

**SHAHEED BENAZIR BHUTTO UNIVERSITY
SHERINGAL DIR UPPER KHYBER
PAKHTUNKHWA, PAKISTAN**

- **ITEM: -** PROVISION OF ICT INFRASTRUCTURE
(INTERNET SYSTEM) AND ALLIED
FACILITIES/WORKS
- **PROJECT NAME: -** DEVELOPMENT OF UNIVERSITY OF DIR
SHERINGAL
- **SPONSORING AGENCY: -** HIGHER EDUCATION COMMISSION
ISLAMABAD
- **FUNDING AGENCY: -** PLANNING COMMISSION, GOP

BIDDING DOCUMENTS

INVITATION TO BID
INSTRUCTIONS TO BIDDERS/BIDDING DATA
FORM OF BID & SCHEDULES TO BID
CONDITIONS OF THE CONTRACT
SPECIFICATIONS (TECHNICAL PROVISIONS)
PREAMBLE, BILL OF QUANTITIES
DRAWINGS



**CONVENER PURCHASE COMMITTEE
SHAHEED BENAZIR BHUTTO UNIVERSITY
SHERINGAL DIR UPPER**

Seal and Signature of Bidder M/S_____

CHECK LIST

FOR PREPARATION AND SUBMISSION

OF BIDDING DOCUMENTS

SINGLE STAGE TWO ENVELOP BIDDING

Seal and Signature of Bidder M/S_____

Check List

Preparation and Submission of Bidding Documents

Single Stage Two Envelop Bidding

Ser	Description	Remarks
1.	Have you carefully studied and signed each page of the bidding document?	Yes / No
2.	Do you certify that Bid Documents have been downloaded from website by yourself?	Yes / No
3.	Are you eligible to participate in bidding as per NIT and IB-3, PEC Registration No. _____ Category C- _____ Valid upto _____.	Yes / No
4.	Have you visited the site, got requisite information in respect of bid, and submitted the bid for complete scope of work?	Yes / No
5.	Have you submitted Qualification Documents and Technical Proposal in separate envelop as per ITB.	Yes / No
6.	Have you submitted Financial Bid in separate envelop as per ITB.	Yes / No
7.	Have you put the both envelops (i-e Technical and Financial) in one envelop, sealed, stamped signed the top as per PPRA Rules, Bid Documents?	Yes / No
8.	Have you attached Bid Security (Original) to Financial Bid and attached certificate of availability in Technical Bid as ITB?	Yes / No
9.	Do you know that your bid shall be valid for 120 days?	Yes / No
10.	Have you properly filled Rates in specified space of Bill of Quantities, keeping in view Bidding documents (NIT, ITB, Preamble of BoQ, Conditions of the Contract, Drawings, and Specifications?	Yes / No
11.	Do you know that items, quantities of BoQ can be increased, decrease and even deleted during execution and performance of the Contract?	Yes / No
12.	Shall you provide Performance Bond if Contract is awarded to your firm?	Yes / No
13.	Do you know that time for completion of entire works under this bid is as mentioned in NIT?	Yes / No
14.	Do you certify that you shall complete the entire works, remedy therein defects in accordance to the BoQ, Specifications, drawings, appendices and Conditions of the Contract in the stipulated time?	Yes / No
15.	Have you REVISITED University's website on the second last day of submission of bid for updating yourself in respect of bidding?	Yes / No

Seal and Signature of Bidder M/S _____

TABLE OF CONTENTS
(ToC)

Seal and Signature of Bidder M/S_____

TABLE OF CONTENTS

Bidding Documents

Ser	Description	Remarks
1.	Check list for preparation of bid.	
2.	Table of Contents (ToC)	
3.	Invitation for Bids (NIT)	
4.	Instruction to Bidders (ITB)	
5.	Bidding Data (BD)	
6.	Forms of Bid (FoB)	
7.	Preamble to BoQ, Summary of BoQ, Detailed BoQ	
8.	Appendices to bid	
9.	Standard Forms	
10.	Conditions of the Contract	
11.	Contract Data	
12.	Drawing/Sketch	
13.	Misc. Formats	

Seal and Signature of Bidder M/S_____

INVITATION TO BID

Seal and Signature of Bidder M/S_____



**SHAHEED BB UNIVERSITY,
SHERINGAL, DIR UPPER
Adv No. Sbbu/adv/22-**



INVITATION TO BID

1. Shaheed BB University Sheringal, Dir Upper (The Employer) invites sealed bids from the eligible firms or persons duly registered with FBR/Tax departments for the “Provision of ICT infrastructure (internet system) and allied facilities/works” at Shaheed BB University Sheringal, Dir Upper”, which shall be completed in three months.
2. A complete set of Bidding Documents may be downloaded from the Shaheed BB University Sheringal, Dir Upper official Website by the interested eligible Bidders free of cost.
3. All bids must be accompanied by a Bid Security in the amount, equal to 2% of the total bid cost in the shape of deposit at call or Bank guarantee and must be delivered on the following address on or before 11/05 /2022 (1100 hours) and shall be opened by the Bid Evaluation Committee at 11:30 hours of the same day in the presence of Bidder’s representatives who choose to attend, at the Committee Room, Guest House of Shaheed BB University Sheringal, Dir Upper.

Convener Purchase Committee
SBBU, Sheringal, Dir Upper

Seal and Signature of Bidder M/S_____

INSTRUCTIONS TO BIDDERS

(ITB)

Seal and Signature of Bidder M/S_____

TABLE OF CONTENTS (ToC)
INSTRUCTIONS TO BIDDERS (ITB)

A. GENERAL

- ITB.1 Scope of Bid
- ITB.2 Source of Funds
- ITB.3 Eligible Bidders
- ITB.4 One Bid per Bidder
- ITB.5 Cost of Bidding
- ITB.6 Site Visit

B. BIDDING DOCUMENTS

- ITB.7 Contents of Bidding Documents
- ITB.8 Clarification of Bidding Documents
- ITB.9 Amendment of Bidding Documents

C. PREPARATION OF BIDS

- ITB.10 Language of Bid
- ITB.11 Documents Accompanying the Bid
- ITB.12 Bid Prices
- ITB.13 Currencies of Bid and Payment
- ITB.14 Bid Validity
- ITB.15 Bid Security
- ITB.16 Alternate Proposals by Bidder
- ITB.17 Pre-Bid Meeting
- ITB.18 Format and Signing of Bid

D. SUBMISSION OF BIDS

- ITB.19 Sealing and Marking of Bids
- ITB.20 Deadline for Submission of Bids
- ITB.21 Late Bids
- ITB.22 Modification, Substitution and Withdrawal of Bids

E. BID OPENING AND EVALUATION

- ITB.23 Bid Opening
- ITB.24 Process to be Confidential
- ITB.25 Clarification of Bids
- ITB.26 Examination of Bids and Determination of Responsiveness
- ITB.27 Correction of Errors
- ITB.28 Evaluation and Comparison of Bids

F. AWARD OF CONTRACT

- ITB.29 Award
- ITB.30 Employer's Right to Accept any Bid and to Reject any or all Bids
- ITB.31 Notification of Award
- ITB.32 Performance Security
- ITB.33 Signing of Contract Agreement
- ITB.34 General Performance of the Bidders
- ITB.35 Integrity Pact
- ITB.36 Instructions not Part of Contract

Seal and Signature of Bidder M/S_____

INSTRUCTIONS TO BIDDERS (ITB)

(Note: These **Instructions to Bidders (ITB)** along with **Bidding Data (BD)** will not be part of the Contract and will cease to have effect once the contract is signed.)

A. GENERAL

ITB.1 Scope of Bid

- 1.1 The Employer as defined in the **Bidding Data** hereinafter called “the **Employer**” wishes to receive bids for the construction and completion of works as described in these Bidding Documents, and summarized in the **Bidding Data** hereinafter referred to as the “**Works**”.
- 1.2 The successful bidder will be expected to complete the Works within the time specified in Appendix-A to Bid.
- 1.3 Bidders must quote for the complete scope of work. Any Bid covering partial scope of work will be rejected as non-responsive.

ITB.2 Source of Funds

- 2.1 The Employer has applied for/received a loan/credit from the source (s) indicated in the **Bidding Data** in various currencies towards the cost of the project specified in the **Bidding Data** and it is intended that part of the proceeds of this loan/credit will be applied to eligible payments under the Contract for which these Bidding Documents are issued.

ITB.3 Eligible Bidders

- 3.1 This Invitation for Bids is open to all bidders meeting the following requirements:
 - a. Duly Registered with FBR.

ITB.4 One Bid per Bidder

- 4.1 Each bidder shall submit only one bid either by himself, or as a partner in a joint venture. A bidder who submits or participates in more than one bid (other than alternatives pursuant to Clause ITB.16) will be disqualified.

ITB.5 Cost of Bidding

- 5.1 The bidders shall bear all costs associated with the preparation and submission of their respective bids and the Employer will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

ITB.6 Site Visit

- a) The bidders are advised to visit and examine the Site of Works and its surroundings and obtain for themselves on their own responsibility all information that may be necessary for preparing the bid and entering into a contract for construction of the Works. All cost in this respect shall be at the bidder’s own expense.

Seal and Signature of Bidder M/S_____

- b) The bidders and any of their personnel or agents will be granted permission by the Employer to enter upon his premises and lands for the purpose of such inspection, but only upon the express condition that the bidders, their personnel and agents, will release and indemnify the Employer, his personnel and agents from and against all liability in respect thereof and will be responsible for death or personal injury, loss of or damage to property and any other loss, damage, costs and expenses incurred as a result of such inspection.
- c) The Bidder or his authorized representative shall visit & inspect the Site of the Works including the areas & surroundings to be used for Contractor's Camp, on his own responsibility & at his own expense, & obtain all the information from his own sources, which may be necessary for preparing the Bid. The Employer may assist but will not take any responsibility for the supply or correctness of the information.
- d) The Bidder shall, before submitting his Bid, satisfy himself in all respects including the following:-
 - I. The existing facilities in the vicinity of the Site of Work, the hydrological & climatologically conditions, the form & the nature of the Site of Work.
 - II. The quantities & nature of the work & materials necessary for completion of the Works.
 - III. The means of access to the Site of the Work & exit from the Site.
 - IV. The available accommodation on land for Contractor's Camp within or outside the Site of Work.
 - V. All necessary information as to risks, contingencies & other circumstances which may influence or affect the bid.
 - VI. The type & nature of soil existing in area of work
 - VII. The existing conditions of Site.
- e) Each Bidder shall also enquire & satisfy himself as to the source, the quantity of supply, sufficiency of & the means of obtaining & transporting all plant, material, labor, fuel, water, electricity & other matters or things required for in connection with the works.
- f) In preparing the bid, bidders shall also consider his obligation to adequately store all materials & maintain existing facilities & all temporary works during the period of their usage.
- g) The Bidder must make local inquires as to the physical conditions prevailing at the Site & obtain his own information on all matters & things that may in any way influence him in making a Bid & fixing the rates in the Bill of Quantities. He must also satisfy himself as to the risks, obligations & responsibilities to be undertaken in accordance to the Contract to be entered into by him should his Bid be accepted.
- h) The Bidder shall make his own investigations, enquiries & assessments, on all matters, of all conditions of existing constructions at the site & its vicinity to his satisfaction before submitting his Bid.
- i) High quality of ethics shall be observed by the contractor, its representatives, and labour staff being university. The contractor shall ensure avoidance human nuisance upto possible extent.

B. BIDDING DOCUMENTS

ITB.7 Contents of Bidding Documents

- 7.1 The Bidding Documents, in addition to invitation for bids, are those stated below and should be read in conjunction with any Addenda issued in accordance with Clause ITB.9.
 - i. Instructions to Bidders (ITB).
 - ii. Bidding Data (BD).
 - iii. General Conditions of Contract, (GCC).

Seal and Signature of Bidder M/S_____

- iv. Contract Data, (PCC).
- v. Form of Bid & Appendices to Bid.
- vi. Bill of Quantities (Appendix-D to Bid).
- vii. Form of Bid Security
- viii. Form of Contract Agreement.
- ix. Forms of Performance Security and Mobilization Advance Guarantee/Bonds etc.
- x. Drawings.

7.2 The bidders are expected to examine carefully the contents of all the above documents. Failure to comply with the requirements of bid submission will be at the Bidder's own risk. Pursuant to Clause ITB.26, bids which are not substantially responsive to the requirements of the Bidding Documents will be rejected.

ITB.8 Clarification of Bidding Documents

- 8.1 Any prospective bidder requiring any clarification (s) in respect of the Bidding Documents may notify the Employer in writing at the Employer's address indicated in the Invitation for Bids.
- 8.2 The Engineer/Employer will respond to any request for clarification which it receives earlier than seven (07) days prior to the deadline for the submission of Bids. Copies of the Engineer/Employer's response will be uploaded on official website of university including a description of the enquiry but without identifying its source.

ITB.9 Amendment of Bidding Documents

- 9.1 At any time prior to the deadline for submission of bids, the Employer may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective bidder, modify the Bidding Documents by issuing addendum.
- 9.2 Any addendum thus issued shall be part of the Bidding Documents pursuant to Sub-Clause 7.1 hereof, and shall be uploaded on official website of university. Prospective bidders should visit University website before submission of bid (i-e second last day/date of submission of bids).
- 9.3 To afford prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer may extend the deadline for submission of bids in accordance with Clause ITB.20.

C. PREPARATION OF BIDS

ITB.10 Language of Bid

- 10.1 The bid prepared by the bidder, all correspondence and documents relating to the Bid, exchanged by the bidder & the Employer shall be written in the English language, provided that any printed literature furnished by the bidder may be written in another language so long as accompanied by an English translation of its pertinent passages in which case, for purposes of interpretation of the Bid, the English translation shall govern.

Seal and Signature of Bidder M/S_____

ITB.11 Documents Accompanying the Bid

11.1 The bid prepared by the bidder shall comprise the following components:

(A) Qualification Documents (Technical Proposal) shall comprise;

- i. Company profile (showing origin, head office, branches, vision, mission, management, directors, personals, and other necessary information);
- ii. Written power of attorney authorizing the signatory of the bid to act for and on behalf of the Bidder as per format provided in the bidding documents;
- iii. Evidence of access to financial resources along with average annual construction turnover;
- iv. Financial predictions for the current year and the two following years including the effect of known commitments;
- v. Current litigation information;
- vi. Availability of Bank Credit line;
- vii. Availability of critical equipment;
- viii. Bank Statements and financial statements /Audit Reports duly audited by chartered accountants upto the C.F.Y;
- ix. Experience record regarding in hand and previous contracts;
- x. Personal, Financial, Equipment capability;
- xi. Status of enlistment with other Govt. Organizations;
- xii. Joint Venture Agreement (if applicable).
- xiii. Affidavit as the firm is eligible to participate in the bidding and is not black listed.
- xiv. Copy of registration with Federal Board of Revenue.
- xv. Certificate that *Bid Security* has been attached to the financial proposal without showing the amount of bid security.
- xvi. Furnish a technical proposal taking into account the various Appendices to Bid specially, Proposed Construction Schedule, Method of Performing the Work, List of Major Equipment, Organization Chart for Supervisory Staff and other pertinent information such as mobilization programme etc.;

Note: - format for preparation abovementioned documents is available on PEC website (Pre-qualification of constructors).

