

Date : 07/02/2024

Quotation invited for Establishment of **'Cyber Security and Digital Forensic Lab'** inside CNLU Campus

Tender No : 53/2024-25



**Chanakya National Law
University**

Nyaya Nagar, Mithapur, Patna -1,
Ph. No. – 0612-2352300,
Website : <https://cnlu.ac.in>

Contents

No.	Topic	Page No
01	Invitation of Bids	03
02	Scope	03
03	Disclaimer	06
04	Definitions	12
05	About CNLU	14
06	About Cyber Security and Forensic Lab	14
07	Objective	15
08	Eligibility Criteria	15
09	Pre-Bid Meeting	16
10	Earnest Money Deposit (EMD)	17
11	Manner of submission of the Quotations	17
12	Evaluation Criteria	18
13	Bid Rejection Criteria	19
14	Opening of Quotation	20

Contents

No.	Topic	Page No
15	Award of Work	20
16	Performance Security & Agreement	20
17	Goods Inspection and Acceptance Protocol	21
18	Acceptance Certificates	22
19	Payment Terms	22
20	Termination of Contract	23
21	Force Majeure Conditions	23
22	Go-Live Procedure for Cyber Security and Digital Forensic Lab	25
23	Post-Implementation Support & Warranty for Cyber Security and Digital Forensic Lab	26
25	Annexure-I: Declaration	27-28
26	Annexure-II: Technical Specifications	29-58

1. Invitation of Bids

1. Chanakya National Law University invites E-Tender in two bid systems (Technical and Financial) from the reputed system integrator for establishment of Cyber Security and Digital Forensic Lab. This tender document is being published on the web Portal "<https://eproc2.bihar.gov.in/>".
2. The Bidders are advised to study the tender document carefully. Submission of bids shall be deemed to have been done after careful study and examination of the tender document with a full understanding of its implications.

2. Scope

- The scope of work includes the civil, electrical, and IT-related tasks for establishing the Cyber Security and Digital Forensic Lab as per Details mentioned in Annexure-II.
- Important details

No.	Name of the Work	Establishment of Cyber Security and Digital Forensic Lab
1	Cost of Document (Non-Refundable)	Rs. 10,000/- (Rupees Ten Thousand) to be paid through online mode i.e., Internet payment gateway (Credit/Debit Card), Net Banking, NEFT/ RTGS as per https://eproc2.bihar.gov.in

2	Earnest Money Deposit	2,00,000/- (Rupees Two Lakhs) to be paid through online mode i.e., Internet payment gateway (Credit/Debit Card), Net Banking, NEFT/ RTGS as per https://eproc2.bihar.gov.in
3	Time of Completion	Sixty (60) days from the date of purchase order. If the work is not completed within the stipulated completion period liquidated damages @ 0.5% of agreement value per week of delay will be levied (subject to maximum of 10%). If the liquidated damages reach the level of 10% the agreement value the contract is liable to be rescinded.
4	E-Tender Processing Fee	To be paid through online mode i.e., Internet payment gateway (Credit/Debit Card), Net Banking, NEFT/ RTGS and as per https://eproc2.bihar.gov.in
5	Bid start Date	07/02/2025
6	Last Date & Time for Uploading of Quotation	till 02:30 pm on 27/02/2025
7	Pre-Bid Meeting	at 01:30 pm on 14/02/2025
8	Date & Time of Opening of Technical Quotation	at 03:00 pm on 27/02/2025
9	Date & Time of Opening of Financial Quotation	Will be intimated later
10	Place of Opening of Quotation	Registrar's Chamber

11	Periods of Financial Quotation Validity	120 days
12	Officer inviting Quotation	The Registrar, CNLU, Patna.
13	For participation in E-tendering proc. The SI shall have to get themselves registered to get User ID, Password & Digital Signature. This will enable accessing the website https://eproc2.bihar.gov.in & download / Participate in E-Tender	
14	The tender document can be obtained through our website https://eproc2.bihar.gov.in and https://www.cnlu.ac.in	
15	The department does not take any responsibility for the delay / Non availability of Internet connection, Network Traffic / Holidays or any other reasons.	
16	For support related to the e-tendering process, bidders may contact "e-procurement HELP DESK, Mjunction Services limited RJ Complex, 2 nd Floor, Canara Bank Campus, Khajpura, Ashiana Road, P.S. –Shastri Nagar, Patna-800014, Bihar, Contact No. 18005726571.	

3. Disclaimer

I. Purpose

- a. This tender document is issued by Chanakya National Law University (CNLU), Patna, for the purpose of inviting quotations for the Establishment of a Cyber Security and Digital Forensic Lab. The document contains necessary details to guide interested bidders in preparing and submitting their proposals. However, the issuance of this document does not constitute an offer or legal obligation on the part of CNLU.

II. No Offer or Obligation

- a. This document is intended solely for soliciting quotations and does not constitute an offer, agreement, or commitment to award any contract. Participation in this tender is entirely voluntary, and CNLU reserves the absolute right to reject any or all bids without assigning any reason.
- b. CNLU accepts no liability of any nature, whether resulting from negligence or otherwise, arising from any reliance by a bidder on the statements contained in this tender

III. Right to Modify, Amend, or Cancel

- a. CNLU reserves the right to modify, alter, amend, or cancel any part of this tender three days before the last date of online submission of tender documents without prior notice.
 - Any such amendments or notifications will be made available on:
 - <https://cnlu.ac.in>
 - <https://eproc2.bihar.gov.in>
 - Prospective bidders are advised to regularly check for updates.

IV. No Liability for Costs

- a. Bidders shall bear all costs associated with the preparation and submission of their bids. Under no circumstances shall CNLU be liable for any expenses incurred by bidders.

- b. The Bidder shall bear all costs related to the preparation, copying, postage, delivery fees, expenses for any demonstrations or presentations required by CNLU, or any other costs incurred in connection with or relating to its Proposal. All such costs and expenses shall remain the responsibility of the Bidder, regardless of the conduct or outcome of the Selection Process.

V. No Guarantee of Award

- a. Submission of a bid does not guarantee selection or award of the contract. The issuing authority reserves the right to reject any or all bids without assigning any reason.

VI. Confidentiality

- a. Bidders shall treat all information provided in this tender document as confidential and shall not disclose it to any third party without prior written approval.

VII. Compliance Responsibility

- a. Bidders must ensure compliance with all applicable laws, regulations, and standards related to cyber security and digital forensic operations while submitting their proposals.

VIII. Intellectual Property

- a. Any proprietary information or technology used in the proposed solutions must comply with licensing requirements, and the issuing authority shall not be liable for any infringement claims.

IX. Settlement of Disputes

- a. In the event of any dispute, controversy, or claim arising in relation to or in connection with the Purchase Order (P.O.) or Agreement, it shall be subject to the exclusive jurisdiction of the courts in Patna.
- b. The decision of the Vice-Chancellor, CNLU, will be final and binding on both parties: the bidder and the University.

X. Clarification regarding contents of the quotations

- a. During evaluation and comparison of quotations, the Buyer may, at its discretion, ask the quotationer for clarification of his quotation. The request for clarification will be given in writing, and no change in prices or substance of the quotation will be sought, offered, or permitted. No post-quotation clarification on the initiative of the quotationer will be entertained.
- b. The University will be at liberty to involve any expert or team of experts in evaluating the quotation for completing the entire tender process.

XI. SI's Obligations

The SI is bound by the following obligations

a. Collaboration with Purchaser

- i. The SI is required to maintain close cooperation with the Purchaser's staff. This entails working within their designated authority and adhering to directives issued by the Purchaser concerning implementation activities.

b. Compliance with Safety Measures

- i. The SI is expected to adhere to the prevailing job safety standards in India. Moreover, the SI shall absolve the Purchaser of any claims or liabilities resulting from accidents or loss of life caused by the SI's negligence. The SI is responsible for the payment of all indemnities arising from such incidents and shall not hold the Purchaser liable or accountable

c. Responsibility

- i. The entire scope of work falls exclusively under the domain of the SI. This includes the complete establishment of the LAB.
- ii. The SI/firm shall bear full responsibility for all risks related to the loss or damage of physical property, as well as any personal injury or death that may occur during or as a result of performing the contract, except for those risks that are explicitly expected.
- iii. The SI shall provide all tools and equipment necessary for the execution of the work at their own cost. Any loss or damage to these items shall be the SI's responsibility.

