
1	Probable Amount of Contract (PAC)	₹ 70,00,000/- (Rupees Seventy Lakh Only)
2	Bid Security (EMD)	₹ 50,000/-
3	Cost of Tender Document & Processing Fee	₹ 2,500/- + GST (18%)
4	Bid Validity	180 Days
5	Period of Completion	3 Months
6	Performance Security	5% of Contract Value
7	Retention Money	2.5% of Billed amount
8	Mode of Tender Submission	Offline – Two Envelope System
9	Warranty / Maintenance Period	36 Months from Commissioning
10	Tender sale closes at	24 th July 2026 at 12.00 PM
11	Last Date and time of Bid Submission	24 th July 2026 at 2.00 PM
12	Opening of Technical Bid	24 th July 2026 at 3.00 PM

2. Eligibility Criteria

Only eligible bidders meeting the following minimum qualification criteria shall participate in the bidding process:

3. Experience Criteria

The bidder should have successfully completed similar ELV / IT infrastructure works during the last five years, satisfying any one of the following:

- **Three similar completed works** costing not less than **₹ 40 lakh each**, OR
- **Two similar completed works** costing not less than **₹ 60 lakh each**, OR
- **One similar completed work** costing not less than **₹ 120 lakh**

Completion certificates and corresponding work orders shall be submitted as proof.

Tender for ELV &Networking @ College Building of Indira Gandhi College of Nursing

4. Financial Criteria

- The bidder shall have a minimum average annual turnover of **₹ 1 Crore** during the preceding three financial years ending 31.03.2025.
- Audited financial statements and income tax returns for the last three years shall be submitted.

5. Technical Eligibility

The bidder shall be:

- Original Equipment Manufacturer (OEM), OR
 - Authorized System Integrator / Authorized Channel Partner of OEM(s)
- and shall submit:
- Manufacturer Authorization Form (MAF)
 - GST Registration
 - PAN
 - Relevant technical and compliance documents as specified in the tender.

6. Tender Submission

The tender shall be submitted in **offline mode only** in **two separate sealed envelopes** as follows:

6.1. Envelope 1 – Technical Bid

Containing:

- Eligibility documents
- Technical proposal
- Compliance documents
- EMD
- Tender fee
- Supporting certificates
- Signed tender document

6.2. Envelope 2 – Financial Bid

Containing:

- Priced BOQ / Commercial Bid in prescribed format only

Both envelopes shall be placed in one outer sealed cover and submitted to:

The Secretary

Cochin Co-operative Hospitals Society Ltd No. E 288

Kadavanthra, Kochi – 682020

within the date and time specified in the tender notice.

Late bids shall not be accepted.

7. Pre-Bid Meeting and Site Visit

A pre-bid meeting shall be conducted at:

Indira Gandhi Co-operative Hospital, Kadavanthra, Kochi – 682020

on **14.07.2026 at 3.00 PM**

Prospective bidders are encouraged to attend the pre-bid meeting.

Bidders are also advised to visit the project site **either before or after the pre-bid meeting**, at their own cost and responsibility, to familiarize themselves with site conditions before submission of bids.

8. Time Limits Prescribed

Sl. No.	Activity	Time Limit
1	Delivery of Materials	Within 45 days from Purchase Order
2	Installation, Testing & Commissioning	Within 45 days from Delivery
3	Warranty Period	36 months from Commissioning

4	Preventive Maintenance Visits	Half Yearly
5	Payment	As per Contract Conditions
6	Submission of Performance Security & Agreement	Within 14 days of award
7	Required System Up-time	98% annually
8	Maximum Complaint Attendance Time	Within 24 hours
9	Complaint Rectification	As per SLA in Contract Conditions

9. General Conditions

1. The Employer reserves the right to accept or reject any bid, or annul the bidding process, without assigning any reason and without incurring any liability to bidders.
2. The Employer shall not be responsible for any expenses incurred by bidders in connection with preparation or submission of bids.
3. If the tender opening date falls on a holiday or non-working day, the tender shall be opened on the next working day at the same time and place.
4. Corrigenda / amendments, if any, shall form part of the tender document.
5. Submission of bid shall be deemed to constitute full understanding and acceptance of the tender conditions.

10. Availability of Tender Document and Corrigenda

The Tender Document may be downloaded from the website <http://igchkochi.com/> specified in the Notice Inviting Tender and the cost of tender fee as prescribed in the Tender Notice should be paid through NEFT to the account of Cochin Co Operative Hospitals Society Ltd No: E 288 ,Kadavanthra, Kochi 682020. The cost of the Tender Document and processing fee, once paid, shall not be refunded under any circumstances. Any clarification, corrigendum, addendum, amendment, extension notice, or other communication relating to this tender shall be published only on the said website, and the same shall form part of the Tender Document. Bidders are advised to regularly visit the website for updates until completion of the tender process.

Failure of the bidder to take note of corrigenda or amendments published on the website shall not relieve the bidder from contractual obligations or tender conditions.

10.1. Account details

Cochin Co Operative Hospitals Society Ltd No: E 288 ,Kadavanthra, Kochi 682020, A/ C Name: Cochin Co- Operative Hospitals Society Ltd No E 288. A/C No- 50200022925676. IFSC - HDFC0000295. A/C Type - Current Account

Secretary

Cochin Co-operative Hospitals Society Ltd No. E 288
Kadavanthra, Kochi – 682020

Abbreviations

Abbreviation	Full Form	Abbreviation	Full Form
AV	Audio Visual	LMS	Learning Management System
BOQ	Bill of Quantities	MAF	Manufacturer Authorization Form
CA	Chartered Accountant	Mbps	Megabits per second
CAT6	Category 6 Cable	MCB	Miniature Circuit Breaker
CCTV	Closed Circuit Television	NIT	Notice Inviting Tender
CCHS	Cochin Co-operative Hospitals Society Ltd No. E 288	NVR	Network Video Recorder
CPWD	Central Public Works Department	OEM	Original Equipment Manufacturer
CPU	Central Processing Unit	OFC	Optical Fiber Cable
DG	Diesel Generator	OTDR	Optical Time Domain Reflectometer
EIA	Electronic Industries Alliance	PAC	Probable Amount of Contract
ELV	Extra Low Voltage	PAN	Permanent Account Number
EMD	Earnest Money Deposit	PCC	Particular Conditions of Contract
EPF	Employees Provident Fund	PPE	Personal Protective Equipment
ESI	Employees State Insurance	PSU	Public Sector Undertaking
ERQ	Employer's Requirements	PWD	Public Works Department
FAT	Factory Acceptance Test	RA Bill	Running Account Bill
FO	Fiber Optic	RJ45	Registered Jack 45
GCC	General Conditions of Contract	SLA	Service Level Agreement
GIS	Geographic Information System	SI	System Integrator
GbE	Gigabit Ethernet	SNMP	Simple Network Management Protocol
GST	Goods and Services Tax	SSID	Service Set Identifier
HDD	Hard Disk Drive	STQC	Standardisation Testing and Quality Certification
IP	Internet Protocol	TDS	Tax Deducted at Source
ISP	Internet Service Provider	TIA	Telecommunications Industry Association
IT	Information Technology	UPS	Uninterruptible Power Supply
ITB	Instructions to Bidders	UTP	Unshielded Twisted Pair
LAN	Local Area Network	VLAN	Virtual Local Area Network
LD	Liquidated Damages	WAN	Wide Area Network
LIU	Light Interface Unit	WiFi	Wireless Fidelity

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1. INSTRUCTIONS TO BIDDERS

1.1.GENERAL

1.1.1. Scope of Bid

Cochin Co-operative Hospitals Society Ltd No. E 288 (hereinafter referred to as “CCHS”) invites bids for the **Supply, Installation, Testing, Commissioning, Maintenance and Related Services of Extra Low Voltage (ELV) Networking Systems** for the College Building of **Indira Gandhi College of Nursing at Thiruvaniyur Panchayath, Ernakulam District.**

The scope of work includes, but is not limited to:

- Structured Network Cabling

- CCTV Surveillance Systems
- Wireless Access Systems
- Biometrics
- Audio Visual Systems
- Network Racks and Accessories
- Testing, Certification, Documentation and Maintenance

The successful bidder shall supply, install, test, commission and maintain the systems for a period of **36 months** from the date of commissioning, in accordance with the technical requirements, Service Level Agreements (SLA), and conditions specified in this tender.

CCHS reserves the right to increase or decrease quantities up to **25% of the tendered quantity** at the same rates, terms and conditions, subject to requirement and availability of funds.

1.1.2. Source of Funds

The project is funded by **Cochin Co-operative Hospitals Society Ltd No. E 288.**

1.1.3. Fraud and Corrupt Practices

Bidders shall observe the highest standards of ethics during the bidding process and execution of the contract.

CCHS may reject a bid, cancel the tender, terminate the contract, or take legal action if it is found that the bidder has engaged in:

- Fraudulent practice
- Corrupt practice
- Collusive practice
- Coercive practice
- Misrepresentation
- Submission of false documents
- Bid rigging or cartel formation

Any bidder found involved in such practices may be disqualified and their EMD forfeited.

1.1.4. Eligible Bidders

A bidder may be:

- Original Equipment Manufacturer (OEM), OR
- Authorized System Integrator, OR
- Authorized Channel Partner of OEM(s)

eligible to undertake the work under Indian law.

The bidder shall satisfy the qualification criteria specified in the tender and shall submit documentary evidence in support of the same.

A bidder shall not:

- be blacklisted by Government / PSU / statutory authorities
- submit false information
- participate with conflicting interests
- submit more than one bid for the same tender

CCHS reserves the right to verify any document submitted by the bidder.

1.1.5. Account details

Cochin Co Operative Hospitals Society Ltd No: E 288 ,Kadavanthra, Kochi 682020, A/ C Name: Cochin Co- Operative Hospitals Society Ltd No E 288. A/C No- 50200022925676. IFSC - HDFC0000295. A/C Type - Current Account

1.2. CONTENTS OF BIDDING DOCUMENT

1.2.1. Sections of Tender Document

The Tender Document shall consist of:

- Section 1 – Notice Inviting Tender
- Section 2 – Instructions to Bidders
- Section 3 – General Conditions of Contract
- Section 4 – Bidding Forms / Proformas
- Section 5 – Technical Specifications / Schedule of Requirements
- Annexures / Forms / BOQ / Agreement Formats

The bidder shall examine all sections carefully before submission of bid.

Failure to furnish required information may result in rejection of bid.

1.2.2. Clarification of Tender Document / Site Visit / Pre-Bid Meeting

A prospective bidder requiring clarification may seek the same in writing before the prescribed deadline.

A pre-bid meeting shall be conducted as notified in the tender.

Bidders are advised to visit the project site **either before or after the pre-bid meeting**, at their own cost and responsibility, to understand site conditions, access limitations, infrastructure readiness and execution constraints.

Failure to inspect the site shall not relieve the bidder of contractual obligations.

1.2.3. Amendment / Corrigendum

CCHS may amend the tender document by issuing corrigendum / addendum at any time prior to the last date of submission of bids.

Such corrigendum shall form part of the tender document and shall be binding on all bidders.

CCHS may extend the bid submission date, if required.

1.3. PREPARATION OF BIDS

1.3.1. Cost of Bidding

The bidder shall bear all costs associated with preparation and submission of the bid.

CCHS shall not be responsible for such costs irrespective of the outcome of the tender.

1.3.2. Language of Bid

The bid and all correspondence shall be in **English**.

Any supporting documents in another language shall be accompanied by English translation.

1.3.3. Documents Comprising Technical Bid

The Technical Bid shall include:

1. Technical Bid Letter
2. Bidder Profile
3. Corporate Profile
4. Eligibility documents
5. Work experience documents
6. Turnover documents
7. Audited financial statements
8. Income Tax Returns
9. Manufacturer Authorization Forms

10. Technical compliance statements
11. Technical specifications with make and model
12. Warranty undertaking
13. Service support details
14. Blacklisting declaration
15. Power of Attorney
16. Signed tender document
17. GST Registration
18. PAN
19. EMD
20. Tender fee receipt
21. Any other documents required in the tender

Prices shall **not be disclosed** in Technical Bid.

1.3.4. Deviations and Bidder's Conditions

Printed terms and conditions of the bidder shall not be considered as part of the bid unless specifically accepted in writing by CCHS.

The bidder shall be deemed to have accepted all terms and conditions of the tender unless specifically stated otherwise in the bid.