(B) Financial Proposal

- a. Dully filled-in Form of Bid and Bill of Quantities along with complete set of bidding documents prescribed in sub-clause 4.1;
- b. Original Bid Security;

11.2 Bids submitted by a joint venture of two (2) or more firms shall comply with the following requirements:

- (a) the bid and in case of a successful bid, the Form of Contract Agreement shall be signed so as to be legally binding on all partners;
- (b) one of the joint venture partners shall be nominated as being in charge; and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the joint venture partners;
- (c) the partner-in-charge shall always be duly authorized to deal with the Employer regarding all matters related with and/or incidental to the execution of Works as per

Seal and Signature of Bidder M/S_____

- the terms and Conditions of Contract and in this regard to incur any and all liabilities, receive instructions, give binding undertakings and receive payments on behalf of the joint venture;
- (d) all partners of the joint venture shall at all times and under all circumstances be liable jointly and severally for the execution of the Contract in accordance with the Contract terms and a statement to this effect shall be included in the authorization mentioned under Sub-Para(b) above as well as in the Form of Bid and in the Form of Contract Agreement (in case of a successful bid); and
 - (e) a copy of the agreement entered into by the joint venture partners shall be submitted with the bid stating the conditions under which it will function, its period of duration, the persons authorized to represent and obligate it and which persons will be directly responsible for due performance of the Contract and can give valid receipts on behalf of the joint venture, the proportionate participation of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. No amendments/modifications whatsoever in the joint venture agreement shall be agreed to between the joint venture partners without prior written consent of the Employer.
- 11.3 Bidders shall also submit proposals of work methods and schedule, in sufficient detail to demonstrate the adequacy of the Bidders' proposals to meet the technical specifications and the completion time referred to in Sub-Clause 1.2 hereof.

ITB.12 Bid Prices

- 12.1 Unless stated otherwise in the Bidding Documents, the Contract shall be for the whole of the Works as described in Sub-Clause 1.1 hereof, based on the unit rates and / or prices submitted by the bidder.
- 12.2 The bidders shall fill in rates and prices for all items of the Works described in the Bill of Quantities keeping in view the invitation for bids, instruction to bidder, bidding data, appendices, BoQ alongwith preamble, conditions of the contract, specifications and drawings etc. Items against which no rate or price is entered by a bidder will not be paid for by the Employer when executed and shall be deemed covered by rates and prices for other items in the Bill of Quantities.
- 12.3 All duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, as on the date 28 days prior to the deadline for submission of bids shall be included in the rates and prices and the total Bid Price submitted by a bidder.
- 12.4 The prices/rates & correspondence amounts, quoted by the bidder shall remain fixed during the bidder's performance of the Contract and shall not subject to variation on any account.

ITB.13 Currencies of Bid and Payment

- 13.1 The unit rates and the prices shall be quoted by the bidder entirely in Pak Rupees.

ITB.14 Bid Validity

- 14.1 Bids shall remain valid for the period stipulated in the **Bidding Data** after the Date of Bid Opening specified in Clause ITB.23.

Seal and Signature of Bidder M/S_____

- 14.2 In exceptional circumstances, prior to expiry of the original bid validity period, the Employer may request that the bidders extend the period of validity for a specified additional period which shall in no case be more than the original bid validity period. The request and the responses thereto shall be made in writing. A bidder may refuse the request without forfeiting his Bid Security. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his Bid Security for the period of the extension, and in compliance with Clause ITB.15 in all respects.

ITB.15 Bid Security

- 15.1 Each bidder shall furnish, as part of his bid, a Bid Security in the amount stipulated in the **Bidding Data** in Pak Rupees or an equivalent amount in a freely convertible currency.
- 15.2 The Bid Security shall be, at the option of the bidder, in the form of Deposit at Call or a Bank Guarantee issued by a Scheduled Bank in Pakistan or from a foreign bank duly counter guaranteed by a Scheduled Bank in Pakistan or an insurance company having at least AA rating from PACRA/JCR in favour of the Employer valid for a period 28 days beyond the Bid Validity date.
- 15.3 Any bid not accompanied by an acceptable Bid Security shall be rejected by the Employer as non-responsive.
- 15.4 The bid securities of unsuccessful bidders will be returned as promptly as possible, but not later than 28 days after the expiration of the period of Bid Validity.
- 15.5 The Bid Security of the successful bidder will be returned when the bidder has furnished the required Performance Security and signed the Contract Agreement.
- 15.6 The Bid Security may be forfeited:
- (a) If the bidder withdraws his bid except as provided in Sub-Clause 22.1;
 - (b) If the bidder does not accept the correction of his Bid Price pursuant to Sub-Clause 27.2 hereof; or
 - (c) In the case of successful bidder, if he fails within the specified time limit to:
 - (i) Furnish the required Performance Security; or
 - (ii) Sign the Contract Agreement.

ITB.16 Alternate Proposals by Bidder

- 16.1 Should any bidder consider that he can offer any advantages to the Employer by a modification to the designs, specifications or other conditions, he may, in addition to his bid to be submitted in strict compliance with the Bidding Documents, submit any Alternate Proposal(s) containing (a) relevant design calculations; (b) technical specifications; (c) proposed construction methodology; and (d) any other relevant details / conditions, provided always that the total sum entered on the Form of Bid shall be that which represents complete compliance with the Bidding Documents.
- 16.2 Alternate Proposal(s), if any, of the lowest evaluated responsive bidder only may be considered by the Employer as the basis for the award of Contract to such bidder.

Seal and Signature of Bidder M/S_____

ITB.17 Pre-Bid Meeting

- 17.1 The Employer may, on his own motion or at the request of any prospective bidder(s), hold a pre-bid meeting to clarify issues and to answer any questions on matters related to the Bidding Documents. The date, time and venue of pre-bid meeting, if convened, is as stipulated in the **Bidding Data**. All prospective bidders or their authorized representatives shall be invited to attend such a pre-bid meeting.
- 17.2 The bidders are requested to submit questions, if any, in writing so as to reach the Employer not later than seven (7) days before the proposed pre-bid meeting.
- 17.3 Minutes of the pre-bid meeting, including the text of the questions raised and the replies given, will be transmitted without delay to all purchasers of the Bidding Documents. Any modification of the Bidding Documents listed in Sub-Clause 7.1 hereof which may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively through the issue of an Addendum pursuant to Clause ITB.9 and not through the minutes of the pre-bid meeting.
- 17.4 Absence at the pre-bid meeting will not be a cause for disqualification of a bidder.

ITB.18 Format and Signing of Bid

- 18.1 Bidders are particularly directed that the amount entered on the Form of Bid shall be for performing the Contract strictly in accordance with the Bidding Documents.
- 18.2 All appendices to Bid are to be properly completed and signed.
- 18.3 No alteration is to be made in the Form of Bid nor in the Appendices thereto except in filling up the blanks as directed. If any such alterations be made or if these instructions be not fully complied with, the bid may be rejected.
- 18.4 Each bidder shall prepare by filling out the forms completely and without alterations one (1) original and number of copies, specified in the **Bidding Data**, of the documents comprising the bid as described in Clause ITB.7 and clearly mark them "ORIGINAL" and "COPY" as appropriate. In the event of discrepancy between them, the original shall prevail.
- 18.5 The original and all copies of the bid shall be typed or written in indelible ink (in the case of copies, Photostats are also acceptable) and shall be signed by a person or persons duly authorized to sign on behalf of the bidder pursuant to Sub- Clause 11.1(a) hereof. All pages of the bid shall be initialed and stamped by the person or persons signing the bid.
- 18.6 The bid shall contain no alterations, omissions or additions, except to comply with instructions issued by the Employer, or as are necessary to correct errors made by the bidder, in which case such corrections shall be initialed by the person or persons signing the bid.

Seal and Signature of Bidder M/S_____

18.7 Bidders shall indicate in the space provided in the Form of Bid their full and proper addresses at which notices may be legally served on them and to which all correspondence in connection with their bids and the Contract is to be sent.

18.8 Bidders should retain a copy of the Bidding Documents as their file copy.

D. SUBMISSION OF BIDS

ITB.19 Sealing and Marking of Bids

19.1 Each bidder shall submit his bid as under:

- (a) ORIGINAL and each copy of the Bid shall be separately sealed and put in separate envelopes and marked as such.
- (b) The envelopes containing the ORIGINAL and copies will be put in one sealed envelope and addressed / identified as given in Sub- Clause 19.2 hereof.

19.2 The inner and outer envelopes shall:

- (a) be addressed to the Employer at the address provided in the **Bidding Data**;
- (b) bear the name and identification number of the contract as defined in the **Bidding Data**; and
- (c) provide a warning not to open before the time and date for bid opening, as specified in the **Bidding Data**.

19.3 In addition to the identification required in Sub- Clause 19.2 hereof, the inner envelope shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared "late" pursuant to Clause ITB.21

19.4 If the outer envelope is not sealed and marked as above, the Employer will assume no responsibility for the misplacement or premature opening of the Bid.

ITB.20 Deadline for Submission of Bids

- 20.1 (a) Bids must be received by the Employer at the address specified no later than the time and date stipulated in the **Bidding Data**.
- (b) Bids with charges payable will not be accepted, nor will arrangements be undertaken to collect the bids from any delivery point other than that specified above. Bidders shall bear all expenses incurred in the preparation and delivery of bids. No claims will be entertained for refund of such expenses.
- (c) Where delivery of a bid is by mail and the bidder wishes to receive an acknowledgment of receipt of such bid, he shall make a request for such acknowledgment in a separate letter attached to but not included in the sealed bid package.

Seal and Signature of Bidder M/S_____

(d) Upon request, acknowledgment of receipt of bids will be provided to those making delivery in person or by messenger.

20.2 The Employer may, at his discretion, extend the deadline for submission of bids by issuing an amendment in accordance with Clause ITB.9, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will thereafter be subject to the deadline as extended.

ITB.21 Late Bids

21.1 (a) Any bid received by the Employer after the deadline for submission of bids prescribed in Clause ITB.20 will be returned unopened to such bidder.

(b) Delays in the mail, delays of person in transit, or delivery of a bid to the wrong office shall not be accepted as an excuse for failure to deliver a bid at the proper place and time. It shall be the bidder's responsibility to determine the manner in which timely delivery of his bid will be accomplished either in person, by messenger or by mail.

ITB.22 Modification, Substitution and Withdrawal of Bids

22.1 Any bidder may modify, substitute or withdraw his bid after bid submission provided that the modification, substitution or written notice of withdrawal is received by the Employer prior to the deadline for submission of bids.

22.2 The modification, substitution, or notice for withdrawal of any bid shall be prepared, sealed, marked and delivered in accordance with the provisions of Clause ITB.19 with the outer and inner envelopes additionally marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL" as appropriate.

22.3 No bid may be modified by a bidder after the deadline for submission of bids except in accordance with Sub-Clauses 22.1 and 27.2.

22.4 Withdrawal of a bid during the interval between the deadline for submission of bids and the expiration of the period of bid validity specified in the Form of Bid may result in forfeiture of the Bid Security in pursuance to Clause ITB.15.

E. BID OPENING AND EVALUATION

ITB.23 Bid Opening

23.1 The Employer will open the bids, including withdrawals, substitution and modifications made pursuant to Clause ITB.22, in the presence of bidders' representatives who choose to attend, at the time, date and location stipulated in the **Bidding Data**. The bidders' representatives who are present shall sign a register evidencing their attendance.

23.2 Envelopes marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL" shall be opened and read out first. Bids for which an acceptable notice of withdrawal has been submitted pursuant to Clause ITB.22 shall not be opened.

Seal and Signature of Bidder M/S_____

- 23.3 The bidder's name, total Bid Price and price of any Alternate Proposal(s), any discounts, bid modifications, substitution and withdrawals, the presence or absence of Bid Security, and such other details as the Employer may consider appropriate, will be announced by the Employer at the opening of bids.
- 23.4 Employer shall prepare minutes of the bid opening, including the information disclosed to those present in accordance with the Sub-Clause 23.3.

ITB.24 Process to be Confidential

- 24.1 Information relating to the examination, clarification, evaluation and comparison of bid and recommendations for the award of a contract shall not be disclosed to bidders or any other person not officially concerned with such process before the announcement of bid evaluation report which shall be done at least ten (10) days prior to issue of Letter of Acceptance. The announcement to all Bidders will include table(s) comprising read out prices, discounted prices, price adjustments made, final evaluated prices and recommendations against all the bids evaluated. Any effort by a bidder to influence the Employer's processing of bids or award decisions may result in the rejection of such bidder's bid. Whereas any bidder feeling aggrieved may lodge a written complaint not later than fifteen (15) days after the announcement of the bid evaluation report; however mere fact of lodging a complaint shall not warrant suspension of the procurement process.

ITB.25 Clarification of Bids

- 25.1 To assist in the examination, evaluation and comparison of bids, the Employer may, at his discretion, ask any bidder for clarification of his bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing but no change in the price or substance of the bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the bids in accordance with Clause ITB.28.

ITB.26 Examination of Bids and Determination of Responsiveness

- 26.1 Prior to the detailed evaluation of bids, the Employer will determine whether each bid is substantially responsive to the requirements of the Bidding Documents.
- 26.2 A substantially responsive bid is one which;
- i. Meets the eligibility criteria;
 - ii. has been properly signed;
 - iii. is accompanied by the required Bid Security; and
 - iv. conforms to all the terms, conditions and specifications of the Bidding Documents, without material deviation or reservation.

A material deviation or reservation is one;

- i. which affect in any substantial way the scope, quality or performance of the Works;
- ii. which limits in any substantial way, inconsistent with the Bidding Documents, the Employer's rights or the bidder's obligations under the Contract; or
- iii. adoption/ rectification whereof would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

Seal and Signature of Bidder M/S_____

- 26.3 If a bid is not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation or reservation.

ITB.27 Correction of Errors

- 27.1 Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors will be corrected by the Employer as follows:
- (a) where there is a discrepancy between the amounts in figures and in words, the amount in words will govern; and
 - (b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern, unless in the opinion of the Employer there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line item total as quoted will govern and the unit rate will be corrected.
- 27.2 The amount stated in the Form of Bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and with the concurrence of the bidder, shall be considered as binding upon the bidder. If the bidder does not accept the corrected Bid Price, his Bid will be rejected, and the Bid Security shall be forfeited in accordance with Sub- Clause 15.6(b) hereof.