- iv. The SI, under this contract, commits to using first-class materials and assumes full responsibility for the quality of all materials incorporated or intended for incorporation into the work. The work shall be carried out in accordance with the best engineering practices and under the direction of the competent authority of CNLU.
- v. All excavated materials, including debris, loose earth, etc., shall be removed and disposed of as directed by the competent authority of CNLU.
- vi. The technical officers and staff deployed by the SI/firm at CNLU or any construction site shall be held accountable for any inferior quality or poor performance of work. Their names will be circulated to all relevant departments to prevent them from being assigned to any other sites.
- vii. The bidder must comply with all applicable labor laws and regulations.
- viii. The bidder shall comply with any restrictions on the movement of labor and materials imposed by any authority related to the site due to security or other reasons associated with the event. No claims will be entertained in this regard.

d. Confidentiality

- i. The SI is obligated to treat all data and information concerning the Purchaser, obtained in the course of executing their responsibilities, with the utmost confidentiality. The SI shall not disclose such information to any third party without prior written consent from the Purchaser.

XII. Quality Approval and Payment Based on Actual Measurement

- The quality and brand of items mentioned in **Group C for Civil Work (Non-Schedule)** will be subject to approval by the competent higher authority of CNLU. Therefore, bidders are required to obtain approval from the competent higher authority of CNLU before submitting the tender document.
- **Mandatory Technical Specification for Civil Work**

→	Cement	Approved Brand (ACC, Lafarge and UltraTech)
→	Coarse Sand	Sone River -2.5 fm.

→	Bricks	First Quality
→	Cement	Approved Brand ACC, Ultratech, Lafarge etc
→	UPVC	Window Chaukhat frame and Shutter as per approved brand.
→	Wood	Sal Wood approved by CNLU Authority.

- The quantity of items mentioned in Annexure-II may vary based on the requirements. Therefore, payment for items will be made according to the **actual quantity and measurement**

XII. Limitation of Liability

- a. The CNLU, its employees, consultant, technical team, and advisers make no representation or warranty and shall have no liability to any person, including any Applicant, for any loss, damage, cost, or expense arising from anything contained in this Tender or otherwise.
- b. CNLU will not be liable or responsible for non-submission of the bids because of any technical glitches or any issue in connectivity services used by the Bidder.

XIV. Statutory Compliances

- a. The SI shall comply with all applicable laws, regulations, and statutory requirements related to the project.
- b. CNLU shall not be liable for any non-compliance on the part of the service provider. Any legal or financial consequences arising from such non-compliance shall be solely borne by the service provider.
- c. The SI must maintain all requisite records, registers, account books, and other documentation as mandated by applicable laws concerning the services rendered or work performed for CNLU.

- If any active component is declared EOL during the warranty period, the SI must replace it with a similar or higher specification at their own cost. The OEM confirmation letter regarding warranty commitments shall be mandatory.
- By participating in this tender process, the bidder acknowledges and agrees to the terms outlined in this disclaimer.

4. Definitions

In this document, the following terms shall have following respective meanings:

Agreement

1. **"Agreement"** means the Agreement to be signed between the successful bidder and CNLU including all attachments, appendices, all documents incorporated by reference thereto together with any subsequent modifications, the bid offer, the acceptance and all related correspondences, clarifications, presentations.
2. **"Authorized Representative"** shall mean any person authorized by either of the parties
3. **"CNLU"** means **"Chanakya National Law University"**, a public University of Government of Bihar.
4. **"Bidder"** means any firm participating in this tender. The word Bidder when used in the pre award period shall be synonymous with Bidder or operator or service provider, and when used after award of the Contract shall mean the successful Bidder or operator or service provider with whom CNLU signs the agreement for rendering of services for Establishment of Cyber Security and Forensic Lab at Campus of CNLU, Patna, Bihar.
5. **"Contract"** is used synonymously with Agreement.
6. **"Corrupt Practice"** means the offering, giving, receiving or soliciting of anything of value or influence the action of an official in the process of Contract execution.
7. **"Default Notice"** shall mean the written notice of Default of the Agreement issued by one Party to the other in terms hereof.
8. **"FMS"** means Technology Facility Management Services to be provided by the bidder at specified locations as per the Tender requirements.
9. **"Fraudulent Practice"** means a misrepresentation of facts in order to influence a procurement process or the execution of a Contract and includes collusive practice among Bidders (prior to or after Bid submission) designed to establish Bid prices at artificial non-competitive levels and to deprive the CNLU of the benefits of free and open competition.

10. **"Good Industry Practice"** shall mean the exercise of that degree of skill, diligence and prudence which would reasonably and ordinarily be expected from a reasonably skilled and experienced Bidder engaged in the same type of undertaking under the same or similar circumstances.
11. **"GoB"** shall stand for the Government of Bihar.
12. **"Law"** shall mean any Act, notification, bye law, rules and regulations, directive, ordinance, order or instruction having the force of law enacted or issued by the Central Government and/ or the Government of Bihar or any other Government or regulatory authority or political subdivision of government agency.
13. **"LOI"** means issuing a Letter of Intent, which shall constitute the intention of the Tenderer to place the Purchase Order with the successful bidder.
14. **"SI"** means System Integrator
15. **"Party"** means CNLU or Bidder, individually and **"Parties"** mean CNLU and Bidder, collectively.
16. **"Period of Agreement"** means Three years from the date of final acceptance of the Cyber Security and Forensic Lab at Campus of CNLU, Patna, Bihar.
17. **"Proposal"** means the Technical Proposal and the Financial Proposal.
18. **"Requirements"** shall mean and include schedules, details, description, statement of technical data, performance characteristics, standards (Indian as well as International) as applicable and specified in the Tender Document.
19. **"Site"** shall mean the location(s) for which the Contract has been issued and where the service shall be provided as per agreement.
20. **"SLA"** means Service Level Agreement entered between CNLU and the bidder for provision of services.
21. **"Service"** means provision of Contracted service viz., maintenance and associated services.
22. **"Termination Notice"** means the written notice of termination of the Agreement issued by one Party to the other in terms hereof

5. About CNLU

- Chanakya National Law University (CNLU) is a premier law institution located in Patna, Bihar, India. Established in 2006, the university is named after the ancient Indian scholar and strategist, Chanakya, who is known for his profound contributions to statecraft and governance
- CNLU aims to provide a world-class legal education and foster the development of skilled legal professionals who can contribute to society, the legal system, and the nation. The university offers a variety of undergraduate, postgraduate, and doctoral programs in law, including the popular five-year integrated B.A. LL.B. (Hons.) program, L.L.M., and Ph.D. degrees.
- The university is committed to nurturing intellectual growth and critical thinking among its students, with a focus on practical knowledge and hands-on experience. CNLU's state-of-the-art infrastructure includes modern classrooms, libraries, research facilities, and a cyber security and digital forensics lab, among other amenities. It also regularly hosts workshops, seminars, and conferences with legal experts, scholars, and professionals to facilitate learning beyond the classroom.
- CNLU has earned a reputation for academic excellence, with a strong faculty, a rigorous curriculum, and a commitment to producing socially responsible legal professionals. The university emphasizes holistic development, integrating extracurricular activities and legal practice to create well-rounded legal experts capable of addressing contemporary legal challenges.

6. About Cyber Security and Forensic Lab

- The **Cyber Security and Digital Forensic Lab** at Chanakya National Law University (CNLU) is a state-of-the-art facility dedicated to fostering advanced research, training, and practice in the fields of cyber security and digital forensics. Established with the aim of addressing the growing challenges posed by cyber threats and crimes, the lab serves as a center of excellence for students, professionals, and law enforcement agencies.

7. Objective

The objective of the Cyber Security and Digital Forensic Lab is to

- a. Enhance cyber security awareness and implement advanced security measures.
- b. Conduct digital forensic investigations to preserve and analyze evidence
- c. Provide training and certifications in cyber security and digital forensics
- d. Foster research and innovation in cyber security solutions.
- e. Collaborate with industry and law enforcement on cybercrime investigations.
- f. Support legal and regulatory compliance in cybercrime cases.
- g. Simulate cyber-attacks to assess and improve security systems.
- h. Contribute to creating a secure digital environment with best practices and standards.