If the materials, systems, services, specifications, or requirements offered by the bidder differ in any respect from the Technical Specifications, Employer's Requirements or Schedule of Requirements, The bidder shall clearly and specifically indicate such deviations in the Technical Compliance Statement / Deviation Statement submitted with the Technical Bid.

The bidder shall categorically state whether the offered systems and services conform fully to the tender requirements and specifications.

Failure to disclose deviations shall be deemed as confirmation of full compliance with the tender requirements.

CCHS reserves the right to:

- accept or reject any deviation,
- seek clarification,
- treat undisclosed deviations as non-compliance,
- reject bids containing material deviations.

Minor deviations accepted by CCHS shall not relieve the Contractor from ensuring satisfactory performance and compatibility of the complete system.

1.3.5. Documents Comprising Financial Bid

The Financial Bid shall contain:

- Priced BOQ only
- Commercial Bid in prescribed format only

No technical literature or qualification documents shall be included in Financial Bid.

1.3.6. Bid Prices

The bidder shall quote prices for all items in the BOQ.

Rates shall be:

- in Indian Rupees
- item-wise
- complete

- inclusive of packing, forwarding, freight, insurance, loading, unloading, installation, testing, commissioning and all incidental charges

GST shall be shown separately where applicable.

If any BOQ item is left blank, it shall be deemed included in other quoted rates.

1.3.7. Firm Prices

Prices quoted shall be:

- firm
- final
- non-scalable

No price revision shall be permitted after submission of bid.

1.3.8. Bid Security (EMD)

The bidder shall submit **₹50,000/- (Rupees Fifty Thousand only)** as Bid Security (EMD) in acceptable form as specified in the tender. The EMD should be paid online through NEFT or can be submitted along with the tender by Demand Draft Payable to Cochin Co-operative Hospitals Society Ltd No. E 288.

EMD shall be forfeited if:

- bidder withdraws bid during validity period
- bidder modifies price after submission
- successful bidder fails to sign agreement
- successful bidder fails to furnish Performance Security

Unsuccessful bidders' EMD shall be refunded without interest after award of contract within a period of 15 days. EMD of L2 & L3 bidders shall be released only after 90 days.

1.3.9. Bid Validity

Bids shall remain valid for **180 days** from the date of opening of the tender.

A bid valid for a shorter period may be rejected.

CCHS may request extension of validity, and the bidder may accept or refuse the same.

1.3.10. Price Secrecy

Prices in any form shall **not be disclosed in the Technical Bid**.

If price information is found in the Technical Bid, the bid shall be liable for rejection.

1.3.11. Signing of Bid

The bid shall be signed by a person duly authorized by the bidder.

All pages shall be signed and sealed.

Power of Attorney / authorization shall be submitted.

1.4. SUBMISSION AND OPENING OF BIDS

1.4.1. Sealing and Marking of Bids

The bid shall be submitted in **offline mode only** in the following manner:

Envelope 1 – Technical Bid

Containing:

- Technical Bid documents
- EMD
- Tender fee receipt
- Eligibility documents
- Supporting certificates
- Signed tender document

Marked as:

TECHNICAL BID – Tender for ELV Networking Systems – IGCN

Envelope 2 – Financial Bid

Containing:

- Priced BOQ / Commercial Bid only

Marked as:

FINANCIAL BID – Tender for ELV Networking Systems – IGCN

Both envelopes shall be sealed separately and placed in one outer sealed cover marked:

Tender for Supply, Installation, Testing, Commissioning and Maintenance of ELV Networking Systems – IGCN

Tender No: IGCON/IT/2026-1

The bid shall be addressed to:

The Secretary

Cochin Co-operative Hospitals Society Ltd No. E 288

Kadavanthra, Kochi – 682020

Bids not submitted in the prescribed manner may be rejected.

1.4.2. Deadline for Submission of Bids

Bids shall be submitted at the address specified in the tender on or before the prescribed date and time.

Bids received after the deadline shall not be accepted.

CCHS may extend the submission deadline by corrigendum, if required.

1.4.3. Late Bids

Any bid received after the prescribed date and time shall be:

- rejected
- returned unopened

No responsibility shall be borne by CCHS for postal delay, courier delay, or delivery failure.

1.4.4. Opening of Technical Bid

Technical Bids shall be opened on the date and time notified in the tender, in the presence of bidders who choose to attend.

At the time of opening:

- name of bidders
- confirmation of EMD
- confirmation of tender fee
- basic bid submission compliance

shall be recorded.

Detailed technical evaluation shall be carried out subsequently.

1.4.5. Opening of Financial Bid

Financial Bids of only those bidders who qualify in Technical Evaluation shall be opened.

The date and time of opening of Financial Bid shall be notified separately.

Price bids of technically disqualified bidders shall not be opened.

1.5.EVALUATION AND COMPARISON OF BIDS

1.5.1. Clarification of Bids

To assist in examination and evaluation, CCHS may seek clarification from any bidder.

Such clarification shall be:

- in writing
- within specified time

No bidder shall be permitted to:

- change price
- alter substance of bid
- modify technical offer

Failure to provide clarification may result in rejection.

1.5.2. Preliminary Examination of Bids

CCHS shall examine whether:

- bid is complete
- required documents are submitted
- EMD is furnished
- tender fee is paid
- authorization is proper
- technical bid is free from price disclosure
- bid substantially complies with tender requirements

Non-responsive bids may be rejected.

1.5.3. Technical Evaluation

Technical evaluation shall include examination of:

- eligibility criteria
- work experience
- financial capability
- technical compliance
- OEM authorization
- warranty compliance
- support capability
- conformity with specifications
- deviations, if any

CCHS may verify documents submitted by bidders from issuing authorities.

Any false declaration or misrepresentation may lead to rejection.

1.5.4. Financial Evaluation

Financial Bids of technically qualified bidders shall be evaluated based on:

- total quoted amount
- arithmetic correctness
- BOQ completeness
- correction of calculation errors

In case of discrepancy:

- unit rate shall prevail over total amount
- words shall prevail over figures, subject to arithmetic correction

1.5.5. Price Negotiation

CCHS reserves the right, if considered necessary in the interest of the Employer, to call the **lowest three evaluated bidders (L1, L2 and L3)** for price negotiations before finalization of the contract.

The decision of CCHS in this regard shall be final and binding on all bidders.

1.5.6. Comparison of Bids

CCHS shall compare substantially responsive bids and determine the lowest evaluated bidder after considering:

- technical responsiveness
- commercial evaluation
- corrections, if any
- price negotiations, if conducted

CCHS shall not be bound to accept the lowest quoted bid merely on price.

1.5.7. Rejection of Bids

A bid may be rejected if:

- required documents are missing
- EMD is not submitted
- tender fee is not paid
- bidder is ineligible
- price is disclosed in technical bid
- false information is submitted with regard to references provided or any other matter concerned.
- bid is materially non-responsive
- bidder attempts to influence evaluation
- technical requirements are not met

CCHS reserves the right to reject any or all bids without assigning reasons.

1.6.AWARD OF CONTRACT

1.6.1. Award Criteria

The contract shall be awarded to the bidder whose bid is:

- substantially responsive
- technically qualified
- commercially acceptable
- determined by CCHS to be in the best interest of the Employer

1.6.2. Notification of Award

Prior to expiry of bid validity, CCHS shall notify the successful bidder in writing of the acceptance of the bid.

The notification shall constitute intention to award the contract.

1.6.3. Signing of Contract

The successful bidder shall:

- sign the contract agreement
- submit required documents
- complete contractual formalities

within **14 days** from notification of award.

Failure to do so may lead to cancellation of award and forfeiture of EMD.

1.6.4. Performance Security

The successful bidder shall furnish:

Performance Security equal to 5% of Contract Value

in acceptable form within **14 days** of notification of award.

Failure to furnish Performance Security may lead to:

- cancellation of award
- forfeiture of EMD
- award to another bidder

1.6.5. Retention Amount

Retention amount equal to **2.5% of the** Billed Amount shall be deducted in accordance with the Contract Conditions.

The retention amount shall be released as per the provisions of the Contract after expiry of the retention period.

2. GENERAL CONDITIONS OF CONTRACT (GCC)

Part 1 – Contract Framework, Securities and Contractor Obligations

2.1. Definitions

In this Contract, unless the context otherwise requires:

- **Employer / CCHS** means Cochin Co-operative Hospitals Society Ltd No. E 288.
- **Contractor** means the successful bidder awarded the contract.
- **Site** means the College Building of Indira Gandhi College of Nursing at Thiruvaniyur Panchayath, Ernakulam District.
- **Works** means supply, installation, testing, commissioning, maintenance and related services covered under this Contract.

- **Equipment / Materials** means all hardware, software, accessories, components and systems supplied under the Contract.
- **Completion** means successful execution, testing, certification and acceptance of the works by CCHS.
- **Defect Liability / Warranty Period** means 36 months from the date of commissioning.
- **SLA** means Service Level Agreement specified in this Contract.

2.2.Scope of Contract

The Contractor shall:

- supply
- deliver
- install
- test
- commission
- integrate
- document
- certify
- maintain

the ELV Networking Systems covered under this Contract, strictly in accordance with:

- Tender Conditions
- Technical Specifications
- Approved BOQ
- Drawings (where applicable)
- Instructions issued by CCHS

The Contractor shall provide all materials, labour, tools, equipment, accessories, transportation, testing instruments, certifications and services required for successful completion of the works.

2.3.Contract Documents

The following shall form part of the Contract:

1. Notice Inviting Tender
2. Instructions to Bidders
3. General Conditions of Contract
4. Special Conditions / Technical Conditions
5. Technical Specifications
6. BOQ
7. Contractor's Bid
8. Letter of Acceptance / Purchase Order
9. Agreement
10. Corrigenda / Clarifications issued by CCHS

In case of conflict, interpretation by CCHS shall prevail subject to law.

2.4.Performance Security

The successful Contractor shall furnish:

Performance Security equal to 5% of the Contract Value

within **14 days** of award of contract.

The Performance Security shall remain valid until completion of contractual obligations and may be invoked by CCHS in case of:

- default

- delay
- non-performance
- breach of contract
- damages
- failure to rectify defects

Failure to furnish Performance Security shall lead to cancellation of award and forfeiture of EMD.

2.5.Retention Money

Retention amount equal to:

2.5% of the Billed amount

shall be deducted in accordance with Contract provisions as a safeguard for performance during the maintenance period.

Retention shall be released after expiry of the retention period subject to:

- satisfactory performance
- no pending defects
- no recoveries due

2.6.Time for Completion

The Contractor shall complete the works within:

3 months from date of issue of Purchase Order

subject to the delivery and installation milestones specified in the Contract.

Time shall be the essence of the Contract.

Failure to complete within the stipulated period shall attract penalties as per Contract Conditions.

2.7.Delivery and Installation Schedule

The Contractor shall:

- Deliver materials within **45 days from Purchase Order**
- Complete installation, testing and commissioning within **45 days from delivery**

If site infrastructure is not ready, the Contractor shall complete commissioning within **7 days from site readiness intimation by CCHS.**

2.8.Extension of Time

Extension of time may be granted only by CCHS in writing for reasons beyond the Contractor's control, such as:

- force majeure
- delay attributable to Employer
- site non-readiness
- other justified causes accepted by CCHS

Grant of extension shall not entitle the Contractor to additional financial claims unless specifically approved.

2.9.Contractor's General Obligations

The Contractor shall:

- execute the works professionally and safely
- use qualified personnel
- comply with technical specifications
- protect existing property
- coordinate with site authorities
- maintain site discipline

- ensure proper workmanship
- rectify defects promptly
- provide all documentation and certifications

The Contractor shall be solely responsible for the acts and omissions of his employees, agents and subcontractors.

2.10. Responsibility for Damage, Loss and Restoration of Property

The Contractor shall be fully responsible for any loss, damage, destruction, breakage, deterioration, or injury caused during execution of the works to:

- materials and equipment under the Contract
- the Site and works
- existing buildings
- walls
- floors
- ceilings
- finishes
- electrical systems
- furniture
- fixtures
- utilities
- any Employer property
- third-party property at or adjacent to site

arising out of the acts, omissions, negligence, default, misconduct, improper workmanship, improper handling, or failure of the Contractor, his personnel, subcontractors, or persons engaged by him.

The Contractor shall immediately repair, restore, replace or make good such damage at his own cost to the satisfaction of CCHS.