ITB.28 Evaluation and Comparison of Bids

- 28.1 The Employer will evaluate and compare only the Bids determined to be substantially responsive in accordance with Clause ITB.26.
- 28.2 In evaluating the Bids, the Employer will determine for each Bid the evaluated Bid Price by adjusting the Bid Price as follows:
- (a) making any correction for errors pursuant to Clause ITB.27;
 - (b) excluding Provisional Sums and the provision, if any, for contingencies in the Summary Bill of Quantities, but including competitively priced Daywork; and
 - (c) making an appropriate adjustment for any other acceptable variation or deviation.
- 28.3 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in Bid evaluation.
- 28.4 If the Bid of the successful bidder is seriously unbalanced in relation to the Employer's estimate of the cost of work to be performed under the Contract, the Employer may require the bidder to produce detailed price analyses for any or all items of the Bill of Quantities to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the Employer may require that the amount of the Performance Security set forth in Clause ITB.32 be increased at the expense of the successful bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful bidder under the Contract.

Seal and Signature of Bidder M/S_____

F. AWARD OF CONTRACT

ITB.29 Award

- 29.1 Subject to Clauses ITB.30 and ITB.34, the Employer will award the Contract to the bidder whose bid has been determined to be substantially responsive to the Bidding Documents and who has offered the lowest evaluated Bid Price, provided that such bidder has been determined to be eligible in accordance with the provisions of Clause ITB.3 and qualify pursuant to Sub-Clause ITB 29.2.
- 29.2 The Employer, at any stage of the bid evaluation, having credible reasons for or *prima facie* evidence of any defect in supplier's or contractor's capacities, may require the suppliers or contractors to provide information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not:

Provided that such qualification shall only be laid down after recording reasons therefor in writing. They shall form part of the records of that bid evaluation report.

ITB.30 Employer's Right to Accept any Bid and to Reject any or all Bids

- 30.1 Notwithstanding Clause ITB.29, the Employer reserves the right to accept or reject any Bid, and to annul the bidding process and reject all bids, at any time prior to award of Contract, without thereby incurring any liability to the affected bidders or any obligation except that the grounds for rejection of all bids shall upon request be communicated to any bidder who submitted a bid, without justification of grounds. Rejection of all bids shall be notified to all bidders promptly.

ITB.31 Notification of Award

- 31.1 Prior to expiration of the period of bid validity prescribed by the Employer, the Employer will notify the successful bidder in writing ("Letter of Acceptance") that his Bid has been accepted. This letter shall name the sum which the Employer will pay the Contractor in consideration of the execution and completion of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Conditions of Contract called the "Contract Price").
- 31.2 No Negotiation with the bidder having evaluated as lowest responsive or any other bidder shall be permitted, however, Employer may have clarification meetings to get clarify any item in the bid evaluation report.
- 31.3 The notification of award and its acceptance by the bidder will constitute the formation of the Contract, binding the Employer and the bidder till signing of the formal Contract Agreement.
- 31.3 Upon furnishing by the successful bidder of a Performance Security, the Employer will promptly notify the other bidders that their Bids have been unsuccessful and return their bid securities.

Seal and Signature of Bidder M/S_____

ITB.32 Performance Security

- 32.1 The successful bidder shall furnish to the Employer a Performance Security in the form and the amount stipulated in the **Bidding Data** and the Conditions of Contract within a period of 14 days after the receipt of Letter of Acceptance.
- 32.2 Failure of the successful bidder to comply with the requirements of Sub-Clause ITB.32.1 or Clauses ITB.33 or ITB.35 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security.

ITB.33 Signing of Contract Agreement

- 33.1 Within 14 days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the Employer will send the successful bidder the Contract Agreement in the form provided in the Bidding Documents, incorporating all agreements between the parties.
- 33.2 The formal Agreement between the Employer and the successful bidder shall be executed within 14 days of the receipt of the Contract Agreement by the successful bidder from the Employer.

ITB.34 General Performance of the Bidders

The Employer reserves the right to obtain information regarding performance of the bidders on their previously awarded contracts/works. The Employer may in case of consistent poor performance of any Bidder as reported by the employers of the previously awarded contracts, interalia, reject his bid and/or refer the case to the Pakistan Engineering Council (PEC) or competent forums of the University. Upon such reference, PEC in accordance with its rules, procedures and relevant laws of the land take such action as may be deemed appropriate under the circumstances of the case including black listing of such Bidder and debarring him from participation in future bidding for similar works.

ITB.35 Integrity Pact

The Bidder shall sign and stamp the Integrity Pact provided at Appendix-L to Bid in the Bidding Documents for all Federal Government procurement contracts exceeding Rupees ten million. Failure to provide such Integrity Pact shall make the bidder non-responsive.

ITB.36 Instructions not Part of Contract

Bids shall be prepared and submitted in accordance with these Instructions which are provided to assist bidders in preparing their bids, and do not constitute part of the Bid or the Contract Documents.

Seal and Signature of Bidder M/S_____

**TABLE OF CONTENTS
BIDDING DATA (BD)**

A. GENERAL

- BD.1 Scope of Bid
- BD.2 Source of Funds
- BD.3 Eligible Bidders
- BD.4 One Bid per Bidder
- BD.6 Site Visit

B. BIDDING DOCUMENTS

- BD.8 Clarification of Bidding Document
- BD.9 Amendment of bid documents

C. PREPARATION OF BIDS

- BD.10 Language of Bid
- BD.11 Documents Accompanying the Bid
- BD.12 Bid Price
- BD.13 Currency of Bid and Payment
- BD.14 Bid Validity
- BD.15 Bid Security
- BD.16 Alternate Proposal by the Bidder
- BD.17 Pre-Bid meeting
- BD.18 Format and Signing of Bid

D. SUBMISSION OF BIDS

- BD.19 Sealing & Marking of Bids
- BD.20 Deadline for Submission of Bids

E. BID OPENING AND EVALUATION

- BD.23 Bid Opening
- BD.26 Examination of Bids and Determination of Responsiveness;
- BD.27 Correction of Errors
- BD.28 Evaluation and Comparison of Bids

F. AWARD OF CONTRACT

- BD.32 Performance Security
- BD.37 New Sub-Clauses

Seal and Signature of Bidder M/S_____

BIDDING DATA (BD)

The following specific data for the Supplies/Works/Services to be bided shall complement, amend, or supplement the provisions in the Instructions to Bidders (ITB). Wherever there is a conflict, the provisions herein shall prevail over those in the Instructions to Bidders (ITB).

BD.1 Scope of Bid

1.1 Name and address of the Employer:

*The Vice Chancellor
Shaheed Benazir Bhutto University
Sheringal, Dir Upper*

1.2 Name of the Project/Work:

"Provision of ICT infrastructure (internet system) and allied facilities/works"" at Shaheed Benazir Bhutto University, Sheringal Dir Upper under the new developmental project.

BD.2 Source of Funds:

2.1 PC-1 of the project has been approved by Govt. of Pakistan and shall allocate funds under its annual PSDP. The employer used to receive funds from HEC Govt. of Pakistan.

7.1.a Envelop-1 (Technical Bid/Proposal)

Shall contain all documents mentioned in clause 11;

7.1.b Envelop-2 (Priced Bid/Financial Proposal)

Bidding documents shall contain Priced Bid (Priced BOQ along with Preamble), (Attach Bid Security i.e. CDR etc.), letter of transmittal etc.

BD.8 Clarification of Bidding Document:

Regarding 2nd paragraph about response by the employer the read BD.9 as below.

BD.9 Amendment of bid documents:

*Refer to BD-8 and BD0-9 the following is added;
Clarification and amendment of bid documents, if any, shall be uploaded on the official website of the Shaheed Benazir Bhutto University, Sheringal. Bidders are required to review university website one day prior to last date of submission of bid for the said purpose.*

BD.10 Language of Bid:

10.1 All communication relating to bid shall be in English Language.

BD.14 Bid Validity

14.1 Bids shall remain valid for the period of 120 days after the date of opening of bids.

Seal and Signature of Bidder M/S_____

BD.15 Bid Security

- 15.1 *Amount of Bid security shall be equal to 2% of the quoted cost, bid price.*
- 15.2 *The Bid Security shall be, at the option of the bidder, a bank's instrument in the form of CDR (Call Deposit Receipt), SDR (Security Deposit Receipt), Pay Order, Demand Draft, Bank Draft or Banker's Cheque (Cheque issued by Bank) of Scheduled Bank in Pakistan or from a foreign bank duly counter guaranteed by a Scheduled Bank in Pakistan in favor of the Employer valid for a period 28 days beyond the Bid Validity date.*
- 15.4 *The bid securities of unsuccessful bidders will be returned upon submission of written request of the bidders to the employer, after uploading of the bid evaluation report in the official website of Shaheed BB University Sheringal Dir Upper, but not later than 30 days after the expiration of the period of Bid Validity.*

BD.17 Pre-Bid meeting

- 17.1 *No pre-bid meeting shall be held. The bidders shall have to submit their queries, if any, in writing at the employer address, (7) seven day prior to opening of bids, necessary action/amendment, if deemed required/suitable by the employer, shall be uploaded on university website by the employer, hence the bidder has to visit university website on second last day (one day prior) of submission of bids.*

BD.18 Format and Signing of Bid

- 18.4 *Each bidder shall prepare by filling out the forms completely and without alterations one (1) original documents comprising the bid as described in Clause IB.7 and clearly mark them "ORIGINAL".*
- 18.5 *Format of power of attorney is provided in the bidding documents.*

BD.19 Sealing & Marking of Bids

- 19.1 *Employer's address for the purpose of Bid submission:*
As shown in the Notice Inviting Tenders (NIT) / Invitation for Bid.

BD.20 Deadline for Submission of Bids

- 20.1 *As shown in the Notice Inviting Tenders (NIT) / Invitation for Bid.*

BD.23 Bid Opening

- 23.1 *As shown in the Notice Inviting Tenders (NIT) / Invitation for Bid.*

BD.26 Examination of Bids and Determination of Responsiveness;

- (a) *The Employer will examine the Bids to determine whether;*
- i. *the bid is complete and does not deviate from the scope,*
 - ii. *any computational error have been made,*
 - iii. *required bid securities have been furnished,*
 - iv. *The Bid is valid till required period,*
 - v. *The Bid Prices are firm during currency of the contract,*
 - vi. *The documents have been properly signed by the Person, mentioned in Form-H/ Partnership deed.*
 - vii. *Completion period offered is within specified limits,*
 - viii. *The bidder is eligible to bid and possess requisite experience,*

Seal and Signature of Bidder M/S_____

- ix. conforms to all the terms, conditions and specifications of the Bidding Documents, without material deviation or reservation,
- x. The Bids are generally in order.

(b) A bid will not be considered, if;

- i. it is unsigned,
- ii. its validity is less than specified,
- iii. indicate completion period later than specified,
- iv. it is not accompanied with bid security,
- v. it is submitted by a bidder who has participated in more than one bid,
- vi. it is received after the deadline for submission of bids,
- vii. it is submitted through fax, telex, telegram or email,
- viii. it indicates that prices quote are not firm during performance of the contract,
- ix. the bidder refuses to accept arithmetic correction (s)
- x. The submitted bid is conditional,
- xi. It limits the bidder's obligation in any way under the contract
- xii. It is materially and substantially different from the conditions and specifications of the bidding documents.

BD.28 Evaluation and Comparison of Bids

28.1 Bid Opening & Evaluation Committee shall evaluate the bids, in the following two stages as given in these documents and eligibility criteria (refer ITB.26) for qualification of bidders which shall be determined in accordance to criteria set herein below from the documents submitted by the bidders, prescribed in BD-11(A). Bidder scoring 60% (sixty percent) and above marks shall be declared as pass/technically qualified.

Criteria for Qualification of bidders shall be as;

1.Experience

Credit Marks (score) for experience shall be awarded on the basis of following qualifications:

Sr. #	Description	Detailing	Weightage
i)	Projects of similar nature and complexity completed over last 10 years (minimum 5.000 millions each).	5 marks/each project	20
ii)	Projects of similar nature and complexity in hand (minimum 5.000 millions each).	5 marks /each project	10
iii)	Experience of Works related to this bid but not basic Part of bid.	1 mark/ each project	5
iv)	Status of enlistment with Government Organizations and other agencies.	1 mark/ each Deptt.	5
	Sub-total:		40

Seal and Signature of Bidder M/S_____

2. Personnel Capabilities

Credit Marks shall be awarded under this category using the following criteria:

Sr. #	Description	Detailing	Weightage
i)	Graduates in employment of the firm in relevant field. a) Number b) Experience (in number of years)	01 Nos. 05 years/each	6 3
ii)	DAE/Certificate holders in Employment of the Firm in relevant field. a) Number b) Experience (in number of Years)	02 Nos. 05 years/each	4 2
Sub-total:			15

3. Financial Position

Credit Marks shall be awarded on the basis of the following criteria:

Ser. #	Description	Detailing	Weightage
i)	Available Bank Credit Line	1 Marks/ 1 Million	5
ii)	Working Capital in last 3 years.	1 Marks/ 1 Million	5
iii)	Registration with Income Tax Department	Yes=5	5
iv)	Litigation History where decision went against the Firm (Original)	No=5	5
v)	Blacklisting from any Agency (Original)	No=5	5
Sub-total:			25

Credit Marks shall be awarded on the basis of the following criteria:

Note: - The Employer may relax the Financial Limit required in above referred criteria, if deem necessary in the interest of Project.

The firms shall provide the successful stories of work/services provided to other universities in Pakistan, which shall be verified by the SBBU.

For Joint Venture (JV), award of credit marks criteria shall be as under:

- (i) The lead partner shall meet not less than 40% of all qualifying criteria.
- (ii) Each of the partners shall meet not less than 25% of all the qualifying criteria.
- (iii) The joint venture must collectively satisfy the criteria for which purpose the relevant figures for each of the partners shall be added together to arrive at the JV's total capacity.
- (iv) Any change in a prequalified JV after prequalification, shall be subject to the written approval of the Employer prior to the deadline for submission of bids. Such approvals may be denied if:
 - a. Partner(s) withdraw from a JV and remaining partners do not meet the qualifying requirements.
 - b. The new partners to JV are not qualified individually or as another JV; or
 - c. In the opinion of the Employer, a substantial reduction in competition would result, and

Seal and Signature of Bidder M/S_____

- d. Bid shall be signed by all members in the JV so as to legally bind all partners, jointly and severally, and any bid shall be submitted with a copy of the JV agreement providing the joint and several liabilities with respect to the contract.
- e. The prequalification of a JV does not necessarily prequalify any of the partners individually or as a partner in any other JV or association. In case of dissolution of a JV, each one of the constituent firms may prequalify if they meet all the prequalification requirements and any partner of JV has requested/ shall request for the same and then his prequalification shall be subject to the written approval of the Employer.

(B) Envelop -II (Financial Proposal);

Financial proposals of only Eligible, Qualified/Technically Responsive bidders opened by the bid opening committee shall be placed for evaluation by following steps mentioned under clause ITB-26 and BD.26.

BD.28.3 it was clarified under Sub-Clause BD.12.4 the bid/contract is not subject to price adjustment.

BD.29 Award

Add the following at the end of Para 29.1.

The employer if found that the bid of two or more lowest are the same then the decision of successful bidder shall be made through toss as per practice in C&W department of KPK.