8. Eligibility Criteria

Documents mentioned below is eligible to participate in this tender:

1. Scan of the self declared document (Name of the bidder, Address with contact number, FAX, E-mail of the Firm and Firm`s Bank Account Details with Bank Name & Address and IFSC / RTGS codes).
2. Affidavit related to litigation history as per Annexure-I on Rs. One Hundred Non Judicial Stamp Paper

3. Scan of original document of only one work orders / agreements of Rs. 40,00,000.00 (Rupees Forty Lakhs) or more, for Supply, Installation & Commissioning of IT or ITes or Data Centre Infrastructure Management related work or establishment of Cyber Security and Digital Forensic lab or similar nature of work in reputed Institutes of Higher Learning / Indian Universities / Central or State Government Organizations / Professional bodies etc. during the last three financial years.
4. Scan of PAN card (in name of Proprietor in case of Proprietorship Firm & in name) & GST certificate of Bihar of bidder.
5. Scan of documents in support of yearly turnover during the last three financial years along with duly audited profit & loss account and balance sheet by Chartered Accountant.
6. Scan Copy of document of IT return of last three financial years
7. Scan of Brochure with detailed specification of quoted make & model IT & Electrical items
8. Scan of details of Authorised Service Centre of Quoted make of IT related Items.
9. Scan of tender specific authorisation letter & compliance certificate from OEM of AIO Online UPS, Network Switches, Wifi Access Point, CAT6 Cable & Mobile Workstation Laptop
10. Scan of Annexure-II
11. All the document must be signed and stamped on all pages or can be signed using the digital Signature

9. Pre-Bid Meeting

1. **CNLU shall hold a pre-bid meeting on 14/02/2025 at 01:30 PM.** In this meeting, CNLU will address clarifications sought by the bidders regarding the tender document and the project. Bidders are required to submit their queries to the Registrar, Chanakya National Law University, Patna, to be received by **01:00 PM on 14/02/2025** through email at registrar@cnlu.ac.in. Queries not submitted within this deadline may not be addressed during the pre-bid meeting.

2. CNLU reserves the right not to respond to any/all queries raised or clarifications sought if, in their opinion and at their sole discretion, they consider that it would be inappropriate to do so or do not find any merit in it. The clarifications of pre-bid queries will be published on the website : <https://eproc2.bihar.gov.in>.

10. Earnest Money Deposit (EMD)

1. The Bidder shall furnish, as part of its bid, an Earnest Money Deposit (EMD) of the amount mentioned in this tender.
2. The EMD is required to protect the purchaser against the risk of Bidder's conduct which would warrant the security's forfeiture, pursuant to Scope of Work of this tender
3. The EMD must be submitted online through <https://eproc2.bihar.gov.in>
4. Unsuccessful bidder's bid security shall be discharged or returned within fifteen (15) days after the agreement with the successful bidder
5. No interest shall be paid by the Purchaser on the EMD. The EMD may be forfeited:
 - If a Bidder withdraws its bid during the period of bid validity specified in the Bid; or
 - If a Bidder would submit a non-responsive bid or not respond for the query/clarification asked during the evaluation period
 - In case of a successful bidder, if the Bidder fails;
 - to sign the Agreement with Purchaser
 - to submit performance security

11. Manner of submission of the Quotations

- Online through <https://eproc2.bihar.gov.in>
- Affidavit in Original, as mentioned in eligibility criteria should be submitted to University Office by hand or sent by Post at the address "Registrar, Chanakya National Law University, Nyaya Nagar, Mithapur, Patna-800001" so as to reach up to **02: 00 pm on 28/02/2025**.

12. Evaluation Criteria

An evaluation committee constituted by CNLU will evaluate the technical and commercial bids as per the following procedure:

- Conditional bids may be summarily rejected.
- CNLU will examine the bids to determine their completeness, identify any computational errors, and ensure that they are generally in order.
- Arithmetical errors will be rectified on the following basis:
 - If there is a discrepancy between the unit price and the total price obtained by multiplying the unit price by the quantity, the unit price shall prevail, and the total price will be corrected accordingly.
 - If the bidder does not accept the correction of errors, their bid will be rejected.
 - In case of a discrepancy between words and figures, the amount in words will prevail.
 - a. CNLU may conduct clarification meetings with any or all bidders to discuss any matters, technical or otherwise.
 - b. The evaluation committee also has the authority to make decisions regarding the execution and implementation of the project, including the management period.
 - c. Bid document shall be evaluated as per the following steps.

- **Evaluation of Bid Documents**

Eligibility Criteria: The documents will be examined to determine whether the bidder meets the eligibility criteria, the completeness of the bid, and whether the documents have been properly signed. Bids that are found to be non-responsive or do not meet the eligibility criteria may be rejected and excluded from further consideration.

- **Evaluation of Commercial Bids**

Lowest Commercial Cost (L1): The commercial bids will only be opened for bidders who qualify the technical bid. The bid with the lowest commercial value (L1) among the qualified bids will be considered the successful bid.

13. Bid Rejection Criteria

- Bids may be rejected under the following circumstances:
 - a. Late Submission:** Bids received by CNLU after the last date and time for receipt of bids, as specified on the portal <https://eproc2.bihar.gov.in/>, will be rejected.
 - b. Incorrect Submission Portal:** Bids submitted on any platform other than the e-Procurement Portal <https://eproc2.bihar.gov.in/> mentioned in the tender document will be rejected.
 - c. Missing EMD and Cost of Document:** Bids that are not accompanied by the requisite Earnest Money Deposit (EMD) and proof of Cost of document.
 - d. Non-compliance with Tender Requirements:** Bids that do not conform to the requirements, terms, and conditions mentioned in this RFP document.
 - e. Incomplete or Misleading Information:** Bids that are incomplete, evasive, or contain incorrect, inaccurate, or misleading information, which may prevent a thorough analysis, as determined by CNLU.
 - f. Improper Signing:** Bids that are not properly or duly signed/initiated by the authorized person.
 - g. Material Deviations:** Bids containing material deviations or conditions unacceptable to CNLU.
 - h. Failure to Respond:** Bids from bidders who do not respond to queries or provide documents sought by CNLU within the stipulated time

- i. **Other Reasons:** Bids rejected for other reasons mentioned in this tender document
- j. The decision of CNLU in all matters related to the bid process will be final and binding on all bidders participating in this bid.

14. Opening of Quotation

- Tenders shall be opened in the presence of the designated authority / authorities and representatives of the bidders who wish to be present. The date of the financial quotation opening will be communicated to the shortlisted bidders at a later time.

15. Award of work

- The work will be awarded to the lowest rate bidder (L1).

16. Performance Security & Agreement

- a. The bidder shall enter into an agreement on a **Rs. 1,000 (Rupees One Thousand) non-judicial stamp paper within 10 working days from the date of the work order**
- b. Performance security shall be **5% (Five Percent)** of the total quoted amount without tax. EMD shall be adjusted in the amount of performance security.
- c. Successful bidder can deposit an amount of performance security after deducting the amount of EMD in the form of a Demand Draft (DD) in favor of the Registrar, Chanakya National Law University, Patna, at the time of signing the agreement.
- d. Failing to do so, the security deposit will be deducted from the on-account running bills.

- e. The **security deposit** will be refunded **60 days after the successful completion of the defect liability period i.e., three (3) years. No interest will be paid on the security deposit.**

17. Goods Inspection and Acceptance Protocol

- a. Goods Inspection:** The inspection of the goods is essential to ensure their conformity with the technical specifications outlined in the tender document. An inspection report for IT related items, bearing the signature of a competent authority from the Original Equipment Manufacturer (OEM) and including detailed information such as the serial and model number of the equipment, shall be provided to the University. This report, along with the manufacturer's warranty certificate, will be furnished to the purchaser together with the supplied items. Warranty certificate for electrical work furnished by SI itself.
- b. Acceptance Testing**
- i. It is required that the IT & Electrical equipment operate uninterrupted and without issues for a duration of **five (5) working days** at the University, following installation and completion of the civil work measurements. No additional charges shall be paid to the SI for conducting these acceptance tests
 - ii. It is crucial that there are no malfunctions, partial or complete hardware failures, or any other issues, including deformities in the civil or electrical work, during the testing period.
- c. Rectification Grace Period:** If the supplied items fail to meet the acceptance testing criteria, the SI must immediately replace the supplied items and ensure successful completion of the acceptance testing. Failure to do so, the decision of the higher authority of CNLU in this regard will be final.

18. Acceptance Certificates

- a. Upon the successful completion of the acceptability test, the receipt of deliverables, and the satisfaction of the purchaser with the system's performance, an acceptance certificate, signed by both the SI and a representatives / concerned committee of the purchaser, will be issued. The date on which this certificate is signed will be considered the official date of the successful completion of all works.