If the Contractor fails to do so, CCHS may assess and recover the cost from:

- bills
- retention money
- Performance Security
- any money due to the Contractor

without prejudice to other rights of CCHS.

2.11. Protection of Existing Services and Finishes

The Contractor shall take all precautions to protect:

- walls
- ceilings
- floors
- false ceilings
- electrical systems
- plumbing lines
- furniture
- finishes
- existing services

during execution of works.

Any damage caused shall be restored to original condition at Contractor's cost to the satisfaction of CCHS.

2.12. Safety and Site Precautions

The Contractor shall:

- follow safe work practices
- provide PPE to workers
- ensure electrical safety
- secure work areas
- prevent accidents
- comply with applicable labour and safety laws

The Contractor shall be solely responsible for:

- injury
- accident
- death
- property damage

arising during execution of works.

CCHS shall not bear liability for such incidents.

2.13. Labour Law Compliance

The Contractor shall comply with all applicable laws relating to:

- labour
- wages
- ESI
- EPF
- safety
- insurance
- welfare
- taxes

Any liability arising from non-compliance shall be solely borne by the Contractor.

2.14. Insurance

The Contractor shall maintain adequate insurance for:

- materials in transit
- materials at site
- work execution risks
- employee accidents
- third-party liability
- damage risks

until completion and handing over of the works.

Insurance shall not limit Contractor liability under this Contract.

2.15. Inspection and Testing

CCHS shall have the right to inspect:

- materials
- workmanship
- installation
- testing
- commissioning
- certifications

at any stage.

The Contractor shall provide necessary access, support and documents.

CCHS may reject:

- defective materials
- substandard workmanship
- non-conforming systems

and require replacement at Contractor's cost.

2.16. Documentation and Certification

The Contractor shall submit:

- equipment manuals
- warranty certificates
- test reports
- Fluke test certification
- configuration records
- IP addressing details
- login credentials (where permitted)
- as-built documentation
- commissioning certificates

Completion shall not be deemed achieved without required documentation.

2.17. Billing and Stage-wise Payment

Payment to the Contractor shall be released in the following stages, subject to verification and certification by CCHS:

a) First Stage – 30%

30% of the value of the materials shall be released on submission of confirmed purchase orders placed for materials strictly as per BOQ, along with a stage bill and supporting documents, after verification by CCHS.

b) Second Stage – 40%

40% of the value of the materials shall be released on delivery of materials at site within the stipulated period, on submission of supplier invoices, delivery challans, and stage bill citing invoice details, subject to verification and certification by CCHS.

c) Final Stage – 30%

Balance 30% of the value of the material and total amount of installation shall be released only after completion of supply, installation, testing, commissioning, submission of documentation, Fluke Test Certification, and final acceptance by CCHS.

Retention @ 2.5% will be deducted from every payment. At each stage, the Contractor shall submit the relevant bill with supporting documents for verification and certification by CCHS.

2.18. Statutory and Contractual Deductions

At each stage of payment, the following deductions shall be made as applicable:

- Retention Money as per Contract
- GST adjustments / compliance deductions as applicable
- TDS under applicable law
- Labour cess / statutory deductions if applicable
- Recovery of penalties, damages, shortages or contractual dues

2.19. No Automatic Entitlement to Payment

Submission of a bill shall not by itself entitle the Contractor to payment.

Payment shall be released only after:

- verification
- certification
- acceptance by CCHS

CCHS may withhold or adjust payments against pending liabilities.

2.20. Recovery Rights of Employer

CCHS shall have the right to deduct, recover or adjust from any payment due to the Contractor any amount arising from:

- damages
- penalties
- shortages
- defective supply
- liquidated damages
- SLA penalties
- statutory non-compliance
- any contractual liability of the Contractor

Such recovery may be made from:

- bills
- retention money
- Performance Security
- any money due to the Contractor

2.21. Liquidated Damages for Delay

If the Contractor fails to complete the works within the stipulated period, and such delay is attributable to the Contractor:

Liquidated Damages shall be levied at 0.5% of the Contract Value per week of delay

subject to a maximum of:

10% of the Contract Value

Recovery of Liquidated Damages shall not relieve the Contractor of the obligation to complete the work.

CCHS may also terminate the contract for excessive delay.

2.22. Warranty

The Contractor shall provide:

36 months onsite comprehensive warranty

for all equipment, systems and services supplied under this Contract from the date of commissioning.

Warranty shall include:

- repair
- replacement
- rectification
- labour
- transportation
- software support
- configuration support
- accessories required for restoration

at no additional cost to CCHS.

2.23. Preventive Maintenance

During the warranty period, the Contractor shall carry out:

Preventive Maintenance once every six months

for all systems covered under the Contract.

Preventive Maintenance shall include:

- inspection
- cleaning
- testing
- firmware checks
- performance verification
- backup checks
- configuration health check
- preventive rectification

Preventive Maintenance reports shall be submitted to CCHS.

2.24. Complaint Reporting and Response

CCHS may report faults / complaints to the Contractor through:

- phone
- email
- written complaint
- designated support mechanism

The Contractor shall acknowledge and attend complaints within the prescribed SLA time.

2.25. Service Level Agreement (SLA)

The Contractor shall comply with the following minimum service levels:

System	Attend Complaint Restore / Rectify	
Core Network / Firewall / Examination Network	Within 4 hours	Within 24 hours
CCTV / Access Switch / WiFi	Within 24 hours	Within 3 days
Audio Visual / Biometrics / Non-Critical Systems	Within 24 hours	Within 7 days

Where temporary restoration is possible, the Contractor shall immediately restore service and complete permanent rectification thereafter.

2.26. Downtime Penalty

Failure to restore systems within the SLA period shall attract penalty as follows:

a) Core Network / Firewall / Examination Network

₹ 5,000 per day of delay beyond SLA

b) CCTV / Access Switch / WiFi

₹ 2,000 per day of delay beyond SLA

c) Audio Visual / Biometrics / Non-Critical Systems

₹ 1,000 per day of delay beyond SLA

Penalty shall continue until restoration.

CCHS may recover such penalties from payments due.

2.27. Uptime Requirement

The Contractor shall maintain:

Minimum 98% annual uptime

for systems covered under SLA.

Downtime attributable to Contractor shall be counted for SLA calculation.

Failure to maintain uptime may attract penalties and contractual action.

2.28. Spare Parts and Replacement

The Contractor shall maintain adequate stock or arrangement for supply of spare parts required for restoration of systems during the warranty period.

Replacement parts shall be:

- new
- genuine
- OEM approved
- technically compatible

No refurbished or unauthorized parts shall be used without approval of CCHS.

2.29. Replacement of Defective Equipment

If equipment repeatedly fails or is found defective, CCHS may require:

- repair
- OR
- replacement

at Contractor's cost.

Repeated failures may be treated as performance deficiency.

2.30. Failure to Meet SLA

If the Contractor repeatedly fails to comply with SLA obligations, CCHS may:

- levy penalties
- withhold payments
- arrange third-party rectification at Contractor's risk and cost
- recover costs from Contractor
- invoke Performance Security
- terminate the Contract

2.31. Termination for Default

CCHS may terminate the Contract, wholly or partly, by written notice to the Contractor if the Contractor:

- fails to complete the works within stipulated time
- abandons the work
- persistently neglects contractual obligations
- repeatedly fails SLA obligations
- supplies defective or non-conforming materials
- engages in fraudulent or corrupt practices
- submits false documents or information
- becomes insolvent or bankrupt
- assigns or subcontracts the Contract without approval
- commits material breach of Contract

Termination shall be without prejudice to other rights and remedies available to CCHS.

2.32. Consequences of Termination

Upon termination:

- CCHS may take possession of materials, equipment and partially completed works at site.
- CCHS may complete the remaining works through another agency at the risk and cost of the Contractor.
- Additional expenditure incurred by CCHS shall be recoverable from the Contractor.
- Performance Security and retention amounts may be adjusted or forfeited.

- Pending payments may be withheld until assessment of liabilities.

2.33. Termination for Convenience

CCHS reserves the right to terminate the Contract, wholly or partly, at any time in the interest of the Employer by giving written notice to the Contractor.

In such case, payment shall be made for satisfactorily completed work executed up to the date of termination.

The Contractor shall not be entitled to:

- loss of profit
- anticipated profit
- consequential damages
- compensation beyond admissible certified work

2.34. Force Majeure

Neither party shall be liable for failure or delay in performance arising out of events beyond reasonable control, including:

- natural calamities
- flood
- earthquake
- war
- riot
- epidemic
- government restrictions
- acts of God

The affected party shall notify the other party in writing within reasonable time.

The Contractor shall make all reasonable efforts to minimize delay.

The following shall not constitute Force Majeure:

- manpower shortage
- financial difficulty
- supplier delay
- OEM delay
- transportation delay due to Contractor arrangements

CCHS may grant extension of time if justified.

2.35. Indemnity

The Contractor shall indemnify and keep indemnified CCHS, its officers and representatives against:

- losses
- damages
- claims
- liabilities
- penalties
- costs
- legal proceedings
- third-party claims

arising out of:

- execution of works
- negligence
- defective workmanship

- injury or death
- damage to property
- statutory violations
- breach of Contract
- infringement of intellectual property rights

This indemnity shall survive completion or termination of the Contract.

2.36. Confidentiality

The Contractor shall maintain confidentiality regarding:

- network configurations
- IP addressing
- login credentials
- security settings
- firewall policies
- institutional data
- drawings
- technical information

The Contractor shall not disclose such information to any third party without written approval of CCHS.

The Contractor shall ensure similar compliance by employees, subcontractors and support personnel.

2.37. Ownership of Configurations and Documentation

All configurations, documents, drawings, reports, software settings, IP schemes, passwords and records created under the Contract shall become the property of CCHS.

The Contractor shall hand over all such records upon commissioning or termination.

The Contractor shall not retain unauthorized access to any system after completion of works.

2.38. Intellectual Property Rights

The Contractor shall ensure that materials, software and systems supplied under the Contract do not infringe any patent, copyright, trademark or intellectual property rights.

The Contractor shall indemnify CCHS against any such claims.

2.39. Assignment and Subcontracting

The Contractor shall not assign or transfer the Contract without written approval of CCHS.

Subcontracting of specialized portions may be permitted only with prior written approval of CCHS.

Approval of subcontracting shall not relieve the Contractor of contractual responsibilities.

2.40. Notices

Any notice under the Contract shall be in writing and may be delivered by:

- hand delivery
- registered post
- courier
- official email

to the addresses specified in the Contract.

Notice shall be deemed served upon receipt.

2.41. Settlement of Disputes

The parties shall attempt to resolve disputes amicably through mutual discussions.

If unresolved, the dispute shall be referred to arbitration.

2.42. Arbitration

Any dispute arising out of or relating to this Contract shall be referred to:

Tender for ELV & Networking @ College Building of Indira Gandhi College of Nursing

a Sole Arbitrator appointed by CCHS

in accordance with the provisions of the:

Arbitration and Conciliation Act, 1996 and amendments thereto

The venue of arbitration shall be:

Ernakulam, Kerala

The proceedings shall be conducted in English.

2.43. Jurisdiction

Subject to arbitration provisions, courts at:

Ernakulam, Kerala

shall alone have jurisdiction in matters arising out of this Contract.

2.44. Waiver

Failure of CCHS to enforce any provision of the Contract shall not constitute waiver of such provision.

2.45. Severability

If any provision of the Contract is held invalid or unenforceable, the remaining provisions shall remain valid and enforceable.

2.46. Entire Agreement

The Contract documents shall constitute the entire agreement between the parties and supersede prior understandings, representations or communications relating to the subject matter of the Contract.

3. List of Forms

The following forms shall be submitted by the bidder as part of the Technical Bid:

Form No.	Description
Form 1	Letter of Technical Bid
Form 2	Bidder Information Form
Form 3	Work Experience Form
Form 4	Financial Capability Form
Form 5	Manufacturer Authorization Form (MAF)
Form 6	Technical Compliance Statement

Form 7	Undertaking for Warranty & SLA
Form 8	Declaration regarding Non-Blacklisting
Form 9	Declaration regarding Acceptance of Tender Conditions
Form 10	Site Visit Declaration
Form 11	List of Proposed Makes and Models
Form 12	Integrity and Non-Collusion Declaration
Form 13	Power of Attorney / Authorization
Form 14	Performance Security Format
Form 15	Agreement Format

Failure to submit required forms may render the bid non-responsive.