BD.32 Performance Security

- 32.1 The Performance Security on the standard form shall be submitted within 28 days of issuance of Letter of Acceptance and shall be equal to an amount of 10% of the Contract Price stated in the Letter of Acceptance valid up to Defect Liability Period of the project. Such Security shall be in the form of unconditional Bank Guarantee from any Scheduled Bank of Pakistan **or** in the form of Performance Bond/Security from Insurance Companies having Rating of AA+ rated by Credit Rating Companies approved by Security Exchange Commission of Pakistan (SECP) i.e. The Pakistan Credit Rating Agency Limited (PACRA) or JCR-VIS Credit Rating Company Limited.

BD.37 Add new Sub-Clauses as;

- 37.1 The successful bidder shall deposit an amount for or shall be deducted from the running bill of the contractor.
- 37.2 Contract Agreement, Performance Bond, Indemnity Bond, Integrity Pact, etc. shall be submitted by the successful bidder on the Non-Judicial Stamp Paper of minimum Rs 50/- each.
- 37.3 The Successful bidder upon award of contract and signing the contract shall arrange 06 (Six) copies of contract documents for the exclusive use of different sections of the employer, consultant and contractor.
- 37.4 The above specific data i-e Bidding data (BD) for the Works to be bided shall complement, amend, or supplement the provisions in the Instructions to Bidders (ITB). Wherever there is a conflict, the provisions herein above under bidding data (BD) shall prevail over those in the Instructions to Bidders (ITB).

Seal and Signature of Bidder M/S_____

FORM OF BID (LETTER OF OFFER)

To

The Convener Purchase Committee
 Shaheed Benazir Bhutto University,
 Sheringal, Dir Upper

Subject: Provision of ICT Infrastructure and allied facilities/works at Shaheed Benazir Bhutto University, Sheringal, Dir Upper

1. Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, Conditions of Contract (GCC/PCC), Specifications (Special, Technical), Drawings, Engineer's Estimate/BOQ along with preamble, and the site for the execution of the above-named Works, we, the undersigned, offer to execute and complete such Works and remedy any defects therein in conformity with the Conditions of the Contract, Specifications (Special, Technical), Drawings, and Bill of Quantities in the sum of Rs._____ (in figure) (Rupees in Words_____) as inserted in Summary of Estimates.
2. We understand that all the Appendices attached hereto form part of this Bid.
3. As security for due performance of the undertakings and obligations of this Bid, we submit herewith a Bid Security drawn in your favor or made payable to you and valid for a period of twenty eight (28) days beyond the period of validity of Bid.
4. We undertake, if our Bid is accepted, to commence the Works and to complete the whole of the Works comprised in the Contract within the time stated in Appendix-A to bid.
5. We agree to abide by this Bid for the period of 120 days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
6. Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.
7. We undertake, if our Bid is accepted, to execute the Performance Security referred to in Conditions of Contract for the due performance of the Contract.
8. We understand that you are not bound to accept the lowest or any bid you may received.
9. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other person or persons making a bid for the Works.

Dated this _____ day of _____, 2022

Signature in the capacity of _____duly authorized to sign bid for and on behalf of _____(Name of Bidder in Block Capitals) (Seal)

Witness:

Seal and Signature of Bidder M/S_____

FORM OF BID (LETTER OF TECHNICAL BID)

To

The Convener Purchase Committee
Shaheed Benazir Bhutto University,
Sheringal, Dir Upper

Subject: Provision of ICT Infrastructure and allied facilities/works at Shaheed Benazir Bhutto University, Sheringal, Dir Upper

We, the undersigned, declare that:

1. We have examined and have no reservations to the Bidding Documents, including Addenda_____ issued in accordance with Instructions to Bidders (ITB-9).
2. We offer to execute and complete in conformity with the Bidding Documents the bidding Works.
3. Our Bid consisting of the Technical Bid and the Price Bid shall be valid for a period of 120 days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
4. As security for due performance of the under takings and obligations of our bid, we submit here with a Bid security, in the amount specified in Bidding Data Sheet, which is valid (at least) 28 days beyond validity of Bid itself.
5. We are not participating, as a Bidder or as a subcontractor, in more than one bid in this bidding process.
6. We agree to permit Employer or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors. This permission is extended for verification of any information provided in our Technical Bid which comprises all documents enclosed herewith in accordance with IB.11 and Bidding Data.

Dated this _____ day of _____, 2022

Signature in the capacity of _____duly authorized to sign bid for and on behalf of _____(Name of Bidder in Block Capitals) (Seal)

Witness:

Seal and Signature of Bidder M/S_____

FORM OF BID (LETTER OF PRICE BID)

To

The Convener Purchase Committee
 Shaheed Benazir Bhutto University,
 Sheringal, Dir Upper

Subject: Provision of ICT Infrastructure and allied facilities/works at Shaheed Benazir Bhutto University, Sheringal, Dir Upper

We, the undersigned, declare that:

1. We have examined and have no reservations to the Bidding Documents, including Addenda_____ issued in accordance with Instructions to Bidders (ITB-9),
2. Our Bid Prices are as follows:
 - a. The Total Price of our Bid, excluding any discounts offered is: Rs. _____(in figure) Rupees._____ (in words).
 - b. The Discounts offered (if any) and the methodology for their application are: Rs. _____(in figure) Rupees._____ (in words)
 - c. Net / Discounted/ Total Bid Price: Rs. _____(in figure) Rupees._____ (in words).
3. Our Bid shall be valid for a period of 120 days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period,
4. If our Bid is accepted, we commit to obtain a performance security in accordance with the Bidding Documents,
5. We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed and we do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other bidder for the works,
6. We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive,
7. We agree to permit Employer or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors. This permission is extended for verification of any information provided in our Technical Bid which comprises all documents enclosed herewith in accordance with ITB.11.3 of the Bidding Data,
8. If awarded the contract, the person named below shall act as Contractor's Representative.

Dated this _____ day of _____, 2022

Signature in the capacity of _____duly authorized to sign bid for and on behalf of _____(Name of Bidder in Block Capitals) (Seal)

Witness:

Seal and Signature of Bidder M/S_____

Appendix-A to Bid

SPECIAL STIPULATIONS

Ser.	Description	Remarks/Clarification
1.	Amount of Performance Security	10% of Contract Price or as stated in the Letter of Acceptance.
2.	Time for Furnishing Program	Within 14 days from the date of receipt of Letter of Acceptance.
4.	Time for Commencement	Within 07 days from the date of receipt of Engineer's Notice to Commence which shall be issued within seven (7) days after signing of Contract Agreement or earlier if agreed.
5.	Time for Completion	03 months from the date of receipt of Engineer's Notice to Commence.
6.	Amount of Liquidated Damages	0.10% (one tenth of one percent) for each day of delay in completion of the Works subject to a maximum of 10% of Contract Price stated in the Letter of Acceptance.
7.	Defects Liability Period	12 months (i-e 364 days) from the effective date of Taking Over Certificate.
8.	Percentage of Retention Money	10 % of the amount of Interim Payment Certificate.
9.	Limit of Retention Money	10 % of the Contract Price stated in the Letter of Acceptance or value of work done (whichever is higher)
10.	Time of Payment from delivery of Engineer's Interim Payment Certificate to the Employer.	30 (thirty) days.

Seal and Signature of Bidder M/S_____

Appendix-E to Bid

PROPOSED SCHEDULE

Pursuant to the Conditions of Contract, the Works shall be completed on or before the date stated in Appendix-A to Bid (Engineer's Notice to Commence Work). The Bidder shall provide the Construction Schedule in the bar chart (CPM, PERT, M/S Project or Prima Vera) showing the sequence of work items and the period of time during which he proposes to complete each work item in such a manner that his proposed program for completion of the whole of the Works and parts of the Works may meet Employer's completion targets in days noted below and counted from the date of receipt of Engineer's Notice to Commence.

Note: - Sunday shall be the holyday, similarly gazette leaves shall be considered in schedule.

Description

Time for Completion

a) Mobilization at site _____ days

b)

-----be continued accordingly-----

Seal and Signature of Bidder M/S_____

Appendix-F to Bid

METHOD OF PERFORMING THE WORK

[The Bidder is required to submit a narrative outlining the method of performing the Work. The narrative should indicate in detail and include but not be limited to:

1. Organization Chart indicating head office and field office personnel involved in management and supervision, engineering, equipment maintenance and purchasing.
2. Mobilization in Pakistan, the type of facilities including personnel accommodation, office accommodation, provision for maintenance and for storage, communications, security and other services to be used.
3. The method of executing the Works, the procedures for installation of equipment and machinery and transportation of equipment and materials to the site.

Seal and Signature of Bidder M/S_____

Appendix-G to Bid

(INTEGRITY PACT)

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC.

PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH
10.00 MILLION OR MORE

Contract Value: _____ Contract Title: _____

..... [Name of Contractor/Supplier] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan (GoP) or any administrative subdivision or agency thereof or any other entity owned or controlled by GoP through any corrupt business practice.

Without limiting the generality of the foregoing, [name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant hereto.

[-----name of Contractor/Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[_____ name of Contractor/Supplier] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [name of Supplier] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.

Name of Buyer/Employer:

Name of Contractor/Seller:

Signature:

Signature:

[Seal]

[Seal]

Seal and Signature of Bidder M/S_____

MISC FORMS

Seal and Signature of Bidder M/S_____

FORM OF PERFORMANCE SECURITY

Guarantee No. _____

Executed on _____

Expiry date _____

[Letter by the Guarantor to the Employer]

Name of Guarantor (Bank) with address: _____

Name of Principal (Contractor) with address: _____

Penal Sum of Security (express in words and figures) _____

Letter of Acceptance No. _____ Dated _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bidding Documents and above said Letter of Acceptance (hereinafter called the Documents) and at the request of the said Principal we, the Guarantor above named, are held and firmly bound unto the _____ (hereinafter called the Employer) in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said Employer, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has accepted the Employer's above said Letter of Acceptance for _____ (Name of Contract) for the _____ (Name of Project).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Employer, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Clause 49, Defects Liability, of Conditions of Contract are fulfilled.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We, _____ (the Guarantor), waiving all objections and defenses under the Contract, do hereby irrevocably and independently guarantee to pay to the Employer without delay upon the Employer's first written demand without cavil or arguments and without requiring the Employer to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Employer's written declaration that the Principal has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to Employer's designated Bank & Account Number.

PROVIDED ALSO THAT the Employer shall be the sole and final judge for deciding whether the Principal (Contractor) has duly performed his obligations under the Contract or has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Employer forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above-bounden Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Guarantor (Bank/Insurance)

Witness:

1. Signature; Name Corporate Secretary (Seal) Title
2. Name, Title & Address Corporate Guarantor (Seal)

Seal and Signature of Bidder M/S _____

FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the _____ day of _____(month) 20____ between _____ (hereafter called the "Employer") of the one part and _____ (hereafter called the "Contractor") of the other part.

WHEREAS the Employer is desirous that certain Works, viz _____ should be executed by the Contractor and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW this Agreement witnesseth as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents after incorporating addenda, if any, except those parts relating to Instructions to Bidders shall be deemed to form and be read and construed as part of this Agreement, viz:
 - (a) The Contract Agreement;
 - (b) The Letter of Acceptance;
 - (c) The completed Form of Bid;
 - (d) Special Stipulations (Appendix-A to Bid);
 - (e) The Conditions of Contract, Contract Dada;
 - (f) The priced Bill of Quantities (Appendix-B to Bid);
 - (h) The completed Appendices to Bid (C, D, E etc.);
 - (i) The Drawings;
 - (j) The Specifications.
 - (k) _____ (any other)
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy defects therein in conformity and in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed on the day, month and year first before written in accordance with their respective laws.

Signature of the Contactor

Signature of Employer

(Seal)

(Seal)

Seal and Signature of Bidder M/S_____

INDEMNITY BOND FOR SECURED ADVANCE
AGAINST MATERIAL BROUGHT AT SITE

(ON RS. 100 NON-JUDICIAL STAMP PAPER)

THIS DEED OF INDEMNITY is issued by M/s. _____
 _____ (Name of the Contractor) in favour of
 M/s. _____ (Name of Employer)

WHEREAS _____ (hereinafter called Employer) has paid the Secured Advance against the cost of material through any Bank or like Agency by any other method by virtue of the terms of the Contract existing between the parties. The details of the material and their price for which Secured Advance is being sought for the period from _____ till consumption of the material is as under:

1. _____	at Rs. _____	Per _____	=Rs.
2. _____	at Rs. _____	Per _____	=Rs.
3. _____	at Rs. _____	Per _____	=Rs.
4. _____	at Rs. _____	Per _____	=Rs.

THEREFORE, THIS DEED OF INDEMNITY WITNESSETH AS FOLLOWS:-

I/We _____ of M/s. _____

do hereby indemnify M/s. _____ for all losses due to thefts, arson, pilferage, loss due to flood and inundation, shortages deterioration and depreciation etc. through any act of man or God or slump in the market, of, any or all the materials financed or paid by the Employer on our request for _____ financing payment against material.

I/We _____ shall indemnify _____ against any or all claims, action damages arising out of or resulting to the said material.

I/We _____ further declare that we will faithfully abide by the above declaration and solemnly affirm that we will not remove, sell, pilfer, damage any of the materials against which M/s. _____ has paid us such a secured advance and will not pledge the same with any Bank, Finance Corporation, Firm company, Individual or like the Agency or create any charge their on, in any form whatsoever.

I/We _____ do hereby also declare that in the event of my/our infringement of the declaration made above _____ will be entitled to forfeit all such material and also proceed against me/us according to the relevant clause pertaining to breach of contract and further invoke the power of seek any remedies secured of _____ under the Contract Agreement signed with us or otherwise available under law.

Place _____

Dated _____

Contractor _____

Seal and Signature of Bidder M/S _____

Shall be submitted by the bidder/contractor on non-judicial stamp paper of Rs. 100/- or above.

POWER OF ATTORNEY

BID NAME; “-_____”

KNOW ALL MEN BY THESE PRESENTS that the undersigned Mr. _____ S/O Mr. _____ CNIC.No. _____ - _____ - _____ address _____ owner of the Firm MS _____ (hereinafter called the bidder/contractor) does hereby appoint Mr. _____ S/O Mr. _____ CNIC No. _____ - _____ - _____ address _____, whose signature appears below, to be the true and lawful attorney, and authorized the said attorney to sign the bids, running bills, variation orders, collect cheques and execute all the necessary matters related thereto (other than those mentioned below), in the name and on behalf of the bidder/contractor in connection with the execution, completion and remedy therein any defect of the Contract for the “_____ at Shaheed BB University Sheringal, Dir Upper” as per bid/contract documents.

WHEREAS;

1. This power of attorney shall be considered and treated cancelled if so directed by the employer due to any reason (as per Conditions of the Contract).
2. This Power of attorney is revocable and can be terminated at any stage by the bidder/contractor.
3. The contract agreement and final bill shall not be signed by the attorney holder.
4. The attorney holder is not entitled to sue against the employer.
5. The attorney holder is not authorized to open bank account in his own name for receiving and depositing cheques from the employer in respect of above bid/contract.
6. The attorney is not authorized to terminate the contract.

AND WHEREAS; This power of attorney is not subletting of contract.