19. Payment Terms

Payment for this turnkey project shall be remitted in Indian Rupees, as outlined below

a. Payment schedule

Sr. No	Milestone	Payment	Requirement
1	For SI After Delivery of all IT and Electrical material with certificate of OEM	For SI 40% of cost with GST total Material delivered	For SI Signed Material Inspection Report with the Item details like Item Description, Serial No. (for IT related products), Part Code no., Quantity. etc. and Dispatch Challan
2	For SI After Completion of Acceptance Test: (After successful completion Final installation, Commissioning and testing and closure of observation during AT)	For SI Balance amount with GST after necessary deduction.	For SI Final Acceptance Test certificate issued by CNLU.

b. Payment: Payment shall be made as per payment schedule.

c. Deductions : Statutory deduction as applicable.

20. Termination of Contract

CNLU reserves the right to terminate the contract under the following circumstances:

- 1. Breach of Terms** – If the SI fails to comply with the terms and conditions of the agreement.
- 2. Unsatisfactory Performance** – If the services or work provided are found to be unsatisfactory, substandard, or not as per the specified requirements
- 3. Failure to Meet Deadlines** – If the SI fails to complete the work within the stipulated time without valid justification
- 4. Fraud or Misrepresentation** – If any fraudulent activity, misrepresentation, or submission of false information is detected.
- 5. Legal or Regulatory Violations** – If the SI is found to be in violation of any applicable law, rule, or regulation affecting the contract.
- 6. Financial Insolvency** – If the SI becomes insolvent or files for bankruptcy.
- 7. Convenience of CNLU** – CNLU reserves the right to terminate the contract at its discretion, with prior notice, if deemed necessary for administrative or operational reasons.
- 8.** In case of termination, the SI shall not be entitled to any compensation except for the work completed and accepted by CNLU up to the date of termination. The performance security may be forfeited as per the contract terms

21. Force Majeure Conditions

Neither party shall be liable for any failure or delay in the performance of its obligations under this contract due to Force Majeure events. Force Majeure shall include, but not be limited to, the following:

- 1. Natural Disasters** – Earthquakes, floods, fires, storms, cyclones, or other acts of God.
- 2. War & Hostilities** – War, invasion, acts of foreign enemies, hostilities (whether war is declared or not), civil war, rebellion, revolution, military actions, or insurrection.

3. Government Actions – Changes in law, regulations, policies, or any restrictions imposed by the government or regulatory authorities.
4. Pandemics & Epidemics – Widespread health crises, pandemics, or epidemics declared by the World Health Organization (WHO) or any competent authority.
5. Strikes & Industrial Disruptions – General strikes, lockouts, or labor disputes affecting the execution of the contract.
6. Terrorist Activities – Acts of terrorism, sabotage, or threats that directly impact contract execution.
7. Cyber Attacks – Large-scale cyberattacks or system failures beyond the control of the parties.
8. Procedure for Invocation:
 - a. The affected party shall notify the other party in writing within a specified period, providing details and evidence of the Force Majeure event.
 - b. Both parties shall make reasonable efforts to resume performance as soon as possible after the event ceases.
 - c. If the Force Majeure event continues for an extended period, either party may have the right to terminate the contract without any penalties
9. In such cases, neither party shall be held liable for any damages or penalties arising due to non-performance caused by Force Majeure.

22. Go-Live Procedure for Cyber Security and Digital Forensic Lab

- **Pre-Go-Live Validation**

1. **Final Testing & Acceptance:** Ensure all hardware, software, and network components pass functional and security testing.

- **Approval for Go-Live**

1. Obtain sign-off from stakeholders, including:

- CNLU's concerned team and administration
- Service provider/vendor representative

2. Document all approvals and any outstanding issues with timelines for resolution.

- **Deployment & Go-Live Execution**

- a. **System Activation:** Enable live network access, forensic tools etc.

- b. **Real-Time Monitoring:** Implement monitoring for initial **five (5) working days** to detect issues.

- **Project Closure & Handover**

- a. **Final Review & Handover:** Conduct a closing meeting with all stakeholders to review performance.

- b. **SLA Enforcement:** Ensure the vendor/service provider is bound to the agreed support terms.

- c. **Sign-Off:** Obtain acceptance certificate from CNLU management.

23. Post-Implementation Support & Warranty for Cyber Security and Digital Forensic Lab

- i. **Handholding Support Post Go-Live** : The System Integrator (SI) shall provide comprehensive handholding support to stakeholders for functional issues, including:
- a. Faulty equipment such as Laptop, Server, AIO, Switches, APs, Controller, UPS must be repaired or replaced at no cost to CNLU with similar or higher specifications.
 - b. Annual Maintenance Contract (AMC) may be initiated by CNLU after the warranty period.
- ii. **System Warranty & Maintenance Support**
- a. Three (3) years comprehensive warranty will be started from the Go-Live date.
 - b. No "End of Life" (EOL) Components: If any active component is declared EOL during the warranty period, the vendor must replace it with a similar or higher specification at their own cost.
 - c. The OEM confirmation letter regarding warranty commitments shall be mandatory
 - d. The bid must include the warranty cost in the quoted price.
 - e. Warranty of IT, and Non IT related equipment shall be as per OEM norms
- iii. **Warranty Period Functional Support** : **During the 3-year warranty period, the SI shall provide**
- a. Services & support as & when required during warranty period
 - b. Repair / replace cracks in walls, defects in painting work and waterproofing work etc

Annexure-I : Declaration

I / we declare

that

my..... /
our company namely..... has not been black listed by any Government / Semi Government Organisation nor should have any litigation enquiry pending and / or initiated by any of these Department or Court of Law with regards to the works executed by our company since incorporation. No FIR has been lodged against us.

that

the documents annexed along-with the quotation are genuine and not tampered by me / us while copying.

that

IT , Civil & Electrical items quoted by me / us are matched with details mentioned in Annexure -II of Tender nodated

that

I / We have Civil and Electrical manpower, who are capable of doing such type of project

that

I / We examined the tender document and have no reservations and I / We agreed with all the terms & conditions of Tender no.-.....dated..... If my / our declaration above found fake or forged then:

- i. my quotation document shall be rejected
- ii. Letter of Intent / Purchase Order / Agreement, if issued, shall be canceled and
- iii. FIR shall be inflicted against my / our company / firm by the University.

Signature of the bidder / Authorized Signatory (Name & Designation)

Annexure-I : Declaration

Seal of the bidder

Place :

Date :

Annexure-II

Group A IT Related Work

Sr. No.	Name of Equipment	Specifications	Quantity	Make & Model	Remarks
1.	Laptop Mobile Workstation	<ul style="list-style-type: none"> • Processor: Intel® Core™ Ultra 5 125H (E-cores up to 3.60 GHz, P-cores up to 4.50 GHz) • Operating System: No Operating System • Graphic Card: Integrated Graphics • Memory: 16 GB DDR5-5600MHz (SODIMM) • Storage: 512 GB SSD M.2 2280 PCIe Gen4 TLC Opal • Display: 40.64cms (16) WUXGA (1920 x 1200), IPS, Anti-Glare, Non-Touch, 45% NTSC, 300 nits, 60Hz • Camera: 5MP RGB with Microphone • Battery: 3 Cell Li-Polymer 57Wh • AC Adapter / Power Supply: 100W USB-C Slim 90% PCC 3pin AC Adapter – India • Fingerprint Reader: Fingerprint Reader • Keyboard: Backlit, Black with Number Pad – English (US) • WIFI: Intel® Wi-Fi 6E AX211 2x2 AX vPro® & Bluetooth® 5.1 / Bluetooth® 5.3 • WWAN: No Wireless WAN • Warranty: Three Years On-site • Certifications : UL, RoHS 	3 unit		
2	Tower Server	<ul style="list-style-type: none"> • Processor: Intel Xeon E-2314 Processor, 4 Cores, 4 Threads, Base Clock: 2.8 GHz, 8MB Cache • Memory:16GB DDR4 UDIMM (Unbuffered DIMM), • Storage: 2TB SATA 6 Gbps Enterprise 7.2K HDD (3.5-inch) • Network Options : 2 x 1 GbE LOM or better 	1 unit		