FORM 1 – LETTER OF TECHNICAL BID

(To be submitted on bidder's letterhead)

To

The Secretary

Cochin Co-operative Hospitals Society Ltd No. E 288

Kadavanthra, Kochi – 682020

Sub: Tender for Supply, Installation, Testing, Commissioning, Maintenance and Related Services of ELV Networking Systems for Indira Gandhi College of Nursing.

Sir,

We have examined the Tender Documents, including all amendments and clarifications, and hereby submit our bid for the above work.

We undertake to execute and complete the works in conformity with the Tender Documents and agree to abide by this bid for a period of 180 days from the date of opening of the tender.

We confirm that:

- we have inspected the site conditions;
- we accept all tender conditions;
- prices have not been disclosed in Technical Bid;
- the information furnished by us is true and correct.

If our bid is accepted, we undertake to furnish Performance Security and execute the agreement within the stipulated period.

Date : _____

Place : _____

For and on behalf of:

(Name of Bidder / Firm)

Signature of Authorized Signatory

Name : _____

Designation : _____

Office Seal

FORM 2 – BIDDER INFORMATION FORM

Sl. No.	Particulars	Details
1	Name of Bidder	
2	Registered Address	
3	Address for Communication	

4	Contact Person	
5	Phone Number	
6	Email ID	
7	GST Number	
8	PAN	
9	Year of Establishment	
10	Type of Organization	
11	Details of Service Support Office	

Date : _____

Place : _____

For and on behalf of:

(Name of Bidder / Firm)

Signature of Authorized Signatory

Name : _____

Designation : _____

Office Seal

FORM 3 – WORK EXPERIENCE FORM

Sl. No.	Name of Work	Client	Value	Year	Completion Status

The bidder shall attach:

- Work Orders
- Completion Certificates
- Client references

Use extra sheets if needed.

Date : _____

Place : _____

For and on behalf of:

(Name of Bidder / Firm)

Signature of Authorized Signatory

Name : _____

Designation : _____

Office Seal

FORM 4 – FINANCIAL CAPABILITY FORM

The bidder shall submit:

- Audited Balance Sheets for last 3 years
- Profit & Loss Statements
- Turnover Certificate certified by Chartered Accountant
- Income Tax Returns

Average Annual Turnover: ₹ _____

Date : _____

Place : _____

For and on behalf of:

(Name of Bidder / Firm)

Signature of Authorized Signatory

Name : _____

Designation : _____

Office Seal

FORM 5 – MANUFACTURER AUTHORIZATION FORM (MAF)

(To be issued by OEM on OEM Letterhead)

This is to certify that M/s _____ is our authorized partner / system integrator for quoting, supplying, installing and supporting our products for the subject tender.

We undertake to provide necessary technical support and warranty support for products supplied under this tender.

Issued By:

(Name of OEM)

Authorized Signatory

Name : _____

Designation : _____

Contact No. : _____

Email ID : _____

OEM Seal

Date : _____

Place : _____

FORM 6 – TECHNICAL COMPLIANCE STATEMENT

Sl. No.	Specification Requirement	Compliance (Yes/No)	Remarks

Detailed technical brochures shall be attached.

Date : _____

Place : _____

For and on behalf of:

(Name of Bidder / Firm)

Signature of Authorized Signatory

Name : _____

Designation : _____

Office Seal

FORM 7 – UNDERTAKING FOR WARRANTY & SLA

We hereby warrant that all equipment, systems and services supplied under the Contract are new, genuine, free from manufacturing defects, and conform to the specifications of the Tender.

We further warrant that the supplied systems shall be free from defects arising out of:

- design
- materials
- workmanship
- installation
- configuration
- integration

during normal use and operation.

We undertake to provide:

- 36 months comprehensive onsite warranty
- preventive maintenance as specified in the Contract
- SLA support as specified in the Contract
- repair/replacement of defective items at no additional cost

The warranty shall include:

- labour
- spares
- transportation
- software support
- configuration support
- accessories required for restoration

We further undertake to comply with all Service Level Agreement (SLA) requirements specified in the Contract and rectify complaints within the stipulated SLA period.

If any equipment repeatedly fails or remains non-functional beyond SLA limits, the same shall be replaced at no additional cost to CCHS.

We also undertake to provide comprehensive onsite support for all supplied systems during the warranty period.

Date : _____

Place : _____

For and on behalf of:

(Name of Bidder / Firm)

Signature of Authorized Signatory

Name : _____

Designation : _____

Office Seal

FORM 8 – DECLARATION REGARDING NON-BLACKLISTING

We hereby declare that:

- we are not blacklisted by any Government Department / PSU / statutory authority;
- no criminal proceedings affecting execution capability are pending against us;
- no false information has been submitted by us.

If the above declaration is found false, CCHS shall have the right to reject our bid or terminate the contract.

Date : _____

Place : _____

For and on behalf of:

(Name of Bidder / Firm)

Signature of Authorized Signatory

Name : _____

Designation : _____

Office Seal

FORM 9 – DECLARATION REGARDING ACCEPTANCE OF TENDER CONDITIONS

We hereby confirm that we have carefully read and understood all terms and conditions of the tender and agree to abide by the same without deviation.

Date : _____

Place : _____

For and on behalf of:

(Name of Bidder / Firm)

Signature of Authorized Signatory

Name : _____

Designation : _____

Office Seal

FORM 10 – SITE VISIT DECLARATION

We hereby declare that we have visited / inspected the project site and familiarized ourselves with the site conditions, execution constraints and scope of work before submission of the bid.

Date : _____

Place : _____

For and on behalf of:

(Name of Bidder / Firm)

Signature of Authorized Signatory

Name : _____

Designation : _____

Office Seal

FORM 11 – LIST OF PROPOSED MAKES AND MODELS

Sl. No.	Item	Make	Model

The bidder shall supply only approved makes and models submitted with the bid.

Substitution shall not be permitted without written approval of CCHS.

Date : _____

Place : _____

For and on behalf of:

(Name of Bidder / Firm)

Signature of Authorized Signatory

Name : _____

Designation : _____

Office Seal

FORM 12 – INTEGRITY AND NON-COLLUSION DECLARATION

We hereby declare that:

- our bid has been prepared independently;
- no collusion or cartel arrangement exists;
- no attempt has been made to influence the tender process improperly.

We understand that violation may result in disqualification and forfeiture of EMD.

Date : _____

Place : _____

For and on behalf of:

(Name of Bidder / Firm)

Signature of Authorized Signatory

Name : _____

Designation : _____

Office Seal

FORM 13 – POWER OF ATTORNEY / AUTHORIZATION

(Attach Power of Attorney / Board Resolution authorizing signatory)

FORM 14 – PERFORMANCE SECURITY FORMAT

(To be submitted by successful bidder)

(To be drafted in approved Bank Guarantee format)

FORM 15 – AGREEMENT FORMAT

(To be executed by successful bidder on stamp paper)

This Agreement made on this ____ day of _____ between:

Cochin Co-operative Hospitals Society Ltd No. E 288

AND

M/s _____

for execution of the work:

“Supply, Installation, Testing, Commissioning, Maintenance and Related Services of ELV Networking Systems for Indira Gandhi College of Nursing.”

The parties agree to abide by the terms and conditions of the Contract.

4. EMPLOYER'S REQUIREMENTS / TECHNICAL SPECIFICATIONS

4.1. General Technical Requirements

All materials, equipment, accessories and systems supplied under this Contract shall be:

- new and unused
- genuine OEM products
- free from manufacturing defects
- currently supported by OEM
- compliant with applicable standards

The Contractor shall supply only approved makes and models submitted with the Technical Bid and accepted by CCHS.

Substitution of makes or models shall not be permitted without prior written approval of CCHS.

All equipment shall be supplied with:

- standard accessories
- mounting hardware

- power cords
- licenses
- software
- connectors
- required interfaces

necessary for complete functionality.

All systems shall be installed in a professional manner and integrated for reliable operation.

4.2. Structured Cabling System

The Contractor shall provide complete structured cabling system including:

- Cat6 UTP cables
- information outlets
- patch panels
- patch cords
- cable managers
- raceways
- conduits
- accessories

as specified in the BOQ.

4.2.1. Technical Requirements

- Cabling shall comply with TIA/EIA standards.
- Only branded structured cabling solutions shall be used.
- Cabling shall support Gigabit Ethernet operation.
- Proper labeling shall be provided at both ends.
- Cable routing shall be neat and properly secured.
- Separate routing shall be maintained from power cables.

4.2.2. Testing and Certification

The Contractor shall carry out:

100% Fluke testing and certification

for all network points.

Fluke test reports shall be submitted before final acceptance.

4.2.3. OEM Warranty

The structured cabling system shall carry:

Minimum 25-year OEM warranty

The Contractor shall submit OEM warranty certificate before final payment.

4.3. Fiber Backbone System

The Contractor shall provide complete fiber backbone connectivity including:

- optical fiber cables
- LIU
- splice trays
- pigtails
- patch cords
- accessories

as required for interconnection.

Fiber installation shall be:

- properly terminated
- tested
- labeled
- protected

OTDR test reports shall be submitted.

4.4. Wireless Access System

The Contractor shall provide enterprise-grade wireless access system for student and institutional use.

The system shall support:

- centralized management
- secure authentication
- SSID management
- monitoring
- user control

4.4.1. Examination Hall Wireless Control

Wireless systems serving examination halls or multi-purpose halls shall support:

- scheduled SSID disablement
- centralized enable/disable control
- restriction of wireless access during examination periods

The Contractor shall demonstrate this functionality during commissioning.

4.4.2. WiFi Testing

The Contractor shall conduct:

- signal coverage verification
- connectivity testing
- roaming verification
- throughput testing

and submit reports before acceptance.

4.5. CCTV Surveillance System

The Contractor shall provide complete IP-based CCTV surveillance system including:

- cameras
- NVR
- storage
- accessories
- mounting hardware
- cabling
- software

as specified in the BOQ.

4.5.1. Mandatory Compliance

CCTV cameras and NVR shall comply with:

STC or BIS ER (Bureau of Indian Standard - Essential Requirement) Certificate on CCTV to be made available. The Contractor shall submit documentary proof of compliance.

4.5.2. OEM Consistency

Cameras and NVR supplied under the Contract shall be from:

the same OEM

to ensure compatibility, integration and support.

4.5.3. CCTV Functional Requirements

The system shall support:

- continuous recording
- playback
- remote viewing
- event search
- user authentication
- storage management

Recording quality and retention shall comply with tender requirements.

4.5.4. CCTV Testing

The Contractor shall demonstrate:

- camera functionality
- recording
- playback
- storage operation
- network connectivity

before acceptance.

4.6.Examination Network Requirements

The examination hall / multi-purpose hall network shall support secure operation during examination periods.

The Contractor shall ensure:

- reliable network connectivity
- controlled wireless access
- stable operation under examination load conditions
- proper segregation of examination-related network traffic where applicable

The Contractor shall demonstrate examination-mode operational readiness during testing and commissioning.

4.7.Audio Visual Systems

The Contractor shall supply and install Audio Visual systems as specified in the BOQ including:

- displays
- projectors
- interactive panels
- amplifiers
- speakers
- accessories

The systems shall be tested for:

- display quality
- audio clarity
- connectivity
- functionality

before acceptance.

4.8.Biometrics System

The Contractor shall provide biometric devices complete with:

- software

- accessories
- connectivity
- power supply

The system shall support:

- user authentication
- attendance logging
- reporting
- integration capability

as required.

4.9. Network Racks and Power Systems

The Contractor shall provide racks, cable management systems and power accessories complete in all respects.

The installation shall include:

- proper grounding
- cable dressing
- ventilation
- labeling
- power distribution

The Contractor shall ensure neat and professional rack installation.

4.10. Testing and Acceptance

The Contractor shall carry out complete testing and commissioning of all systems.

The following minimum tests shall be conducted:

- Fluke testing of network points
- Fiber testing
- CCTV recording validation
- WiFi coverage testing
- Examination hall wireless disable demonstration
- Functional testing of all systems
- Integration testing

All test reports shall be submitted to CCHS.

Final acceptance shall be subject to successful completion of testing.

4.11. Documentation Requirements

The Contractor shall submit:

- equipment manuals
- warranty certificates
- test reports
- Fluke reports
- as-built drawings
- rack layouts
- cable layouts
- configuration details
- IP addressing details
- user manuals
- maintenance manuals

before final acceptance.