- Signature of the Owner of the Firm/Company (Bidder/Contractor): _____
- Name of the Owner of the Firm/Company (Bidder/Contractor): _____
- CNIC No of the Owner of the Firm/Company (Bidder/Contractor): _____
- Seal and Name of Firm/Company: M/S _____
- Signature of the Attorney: _____
- Name of the Attorney: _____
- CNIC No of the Attorney: _____

Witness-1.

Signature: _____
Name: _____
CNIC No: _____
Address: _____

Witness-II.

Signature: _____
Name: _____
CNIC No: _____
Address: _____

Dated on _____ day of _____ [date of signing]

Note: The Bidder should include such Power of Attorney in its bid in original, if he desired to appoint an attorney.

Seal and Signature of Bidder M/S _____

Shall be submitted by the bidder/contractor on non-judicial stamp paper of Rs. 100/- or above.

DECLARATION FOR SECURITY AND SECRECY AT SHAHEED BB UNIVERSITY

We the M/S_____ & Co. (the bidder/contractor) do hereby solemnly declare on oath that;

1. We shall abide the University Rules and Regulations in addition to responsibilities assigned to us under the contract,
 2. We shall not share the data, information, secrecy pertaining to the university as well as our contract, i-e drawings and other documents of the Project with irrelevant persons/ organizations,
 3. We shall hire only Pakistani labour of good character and not the foreigners, unless required for a particular job as per bid/contract (for which we shall submit request for prior approval of the Competent Authority of Shaheed BB University Sheringal, Dir Upper),
 4. We shall not involve in any political activity in the University premises against the University.
- Signature of the Owner of the Firm/Company (Bidder/Contractor):_____
 - Name of the Owner of the Firm/Company (Bidder/Contractor):_____
 - CNIC No of the Owner of the Firm/Company (Bidder/Contractor):_____
 - Seal and Name of Firm/Company: M/S_____

Seal and Signature of Bidder M/S_____

CONDITIONS OF THE CONTRACT

Seal and Signature of Bidder M/S_____

CONDITIONS OF THE CONTRACT

1. GENERAL PROVISIONS

1.1 Definitions

In the Contract as defined below, the words and expressions defined shall have the following meanings assigned to them, except where the context requires otherwise:

The Contract

- 1.1.1 "Contract" means the Contract Agreement and the other documents listed in the Contract Data.
- 1.1.2 "Specifications" means the document as listed in the Contract Data, including Employer's requirements in respect of design to be carried out by the Contractor (if any), and any Variation to such document.
- 1.1.3 "Drawings" means the Employer's drawings of the Works as listed in the Contract Data, and any Variation to such drawings.

The Persons

- 1.1.4 "Employer" means the person named in the Contract Data and the legal successors in title to this person, but not (except with the consent of the Contractor) any assignee.
- 1.1.5 "Contractor" means the person named in the Contract Data and the legal successors in title to this person, but not (except with the consent of the Employer) any assignee.
- 1.1.6 "Party" means either the Employer or the Contractor.

The Dates, Times and Periods

- 1.1.7 "Commencement Date" means the date mentioned in the notice to commence work.
- 1.1.8 "Day" means a calendar day.
- 1.1.9 "Time for Completion" means the time mentioned in the notice to commence work.

The Money and Payments

- 1.1.10 "Cost" means all expenditure properly incurred (or to be incurred) by the Contractor, whether on or off the Site, including overheads and similar charges but does not include any allowance for profit.

Seal and Signature of Bidder M/S_____

Other Definitions

- 1.1.11 "Contractor's Equipment" means all machinery, apparatus and other things required for the execution of the Works but does not include Materials or Plant intended to form part of the Works.
- 1.1.12 "Country" means the Islamic Republic of Pakistan.
- 1.1.13 "Employer's Risks" means those matters listed in Sub-Clause 6.1.
- 1.1.14 "Force Majeure" means an event or circumstance which makes performance of a Party's obligations illegal or impracticable and which is beyond that Party's reasonable control.
- 1.1.15 "Materials" means things of all kinds (other than Plant) to be supplied and incorporated in the Works by the Contractor.
- 1.1.16 "Plant" means the machinery and apparatus intended to form or forming part of the Works.
- 1.1.17 "Site" means the places provided by the Employer where the Works are to be executed, and any other places specified in the Contract as forming part of the Site.
- 1.1.18 "Variation" means a change which is instructed by the Engineer/Employer under Sub-Clause 10.1.
- 1.1.19 "Works" means any or all the works whether Supply, Installation, Construction etc. and design (if any) to be performed by the Contractor including temporary works and any variation thereof.
- 1.1.20 "Engineer" means the person notified by the Employer to act as Engineer for the purpose of the Contract and named as such in Contract Data.

1.2 Interpretation

Words importing persons or parties shall include firms and organizations. Words importing singular or one gender shall include plural or the other gender where the context requires.

1.3 Priority of Documents

The documents forming the Contract are to be taken as mutually explanatory of one another. If an ambiguity or discrepancy is found in the documents, the priority of the documents shall be in accordance with the order as listed in the Contract Data.

1.4 Law

The law of the Contract is the relevant Law of Islamic Republic of Pakistan.

1.5 Communications

All Communications related to the Contract shall be in English language.

Seal and Signature of Bidder M/S_____

1.6 Statutory Obligations

The Contractor shall comply with the Laws of Islamic Republic of Pakistan and shall give all notices and pay all fees and other charges in respect of the Works.

2. THE EMPLOYER

2.1 Provision of Site

The Employer shall provide the Site and right of access thereto at the times stated in the Contract Data.

2.2 Permits etc.

The Employer shall, if requested by the Contractor, assist him in applying for permits, licenses or approvals which are required for the Works.

2.3 Engineer's/Employer's Instructions

The Contractor shall comply with all instructions given by the Employer or the Engineer, if notified by the Employer, in respect of the Works including the suspension of all or part of the Works.

2.4 Approvals

No approval or consent or absence of comment by the Engineer/Employer shall affect the Contractor's obligations.

3. ENGINEER'S/EMPLOYER'S REPRESENTATIVES

3.1 Authorized Person

The Employer shall appoint a duly authorized person to act for him and on his behalf for the purposes of this Contract. Such authorized person shall be duly identified in the Contract Data or otherwise notified in writing to the Contractor as soon as he is so appointed. In either case the Employer shall notify the Contractor, in writing, the precise scope of the authority of such authorized person at the time of his appointment.

3.2 Engineer's/Employer's Representative

The name and address of Engineer's/Employer's Representative is given in Contract Data. However the Contractor shall be notified by the Engineer/Employer, the delegated duties and authority before the Commencement of Works.

Seal and Signature of Bidder M/S_____

4. THE CONTRACTOR**4.1 General Obligations**

The Contractor shall carry out the Works properly and in accordance with the Contract. The Contractor shall provide all supervision, labour, Materials, Plant and Contractor's Equipment which may be required.

4.2 Contractor's Representative

The Contractor shall appoint a representative at site on full time basis to supervise the execution of work and to receive instructions on behalf of the Contractor but only after obtaining the consent of the Employer for such appointment which consent shall not be unreasonable withheld by the Employer. Such authorized representative may be substituted/ replaced by the Contractor at any time during the Contract Period but only after obtaining the consent of the Employer as aforesaid.

4.3 Subcontracting

The Contractor shall not subcontract the whole of the Works. The Contractor shall not subcontract any part of the Works without the consent of the Employer.

4.4 Performance Security

The Contractor shall furnish to the Employer within fourteen (14) days after receipt of Letter of Acceptance a Performance Security at the option of the bidder, in the form of Bank Draft or Bank Guarantee or an insurance company having atleast AA rating from PACRA/JCR for the amount equal to 10% of the Contract Price and valid for construction & defect liability period.

5. DESIGN BY CONTRACTOR**5.1 Contractor's Design**

The Contractor shall carry out design to the extent specified, as referred to in the Contract Data. The Contractor shall promptly submit to the Engineer/Employer all designs prepared by him. Within fourteen (14) days of receipt the Engineer/Employer shall notify any comments or, if the design submitted is not in accordance with the Contract, shall reject it stating the reasons. The Contractor shall not construct any element of the Works designed by him within fourteen (14) days after the design has been submitted to the Engineer/Employer or which has been rejected. Design that has been rejected shall be promptly amended and resubmitted. The Contractor shall resubmit all designs commented on taking these comments into account as necessary.

Seal and Signature of Bidder M/S_____

5.2 Responsibility for Design

The Contractor shall remain responsible for his bided design and the design under this Clause, both of which shall be fit for the intended purposes defined in the Contract and he shall also remain responsible for any infringement of any patent or copyright in respect of the same. The Engineer/Employer shall be responsible for the Specifications and Drawings.

6. EMPLOYER'S RISKS

6.1 The Employer's Risks

The Employer's Risks are:-

- a) war, hostilities (whether war be declared or not), invasion, act of foreign enemies, within the Country;
- b) Rebellion, terrorism, revolution, insurrection, military or usurped power, or civil war, within the Country;
- c) Riot, commotion or disorder by persons other than the Contractor's personnel and other employees including the personnel and employees of Sub-Contractors, affecting the Site and/or the Works;
- d) ionizing radiations, or contamination by radio-activity from any nuclear fuel, or from any nuclear waste from the combustion of nuclear fuel, radio-active toxic explosive, or other hazardous properties of any explosive nuclear assembly or nuclear component of such an assembly, except to the extent to which the Contractor/Sub-Contractors may be responsible for the use of any radio-active material;
- e) Pressure waves caused by aircraft or other aerial devices travelling at sonic or supersonic speeds;
- f) Use or occupation by the Employer of any part of the Works, except as may be specified in the Contract;
- g) late handing over of sites, anomalies in drawings, late delivery of designs and drawings of any part of the Works by the Employer's personnel or by others for whom the Employer is responsible;
- h) A suspension under Sub-Clause 2.3 unless it is attributable to the Contractor's failure; and
- i) Physical obstructions or physical conditions other than climatic conditions, encountered on the Site during the performance of the Works, for which the Contractor immediately notified to the Employer and accepted by the Employer.

Seal and Signature of Bidder M/S_____

7. TIME FOR COMPLETION

7.1 Execution of the Works

The Contractor shall commence the Works on the Commencement Date and shall proceed expeditiously and without delay and shall complete the Works as per directions of the Engineer and Priority of Employer, subject to Sub-Clause 7.3 below, within the Time for Completion.

7.2 Program

Shall be submitted by the Contractor for grant of approval from the Engineer.

7.3 Extension of Time

The Contractor shall, within such time as may be reasonable under the circumstances, notify the Employer/Engineer of any event(s) falling within the scope of Sub-Clause 6.1 or 10.3 of these Conditions of Contract and request the Employer/Engineer for a reasonable extension in the time for the completion of Works. Subject to the aforesaid, the Employer/Engineer shall determine such reasonable extension in the time for the completion of Works as may be justified in the light of the details/particulars supplied by the Contractor in connection with the such determination by the Employer/Engineer within such period as may be prescribed by the Employer/Engineer for the same; and

The Employer shall extend the Time for Completion as determined.

7.4 Late Completion

If the Contractor fails to complete the Works within the Time for Completion, the Contractor's only liability to the Employer for such failure shall be to pay the amount stated in the Contract Data for each day for which he fails to complete the Works.

8. TAKING-OVER

8.1 Completion

The Contractor may notify the Engineer/Employer when he considers that the Works are complete.

8.2 Taking-Over Notice

Within fourteen (14) days of the receipt of the said notice of completion from the Contractor the Employer/Engineer shall either takeover the completed Works and issue a Certificate of Completion to that effect or shall notify the Contractor his reasons for not taking-over the Works. While issuing the Certificate of Completion as aforesaid, the

Seal and Signature of Bidder M/S_____

Employer/Engineer may identify any outstanding items of work which the Contractor shall undertake during the Maintenance Period.

9. REMEDYING DEFECTS

9.1 Remediating Defects

The Contractor shall for a period stated in the Contract Data from the date of issue of the Certificate of Completion carry out, at no cost to the Employer, repair and rectification work which is necessitated by the earlier execution of poor quality of work or use of below specifications material in the execution of Works and which is so identified by the Employer/Engineer in writing within the Said period. Upon expiry of the Said period, and subject to the Contractor's faithfully performing his aforesaid obligations, the Employer/Engineer shall issue a Maintenance Certificate whereupon all obligations of the Contractor under this Contract shall come to an end.

Failure to remedy any such defects or complete outstanding work within a reasonable time shall entitle the Employer to carry out all necessary works at the Contractor's cost. However, the cost of remediating defects not attributable to the Contractor shall be valued as a Variation.

9.2 Uncovering and Testing

The Engineer/Employer may give instruction as to the uncovering and/or testing of any work. Unless as a result of an uncovering and/or testing it is established that the Contractor's design, Materials, Plant or workmanship are not in accordance with the Contract, the Contractor shall be paid for such uncovering and/or testing as a Variation in accordance with Sub-Clause 10.2.

10. VARIATIONS AND CLAIMS

10.1 Right to Vary

The Employer/Engineer may issue Variation Order(s) in writing. Where for any reason it has not been possible for the Employer/Engineer to issue such Variations Order(s), the Contractor may confirm any verbal orders given by the Employer/Engineer in writing and if the same are not refuted/denied by the Employer/Engineer within seven (7) days of the receipt of such confirmation the same shall be deemed to be a Variation Orders for the purposes of this Sub-Clause.

Seal and Signature of Bidder M/S_____

10.2 **Valuation of Variations**

Variations shall be valued as follows:

- a) At a lump sum price agreed between the Parties, or
- b) Where appropriate, at rates in the Contract, or
- c) In the absence of appropriate rates, the rates in the Contract shall be used as the basis for valuation, or failing which
- d) At appropriate new rates, as may be agreed or which the Engineer/Employer considers appropriate, or
- e) if the Engineer/Employer so instructs, at day work rates set out in the Contract Data for which the Contractor shall keep records of hours of labour and Contractor's Equipment, and of Materials, used.

10.3 **Early Warning**

The Contractor shall notify the Engineer/Employer in writing as soon as he is aware of any circumstance which may delay or disrupt the Works, or which may give rise to a claim for additional payment.

To the extent of the Contractor's failure to notify, which results to the Engineer/Employer being unable to keep all relevant records or not taking steps to minimize any delay, disruption, or Cost, or the value of any Variation, the Contractor's entitlement to extension of the Time for Completion or additional payment shall be reduced/rejected.

10.4. **Valuation of Claims**

If the Contractor incurs Cost as a result of any of the Employer's Risks, the Contractor shall be entitled to the amount of such Cost. If as a result of any Employer's Risk, it is necessary to change the Works, this shall be dealt with as a Variation subject to Contractor's notification for intention of claim to the Engineer/Employer within fourteen (14) days of the occurrence of cause.

10.5 **Variation and Claim Procedure**

The Contractor shall submit to the Engineer/Employer an itemized make-up of the value of variations and claims within twenty eight (28) days of the instruction or of the event giving rise to the claim. The Engineer/Employer shall check and if possible agree the value. In the absence of agreement, the Employer shall determine the value.