		<ul style="list-style-type: none"> • Operating System: Microsoft Windows Server 2022 Standard License (16 Core) • Monitor and Peripherals: 24-inch Monitor, Keyboard, Mouse Raid, Software RAID • Warranty : Three Years On-site • Certifications : UL, RoHS, ENERGY STAR 			
3	AIO Desktop	<ul style="list-style-type: none"> • Processor: Intel Core i5 13420H (13th generation or latest) • Graphics Type: Integrated (UHD Graphics) • Processor Base Frequency: 2.1 GHz or higher • Number of Cores: 8 cores • Chipset: OEM compatible • Cache: 12 MB L3 Cache (or higher) • RAM: 16 GB DDR5, 5200 MHz or higher • RAM Expandability: Minimum 8 GB or higher, dual-channel capable with Dual DDR5 DIMM-5200 slots • Motherboard: OEM or Intel original motherboard • Storage: 512 GB NVMe SSD • Monitor: 23.8" LED, FHD (1920x1080), IPS, 250 nits, Anti-glare, 16:9 aspect ratio, 1300:1 contrast ratio • Mouse and Keyboard: Wired • Cabinet Form Factor: All-in-One desktop • Expansion Slots: Two M.2 slots (one for WLAN, one for SSD) • Operating System: Windows 11 Pro or Windows 11 Home SL (Factory preloaded) • Warranty: 3 years onsite OEM warranty • Ports: <ul style="list-style-type: none"> • 1 x USB-A (USB 10Gbps / USB 3.2 Gen 2) • 2 x USB-A (Hi-Speed USB / USB 2.0) ○ 1 x HDMI®-in 1.4 • 1 x HDMI®-out 2.1 TMDS • 1 x Ethernet (RJ-45) • 1 x Power connector • 1 x USB-C® (USB 10Gbps / USB 3.2 Gen 2), data transfer only • 1 x Headphone / microphone combo jack (3.5mm) 	54 unit		

		<ul style="list-style-type: none"> • Network Interface: 10/100/1000 Ethernet LAN (IPv6 compliant) • Wi-Fi and Bluetooth: Realtek® Wi-Fi® 6 RTL8852BE, 802.11ax Dual Band 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card • Security Features: TPM 2.0, Camera Shutter Latch for camera lock security • Green Certifications: <ul style="list-style-type: none"> • ENERGY STAR® 8.0 • EPEAT™ Silver Registered • ErP Lot 3 and Lot 7 • GREENGUARD® • RoHS / WEEE / REACH • OEM Requirement : <ul style="list-style-type: none"> • IDC Top 4 Desktop manufacturer for the last 4 quarters • Registered office in India for at least 12 years • Desktop, keyboard, and mouse should be from the same OEM 			
4	Network Switches	<p>Full Gigabit Ports: 24 gigabit PoE+ ports and 4 gigabit SFP Slots provide high-speed connections, 250W PoE Budget: 24 802.3at/af-compliant PoE+ ports with a total power supply of 250 W; IPv6 support with dual IPv4/IPv6 stack, MLD snooping, IPv6 neighbor discovery Device OEM must be must be ISO 9001 & 14001 Certified at the time of bidding Device OEM must be Gartner Magic Quadrant for Enterprise Wired and Wireless LAN Infrastructure in Last 4 Quarter</p> <p>Warranty: 3 years onsite</p>	3 unit		
5	Network Rack	<ul style="list-style-type: none"> • Wall-mountable, 19" cabinet, 12U, glass door, 590 x 600 x 440 mm 	1 unit		

<p>6</p>	<p>Comprehensive Write Block Kit – all-in-one tool for digital forensics professionals and investigators.</p>	<ul style="list-style-type: none"> • Comprehensive Write Block Kit: Write Blockers (T8u, T7u, T6u, T35u): These models are designed to handle a variety of storage media, including SATA, IDE, SCSI, SAS, and RAID devices. The write blockers ensure that no data is written to the original storage media during forensic imaging or data recovery, preserving the integrity of the data. The T8u, T7u, T6u, T35u models cover a wide range of connections and drive types, offering maximum compatibility for digital forensics. • Adapters: These adapters provide additional flexibility by supporting different drive interfaces (e.g., SATA, IDE, SCSI, and USB drives) and allow for easy connection of devices to the write blocker • USB Media Card Reader: A USB card reader included for reading and writing to flash media, such as SD cards, microSD cards, and other media that may require forensic analysis. This is important for acquiring data from various types of storage that may not be connected to a traditional hard drive • SiForce Rugged Case: Rugged Protection– The SiForce Rugged Case provides durable and protective casing for the write blockers and other equipment in the kit. The case is designed to withstand harsh conditions, ensuring that the equipment is safe from impact, moisture, and dust during fieldwork or transport. The rugged design makes it ideal for forensic investigators who need to carry their tools to different locations and environments, such as crime scenes or data centers. • Digital Forensic Evidence Faraday Bag (Key Fob X2 Shielding): Faraday Shielding– Faraday bags are used to block all wireless signals (e.g., GPS, WiFi, Bluetooth, RFID) to prevent remote tampering, tracking, or data extraction from devices like key fobs, smartphones, tablets, or other electronic devices. The X2 Shielding technology is specifically designed for blocking RFID signals, which is critical in preventing unauthorized communication with electronic devices. This is important in evidence 	<p>1 unit</p>		
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		<ul style="list-style-type: none">• preservation because it ensures that any data or communication from the device can't be accessed or altered during the forensic investigation.• Protection Against Hacking: These bags offer a secure environment for storing potentially hacked or compromised devices, ensuring they are not remotely accessed or tampered with after they are seized as evidence.• MTDFE Faraday Cage Protector: Signal Blocking for RFID Devices- MTDFE Faraday Cage Protectors are designed to block RFID signals, which is especially useful when securing items like car key fobs, contactless cards, or smart keys from being tracked or remotely activated. These protectors are important when working with items that might be vulnerable to theft or hacking through RFID signals.• AntiTheft Pouch: The anti theft pouch is another security measure that prevents the possibility of unauthorized RFID access to sensitive items.They are also useful in preventing the accidental triggering of signals or unlocking systems during forensic investigations• 4 Qty of AntiHacking Case Blocker (Black): The anti hacking case is designed to block RFID, GPS, and other radio signals, adding an additional layer of security when dealing with evidence that could be susceptible to remote hacking or unauthorized access.• Packaging & Quantity: Pieces of the Faraday Cage Protectors and AntiTheft Pouch-Four individual Faraday cages or anti theft pouches are included, which allows for the secure storage of multiple devices at once, ensuring that all evidence is protected from external signals or hacking attempts			
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7	Indoor Access Points	<p>Warranty Three Years</p> <p>AP shall have hardened enclosures for indoor deployment and shall have a robust design for durability</p> <p>It shall have dual radios for concurrent dual band (5 GHz / 2.4 GHz) operation</p> <p>It shall have Simultaneous 574 Mbps on 2.4 GHz and 1201 Mbps on 5 GHz totals 1775 Mbps Wi-Fi speeds</p> <p>AP must support 1024 QAM</p> <p>AP must Support WEP, WPA-Personal/Enterprise,</p> <p>WPA2-Personal/Enterprise,</p> <p>WPA3-Personal/Enterprise</p> <p>Minimum 1 number of 1 Gbps Ethernet port RJ-45.</p> <p>AP shall support Multi user MIMO</p> <p>AP shall support Outfitted with the latest 802.11ax technology</p> <p>The AP shall comply with IEEE 802.11ax at a minimum and be backwards compatible to IEEE 802.11a/b/g/n/ac standards.</p> <p>AP shall operate at least in full 2X:2 MIMO or more mode without any loss of features or capabilities</p> <p>AP shall Support PoE 802.3at PoE for convenient and affordable installation</p> <p>AP must support 20 MHz, 40 MHz and 80 MHz channels.</p> <p>Each AP must support a minimum 80 concurrent clients in total (including both 2.4GHz and 5GHz radios).</p> <p>The AP shall provide a minimum of 20 dBm EIRP for both 2.4 GHz and and 23 dBm for 5 GHz frequencies.</p> <p>Field deployment shall be with EIRP as per regulatory guidelines.</p> <p>AP shall support QoS and WMM latest technology</p> <p>AP shall support Multiple operating modes including managed</p> <p>AP and standalone AP mode</p> <p>AP shall support Band Steering, Beamforming, Airtime Fairness and Load Balance and OFDMA features</p> <p>AP shall support rogue access point detection</p> <p>AP shall have dual-Band Omni-directional Antenna, either internal or external. Field deployment shall be with EIRP as per the WPC guideline.</p>	6 unit		
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		<p>AP should be compatible for Simple mounting on any wall or ceiling surface</p> <p>AP should support management VLAN AP should support Captive portal and Rate limit feature</p> <p>AP shall support Reboot Schedule, Wireless Schedule and Wireless Statistics based on SSID/AP/Client Intelligent RF control plane for self-healing, and self-optimization</p> <p>AP Shall support Wireless Mac Address Filtering, Wireless Isolation Between Clients and SSID to VLAN Mapping</p> <p>AP shall support 802.1X authentication and external radius server</p> <p>AP shall be able to assign the end User the IP address as received from backend core DHCP Server.</p> <p>AP shall support Hardware controller or Software controller and Zero-Touch Provisioning (ZTP)‡, Centralized Cloud Management, and Intelligent Monitoring.</p> <p>Shall support Operating Temperature of 32°F~144°F or better</p> <p>Warranty 3 years</p>			
8	Wi-Fi Controller	<ul style="list-style-type: none"> • Warranty Three Years • Controller must have 2× 10/100/1000 Mbps Ethernet Ports and 1× USB 3.0 Port • Controller support WDS or MESH networking* • Controller shall support QoS and WMM latest technology • Controller Supports Free Authentication Policy and Captive Portal Advertisement • Controller shall support Band Steering, Beamforming, Airtime Fairness and Load Balance features • Controller shall support rogue access point detection 	1 unit		