4.12. Approved Makes

The bidder shall quote only approved makes specified in the tender or equivalent approved by CCHS. Equivalent products shall:

- meet or exceed technical specifications
- have equivalent support capability
- have established market presence
- be acceptable to CCHS

Decision of CCHS regarding equivalence shall be final.

4.13. General Installation Standards

All installation works shall be carried out:

- professionally
- neatly
- safely
- using standard industry practices

The Contractor shall coordinate with site conditions and avoid damage to existing structures and services.

All debris and waste generated during execution shall be removed by the Contractor.

ANNEXURE- 1 Form of Bank Guarantee for Security Deposit

GUARANTEE BOND PRESCRIBED BY THE GOVERNMENT OF KERALA

(To be used by Nationalised Banks)

In consideration of the The Cochin Co-operative Hospitals Society Ltd No. E 288., (hereinafter called the CCHS) having agreed to exempt (. name and address) [hereinafter called "the said Contractor (s)"] from the demand, under the terms and conditions of an agreement dated made between and
.....

for (hereinafter called "the said Agreement") of security deposit for the due fulfillment by the said Contractor (s) of the terms and conditions contained in the said Agreement, on production of a bank guarantee for `

[Rupees(in words)

.....
only].

We Bank Limited (hereinafter referred to as "the Bank" do hereby undertake to pay the CCHS, an amount not exceeding ` (Rs. In words) against any loss or damage caused to or suffered or would

be caused to or suffered by the CCHS, by reason of any breach by the said Contractor (s) of any of the terms or conditions contained in the said agreement.

- 1 WeBank Limited do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the CCHS stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the CCHS by reason of any breach by the said Contractor of any of the terms or conditions contained in the said Agreement or by reason of the Contractor's failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding ` (Rs. In words).....
- 2 We..... Bank Limited further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the CCHS under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged of till (Office / Department) certified that the terms and conditions for the said Agreement have been fully and properly carried out by the said Contractor (s) and accordingly discharges the guarantee. Unless a demand or claim under this guarantee is made on us within two years from the period fixed or extended (if the agreement / supply order specifically provide for such extension of time) for the due performance of the contract by the Contractor we shall be discharged from all liability under this guarantee thereafter.
- We.....Bank, Limited further agree with the CCHS that the CCHS shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said Contractor (s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the CCHS against the said Contractor (s) and to forbear or enforce any of the terms and conditions relating the said Agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said Contractor (s) or for any forbearance act or omission on the part of the CCHS or any indulgence by the CCHS to the said Contractor (s) or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

- To give effect to this guarantee it shall be competent for the CCHS to act as though the Bank, were the principal debtor.
- It is hereby expressly agreed and declared that this guarantee and the powers and provisions herein contained are in addition to and not by way of limitation of or substitution for any former or other guarantees or guarantee here to for given by the Bank to the CCHS and now existing uncanceled and that this guarantee is not intended to and shall not revoke or limit such other guarantee or guarantees.
- We Bank Limited lastly undertake not to revoke this guarantee during its currency except with the previous consent of CCHS in writing.

Dateday of on
 Two thousandfor
 Bank Limited.

ANNEXURE- 2 – TO BE TAKEN ON STAMP PAPER OF Rs. 500 /-

**Contract Form
FORM OF AGREEMENT**

(For contracts for supply of specific quantities)

AGREEMENT executed on day of
.....

BETWEEN..... (hereinafter called
'the contractor') is represented by Sri . and College
Building of Indira Gandhi College of Nursing for The Cochin Co-operative Hospitals
Society Ltd No. E 288 (*hereinafter called 'CCHS'*). is represented by

WHEREAS the CCHS has invited tenders, vide its advertisement
in..... from reputed manufacturers of Extra Low Voltage System
for supply of Extra Low Voltage System and WHEREAS the contractor has submitted
its tender as per tender notification which forms part of this agreement and is
attached ANNEXURE-I

AND WHEREAS the CCHS has accepted the tender of the contractor and had issued
a supply order No. dated , which shall also form part of this agreement and is
attached as ANNEXURE-II, the conditions of which have been agreed to be complied
by the contractor.

AND WHEREAS the contractor has as security for the due fulfillment of his obligations
under this deed deposited

..... being per cent of the estimated value of the
contract as per draft on Bank duly approved by the
Government/ in the form of a letter of guarantee for such amount from Bank
approved by the Government.

NOW THESE PRESENTS WITNESS AS FOLLOWS:

1.

In cases where along with the tender samples have been forwarded to the CCHS
and the samples approved, the Contractor agrees to supply the materials
according to the approved sample. In other cases the Contractor agrees to
forward samples to CCHS for approval if so required and then to supply
materials according to such approved samples. When the samples are not
required, the Contractor agrees to supply according to standard specifications.
Samples forwarded by the Contractor to the CCHS will not be paid for and shall
be the property of CCHS but the CCHS are at liberty to return them to the
Contractor on the completion of his contract or to pay for them at agreed rates if
they so choose. All samples must be clearly labeled showing to what particular
items tendered for they relate and they should be of sufficient size and quantity
to enable the CCHS to see if the supplies made are according to the approved
samples. The Contractor hereby declare that the goods sold to the CCHS under

this contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications and particulars contained in the copy of the order attached herewith and the contractor hereby guarantees that the said goods would continue to conform to the description and quality aforesaid for a period of **3 years for Extra Low Voltage System (including Data, Power cables & metal, plastic, fibre parts & batteries)** from the date of delivery of the said goods to the CCHS and that notwithstanding the fact the CCHS may have inspected and/or approved the said goods, if during the aforesaid period of **3 years for Extra Low Voltage System (including Data, Power cables & metal, plastic, fibre parts)** the said goods be discovered not to conform to the description and quality aforesaid or have deteriorated (and the decision of the CCHS in that behalf will be final and conclusive) the CCHS will be entitled to reject the said goods or such portion thereof as may be discovered not to conform to the said description and quality. On such rejection, the goods will be at the contractor's risk and all the provisions herein contained relating to rejection of goods, etc., shall apply. The contractor shall if so called upon to do, replace the goods, etc., or such portion thereof as is rejected by the CCHS. Otherwise the Contractor shall pay to the CCHS such damages as may arise by reason of the breach of the condition herein contained. Nothing herein contained shall prejudice any other right of the CCHS in that behalf under this contract or otherwise.

2. Requests for enhancement of rates once accepted will not be considered except where CCHS have, prior to the actual supply, expressly agreed in writing for any price variation under specified circumstances. Conditions of sale or other special terms and conditions, if any, printed on the quotation sheets of the Contractor or attached with the Contractor's tender or any other letter or paper from the Contractor will not govern this contract nor bind the CCHS in any manner whatsoever unless such terms have been expressly accepted by the CCHS in writing.
3. The articles and quantities to be supplied are shown in the copy of the supply order no. dated, attached herewith. The contractor agrees to supply the quantities of the articles shown in the order at the rate tendered by him for each article within the time fixed.
4. It is agreed that time is the essence of this contract.
5. If the contractor defaults in the supply of all or any of the articles correctly and promptly as above, the CCHS, are at liberty to procure the same from elsewhere without cancelling the contract as a whole. If CCHS incur, in thus procuring such materials a higher cost than the agreed rate such excess cost can be deducted by the CCHS from the Contractor's bill or adjusted or otherwise realised from his security deposit or recovered from him by other means. The contractor agrees that he shall not be entitled to claim the excess, if any, of the tendered rate over such cost of CCHS.
6. The contractor shall not assign or make over partly or wholly the contract or the

benefits or burdens thereof. The Contractor shall not underlet or sublet the execution of the contract or any part thereof without the consent in writing of the CCHS. The CCHS shall have absolute power to refuse such consent or rescind such consent (if given) at any time. The Contractor shall not be relieved from his obligation, duty or responsibility under this contract even if consent to let or sublet is given by CCHS.

7. NOTWITHSTANDING the provisions contained in clause, the CCHS shall have the right to cancel the contract for any default on the part of the Contractor in due performance thereof.
8. It shall be lawful for the CCHS from and out of any money for the time being payable or due to the Contractor from the CCHS under this contract or otherwise to set off any loss or expense, cost or damages, sustained or incurred by the CCHS by reason of the cancellation of the contract.
9. The security deposit shall subject to the conditions specified herein be returned to the contractor within three months after the expiration of the contract. In all cases where there are guarantee for the goods supplied the security deposit will be released only after the expiry of the guarantee period.
10. The contractor agrees that any communication addressed to him may be handed over to him or his agent personally or left at his place of business or may be sent by prepaid post to his address as mentioned in this deed.
11. In case the supply of articles involves erection of machinery the contractor agrees that the machinery will be erected within the time and at the place specified by the CCHS/Purchasing Officer in that behalf. It shall also be the duty and responsibility of the contractor to see that the machinery thus erected is in good working condition to the satisfaction of the person duly authorised by the CCHS in that behalf and to ensure the proper functioning of the machinery till the guarantee period is over.
12. The contractor is bound to supply the system in the manner aforementioned within **90 days** from the date of receipt of the order and install within **90 days from the delivery date failing which the contractor is bound to pay penalty at the rate of 0.5%** of the order amount for every week of delay in supplying and installing the system in the manner aforementioned. In case of such delay in the supply and installation as aforementioned the CCHS need pay only the balance after deducting the penalty mentioned above.
13. CCHS shall pay after the installation of the system in a fully working condition to the satisfaction of CCHS, the amount as per the bill of the contractor drawn in terms of the contract. "The contractor agrees that all sums found due to the CCHS under or by virtue of these presents shall be recoverable from him and his properties, movable and immovable, under the provisions of the Revenue Recovery Act, for the time being in force as though they are arrears of land revenue or in any other manner and within such time as the CCHS may deem fit. The Contractor agrees that in deciding what sum of money is due from the Contractor under or by virtue of this agreement, the decision of the CCHS shall be final and conclusive and shall be binding on the contractor".

14. The Contractor agrees that any sum of money due and payable to him from CCHS shall be adjusted against any sum of money due to CCHS from him under any other contracts.

15. The Contractor agrees that in case of any damage or loss or destruction or any incident which happens on negligence or misconduct or improper workmanship and improper handling and lack of protection, that happens to site or adjacent to site, the contractor shall be solely responsible for the risks and shall immediately take remedial action for such loss, damage, destruction breakage, deterioration, or injury and at his own cost. CCHS, would assess the situation and the cost involved and if the contractor fails to take risk and cover the cost for the loss, the cost shall be deducted from the payment and has the right to take legal remedial measures through the court of law.

Having agreed to all the terms and conditions aforementioned the parties hereto hereby set their hands to this agreement on this day of 2026 in the presence of following witnesses.

SIGNED AND DELIVERED BY:

For Contractor

For CCHS

Signature:

Signature:

Name:

Name:

Designation:

Designation:

Seal:

Seal:

Witnesses

1.