Seal and Signature of Bidder M/S_____

11. CONTRACT PRICE AND PAYMENT**11.1 (a) Terms of Payments**

The amount due to the Contractor under any Interim Payment Certificate issued by the Engineer pursuant to this Clause, or to any other terms of the Contract, shall, subject to Clause 11, be paid by the Employer to the Contractor within 30 days after such Interim Payment Certificate has been jointly verified by Employer and Contractor, or, in the case of the Final Certificate referred to in Sub Clause 11.5, within 60 days after such Final Payment Certificate has been jointly verified by Employer and Contractor; Provided that the Interim Payment shall be caused in 42 days and Final Payment in 60 days in case of foreign funded project. In the event of the failure of the Employer to make payment within the times stated, the Employer shall pay to the Contractor compensation at the 28 days rate of KIBOR+2% per annum in local currency and LIBOR+1% for foreign currency, upon all sums unpaid from the date by which the same should have been paid. The provisions of this Sub-Clause are without prejudice to the Contractor's entitlement under Clause 12.2.

(b) Valuation of the Works

The Works shall be valued as provided for in the Contract Data, subject to Clause 10.

11.2 Monthly Statements

The Contractor shall be entitled to be paid at monthly intervals:

- a) The value of the Works executed; and
- b) The percentage of the value of Materials and Plant reasonably delivered to the Site, as stated in the Contract Data, subject to any additions or deductions which may be due.

The Contractor shall submit each month to the Engineer/Employer a statement showing the amounts to which he considers himself entitled.

11.3 Interim Payments

Within a period not exceeding seven (7) days from the date of submission of a statement for interim payment by the Contractor, the Engineer shall verify the same and within a period not exceeding thirty (30) days from the said date of submission by the Contractor, the Employer shall pay to the Contractor the sum verified by the Engineer less retention money at the rate stated in the Contract Data.

11.4 Retention

Retention money shall be paid by the Employer to the Contractor within fourteen (14) days after either the expiry of the period stated in the Contract Data, or the remedying of notified defects, or the completion of outstanding work, all as referred to in Sub-Clause 9.1, whichever is the later.

Seal and Signature of Bidder M/S_____

11.5 **Final Payment**

Within twenty one (21) days from the date of issuance of the Maintenance Certificate the Contractor shall submit a final account to the Engineer to verify and the Engineer shall verify the same within fourteen (14) days from the date of submission and forward the same to the Employer together with any documentation reasonably required to enable the Employer to ascertain the final contract value.

Within sixty (60) days from the date of receipt of the verified final account from the Engineer, the Employer shall pay to the Contractor any amount due to the Contractor. While making such payment the Employer may, for reasons to be given to the Contractor in writing, withhold any part or parts of the verified amount.

11.6 **Currency**

Payment shall be in the currency stated in the Contract Data.

12. **DEFAULT**

12.1 **Defaults by Contractor**

If the Contractor abandons the Works, refuses or fails to comply with a valid instruction of the Engineer/Employer or fails to proceed expeditiously and without delay, or is, despite a written complaint, in breach of the Contract, the Employer may give notice referring to this Sub-Clause and stating the default.

If the Contractor has not taken all practicable steps to remedy the default within fourteen (14) days after receipt of the Employer's notice, the Employer may by a second notice given within a further twenty one (21) days, terminate the Contract. The Contractor shall then demobilize from the Site leaving behind any Contractor's Equipment which the Employer instructs, in the second notice, to be used for the completion of the Works at the risk and cost of the Contractor.

12.2 **Defaults by Employer**

If the Employer fails to pay in accordance with the Contract, or is, despite a written complaint, in breach of the Contract, the Contractor may give notice referring to this Sub-Clause and stating the default. If the default is not remedied within fourteen (14) days after the Employer's receipt of this notice, the Contractor may suspend the execution of all or parts of the Works.

Seal and Signature of Bidder M/S_____

If the default is not remedied within twenty eight (28) days after the Employer's receipt of the Contractor's notice, the Contractor may by a second notice given within a further twenty one (21) days, terminate the Contract. The Contractor shall then demobilize from the Site.

12.3 Insolvency

If a Party is declared insolvent under any applicable law, the other Party may by notice terminate the Contract immediately. The Contractor shall then demobilize from the Site leaving behind, in the case of the Contractor's insolvency; any Contractor's Equipment which the Employer instructs in the notice is to be used for the completion of the Works.

12.4 Payment upon Termination

After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the Works executed and of the Materials and Plant reasonably delivered to the Site, adjusted by the following:

- a) Any sums to which the Contractor is entitled under Sub-Clause 10.4,
- b) Any sums to which the Employer is entitled,
- c) if the Employer has terminated under Sub-Clause 12.1 or 12.3, the Employer shall be entitled;
 - i. to the additional cost due the work done at the Risk & Cost of the Contractor (i-e previous contractor whose contract is terminated),
 - ii. To a sum equivalent to twenty percent (20%) of the value of Parts of the Works not executed at the date of the termination to cover the additional cost/burden on employer.

However in any case this shall not exceed the amount/maximum limit of the Liquidated Damages as mentioned in the contract data, and

- iii. If the Contractor has terminated under Sub-Clause 12.2 or 12.3, the Contractor shall be entitled to the cost of his demobilization together with a sum equivalent to ten percent (10%) of the value of Parts of the Works not executed at the date of termination.

The net balance due shall be paid or repaid within twenty eight (28) days of the notice of termination.

13. RISKS AND RESPONSIBILITIES

13.1 Contractor's Care of the Works

Seal and Signature of Bidder M/S_____

Subject to Sub-Clause 9.1, the Contractor shall take full responsibility for the care of the Works from the Commencement Date until the date of the Employer's/Engineer's issuance of Certificate of Completion under Sub-Clause 8.2. Responsibility shall then pass to the Employer. If any loss or damage happens to the Works during the above period, the Contractor shall rectify such loss or damage so that the Works conform to the Contract.

Unless the loss or damage happens as a result of any of the Employer's Risks, the Contractor shall indemnify the Employer, or his agents against all claims loss, damage and expense arising out of the Works.

13.2 **Force Majeure**

If Force Majeure occurs, the Contractor shall notify the Engineer/Employer immediately. If necessary, the Contractor may suspend the execution of the Works and, to the extent agreed with the Employer demobilize the Contractor's Equipment.

If the event continues for a period of eighty four (84) days, either Party may then give notice of termination which shall take effect twenty eight (28) days after the giving of the notice.

After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the Works executed and of the Materials and Plant reasonably delivered to the Site, adjusted by the following:

- a) Any sums to which the Contractor is entitled under Sub-Clause 10.4,
- b) The cost of his demobilization, and
- c) Less any sums to which the Employer is entitled.

The net balance due shall be paid or repaid within thirty five (35) days of the notice of termination.

14. **INSURANCE**

14.1 **Arrangements**

The Contractor shall, prior to commencing the Works, effect insurances of the types, in the amounts and naming as insured the persons stipulated in the Contract Data except for items (a) to (e) and (i) of the Employer's Risks under Sub-Clause 6.1. The policies shall be issued by insurers and in terms approved by the Employer. The Contractor shall provide the Engineer/Employer with evidence that any required policy is in force and that the premiums have been paid.

14.2 **Default**

If the Contractor fails to effect or keep in force any of the insurances referred to in the previous Sub-Clause, or fails to provide satisfactory evidence, policies or receipts, the

Seal and Signature of Bidder M/S_____

Employer may, without prejudice to any other right or remedy, effect insurance for the cover relevant to such as a default and pay the premiums due and recover the same plus a sum in percentage given in Contractor Data from any other amounts due to the Contractor.

15. RESOLUTION OF DISPUTES

15.1 Engineer's Decision

If a dispute of any kind whatsoever arises between the Employer and the Contractor in connection with the Works, the matter in dispute shall, in the first place, be referred in writing to the Engineer, with a copy to the other party. Such reference shall state that it is made pursuant to this Clause. No later than the twenty eight (28) days after the day on which he received such reference, the Engineer shall give notice of his decision to the Employer and the Contractor.

Unless the Contract has already been repudiated or terminated, the Contractor shall, in every case, continue to proceed with the Work with all due diligence, and the Contractor and the Employer shall give effect forthwith to every such decision of the Engineer unless and until the same shall be revised, as hereinafter provided in an arbitral award.

15.2 Notice of Dissatisfaction

If a Party is dissatisfied with the decision of the Engineer or if no decision is given within the time set out in Sub-Clause 15.1 hereinabove, the Party may give notice of dissatisfaction referring to this Sub-Clause within fourteen (14) days of receipt of the decision or the expiry of the time for the decision. If no notice of dissatisfaction is given within the specified time, the decision shall be final and binding on the Parties. If notice of dissatisfaction is given within the specified time, the decision shall be binding on the Parties who shall give effect to it without delay unless and until the decision of the Engineer is revised by an arbitrator.

15.3 Arbitration

A dispute which has been the subject of a notice of dissatisfaction shall be finally settled as per provisions of Arbitration Act 1940 (Act No. X of 1940) and Rules made there under and any statutory modifications thereto. Any hearing shall be held at the place specified in the Contract Data and in the language referred to in Sub-Clause 1.5.

16 INTEGRITY PACT

16.1 If the Contractor or any of his Sub-Contractors, agents or servants is found to have violated or involved in violation of the Integrity Pact signed by the Contractor as

Seal and Signature of Bidder M/S_____

Schedule-F to his Bid, then the Employer shall be entitled to:

- a. recover from the Contractor an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by the Contractor or any of his Sub-Contractors, agents or servants;
- b. Terminate the Contract; and
- c. Recover from the Contractor any loss or damage to the Employer as a result of such termination or of any other corrupt business practices of the Contractor or any of his Sub-Contractors, agents or servants.

On termination of the Contract under Sub-Para (b) of this Sub-Clause, the Contractor shall demobilize from the Site leaving behind Contractor's Equipment which the Employer instructs, in the termination notice, to be used for the completion of the Works at the risk and cost of the Contractor. Payment upon such termination shall be made under Sub-Clause 12.4, in accordance with Sub-Para (c) thereof, after having deducted the amounts due to the Employer under Sub-Para (a) and (c) of this Sub-Clause.

Seal and Signature of Bidder M/S_____

CONTRACT DATA

Seal and Signature of Bidder M/S_____

CONTRACT DATA

Sub-Clauses of Conditions of Contract

(Contract Data shall prevail over the General Conditions where there is conflict.)

1. GENERAL PROVISIONS

1.1 Definitions

The Contract

1.1.1 Contract.

List of Contract Documents;

- (a) The Contract Agreement
- (b) The Letter of Acceptance
- (c) The completed Form of Bid
- (d) The Priced Bill of Quantities along with preamble
- (e) The Contract Data
- (f) The Conditions of Contract
- (g) The Drawings

1.1.2 Specifications.

- (a) The Specifications (Special Provisions)
- (b) The Specifications (Technical Provisions)

1.1.3 Drawings.

- (a) The Bidding Drawings
- (b) The Construction Drawings
- (c) The Shop Drawings
- (d) The As Built Drawings
- (e) Other as directed by the Employer/Engineer

The Persons

1.1.4 The Employer.

Shaheed Benazir Bhutto University, Sheringal, Dir Upper.

1.1.4 The Engineer.

TBN.

1.1.5 The Contractor

The lowest evaluated successful bidder to whom the Contract has been awarded.

Seal and Signature of Bidder M/S_____

The Dates, Times and Periods

1.1.7 Commencement Date means

The date mentioned in the Engineer's Notice to Commence work/Works order.

1.1.9 Time for Completion

The date mentioned in the Engineer's Notice to Commence work/Works order.

1.3 Priority of Documents

As stated in list of Contract Documents sub clause 1.1.1 above.

2. THE EMPLOYER

2.1 Provision of Site:

Shall be provided by the University to the Contractor.

3. ENGINEER'S/EMPLOYER REPRESENTATIVES

3.1 Authorized Person:

(The Contract Documents etc. shall be signed by him on behalf of employer)

Director of Works or his nominee

Shaheed Benazir Bhutto University, Sheringal, Dir Upper.

3.2 Name and Address of Engineer's/Employer's Representative;

(Shall handover possession of site and all the necessary Technical matters shall be addressed to him)

TBN.

5. DESIGN BY CONTRACTOR

5.1 Contractor's Design

Shall be carried out, as described in Specifications under Special Provisions and/or Technical Provisions or due to site requirements or directed by the Engineer.

7.4 Late Completion

a. Liquidated Damages.

Amount payable due to failure to complete the work in stipulated time shall be **0.10%** per day up to a maximum of **10%** of Contract Price i-e sum stated in the Acceptance Letter.

Seal and Signature of Bidder M/S_____

b. Rate of Progress

If for any reason, which does not entitle the Contractor to an extension of time, the rate of progress of the Works or any Section is at any time, in the opinion of the Engineer, too slow to comply with the Time for Completion, the Engineer shall so notify the Contractor who shall thereupon take such steps as are necessary, subject to the consent of the Engineer, to expedite progress so as to comply with the Time for Completion. The Contractor shall not be entitled to any additional payment for taking such steps. If, as a result of any notice given by the Engineer under this Clause, the Contractor considers that it is necessary to do any work at night or on locally recognized days of rest, he shall be entitled to seek the consent of the Engineer so to do. Provided that if any steps, taken by the Contractor in meeting his obligations under this Clause, involve the Employer in additional supervision costs, such cost shall, after due consultation with the Employer, be determined by the Engineer and shall be recoverable from the Contractor by the Employer, and may be deducted by the Employer from any monies due or to become due to the Contractor and the Engineer shall notify the Contractor accordingly, with a copy to the Employer.

c. Liquidated Damages for Delay

If the Contractor fails to comply with the Time for Completion in accordance with Conditions of the contract, for the whole of the Works or, if applicable, any Section within the relevant time prescribed hereby, then the Contractor shall pay to the Employer the relevant sum as decided by the employer as liquidated damages for such default and not as a penalty (which sum shall be the only monies due from the Contractor for such default) for every day or part of a day which shall elapse between the relevant Time for Completion and the date stated in a Taking-Over Certificate of the whole of the Works or the relevant Section. The Employer may, without prejudice to any other method of recovery, deduct the amount of such damages from any monies due or to become due to the Contractor. The payment or deduction of such damages shall not relieve the Contractor from his obligation to complete the Works, or from any other of his obligations and liabilities under the Contract.

d. Reduction of Liquidated Damages

If, before the Time for Completion of the whole of the Works or, if applicable, any Section, a Taking-Over Certificate has been issued for any part of the Works or of a Section, the liquidated damages for delay in completion of the remainder of the Works or of that Section shall, for any period of delay after the date stated in such Taking-Over Certificate, and in the absence of Alternative provisions in the Contract, be reduced in the proportion

Seal and Signature of Bidder M/S_____

which the value of the part so certified bears to the value of the whole of the Works or Section, as applicable. The provisions of this Sub-Clause shall only apply to the rate of liquidated damages and shall not affect the limit thereof.

e. Interim Liquidated Damages

The Contractor shall carry out work at site according to approved programme (work schedule) & shall update the work schedule as per requirement of the Engineer. Progress at site if found consistently behind the schedule, interim liquidated damages shall be implemented at half rate of liquidated damages as mentioned in appendix-A to bid, which may be refunded if the progress again matches the approved work schedule any time during the currency of the works.