8		<ul style="list-style-type: none"> • Controller Must Support Support 15000 Clients • Controller should support management VLAN • Controller should support Captive portal and Rate limit feature • Controller shall support Reboot Schedule, Wireless Schedule and Wireless Statistics based on SSID/Controller/Client • Intelligent RF control plane for self-healing, and self-optimization • Controller Shall support Wireless Mac Address Filtering, Wireless Isolation Between Clients and SSID to VLAN • Controller shall support 802.1X authentication and external radius server • Controller shall be able to assign the end User the IP address as received from backend core DHCP Server. • Controller shall support Cloud Manageability and SDN Ready • Controller shall come with at least 500 Devices Including Switches , Gateways and AP from Day 1 • Controller shall come with life time no Recurring or renewal cost • Controller Support authentication method like SMS and Facebook authentication • Supports Layer 3 Adaptation • Controller shall Manage Multiple Sites over Web with the Centralized Controller in a Single Location • Controller shall Intuitive Real Time Monitoring and data usage • Controller shall support remote upgrade and access control features • Controller Shall support L3 management, SNMP, Email notification • Controller Shall Support Auto-backup via USB • Controller shall support smooth operation on 50 Degree Celsius • Controller shall support Rack Mounting • Controller shall have CE, FCC, RoHS • Warranty 3 years 	1 unit		
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Group B for Electrical Works (BSR rate Contract)

Sr. No.	BSR-2023 (E&M)/NS	Item Description	Quantity	Unit	Rate(Rs)	AMOUNT
1	DSR	Wiring Switches and Accessories				
1	1.7	Wiring for circuit / sub main wiring along with earth wire with the following sizes of FR PVC Insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
1.2	1.7.2	2x2.5 sq.mm +1x2.5sq.mm earth wire	350	metre	229	80150
1.3	1.7.3	2x4 sq.mm 1x4 sq.mm earth wire	250	metre	263	65750
2	1.1	Wiring for light point / fan point / exhaust fan point/ call bell point with 1.5 sq.mm CU. FR PVC insulated copper conductor single core cable in surface /recessed PVC conduit, with modular switch, modular plate,suitable PVC Box and earthing the point with 1.5 sq.mm FR PVC insulated copper conductor single core cable etc as required				
2.1	1.10.3	Group c	80	point	1120	89600
3	1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. As required.				
3.1	1.24.1	6/10 amps switch	240	each	82	19680
3.2	1.24.4	3 pin 10 amp socket outlet	150	each	112	16800
4	1.25	Supplying and fixing two modular stepped type electronic fan regulators on the existing modular plate switch box including connections but excluding modular plate etc.as required.	20	each	358	7160

5	1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	25	each	34	850
6	1.27	supplying and fixing following size / modules , G.I box along with modular base & cover plate for modular switches in recess etc. As required.				
6.1	1.27.4	6 Module (200mmx75mm)	60	each	333	19980
6.2	1.27.6	12/18 Module (200mmx150mm)	8	each	501	4008
7	1.28	Supplying and fixing following Modular base and cover plate on existing modular metal boxes etc. as required				
7.1	1.28.4	6 Modular	60	each	189	11340
7.2	1.28.6 1	12/18 modular	8	each	254	2032
8	1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	13	each	531	6903
9	1.33	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box / wooden block including connections etc. As required.	80	each	64	5120
10	2.9	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, power painted including earthing etc. as required. (but without MCB/RCCB/Isolator)				
11	2.9.2	6 way (4+18) , Double door, horizontal type	3	each	5132	15396
12	2.12	Supplying and fixing following rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				

12.1	2.12.1	6A to 32 A, single pole	36	each	237	8532
12.2	2.12.4	6A to 32 A TPN	10	each	1282	12820
		Earthing System				
13	3.6	Earthing with copper earth plate 600 mmx 600 mmx 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and wateringpipe of 2.7 meter long etc. With charcoal/ coke and salt as required.	4	each	13721	54884
14	3.8	Supplying and laying 25 mm x 5mm copper strip at 0.50 meter below ground as strip earth electrode, including connection/ terminating with nut bolt, spring washer etc. As required.(jointing shall be down by overlapping and with 2 sets of bras nut bolt 7 spring washer spaced at 50 mm)	75	meter	1026	76950
15	5.9	Supplying and fixing recess mounted 36 watt LED flat panel (2' X 2') with minimum efficacy 100 lm/w which provides soft light and glare free symmetrical illumination suitable for armstrong/grid ceiling and integrated electronic driver etc directly on false ceiling including connections with 1.5 sq.mm FRLS PVC insulated copper conductor cable etc as required	30	each	2663	79890
		LT Electrical Cable Laying				
16	7.1	laying of one number PVC Insulated and PVC sheathed/ XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, covering and refilling the trench etc as required.				
16.1	7.1.3	up to 35 sq.mm	120	meter	338	40560
		LT Electrical Cable Laying & Termination				

17	7.2	Supplying and making end termination with brass compression gland and aluminium lug for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
17.1	7.2.1	up to 35 sq.mm	6	each	222	1332
		LT Electrical Cabl				
18	7.7	Supply of following sizes and core PVC/XLPE insulated, PVC sheathed (Heavy duty) armoured electrical power cable with aluminium conductor for working voltage up-to 1.1 KV as required.				
18.1	7.7.8	35 sq.mm, 3.5 core	415	meter	200	83000
19	8.15	Supply and installation of regular/ standard model A.C. ceiling fan of 1200 mm sweep with service value (CM/MM) minimum 4.00, Air delivery minimum 210 cum/min including wiring the down rods of standard length (up-to 30 cm) with 1.5 sq. mm FRLS PVC insulated copper conductor etc as required.	20	each	2482	49640
Total Amount with GST					7,52,377.00	

Group B for Electrical Works (Non-Schedule)

Sr. No.	Name of Equipment	Specifications	Quantity	Make & Model	Remarks
1	Online UPS	<p>20kVA UPS System</p> <p>1. Capacity</p> <ul style="list-style-type: none"> • 20 kVA / 20 kW 3-Phase Input / 1-Phase Output • 20 kVA / 20 kW 3-Phase Input / 3-Phase Output <p>2. Technology and Capability</p> <ul style="list-style-type: none"> • True Online configuration with double conversion UPS • DSP-based technology with reduced electronic components • Fully rated power (kVA=kW) for maximum power availability • Capability for enhancing UPS capacity/redundancy with N+X Parallel Redundant Configuration (PRS) • Capability of independent or common battery bank operation in PRS mode • UPS designed at Rated PF of 1 (20 kVA / 20 kW UPS rating) • Dual Input design with separate bypass • IGBT topology for both Power Factor Correction (PFC) and inverter • Fan failure/life prediction and speed control • Battery aging detection <p>3. Input:</p> <ul style="list-style-type: none"> • Input Phases/Wires: 3-Phase / 4-Wire & Ground • Input Voltage Range: <ul style="list-style-type: none"> i. 380V, 400V, 415V (3Φ4W+G) ii. Full Load: 305~485VAC iii. Derating (40%-100% Load): 138~305VAC 	1		