Name:

Address:

Signature:

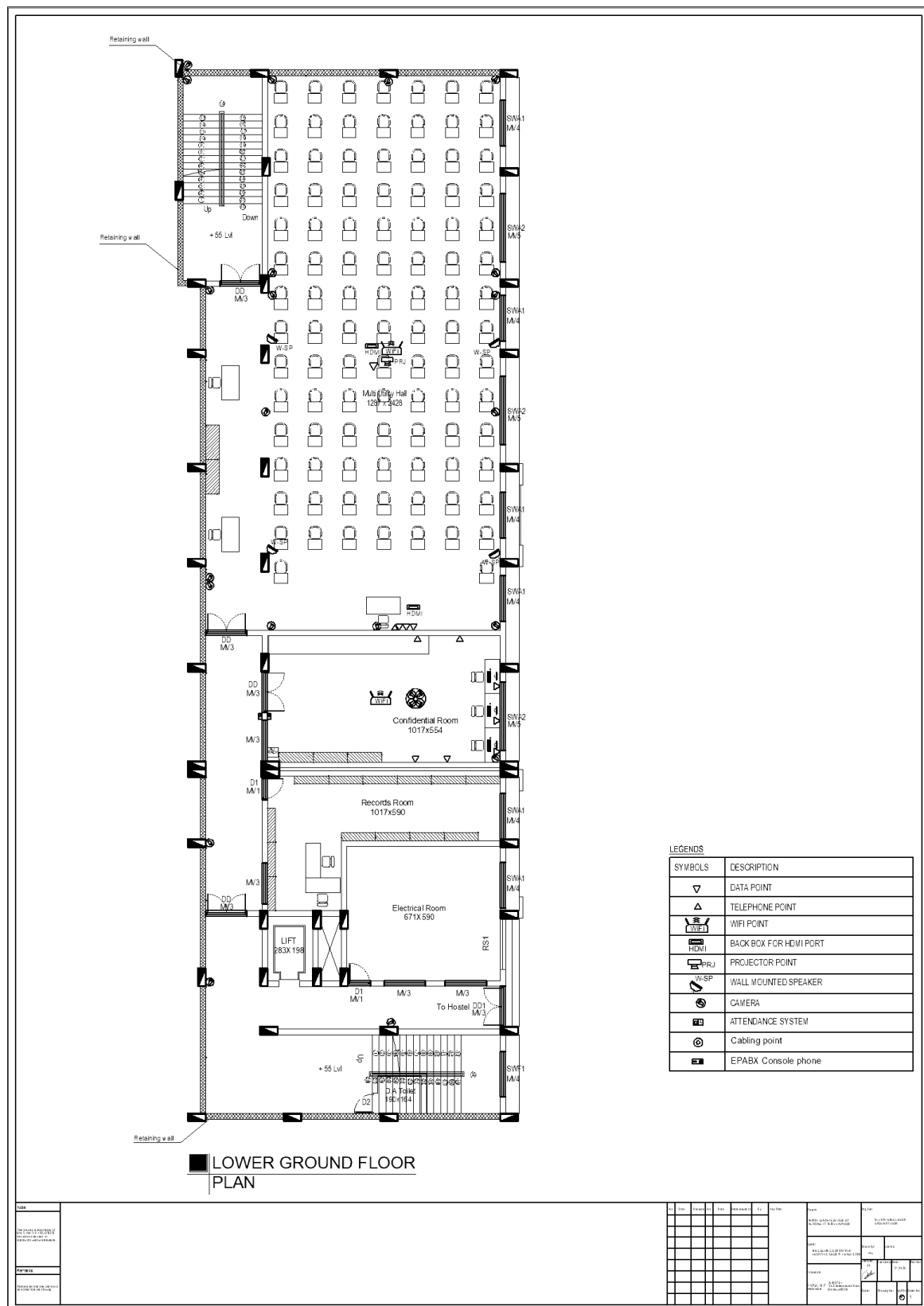
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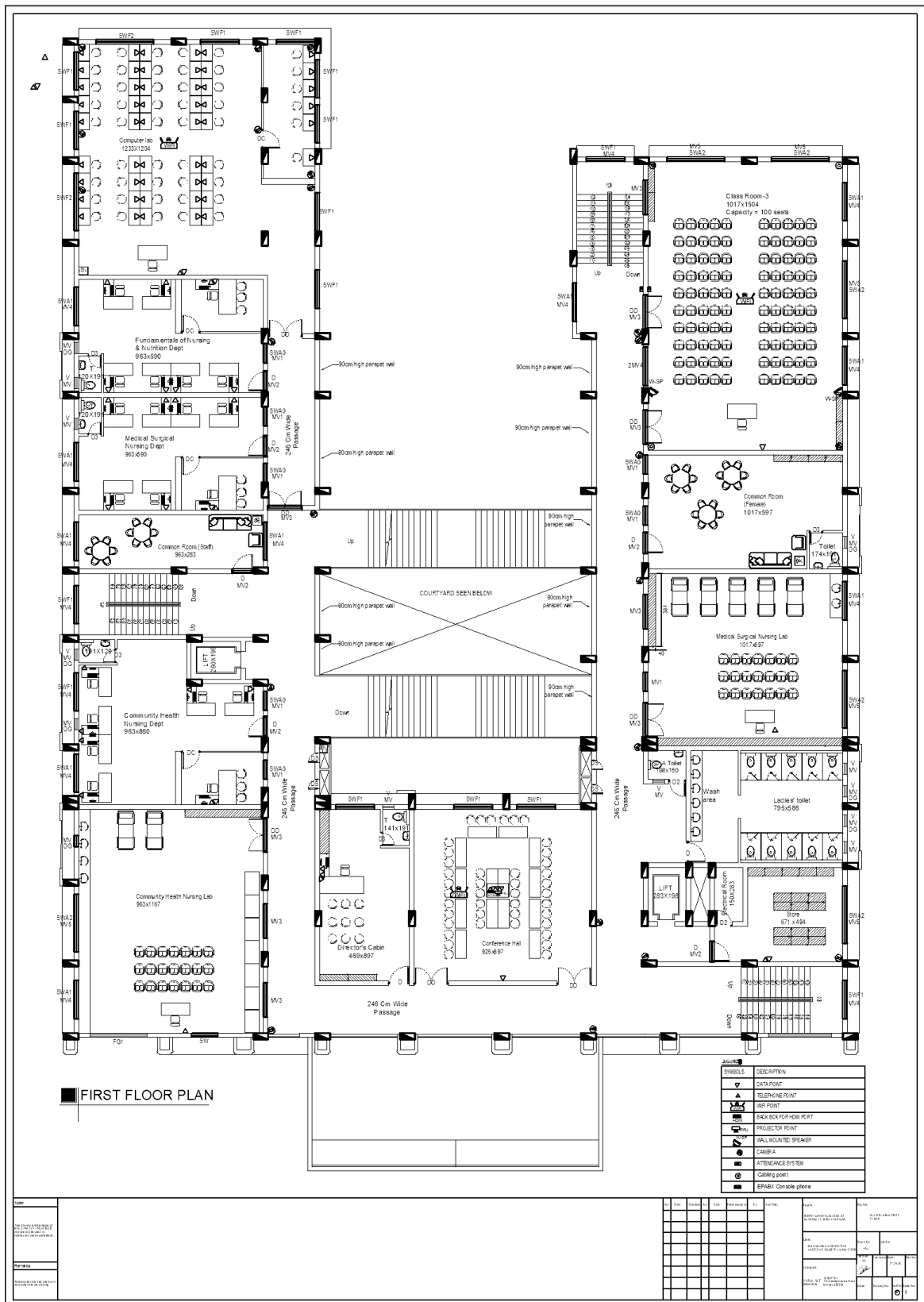
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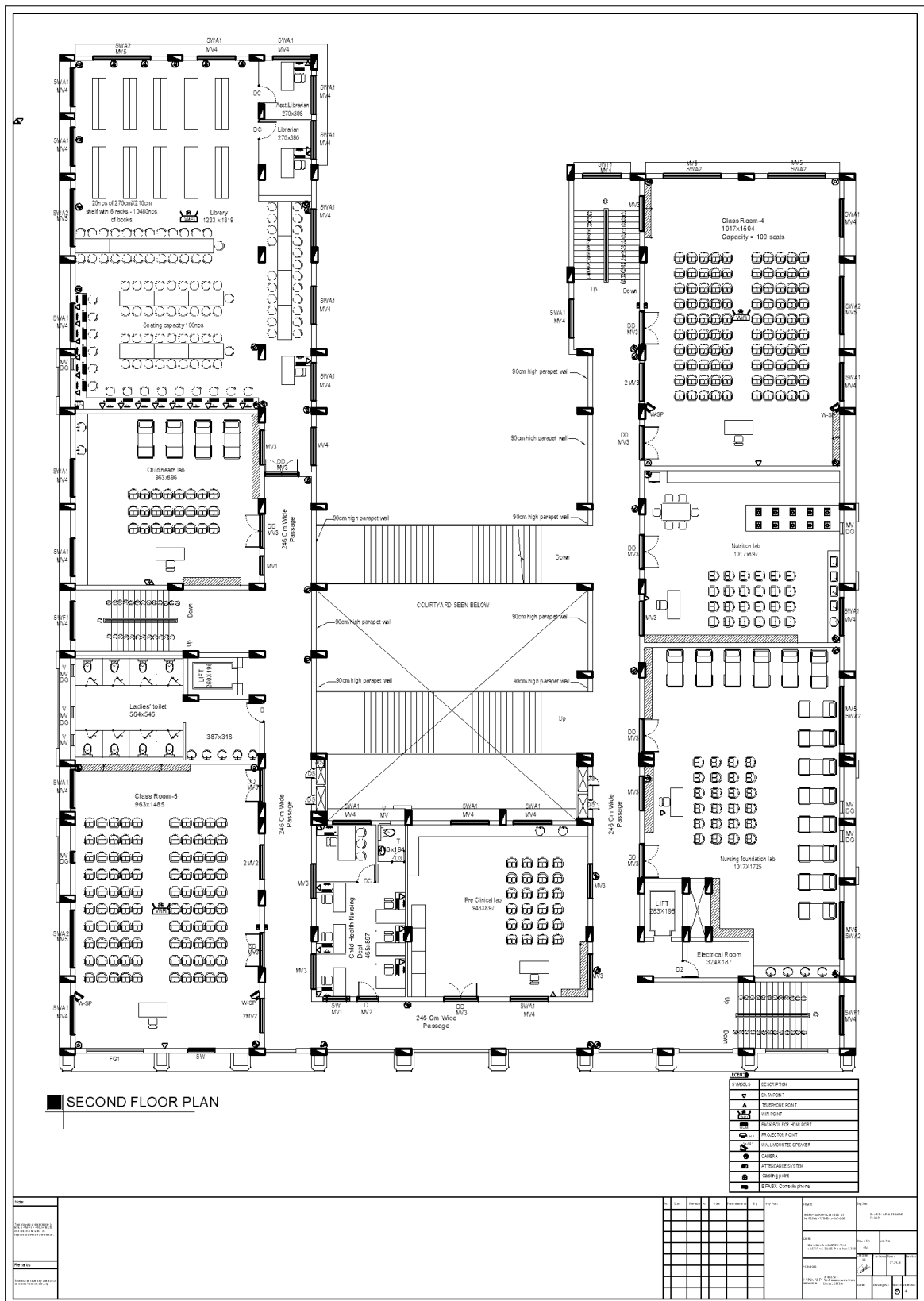
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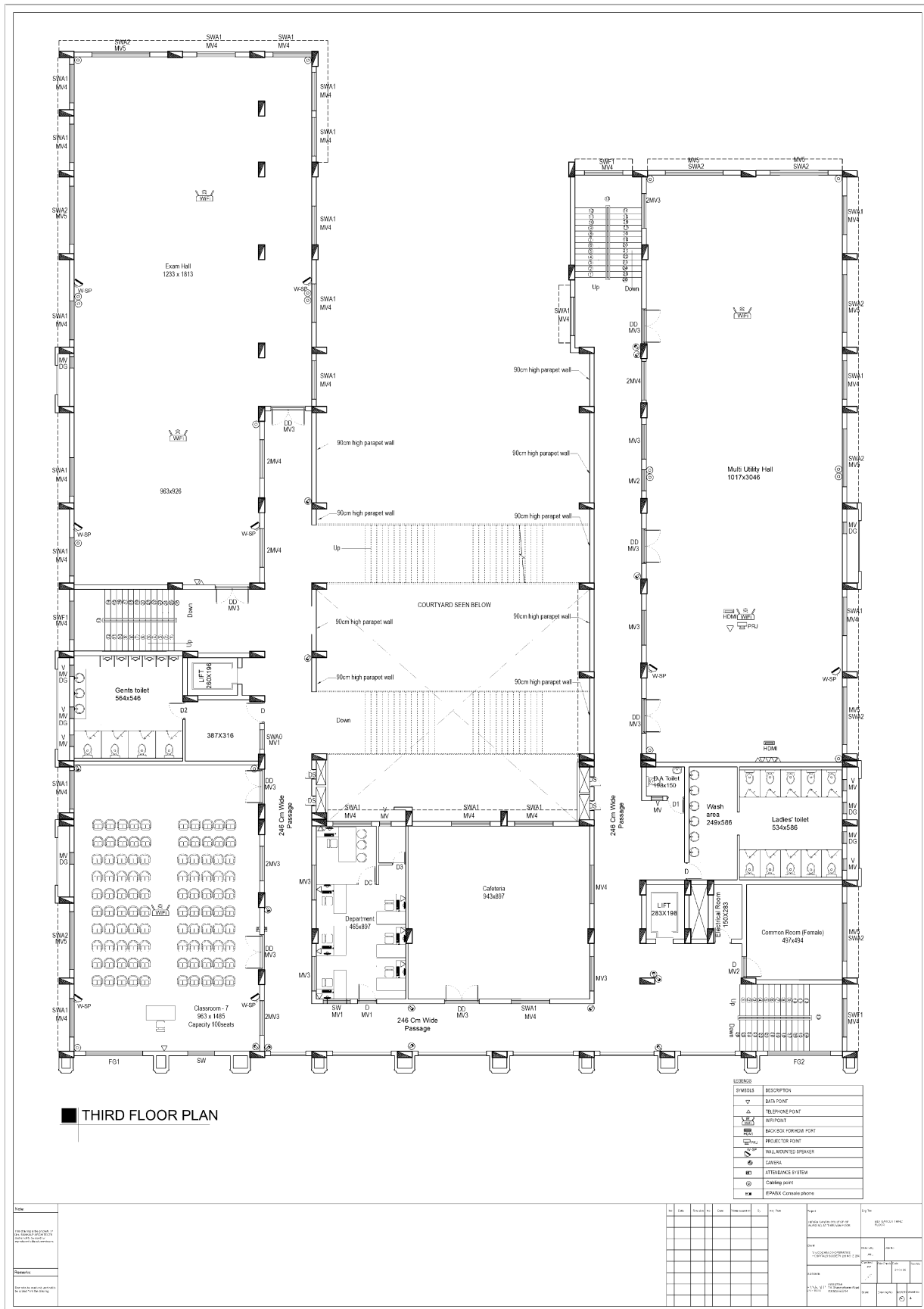
Signature:

5. Drawings









6. Bill Of Quantities

SUPPLY, INSTALLATION, MAINTENANCE AND RELATED SERVICES OF EXTRA LOW VOLTAGE [ELV] NETWORK CABLING & SURVEILLANCE AT Indira Gandhi College Of Nursing , Thiruvaniyur Panchayath, Ernakulam District								
Date:		Tender No:						
Bill of Quantities								
S.I.N O	DESCRIPTION	UNI T	QTY	SUPPLY		INSTALLATIO N		TOTA L
				RAT E	TOTA L	RATE	TOTAL	
ACCESS CONTROL								
1	Supply, Store, Installation, Testing and Commissioning of Cat.6, U/UTP, AWG23, LSZH cable as per ISO/IEC 60332-3-22 Vertical Flame spread test. 100 Ohm impedance. Data transmission frequencies of up to 250 MHz. The cable and cordage shall be UTP components that do not include internal or external shields, screened components or drain wires. Should comply with the following standards: ANSI/TIA 568C.2, ISO/IEC 60754-2Acidity, ISO/IEC 61034-2 Smoke Density. Cable should have Third party ETL verified test certificate for long distance and short distance	MTR	450					

2	Supply, Installation, Testing and commissioning of Biometric device with Face, pin and card, Face Capacity : 2000, Fingerprint Capacity : 3000, ID card Capacity : 3000, Transaction Capacity : 100000 with communication TCP/IP, USB-Host, Wi-Fi(Optional) Push Data , Work Code, SMS, DST, Scheduled-bell, Self-Service Query, Automatic Status Switch Photo ID, T9 Input, Camera, 9 digit user ID, Built-in Battery, Multiple Verify Mode, External Bell, Lock, Door Sensor, Exit Button, Alarm, with Display Screen, Built-in 2000mAh backup battery to extend operation time,	Nos	13					
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3	Supply, installation, testing and commissioning of Cat 6 information out with Punch Down type, UTP (Unshielded Twisted Pair), Category 6, ANSI/TIA-568-C.2 , ISO/IEC-11801 Class E, IEC 60603-7-4, CENELEC EN 50173-1., Supports PoE, Inbuilt Shutter, Supports RJ11/RJ45 Connector plugs, Lead Free and RoHS 2 Compliant, UL Listed. Compatible with 22~26 AWG Stranded and Solid Cable Wires, Material plastic: PC, UL 94 V-0, Plug mating cycle : > 750 minimum, Compatible with T568A and T568B wiring schemes, Contact Plating: 50U gold plated over Nickel contact pins, Insulation Resistance: 500M Ω min @500Vdc, DC Resistance: 0.1 Ω maximum , Current Rating: 1.5A max., Contact Resistance: 10m Ω maximum per contact. Operating Temperature:- 10° C to +60° C, Storage Temperature -40° C to +70° C, Humidity: 10% ~ 90% RH, White, Blue, Green, Red, Yellow, Orange, Black colours.	Nos	28					
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4	Supply, installation, testing and commissioning of RJ45 Modular Plug, Category 6 (Cat 6) UTP, Compliant with ANSI/TIA/EIA-568-C.2 or ISO/IEC 11801, 8 Positions, 8 Contacts (8P8C), Supports both T568A and T568B wiring standards, Suitable for 10BASE-T, 100BASE-TX Fast Ethernet, 1000BASE-T (Gigabit Ethernet), and 10GBASE-T (short distances), Supports up to 250 MHz., Must be suitable for termination on 23 AWG to 24 AWG solid or stranded cables., Must support Power over Ethernet (PoE, PoE+, 4PPoE)., 50 micro-inch (50u) gold plating on contacts for corrosion resistance and reliable conductivity., must include Strain Relief Boots/Caps to prevent cable damage, RoHS compliant, 100% factory tested and verified.	Nos	28					
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5	Supply, installation and testing of Single Leaf Electromagnetic Lock, with holding force of 280 KG / 600 LBS, DC 12V (Dual voltage 12V/24V DC is preferable for tender), 400mA - 500mA at 12V DC (at 20° C), with operating temperature of -10° C to +55° C, Anodized Aluminium Housing, Zinc Plated Magnet and Armature Plate, Built-in Voltage Spike Suppressor (MOV),Magnetic bond sensor monitor output (NO/NC/COM) to monitor door lock/unlock status, Bi-colour LED for lock/unlock status indication (Red/Green), with ZL and U bracket as per requirement.	Nos	2					
6	Supply, installation and testing Slave Fingerprint & Card Reader, Optical Sensor (500 DPI), Fingerprint and RFID Card, RS485 (Connects to master device), Works with Compatible devices Series controllers, 125kHz EM RFID card (Standard); Optional: Mifare/HID, Authentication Speed: <0.3s (Fingerprint),Operating Temperature: 0° C - 45° C, 12V DC (Powered by master terminal), Red/Green LED and Beep Sound, Wall Mount/Mullion Mount.	Nos	2					

	including exit switch at ELV Room and Confidential Room							
TOTAL FOR ACCESS CONTROL								
ACCESS POINT								
1	Supply and installation of WiFi 6 Access point with minimum 4x4 MIMO, Minimum Theoretical Throughput 3.6Gbps, Wall/ceiling mount kit should be included from the day 1, Dynamic VLAN Support, Wi-Fi Protected Access (WPA, WPA2, WPA3), 802.11i	Nos	16					
2	Supply, Store, Installation, Testing and Commissioning of Cat.6, U/UTP, AWG23, LSZH cable as per ISO/IEC 60332-3-22 Vertical Flame spread test. 100 Ohm impedance. Data transmission frequencies of up to 250 MHz. The cable and cordage shall be UTP components that do not include internal or external shields, screened components or drain wires. Should comply with the following standards: ANSI/TIA 568C.2, ISO/IEC 60754-2Acidity, ISO/IEC 61034-2 Smoke Density. Cable should have Third party ETL verified test certificate for long distance and short distance	Mtr	758					

3	Supply, installation, testing and commissioning of Cat 6 information out with Punch Down type, UTP (Unshielded Twisted Pair), Category 6, ANSI/TIA-568-C.2 , ISO/IEC-11801 Class E, IEC 60603-7-4, CENELEC EN 50173-1., Supports PoE, Inbuilt Shutter, Supports RJ11/RJ45 Connector plugs, Lead Free and RoHS 2 Compliant, UL Listed. Compatible with 22~26 AWG Stranded and Solid Cable Wires, Material plastic: PC, UL 94 V-0, Plug mating cycle : > 750 minimum, Compatible with T568A and T568B wiring schemes, Contact Plating: 50U gold plated over Nickel contact pins, Insulation Resistance: 500M Ω min @500Vdc, DC Resistance: 0.1 Ω maximum , Current Rating: 1.5A max., Contact Resistance: 10m Ω maximum per contact. Operating Temperature:- 10° C to +60° C, Storage Temperature -40° C to +70° C, Humidity: 10% ~ 90% RH, White, Blue, Green, Red, Yellow, Orange, Black colours.	Nos	32					
4	Supply, storage, installation, testing, and commissioning of 2/3 module back box with	Nos	16					

	complete accessories for data and voice outlets.							
5	Supply, installation and commissioning of Single face plate, Sleek and elegant design, Flush mount face plate with Screw cover, Inbuilt Shutter, Compatible for Cat6, Cat6A Keystone Jack (UTP/STP), Plastic: PC/ABS material, Including label window, Size: 86 x 86 mm (Single ,Dual, Quad), Operating Temperature/Installation Temperature: -10°C ~ +60°C.,Humidity: 10% ~ 90% RH, White colour (Single, Dual, Quad).	Nos	16					
TOTAL FOR ACCESS POINT								
DATA								
1	Supply, Store, Installation, Testing and Commissioning of Cat-6 U/UTP patch panels Powder coated steel in 24 port configuration, should support port identification numbers on the panel, IDC: Suitable for 22-26 AWG stranded and solid wire compatible with both 110 & Krone punch down tools, Cat-6 transmission performance should be in compliance with the ANSI/TIA/EIA 568C.2 standards, 50 µinches gold on plug contact area, Phosphor bronze with nickel plated IDC Contact,	Nos	18					

	RJ45 Contact Bracket PC, UL 94V-2, IDC Housing - PC+ Glass Fiber, UL 94V-2							
2	Supply, Store, Installation, Testing and Commissioning of CAT 6 U/UTP RJ45 1mtr Patch Cords shall be equipped with 8-pin modular plugs on each end. . Should comply to TIA/EIA-568-C.2 Standard, 24AWG stranded bare copper conductor, HDPE Insulation, Phosphor bronze Contact with Nickel Plated, 50 µinches gold on plug contact area, Length and colour shall be available based on the site requirement	Nos	450					
3	Supply, Store, Installation, Testing and Commissioning of CAT 6 U/UTP RJ45 2mtr Patch Cords shall be equipped with 8-pin modular plugs on each end. . Should comply to TIA/EIA-568-C.2 Standard, 24AWG stranded bare copper conductor, HDPE Insulation, Phosphor bronze Contact with Nickel Plated, 50 µinches gold on plug contact area Length and colour shall be available based on the site requirement	Nos	185					

4	Supply, Store, Installation, Testing and Commissioning of Category 6 UTP Single Keystone, shall meet Universal labels colour coded for T568A/568B, suitable for 23-26 AWG stranded and solid wire, ETL verified unshielded EIA/TIA connecting hardware, Category 6, TIA568 C.2, Contact Bracket - PC, UL 94V-2, Use insulation displacement connectors (IDC), IDC Housing - PC+ Glass Fiber, UL 94V-2, 50 µinches gold on plug contact area, Phosphor bronze with Nickel plated IDC Contact	Nos	550					
5	Supply, installation and commissioning of Single face plate, Sleek and elegant design, Flush mount face plate with Screw cover, Inbuilt Shutter, Compatible for Cat6, Cat6A Keystone Jack (UTP/STP), Plastic: PC/ABS material, Including label window, Size: 86 x 86 mm (Single ,Dual, Quad), Operating Temperature/Installation Temperature: -10°C ~ +60°C., Humidity: 10% ~ 90% RH, White colour (Single, Dual, Quad).	Nos	172					
6	Supply, storage, installation, testing, and commissioning of 2/3 module back box with	Nos	172					

	complete accessories for data and voice outlets.							
7	Supply, Store, Installation, Testing and Commissioning of Cat.6, U/UTP, AWG23, LSZH cable as per ISO/IEC 60332-3-22 Vertical Flame spread test. 100 Ohm impedance. Data transmission frequencies of up to 250 MHz. The cable and cordage shall be UTP components that do not include internal or external shields, screened components or drain wires. Should comply with the following standards: ANSI/TIA 568C.2, ISO/IEC 60754-2Acidity, ISO/IEC 61034-2 Smoke Density. Cable should have Third party ETL verified test certificate for long distance and short distance	Mtr	5140					
TOTAL FOR DATA								