9. REMEDYING DEFECTS

9.1 Remediying Defects

Period for Remediying Defects is 364 days.

10. VARIATION AND CLAMS (Alterations, Additions and Omissions)

Delete sub-clause and substitute the text with;

a. Variations

The Engineer shall make any variation of the form, quality or quantity of the Works or any part thereof that may, in his opinion, be necessary and for that purpose, or if for any other reason it shall, in his opinion, be appropriate, he shall have the authority to instruct the Contractor to do and the Contractor shall do any of the following:

- (a) Increase or decrease the quantity of any work included in the Contract,
- (b) Omit any such work (but not if the omitted work is to be carried out by the Employer or by another contractor),
- (c) Change the character or quality or kind of any such work,
- (d) Change the levels, lines, position and dimensions of any part of the Works,
- (e) Execute additional work of any kind necessary for the completion of the Works, or
- (f) Change any specified sequence or timing of construction of any part of the Works.

No such variation shall in any way vitiate or invalidate the Contract, but the effect, if any, of all such variations shall be valued in accordance with conditions of the contract. Provided that where the issue of an instruction to vary the Works is necessitated by some default of or breach of contract by the Contractor or for which he is responsible, any additional cost attributable to such default shall be borne by the Contractor.

Seal and Signature of Bidder M/S_____

b. Instructions for Variations

The Contractor shall not make any such variation without an instruction of the Engineer. Provided that no instruction shall be required for increase or decrease in the quantity of any work where such increase or decrease is not the result of an instruction given under this Clause, but is the result of the quantities exceeding or being less than those stated in the Bill of Quantities.

c. Valuation of Variations

All variations referred to hereinabove and any additions to the Contract Price which are required to be determined (for the purposes of this Clause referred to as "varied work"), shall be valued at the rates and prices set out in the Contract (Priced BoQ) if, in the opinion of the Engineer, the same shall be applicable. If the Contract (Priced BoQ) does not contain any such rates, then actual market rate adding labor charges and 10% contractor profit and 5% overhead charges (along with tax if applicable) as per general engineering practice shall be adopted.

d. Variations Exceeding 15 per cent

If, on the issue of the Taking-Over Certificate for the whole of the Works, it is found that as a result of:

- (a) all varied work valued under Sub-Clauses 10. a & b.
- (b) all adjustments upon measurement of the estimated quantities set out in the Bill of Quantities, excluding Provisional Sums, but not from any other cause, there have been additions to or deductions from the Contract Price which taken together are in excess of 15 per cent of the "Effective Contract Price" (which for the purposes of this Sub-Clause shall mean the Contract Price, excluding Provisional Sums and allowance for day works if any) then and in such event (subject to any action already taken under any other Sub-Clause of this Clause), after due consultation by the Engineer with the Employer and the Contractor, there shall be added to or deducted from the Contract Price such further sums as may be agreed between the Contractor and the Engineer or, failing agreement, determined by the Engineer having regard to the Contractor's Site and general overhead costs of the Contract. The Engineer shall notify the Contractor of any determination made under this Sub-Clause, with a copy to the Employer. Such sum shall be based only on the amount by which such additions or deductions shall be in excess of 15 per cent of the Effective Contract Price.

Seal and Signature of Bidder M/S_____

11. CONTRACT PRICE AND PAYMENT

11.1 (a) Terms of Payments

Substitute the text with;

The amount due to the Contractor under any Interim Payment Certificate issued by the Engineer pursuant to this Clause, or to any other terms of the Contract shall be paid by the Employer to the Contractor within 30 days after such Interim Payment Certificate has been jointly verified by Employer and Contractor, or, in the case of the Final Certificate within 60 days after such Final Payment Certificate has been jointly verified by Employer and Contractor. In the event of the failure of the Employer to make payment within the times stated, the Employer shall pay to the Contractor compensation at the 28 days rate of KIBOR+2% per annum in local currency, upon all sums unpaid from the date by which the same should have been paid. The provisions of this Sub-Clause are without prejudice to the Contractor's entitlement.

(b) Valuation of the Works

Work done shall be priced by adopting Priced BoQ Rates.

11.2 Monthly Statements

(a) The value of work executed

a. Items and Quantities of BoQ;

The items mentioned and quantities set out in the Bill of Quantities are only for comparison of bids. Execution & working at site shall be done as per directions of the Engineer and shall be paid for actual work done at site.

b. Works to be measured;

The contractor shall submit monthly statements for the actual work carried out in accordance to the drawings, specifications and directions of Engineer. All the measurements shall be evident from the approved Check Request, lab test reports, level sheets etc. where ordered or any other procedure and methodology set by the Engineer, regarding which the contractor shall be informed accordingly.

(b) Secured advance on Materials

The contractor shall be entitled to receive secured advance against an indemnity bond acceptable to the employer of such sum which the engineer may consider proper in respect of non-perishable materials brought at the site but not yet incorporated in the permanent works, provided that;

I. The materials are in accordance with the Specifications for the permanent works;

Seal and Signature of Bidder M/S_____

- II. Such materials have been delivered to the site and are properly stored and protected against loss or damage or deterioration to the satisfaction of Engineer but at the risk and cost of the contractor;
- III. The contractor have kept record of requirements, orders, receipt, gate pass invoices, use of materials etc. and shall be available for inspection and for submission of claims.
- IV. Ownership of such materials shall be deemed to vest in the Employer and these materials shall not be removed from the site or otherwise disposed off without written permission of the employer; and
- V. The sum payable for such materials at site shall not exceed 75% of the;
 - a. Ex-factory/ex-warehouse price of locally manufactured of produced materials, or
 - b. Market price of other materials.
- VI. The recovery of secured advance paid to the contractor shall be effected from the monthly payment on actual consumptions basis;

11.3 **Interim Payments**

Retention money shall be deducted from the Running Payments @ Ten Percent (10%).

11.6 **Currency of Payment**

Payment shall be done in Pak. Rupees.

14.1 **Arrangements**

Minimum amount of third party insurance shall be Rs. 300,000/- per occurrence with number of occurrence unlimited.

14.2 **Default**

Type of cover;	The Works
Amount of cover;	The sum stated in the Letter of Acceptance plus (15%)
Type of cover ;	Contractor's Equipment
Amount of cover;	Full replacement cost
Type of cover;	Third Party-injury to persons and damage to property
Amount of cover;	Premium plus five percent (5%)

15 **RESOLUTION OF DISPUTES**

15.3 **Arbitration;**

Place of Arbitration shall be Sheringal Dir Upper.

Seal and Signature of Bidder M/S_____

Add the followings clauses/sub-clauses;

- 17.1 The Engineer shall obtain the specific approval of the Employer before carrying out his duties in accordance with the following Clauses Consenting to the sub-letting of any part of the Works.
- i. Any action under "Performance Security".
 - ii. Uncovering and making openings of works executed in accordance to the contract.
 - iii. Any action regarding "Suspension".
 - iv. Any action under Clause "Extension of Time for Completion".
 - v. Any action under Clause "Liquidated Damages for Delay" or Interim Liquidated Damages for delay.
 - vi. Issuance of "Taking Over Certificate".
 - vii. Issuing a Variation Order.
 - viii. Fixing rates or prices.
 - ix. Release of Retention Money to the Contractor.
 - x. Issuance of "Final Payment Certificate".
 - xi. Issuance of "Defect Liability Certificate".
 - xii. Release from performance under the law.
 - xiii. Any other action which may deem necessary by the Employer and may further vary according to need of the project which shall be notified to the Contractor and the Engineer.

17.2 Engineer Not Liable

Approval, reviews and inspection by the Engineer of any part of the Works does not relieve the Contractor from his sole responsibility and liability for the supply of materials, plant and equipment for construction of the Works and their parts in accordance with the Contract and neither the Engineer's authority to act nor any decision made by him in good faith as provided for under the Contract whether to exercise or not to exercise such authority shall give rise to any duty or responsibility of the Engineer to the Contractor, any Subcontractor, any of their representatives or employees or any other person performing any portion of the Works.

17.3 Custody and supply of Drawings and documents

The Contractor after signing the contract shall arrange 6 (six) copies of all the contract documents for the use and record of different sections of the Employer, Engineer and use at site at his own cost which shall be deemed included in the bid amount.

17.4 Shop Drawings

The Contractor shall submit to the Engineer for review 3 copies of all shop and erection drawings applicable to this Contract.

Review and approval by the Engineer shall not be construed as a complete check but will indicate only that the general method of construction and detailing is satisfactory and that the

Seal and Signature of Bidder M/S_____

Engineer's review or approval shall not relieve the Contractor of any of his responsibilities under the Contract.

17.5 As-Built Drawings

Upon the completion of the Works under the Contract, the Contractor shall furnish to the Engineer 6 copies and one reproducible of all drawings amended to conform to the Works as built. The price of such Drawings shall be deemed to be included in the Contract Price, and shall not be paid extra. The Engineer after due consultation with the Employer shall arrange the as built drawings and the cost as determined on production of same shall be deducted from the payment of the Contractor.

17.6 Contract Agreement

- a. The Contract agreement, Performance Security, Insurance Policies /Bonds and other Bonds / Guarantees/Sureties shall be prepared and completed at the cost of the Contractors.
- b. The Contractor shall arrange six (6) copies of the contract Document (i-e all the volumes/ document listed in the Contract Agreement) along-with copies of all the Bonds/ Guarantees/ Sureties, at his cost and shall submit the same to the Employer and Engineer.

17.7 Work to be in Accordance with Contract

If the contractor is of the opinion that any instruction by the Engineer under the Clause is such as would entitle him to additional payment on the grounds that such instruction is not within the purview of the Contract cannot be reconciled with its expressed or implied terms unless it is considered as a variation of the Contract, then, without prejudice to the obligation of the Contractor to comply with such instruction, the Contractor shall, immediately upon receipt of same, give notice to the Engineer with a copy to the Employer of his intention to claim additional payment and furnish, within 28 days from the date of issue of the instruction in question, particulars of such claim. Should the Contractor fail to comply with these requirements, he shall be deemed to have waived any claim arising from such instruction of the Engineer.

17.8 Detailed Programme and Progress Reports

- a) The Contractor shall submit to the Engineer detailed programme for the following:
 - (1) Execution of Works;
 - (2) Labour Employment;
 - (3) Local Material Procurement;
 - (4) Material Imports, if any;
 - (5) Details of fittings/fixtures; and
 - (6) Other details as required by the Engineer.
- (b) During the period of the Contract, the Contractor shall submit to the Engineer not later than the 8th day of the following month, 06 (six) copies of Monthly Progress Reports covering;

Seal and Signature of Bidder M/S_____

- (1) A Work Schedule indicating the monthly progress in percentage;
- (2) Description of all work carried out since the last report;
- (3) Description of the work planned for the next 56 days sufficiently detailed to enable the Engineer to determine his programme of inspection and testing;
- (4) Monthly summary of daily job record;
- (5) Photographs to illustrate progress; and
- (6) Information about problems and difficulties encountered, if any, and proposals to overcome the same.

17.9 Daily Program and Progress Report

During the period of the Contract, the Contractor shall keep a daily record of the work progress in shape work dairy book, which shall be submitted to the Engineer on daily basis for verification and signature. The daily record shall include particulars of weather conditions, number of men working, deliveries of materials, quantity, location and assignment of Contractor's equipment (on the format duly approved by the Engineer/Employer). Three copies of daily progress duly verified by the Engineer shall be submitted to the Employer either work is carried out in preceding days or not, along with program of daily visits/checks to be made by the engineer.

17.10 Contractor's Representative

- a) The Contractor's authorised representative and his other professional engineers working at Site shall register themselves with the Pakistan Engineering Council.
- b) The Contractor's authorized representative at Site shall be authorized to exercise adequate administrative and financial powers on behalf of the Contractor so as to achieve completion of the Works as per the Contract, subject to the approval of the Employer.
- c) Power of attorney shall be submitted to the employer as per format provided in the bidding/contract documents.

17.11 Employment of Local Personnel

The Contractor is encouraged, to the extent practicable and reasonable, to employ staff and labour from sources within Pakistan especially from KPK.

17.12 Safety Precautions

In order to provide for the safety, health and welfare of persons, and for prevention of damage of any kind, all operations for the purposes of or in connection with the Contract shall be carried out in compliance with the Safety Requirements of the Government of Pakistan with such modifications thereto as the Engineer may authorise or direct and the Contractor shall take or cause to be taken such further measures and comply with such further requirements as the Engineer may determine to be reasonably necessary for such purpose.

The Contractor shall make, maintain and submit reports to the Engineer concerning safety, health and welfare of persons and damage to property, as the Engineer may from time to time prescribe.

Seal and Signature of Bidder M/S_____

17.13 Lighting Work at Night

In the event of work being carried out at night, the Contractor shall at his own cost, provide and maintain such good and sufficient light as will enable the work to proceed satisfactorily and without danger. The approaches to the Site and the Works where the night-work is being carried out shall be sufficiently lighted. All arrangement adopted for such lighting shall be to the satisfaction of the Engineer/Engineer's Representative.

17.14 Co-operation with other Contractors

During the execution of the Works, the Contractor shall co-operate fully with other contractors working for the Employer at and in the vicinity of the Site and also shall provide adequate precautionary facilities not to make himself a nuisance to the residents of the University, local residents and other contractors.

17.15 Contractor to Keep Site Clear

The contractor shall ensure cleanliness of roads of campus and shall engage labour for cleaning of roads on daily basis. In case of non-compliance, the employer shall engage the labour at the risk and cost of contractor for the said purpose.

17.16 Records of Safety and Health

The Contractor shall maintain such records and make such reports concerning safety, health and welfare of persons and damage to property as the Engineer may from time to time prescribe.

17.17 Reporting of Accidents

The Contractor shall report to the Engineer details of any accident as soon as possible after its occurrence. In the case of any fatality or serious accident, the Contractor shall, in addition, notify the Engineer immediately by the quickest available means.

17.18 Cost of Samples

Sample of all fittings, fixtures and other items shall be provided, supplied under the contract by the Contractor free of cost. Samples shall be submitted to the Engineer for approval and shall be retained in the office of the Engineer up to the completion. Cost of samples shall be deemed included in the quoted rates by the Contractor.

17.20 Uncovering and Making Openings

The Contractor shall uncover any part or parts of the works, or make openings in or through the same as the Engineer may from time to time instruct and shall reinstate and make good such part of parts to the satisfaction of the Engineer. If any such part or parts have been covered up or put out of view after compliance with the requirements of Sub-Clause 38.1 and

Seal and Signature of Bidder M/S_____

are found to be executed in accordance with the Contract, the Engineer shall, after consultation with the Employer and the Contractor, determine the amount of Contractor's costs in respect of such uncovering, making openings in or through, reinstating and making good the same, provided that the Contractor has, upon receipt of the Engineer's order, and in any Engineer and the Employer of his intention to claim such expenses. In any other case all costs shall be borne by the Contractor.