		<ul style="list-style-type: none"> • Nominal Input Frequency: 50/60Hz (AutoSelectable) • Input Frequency Range: 40 to 70 Hz • Input Power Factor: > 0.99 (Full Load) • Current Harmonic Distortion (ITHD): < 3% • Generator Compatibility: Required <p>4. Output</p> <ul style="list-style-type: none"> • Nominal Output Voltage for 1-Phase: 220, 230, 240 Vac • Nominal Output Voltage for 3-Phase: 380, 400, 415 Vac • Output Voltage Regulation: ± 1 % • Nominal Output Frequency: 50/60 Hz • Output Frequency Regulation: ± 0.05Hz • Output Frequency Slew Rate: < 1Hz/ sec • Output Waveform: Pure sine wave $OV_{Lii}(H)^2$ <p>5. Transient Response / Recovery</p> <ul style="list-style-type: none"> • Response for 10% to 100% load variation: ±5% • Response time: <20ms <p>6. Transfer Time</p> <ul style="list-style-type: none"> • Mains to Battery Mode: 0ms • Battery to Mains Mode: 0ms • Inverter to Bypass / Bypass to Inverter: <4ms <p>7. Efficiency</p> <ul style="list-style-type: none"> • Online Double Conversion Mode: Up to 96.5% • ECO Mode (Bypass feeding load in normal conditions): Up to 99% <p>8. Overload Capacity</p> <ul style="list-style-type: none"> • ≤105%: Continuous • 106% - 125%: 2 minutes • 126% - 150%: 30 seconds • 150%: 200ms 			
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		<p>9. Display Panel</p> <ul style="list-style-type: none"> • Measurements (On LCD): Input/ Output voltage, frequency, load level, battery voltage, charge mode, and more • Fault Indication (On LCD): Various faults such as battery overcharge, system fan issues, output overload, etc. • Indications (LED): For fault indications <p>10. Alarms</p> <ul style="list-style-type: none"> • Audible Alarms: Various faults such as I/P fuse open, PFC soft start fail, inverter overheat, battery disconnect, etc. <p>11. Battery Backup / Battery Bank & Charger</p> <ul style="list-style-type: none"> • Backup Required: Approx. One Hour • Battery Bank Voltage: 384 V DC • Battery Bank VAh: 24960 (Vendor to include battery sizing calculations) • Battery Type: Sealed Maintenance Free (SMF) – 12V Cells • Battery Makes: Amara Raja, Exide, HBL, Amco, Rocket • Number of Battery Banks: Maximum Two Banks in parallel • Minimum Charger Rating: Charger should deliver charging current equivalent to 10% of battery Ah rating • Charger Type/Charging Method & Charging Voltages: <ul style="list-style-type: none"> • 3-stage superior charging with intermission stage • Float Charge: 272V • Boost Charge: 280V • Battery Housing: Compact and space-saving MS steel open racks with interconnectors • Battery End Cell Voltage: 1.75 V/cell <p>12. Interfaces</p> <ul style="list-style-type: none"> • RS485 Port: Available • Dry Contact: Available 			
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		<ul style="list-style-type: none"> • REPO (Remote Emergency Power OFF) / ROO (Remote ON - OFF) Port: Available for both onsite and remote EPO • SNMP IPv6 Card: Monitors and controls UPS status via a network system (Optional) <p>13. Restart / Testing Capability</p> <ul style="list-style-type: none"> • Cold Start: UPS should start on AC or DC supply without requiring the other • Automatic Restart: UPS should automatically restart after battery low shutdown • Self Diagnosis: UPS should perform self-test on rectifier, charger, battery, and inverter modules during startup <p>14. Physical</p> <ul style="list-style-type: none"> • Operating Temperature: 0°C ~ 40°C • Storage Temperature: -15°C ~ 55°C • Operating Humidity: 5% ~ 95% (non-condensing) • Operating Altitude: 0 to 1000m • Type of Cooling: Forced Air • Noise Level: <54dBA at 1 Meter • Air Filters: Optional internal anti-corrosion filters for dust filtration • Dimensions: 2U • Weight: 25 kg • Configurations: Rack & Tower • UPS Package Includes: <ul style="list-style-type: none"> • Ear Bracket Kit, BUS Bar, Battery Cables, USB Cable, Parallel Cable, User's Manual, Tower Stand, Terminal Kit • Parallel Configuration: UPS should support up to 4 units in parallel <p>15. Certifications</p> <ul style="list-style-type: none"> • Manufacturer Certifications: <ul style="list-style-type: none"> • QMS: ISO 9001:2008 • EMS: ISO 14001:2004 • OSHAS: ISO 45001 			
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		<ul style="list-style-type: none"> • TL 9000 • Product Safety Certifications: <ul style="list-style-type: none"> • ESD, RS, EFT, Surge, CS (Various IEC and EN standards) • ROHS Compliance: UPS should be ROHS and CE compliant • Must be NABL (National Accreditation Board for Testing and Calibration Laboratories) accredited in India. • Warranty: 3 years on UPS & Battery <p>16. Warranty 3 years on UPS & Battery</p>			
2.	VRF Air conditioning system	<p>OUTDOOR UNITS MACHINERY:</p> <ul style="list-style-type: none"> • Supply of variable refrigerant flow (VRF) system, suitable to operate at -20° to 52°C ambient temperature, comprising of the following and complete as per specifications: • Combination of Variable Temperature & Capacity Control, Variable Inverter compressors suitable for operation on R-410A, complete with high/low pressure cut-outs, oil pressure failure switch, fan motor, safety thermostat, overcurrent relay, fusible plugs, fuses, etc., and suitable for operation on 380-440V, 3 phase, 50 Hz A.C. supply. • Matching air-cooled condenser with copper tubes and aluminium fins duly covered by anti-corrosion and hydrophilic resin film. • Oil separator suitable for the long refrigerant piping. • Lot - Accumulator, liquid and gas shut-off valves, and solenoid valves/modulation valves with fittings to interconnect compressor, condenser, and evaporator coils. <p>1. Heating & Cooling: 18HP (14.4TR) Outdoor Unit - 1 Nos.</p> <ul style="list-style-type: none"> • Supply of Indoor units 			

		<ul style="list-style-type: none"> • Supply of Concealed type Indoor Unit with fittings. Consisting of fan, four speed motor, coil Section with DX coil, outer cabinet, filter, insulated drain pan, including all accessories. Cable from indoor unit to socket and headers etc. which shall be supplied by the OEM of VRF system. complete as required. Make – HITACHI <ul style="list-style-type: none"> a. 5HP (4.0TR) Cassette Type Indoor Unit – 04 Nos. b. 2HP (1.6TR) Cassette Type Indoor Unit – 01 Nos. • REMOTE CONTROLLER: <ul style="list-style-type: none"> a. Wireless Remote for Hi-Wall Type Indoor Units – 01 Nos. b. Wireless Remote for Cassette Type Indoor Units – 04 Nos. c. Receiver Kit for Cassette Type Indoor Units – 04 Nos. • Supply of Imported Control Systems & Y-Joints: <ul style="list-style-type: none"> • Y JOINT/Refnets for IDU – 04 Nos. • Supply of Imported Control Systems & Y-Joints: <ul style="list-style-type: none"> • Y JOINT/Refnets for IDU – 04 Nos. • Installations of VRF Air-Conditioning: <ul style="list-style-type: none"> • INSTALLATION & LOW SIDE WORKS <ul style="list-style-type: none"> • Installation, testing, and commissioning of Variable Refrigerant Flow System • Outdoor Units: <ul style="list-style-type: none"> • Installation, testing, and commissioning of the above VRF outdoor units with R410A refrigerant, controls, electricals, necessary accessories of following capacities: <ul style="list-style-type: none"> • Heating & Cooling: 22HP (17.6TR) Outdoor Unit – 01 Nos. 			
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		<ul style="list-style-type: none"> • Indoor Units: <ul style="list-style-type: none"> • Installation, testing, and commissioning of the above VRF indoor units with refrigerant, controls, electricals, necessary accessories, etc., of the following capacities: <ul style="list-style-type: none"> • 6HP (4.8TR) Cassette Type Indoor Unit – 04 Nos. • 2HP (1.6TR) Cassette Type Indoor Unit – 01 Nos. • REFRIGERANT PIPING : <p>Supply, installation, and testing of interconnect refrigerant copper piping with fitting duly insulated with 19/13 mm thick closed-cell elastomeric nitrile rubber tubular insulation between each set of indoor & outdoor units as per specification. All copper tubes shall be supported with suitable clamping & support, etc.</p> <ul style="list-style-type: none"> • Suction and Liquid Line Copper Piping – 65 Rmt. • DRAINPIPES OF INDOOR UNITS <p>Supplying, laying, fixing, testing & commissioning of composite UPVC pipes (Density not less than 10kg/m³), complete with all necessary fittings such as elbows, tees, reducers, U-trap, supports, clamps, etc., as per specification & drawings.</p> <ul style="list-style-type: none"> • 25 mm dia – 65 Rmt. • Transmission & Control Wiring <p>Providing & fixing of control cum transmission wiring of copper (communication cable) between indoor and outdoor unit in 25 mm PVC Conduit. AC Contractor shall include the cost of chiselling & finishing the wall/ceiling.</p> <ul style="list-style-type: none"> • 2C x 1.5 Sq. mm (Unarmoured) – 100 Rmt. 			
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		<ul style="list-style-type: none"> • Supply and charging of Refrigerant R410A – 15 Kg. • Lifting & Shifting charge – 01 Lot. • Nitrogen testing & vacuum work – 01 Lot. • Installation, Testing, and Commissioning of Regents / Y-Joint – 04 Lots. • Warranty: 3 years. 			
3	Optical Fibre wiring on wall with all accessories	Standard Quality, Single Mode Two Core optical fibre	150 metre		
4	Rj45 Data Crimping Point	<p>Complete with standard quality wiring</p> <p>CAT6: Category 6 Unshielded Twisted Pair 4 pair cable shall be compliant with ANSI/TIA/EIA-568-C.2 channel performance, Category 6 UTP cables shall extend between the work area location and its associated telecommunications closet and consist of 4 pair, 23 AWG, UTP., The 4 pair Unshielded Twisted Pair cable shall be ETL Verified</p> <p>Patch Panel, I/O Box, PVC Pipe & other accessories:</p> <p>Standard make and of good quality</p>	80 point		