SURVEILLANCE								
1	Supply, Installation, Configuring and Commissioning of 32 Ch NVR with 4 Sata drive. - 32 IP Camera Inputs.; Compression: H.265+/H.265/H.264 support.; Incoming Bandwidth: Minimum 256 Mbps. ; Recording Resolution: Up to 8MP/4K support. ; Storage: Minimum 4 SATA HDD. ; HDD Capacity: Support up to 10TB/16TB per HDD. RAID Support: RAID 0/1/5 (if available). ; Network Interface: 2 x Gigabit RJ45 ports.; Video Output: HDMI (4K) + VGA.; USB Ports: Minimum 2.; ONVIF compliant.; Remote access via Web & Mobile App. ; Operating Temperature: - 10° C to +55° C.; Certifications: CE, FCC, BIS, RoHS.; Warranty: Minimum 3 Years onsite.	Nos	5					
2	Supply, installation, testing, Configuring and commissioning of 2MP Dome Camera - Image Sensor: 1/2.8" Progressive Scan CMOS.; Resolution: 2MP (1920x1080).; Compression: H.265+/H.265/H.264.; Lens: 2.8mm/3.6mm fixed lens; IR Range: Minimum 30 meters.; WDR: 120 dB True WDR.; IP Rating: IP67.; Features: Motion detection, ROI, 3D DNR,	Nos	114					

	BLC. Power: 12V DC / PoE.; ONVIF compliant.; Operating Temperature: - 30° C to +60° C.; Warranty: Minimum 3 Years.							
3	Supply, installation, testing, Configuring and commissioning of 2MP Bullet Camera - Image Sensor: 1/2.8" Progressive Scan CMOS.; Resolution: 2MP (1920x1080).; Compression: H.265+/H.265/H.264.; Lens: 2.8mm/3.6mm fixed lens.;• IR Range: Minimum 40 meters.; WDR: 120 dB True WDR.; IP Rating: IP67.; Features: Motion detection, ROI, 3D DNR.; Power: 12V DC / PoE.; ONVIF compliant.; Operating Temperature: - 30° C to +60° C.; Warranty: Minimum 3 Years.	Nos	31					
4	Supply, installation, testing, Configuring and commissioning of 4/5MP Vandal Proof Camera - Image Sensor: 1/2.7" Progressive Scan CMOS.; Resolution: 5MP (2592x1944 or higher).; Compression: H.265+/H.265/H.264.; Lens: 2.8mm fixed lens.; IR Range: Minimum 30 meters.; WDR: 120 dB True WDR.; IK Rating: IK10 (Vandal Proof).;• IP Rating: IP67.; Features: Motion detection, intrusion	Nos	21					

	detection, line crossing.; 4 dome cameras in confidential room to be in pole stand covering the space from single point. Power: 12V DC / PoE.; ONVIF compliant.; Operating Temperature: - 30° C to +60° C.; Warranty: Minimum 3 Years.							
5	Supply, installation, testing, Configuring and commissioning of 4/5MP Bullet Camera - Image Sensor: 1/2.7" Progressive Scan CMOS. ; Resolution: 5MP (2592x1944 or higher) ; Compression: H.265+/H.265/H.264.; Lens: 2.8mm/3.6mm fixed lens. ; IR Range: Minimum 50 meters ; WDR: 120 dB True WDR.; IP Rating: IP67 ; Features: Motion detection, intrusion detection, line crossing.; Power: 12V DC / PoE.; ONVIF compliant ; Operating Temperature: - 30° C to +60° C. ; Warranty: Minimum 3 Years.	Nos	2					
6	Supply, storage, installation, testing, and commissioning of 4*4 module back box with complete accessories for surveillance, Minimum IP66/IP67 (Waterproof and Dustproof).	Nos	180					

7	Supply, Store, Installation, Testing and Commissioning of Cat.6, U/UTP, AWG23, LSZH cable as per ISO/IEC 60332-3-22 Vertical Flame spread test. 100 Ohm impedance. Data transmission frequencies of up to 250 MHz. The cable and cordage shall be UTP components that do not include internal or external shields, screened components or drain wires. Should comply with the following standards: ANSI/TIA 568C.2, ISO/IEC 60754-2Acidity, ISO/IEC 61034-2 Smoke Density. Cable should have Third party ETL verified test certificate for long distance and short distance	Mtr	7650					
8	Supply, installation, testing and commission of RJ45 Modular Plug, Category 6 (Cat 6) UTP, Compliant with ANSI/TIA/EIA-568-C.2 or ISO/IEC 11801, 8 Positions, 8 Contacts (8P8C), Supports both T568A and T568B wiring standards, Suitable for 10BASE-T, 100BASE-TX Fast Ethernet, 1000BASE-T (Gigabit Ethernet), and 10GBASE-T (short distances), Supports up to 250 MHz., Must be suitable for termination on 23 AWG to 24 AWG solid	Nos	180					

	or stranded cables., Must support Power over Ethernet (PoE, PoE+, 4PPoE)., 50 micro-inch (50u) gold plating on contacts for corrosion resistance and reliable conductivity., must include Strain Relief Boots/Caps to prevent cable damage, RoHS compliant, 100% factory tested and verified.							
TOTAL FOR SURVEILLANCE								
FIBER CONNECTIVITY								
1	Supply, laying, and commissioning of Indoor/Outdoor Armoured 6 Core OM3 Gel -Free Dry Unitube OFC , having ECCS Armouring Thickness > 0.125mm and Glass Yarn Peripheral Strength Member, UV Protected LSZH Outer Sheath , Anti Rodent, Anti Termite , Water Swellable Yarn to prevent water ingress , Min Tensile Strength : 1600N , Min Crush Resistance : 3000N/10 cm , Operating Temperature -20° C ± 70° C , Attenuation @	Mtr	530					

	1310 nm : ≤ 0.36 dB/km , @ 1550 nm : ≤ 0.23 dB/km, Cable shall meet IEC-60332-1 , IEC60793-2- 50 Standard and RoHS Compliant							
2	Supply, installation, testing and commissioning of 1U 6 Port Sliding type OM3 LIU Loaded with Ganged OM3 LC Adapters , G.657A2 Bend Insensitive Coloured Pigtails for easy core identification , Splice Trays, cable manager and should have sufficient blanking plug to cover unused slots, LIU shall be made of Powder Coated Cold Rolled Steel , Weight > 4.0 kg Dimensions: 45mm H x 485mm W x 255mm D , LIU Should have provision to support upto 96 LC Ports . RoHS Compliant	Nos	9					

3	Supply, installation, testing and commissioning of 1U 24 Port Sliding type OM3 LIU Loaded with Ganged OM3 LC Adapters , G.657A2 Bend Insensitive Coloured Pigtailed for easy core identification , Splice Trays, cable manager and should have sufficient blanking plug to cover unused slots, LIU shall be made of Powder Coated Cold Rolled Steel , Weight > 4.0 kg Dimensions: 45mm H x 485mm W x 255mm D , LIU Should have provision to support upto 96 LC Ports . RoHS Compliant	Nos	2					
4	Supply and installation of Multi Mode,Duplex fiber adaptor, LC- LC, Multimode (MMF) - OM4 (Aqua/Violet) or OM3 (Aqua), 50/125 µm (Laser Optimized Multimode Fiber - LOMMF), 0.3dB (Typical), High Performance, Duplex (2-fiber count), LSZH (Low Smoke Zero Halogen) or OFNR (Riser), -20° C to +70° C, TIA-604 (FOCIS), IEC 60793-2-10, RoHS Compliant	Nos	30					
TOTAL FOR FIBER CONNECTIVITY								
NETWORK RACK								

1	Supply, installation and commissioning of 42U rack, 19-inch standard (approx. 2000mm height), ~800mm (W) x ~1200mm (D) or ~600mm x 1000mm for standard, featuring high density, Heavy-duty welded steel frame, black powder-coated, 750 kg (static), with 1400 kg for high-density options, Perforated front and rear doors (or toughened glass front) with security key locks, front/rear, 60% perforation, 4-fan roof tray with thermostat, 7kW+ cooling capacity, Vertical and horizontal managers, top/bottom cable entry, Dual PDUs (16-32A, 230V) with 12-24 sockets, -4 fixed trays, 1U 17" KVM/monitor, caster wheels, levelers, and earthling kit, ISO/IEC 60529 (IP20), DIN 41494, with one year warranty.	Nos	1					
2	Supply, installation and commissioning of 9U Wall Mount Rack, 19-inch Wall Mount Networking/Server Rack (Single Section/Double Section), ANSI/EIA RS-310-D, IEC297-2, DIN41491, SPCC Quality Cold Rolled Steel, Thickness 1.2mm - 1.5mm, Toughened Glass Door with lock and key (option for vented/mesh door), Minimum 1x Fan (4-inch) or 2x Fan slots (pre-	Nos	7					

	installed 90 CFM fan),Adjustable 19" mounting rails (square holes),1U Horizontal Cable Manager, 6-Socket PDU (5A or 15A). ISO 9001:2015, RoHS							
TOTAL FOR NETWORK RACK								
CABLING FOR PA SYSTEM & TELEPHONE								
1	Supply and installation of 2 pair speaker cable, High-grade Electrolytic Oxygen-Free Copper (OFC), Purity: 99.97% or higher, 2-Core (2-conductor) twin twisted, or parallel/figure-8 style, 16 AWG (approx. 1.5 sq. mm), Multi-strand for flexibility, High-grade PVC (Polyvinyl Chloride) compound (Flame Retardant).	Mtr	850					
2	Supply, installation and testing of MS 50 Pair Junction Box with lock and key. High Quality Mild Steel with weather resistant powder coating having hinged door Key Lock and having top and bottom knock outs for telephone cable entry exit.	Nos	1					
3	Supply Installation and testing of 50 Pair Krone disconnection module with termination cable.	Nos	1					

4	Supply, Laying and commissioning of 50 Pair 0.5mm PVC Indoor Telephone Cable in conduit to end points from Krone Box with EPABX having 5 line 32 intercom connections extendable upto 62 intercom connections with all accessories including RJ11 Key Stone Jack	Mtr	122 5					
TOTAL FOR PA SYSTEM								
DATA CENTER								
1	Supply and Installation of Raised flooring with steel cementitious tile having pedestal height upto 300mm, Cement-filled or Calcium Sulphate core for high load-bearing capacity, stability, and fire resistance, 300 mm x 300 mm panels with anti-static high-pressure laminate (HPL) or conductive vinyl, ideally 1.5–2.0 mm thick, Minimum 1,000–1,500 kg/m ² uniformly distributed load (UDL). Concentrated load capacity should meet at least 450 kg, Non-combustible, anti-static, and designed for seismic resistance (if required). , Compliance with CISCA, EN12825, or TIA-942. with Tile puller	Sq ft	80					

2	Supply and implement fire retardant interior coating (20 LTR) Fire Rating: 60 to 120 minutes (depending on application thickness and substrate, must be tested according to BS EN 13501-1 (Euro class B-s1, d0 or similar) or ASTM E84 (Class A), Low smoke generation and non-toxic formulation, Water-based acrylic/intumescent copolymer, Finish: Matte (Matt) or Satin, Low VOC / California VOC Compliant	Nos	1					
3	Supply and fixing of 2 hour fire rated single leaf steel door of size 1000x2100mm, Door Thickness: 46 mm to 55 mm, Galvanized Steel (GI) / Mild Steel (MS), 1.2 mm (18 Gauge) or 1.25 mm, Frame Material/Thickness: 1.6 mm galvanized steel with a single rebate profile (typically 143x58 mm or 100x57 mm), Powder Coated in standard RAL colours (e.g., Red, Grey, White)	Nos	1					
CABLE TRAY AND OTHERS								
1	Supply and installation of minimum 1.2mm thickness GI ceiling raceways with 1mm thickness cover including all necessary supports to complete the installation.							
a	100X50 mm wide	Mtr	35					
b	200X50 mm wide	Mtr	235					

OTHERS				
1	Fluke Test with Certification from Authorised Service Centres; should test for Copper Cable Certification on propagation delay, Delay Skew, DC Loop Resistance, Insertion Loss, Return Loss, Near End Crosstalk, Speed FOR Cat6/Cat6A Cable, OTDR Testing for Wavelength, Accuracy and Compliance and troubleshoot Ethernet/IP			
2	Documentation Charges			
TOTAL FORCABLE TRAY AND OTHERS			Rs	
GRAND TOTAL AMOUNT IN FIGURES			Rs	
GRAND TOTAL AMOUNT IN WORDS: - Rupees.				
Signature of the Contractor :				
Name and Address of the Contractor with Seal:				