Group C for Civil work (BSR rate Contract)

Sr. No.	SOR	Particular of items	Quantity	Unit	Rate (In Rs.)	Amount (In Rs.)
1	15.13	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 meters lead.	26	Each	58.9	1531.40
2	14.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge	15	Sqm	237.2	3558.00
3	12.52X	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc.				

		Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x 1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.				
	12.45.4	12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12 micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.	288	Sqm	1706.6	491500.80
4	13.78	Applying one coat of cement primer of approved brand and manufacture on wall surface:	1079.16	Sqm	38.6	41655.58
5	13.80A. 1	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete. Same area as item no. 04	1079.16	Sqm	81.1	87519.88
6	13.92	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:	1079.16	Sqm	86.4	93239.42

7	22.2	<p>Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick waterproofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/ sqm by the same membrane manufacture of density at 25°C, 0.87- 0.89 kg/ litre and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/450N/5 cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be up-to -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be done through the authorised applicator of the manufacturer of membrane.</p>	397	Sqm	472.5	187582.50
8	22.14	Grading roof for water proofing treatment with	24.614	Cum	3990.3	98217.24
9	26.86	<p>Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/ Ceosetory windows & other Frames/ Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm,-</p>	19.6	RM	1182.9	23184.84

		- modulus of elasticity 900 N/mm and resistance to spread of flame of Class A category with property of being termite/borer proof, water/ moisture proof and fire retardant and fixed in position with M.S hold fast/ lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-InCharge. (M.S hold fast/ lugs or SS dash fasteners shall be paid for Separately).				
10	9.147 D.1	Providing and fixing factory made uPVC white colour sliding glazed window up-to 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing the frame the gap between frame and adjacent finished wall shall be filled with weatherproof silicone sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately) Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable	26.4	Sqm	7261.9	191714.16
11	9.20	Providing and fixing ISI marked flush door shutters conforming to -	16	Sqm	2845.6	45529.60

		- IS : 2202 (Part I) decorative type, core of block board Construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters				
12	6.18. A	Half brick masonry with bricks of class designation 100A in foundations and plinth in :				
	6.18.4A	Cement mortar 1:4 (1 cement: 4 coarse sand)	41.8	Sqm	599.3	25050.74
	6.19A	Extra for half Brick masonry in superstructure above plinth level up-to floor V level.	41.8	Sqm	89.7	3749.46
	6.20A	Extra for half brick masonry in superstructure. Above floor V level for every four floors or part thereof	41.8	Sqm	80.2	3352.36
	6.21A	Extra for providing and placing in position 2 Nos, 6 mm dia , MS bars at every third course of half brick masonry (with F. P. S. bricks)	41.8	Sqm	113.6	4748.48
13	13.11.2	Cement plaster in coarse sand	41.8	Sqm	152.9	6391.22
14	13.12	15 mm cement plaster on the rough side of a single or half brick wall of mix	41.8	Sqm	176.4	7373.52
15	5.3	Reinforced cement concrete work in beams,suspended floors, roofs having slope up-to 15, landings,balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases up-to floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size).	0.171	Cum	5385.9	920.99

16	5.9	Centring and shuttering including strutting, propping etc. and removal of form for.	2.7	Sqm	404.7	1092.69
17	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
	5.22.7A	Thermo-Mechanically Treated bars TMTC-500-8mm dia.	39.37	Sqm	94.5	3720.47
	5.22.7B	Thermo-Mechanically Treated bars TMTC-500- 10mm dia.	34.72	Kg	92.6	3215.07
18	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / annealing, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :	364.56	Kg	480.2	175061.71

19	21.2	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineerin-charge	23.37	Sqm	826.9	19324.65
20	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):	17.98	Sqm	1115.1	20049.50
21	21.12	Providing and fixing aluminium tubular handlebar 32 mm outer dia,3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-inCharge	3	Each	557.3	1671.90
22	9.83	Providing and fixing aluminium die cast body tubular type universal hydraulic door closure (having brand logo with ISI, IS : 3564, embossed on the body, door weight up-to 35 kg and door width up-to 700 mm), with necessary accessories and screws etc. complete.	10	Each	979.5	9795.00
23	9.95	Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete	26	Each	105.2	2735.20
24	9.96	Providing and fixing aluminium sliding door bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete:	10	Each	235.1	2351.00
25	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with necessary screws etc. complete:	10	Each	111.4	1114.00

26	9.100	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete:	16	Sqm	571	913.60
		Total Amount				15,57,864.98
		Add 6% GST, beyond 12% GST (Multiplying Factor - 0.0536)				83, 501.56
		Grand Total				16,41,366.54

Group C for Civil work (Non-Schedule)

Sl. No	Particular of items	Quantity	Unit	Remarks
1	Supply and Installation of High Quality 2 mm Thick Vinyl Plank Flooring Work as per approved Brand as per item no. 03,			
	Skirting $64.0 \times 0.15 = 9.6$ Sqm.			
	Skirting $2.0 \times 17.0 \times 0.15 = 5.10$ Sqm.	302.7	Sqm	
3	<p>Workstation tables Specification : Open Model workstations made up with 50*50 mm metal frame counter and top made up with 25mm PLPB and 2mm PVC edge tape laminated and bottom Race for cable passing with cable manager Hole. Size 750 *600*750 mm(Length * Width * Height) for each seat – 4 Seater setup, Countertop side 12 mm width , 6 inch height, tuff glass make vertical – installation, BIFMA Standards Mandatory</p> <p>Site Visit is Mandatory</p>	12	Each	
4	<p>Office Chairs:</p> <ul style="list-style-type: none"> • Maximum weight capacity: 100 kgs Height Suitability: 5ft – 5ft.10" • Mechanism Type: Swivel & Tilt mechanism • To recline up to 135 degrees, draw the lever outwards. It can also be locked at 90 degrees by pushing it inwards. It's simpler to rock back in your chair with a tilttension knob beneath the seat. • Back and thick molded foam seat with fabric material gives excellent support while also preventing heat and moisture build-up, keeping your entire body cool and comfortable • Size: • Product Dimensions: 60D x 60W x 109H Centimeters • Technical Specifications : Armrest: Fibre material Swivel: 360° swivel Wheels: 50mm wheels Base: Metal BIFMA Standards Mandatory 	60	Each	Remarks

Sl. No	Particular of items	Quantity	Unit	Remarks
5	Conference Table : Conference table size 4200 x 1500 x 740 with 25mm top action , Mingle Utilized PLT Table of approved Brand Godrej and Equivalent.	1	Each	
6	Sharing table size 1500x900mm with 25mm top action , pre-laminated practical board with 50x50mm powder coated ms legs with 2 pcs flip box BIFMA Standards Mandatory, Site Visit is Mandatory	3	Each	

Signature of the bidder / Authorized Signatory (Name & Designation)

Seal of the bidder

Place :

Date :