17.21 Increase or Decrease of Cost

The contract is fixed priced contract, hence no-price adjustment (increase or decrease in cost) shall be made.

17.22 Payment of Income Tax

The Contractor, Subcontractors and their employees shall be responsible for payment of all their income tax, super tax and other taxes on income arising out of the Contract and the rates and prices stated in the Contract shall be deemed to cover all such taxes, except in case where the contractor has produced tax exemption certificate at the time of bidding.

17.23 Customs Duty & Taxes

The contract price shall be deemed to include every element of duty or tax leviable on or in relation to the production, import, purchase, sale, delivery and transportation of materials and to the bringing thereof to the site and no such duty or tax shall be separately reimbursable.

17.24 Contract Data or Particular Conditions of the Contract (PCC)

The above provisions under the contract data or Particular Conditions of the Contract (PCC) shall complement, amend, or supplement the provisions of the General Conditions. Wherever there is a conflict, the provisions herein above shall prevail over those in the General Conditions.

BILL OF QUANTITIES (PREAMBLE)

1. The bidders shall visit the site and prepare detail Technical Proposal showing existing facilities as well as infrastructure/facilities proposed by the bidders.
2. Technical proposal shall comprise drawings, sketches, Technical survey report, heat map and other as per standard requirements of ICT, infrastructure, and as required by the Employer.
3. The BoQ attached with the bid is for guidance of bidders. The bidders shall draft detail BoQ showing detail specifications/manufacturers which shall be made part of technical bid and shall be evaluated by the technical committee of the employer as per detail procedure given in the bid doc as well as PPRA, however technical bid of only those bidders shall be opened by the committee who found qualified as per criteria set in bid doc.
4. Financial bid of only qualified and technically responsive bids shall be opened by the committee.
5. Following shall deemed by the bidder while preparation of bids.
 - a. The Contractor shall prepare drawings, sketches, layout plans, showing proposed, line places of installation of items, shifting position of existing items, lines, location where new line shall be provided and the location where existing line shall be re-fixed. Similarly other details required by the Engineer, Employer etc. shall be prepared for grant of approval from the Engineer, Employer and other agencies. The drawing shall be amended by the contractor if so desired by the Engineer or Employer. The contractor shall prepared a detailed BoQ from the approved drawings duly priced adopting the rates of the contract and shall submit for approval of Employer through the Engineer.
 - b. The execution of works shall be as per satisfaction of the engineer/employer.
 - c. Installation, Testing, commissioning, and functioning shall be done as per direction of the engineer/employer, keeping in view the standard practice /specification
 - d. During performance of contract or after completion of job, and before testing, commissioning if payment is requested by the contractor, an amount equal to 10% of the actual work done shall be withheld other than retention money and shall be released after testing, commissioning, functioning in presence of the engineer/employer.
 - e. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications, Drawings and other documents as mentioned in Instructions to bidders/bidding data & Conditions of the contract.
 - f. The quantities given in the Bill of Quantities are only estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work executed and measured by the Contractor and verified by the Engineer and valued at the rates and prices entered in the priced Bill of Quantities including (premium/discount) quoted by the bidders.
 - g. It shall be deemed while quoting Rates and prices in the BoQ, that rates and prices entered in the priced BoQ shall, except insofar as it is otherwise provided under the Contract include all costs of Contractor's plant, labour, supervision, materials, execution, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract. Furthermore all duties, taxes and other levies payable by the Contractor

Seal and Signature of Bidder M/S_____

under the Contract, or for any other cause, as on the date 28 days prior to deadline for submission of Bids, is included in the bid.

- h. The items mentioned in the Bill of Quantities consist of furnishing all plant, labour, equipment, machinery, appliances, materials, fittings, fixtures, fabrication, erection and installation required for completing the items/works.
- i. No claim for extra payment will be admissible on account of anticipated profit or variation in overheads expenditure for the works not actually performed nor will any adjustment in the unit rate set forth in the Bill of Quantities by the Employer or percentage offered by the bidder/contractor, be made because of any increase or decrease in the quantities indicated therein.
- j. The whole cost of complying with the provisions of the Contract shall be included in the quoted rates/ premium/ discount in the priced Bill of Quantities.
- k. The execution of items and quantities of BOQ are subject to the in writing approval of the Engineer and may be increased, decreased even deleted during execution by the Engineer, hence the rate/ premium/ discount shall be entered vary carefully by the bidders.
- l. Variation Order if required, due to any reason shall be valued at the Rates of Priced BoQ adding/deducting (premium/discount) quoted by the bidders. In case of non-availability in the contract, they shall be analyzed from current market rates along with addition of 15% (i-e 10% Contractor Profit and 5% overhead charges) and (7.5% for withholding tax if the contractor is not belonging to tax exempted area).
- m. Instructions for pricing of bid and quoting rates shall be deemed considered by the bidders.
- n. The contract price (comprising BoQ rates and %age, premium or discount offered by the bidder and approved by the employer) shall not be subject to adjustment during the performance of the Contract.

Seal and Signature of Bidder M/S_____

BILL OF QUANTITIES / SCHEDULE OF REQUIREMENTS						
S. No	Description	Qty	Unit	Rate (Words)	Rate (Figures)	Amount
	ICT INFRASTRUCTURE					
A.	<u>SERVER ROOMS ITEMS</u>					
1.	Core Switches 48 Ports	03	No			
2.	Gate Way Router	01	No			
3.	Licencing existing Fire Wall (03 years)	01	No			
4.	Wi-Fi Controller with Licence	02	No			
5.	Patch Panel	03	No			
6.	Patch Card	03	No			
7.	Fiber Module	03	No			
8.	Rack	02	No			
9.	Server	01	No			
10.	Cable Manager	01	No			
11.	Configuration of existing Server	01	No			
12.	ODF (48 ports imported complete)	01	No			
13.	UTP Cat-e Cable	100.00	Rft			
14.	Laptop Core i-9 complete in all respect	01	No			
15.	LED for network data 48"	01	No			
16.	LED for network data 60"	01	No			
B.	<u>EXTERNAL WORKS/SERVICES</u>					
17.	Fiber Optic (12 Core)	250.00	Rft			
18.	Fiber Optic (24 Core)	1000.00	Rft			
19.	Fiber Optic (48 Core)	2000.00	Rft			
20.	Warning Tap	3250.00	Rft			
21.	Cable Indicator	50	No			

Seal and Signature of Bidder M/S_____

C.	<u>MISC. ITEMS/ACCESSORIES</u>					
22.	Splicing Machine for Optical Fiber Jointing.	01	No			
23.	Tool Kit	01	No			
D.	<u>ELECTRICAL WORKS/ (ACCESSORIES)</u>					
24.	Hybrid Inverter 2000 watts complete best quality	20	No			
25.	Dry Batteries 200N	40	No			
26.	Stabilizers (Universal) 10,000 Watts (50 to 220) S/P	20	No			
27.	Change over switch 1000 watts S/P	20	No			
28.	Solar Panel (Mono Grade-A) 350wt each	40	No			
29.	Controller 12/24/48V, 50/60 Amp	20	No			
30.	M/S Stand, grill, stair, Ladders etc.	200.00	Kgs			
31.	Dura Duct Patti 3/4" wide	200.00	Rft			
32.	Dura Duct Patti 1" wide	200.00	Rft			
33.	Dura Duct Patti 1.5" wide	200.00	Rft			
34.	Dura Duct Patti 2" wide	200.00	Rft			
35.	GI Pipe (Light) 1" dia	100.00	Rft			
36.	Power Plugs complete heavy duty (porcelain)	20	No			
37.	Power Switch complete heavy duty (porcelain)	20	No			
38.	AC split Unit Complete	02	Job			
39.	Exhaust Fans (Plastic) with grill 12" square GFC.	02	No			
40.	Wall Bracket Fans 18" dia GFC	02	No			
41.	PVC Pipe 3/4" dia	100.00	Rft			
42.	PVC Pipe 1" dia	100.00	Rft			
43.	PVC Pipe 1.5" dia	100.00	Rft			
44.	Switches with boards 5 amp	10	No			
45.	Gang Switches with boards 5 amp	10	No			

Seal and Signature of Bidder M/S_____

46.	Capper PVC Cable 3/0.029"	100.00	Rft			
47.	Capper PVC Cable 7/0.029"	100.00	Rft			
48.	Capper PVC Cable 7/0.044"	1000.00	Rft			
49.	HDPE Pipe (16PN) Alfa 1" dia	1000.00	Rft			
E.	<u>CIVIL WORKS</u>					
50.	Excavation for Cabling	1000.00	Cft			
51.	S/Laying of First Class Brick (Dry) in Trenches over Cable	1000.00	No			
52.	PCC 1:4:8 in C/Stone	100.00	Cft			
53.	First Class Brick work in man holes in CM 1:4	1000.00	Cft			
54.	RCC 1:2:4 precast or cast in situ	100.00	Cft			
55.	S/F Steel Reinforcement Gde-40 complete	100.00	Kgs			
56.	1/2" thick Plastering to man holes in CM 1:4	100.00	Sft			
57.	Refilling of excavated earth	1000.00	Cft			
58.	S/Laying of Sand over Cable	100.00	Cft			
59.	S/Laying of RCC pipes in position including jointing with CM (1:4) 6" internal dia	1000.00	Rft			
60.	S/Laying of RCC pipes in position including jointing with CM (1:4) 9" internal dia	1000.00	Rft			
61.	MS Steel as in Grill, sheeting, stands, doors, leaves, Chowkats including welding and painting etc.	100.00	Kgs			
62.	S/F in position 12"x12"x1" Tuff tiles made of PCC 1:2:4 in any colour and design	1000.00	Sft			
	BUILDING WISE REQUIREMENTS					
F.	<u>BOYS HOSTEL</u>					
63.	Access Switches 48 Ports	02	Nos			
64.	Wifi Devices	30	Nos			

Seal and Signature of Bidder M/S_____

65.	Cat-e Cable	5000.00	Rft			
66.	Duct Patty 1" wide	2000.00	Rft			
67.	Duct Patty 2" wide	200.00	Rft			
68.	Duct Patty 3" wide	100.00	Rft			
69.	Cabinet for Switch	02	Nos			
70.	Fiber Module	02	Nos			
71.	Face Plate	96	Nos			
72.	Patch Cord	02	No			
73.	Patch Panel	02	No			
<u>G.</u>	<u>GIRLS HOSTEL</u>					
74.	Access Switches 48 Ports	02	Nos			
75.	Wifi Devices	30	Nos			
76.	Cat-e Cable	5000.00	Rft			
77.	Duct Patty 1" wide	2000.00	Rft			
78.	Duct Patty 2" wide	200.00	Rft			
79.	Duct Patty 3" wide	100.00	Rft			
80.	Cabinet for Switch	02	Nos			
81.	Fiber Module	02	Nos			
82.	Face Plate	96	Nos			
83.	Patch Cord	02	No			
84.	Patch Panel	02	No			
<u>H.</u>	<u>LIBRARY</u>					
85.	Access Switches 48 Ports	02	Nos			
86.	Access Switches 24 Ports	01	Nos			
87.	Wifi Devices	15	Nos			

Seal and Signature of Bidder M/S_____

88.	Cat-e Cable	2500.00	Rft			
89.	Duct Patty 1" wide	1000.00	Rft			
90.	Duct Patty 2" wide	100.00	Rft			
91.	Duct Patty 3" wide	100.00	Rft			
92.	Cabinet for Switch	03	Nos			
93.	Fiber Module	03	Nos			
94.	Face Plate	120	Nos			
95.	Patch Cord	03	No			
96.	Patch Panel	03	No			
I.	<u>ADMIN BLOCK-EXTENSION</u>					
97.	Access Switches 48 Ports	02	Nos			
98.	Wifi Devices	15	Nos			
99.	Cat-e Cable	2500.00	Rft			
100.	Duct Patty 1" wide	1000.00	Rft			
101.	Duct Patty 2" wide	100.00	Rft			
102.	Duct Patty 3" wide	50.00	Rft			
103.	Cabinet for Switch	02	Nos			
104.	Fiber Module	02	Nos			
105.	Face Plate	96	Nos			
106.	Patch Cord	02	No			
107.	Patch Panel	02	No			
J.	<u>ACADEMIC BLOCK;</u>					
108.	Access Switches 48 Ports	04	Nos			
109.	Access Switches 24 Ports	04	Nos			

Seal and Signature of Bidder M/S_____

110.	Wifi Devices	52	Nos			
111.	Cat-e Cable	9000.00	Rft			
112.	Duct Patty 1" wide	4000.00	Rft			
113.	Duct Patty 2" wide	100.00	Rft			
114.	Duct Patty 3" wide	100.00	Rft			
115.	Cabinet for Switch	08	Nos			
116.	Fiber Module	08	Nos			
117.	Face Plate	288	Nos			
118.	Patch Cord	08	No			
119.	Patch Panel	08	No			
K.	<u>HERBARIUM & AGRICULTURE LABS;</u>					
120.	Access Switches 48 Ports	02	Nos			
121.	Wifi Devices	24	Nos			
122.	Cat-e Cable	4000.00	Rft			
123.	Duct Patty 1" wide	1500.00	Rft			
124.	Duct Patty 2" wide	100.00	Rft			
125.	Duct Patty 3" wide	100.00	Rft			
126.	Cabinet for Switch	02	Nos			
127.	Fiber Module	02	Nos			
128.	Face Plate	96	Nos			
129.	Patch Cord	02	No			
130.	Patch Panel	02	No			
L.	<u>MULTIPURPOSE HALL;</u>					
131.	Access Switches 48 Ports	02	Nos			
132.	Wifi Devices	09	Nos			

Seal and Signature of Bidder M/S_____

133.	Cat-e Cable	1500.00	Rft			
134.	Duct Patty 1" wide	5000.00	Rft			
135.	Duct Patty 2" wide	100.00	Rft			
136.	Duct Patty 3" wide	100.00	Rft			
137.	Cabinet for Switch	01	Nos			
138.	Fiber Module	01	Nos			
139.	Face Plate	48	Nos			
140.	Patch Cord	01	No			
141.	Patch Panel	02	No			
	<u>CCTV SYTSEM:</u>					
M.	GIRLS HOSTEL;					
142.	Dome cameras	36	Nos			
143.	Bullet cameras	12	Nos			
144.	Cat-e Cable	1000.00	Rft			
145.	Duct Patty 1" wide	1000.00	Rft			
146.	LED 48"	01	No			
147.	NVR	01	No			
148.	Storage for NVR	01	No			
149.	Coaxial Cable	1000.00	Rft			
N.	COMMUNITY CENTRE;					
150.	Dome cameras	12	Nos			
151.	Bullet cameras	10	Nos			
152.	Cat-e Cable	500.00	Rft			
153.	Duct Patty 1" wide	500.00	Rft			
154.	LED 48"	01	No			

Seal and Signature of Bidder M/S_____

155.	NVR	01	No			
156.	Storage for NVR	01	No			
157.	Coaxial Cable	500.00	Rft			
O.	LIBRARY;					
158.	Dome cameras	01	Nos			
159.	Bullet cameras	32	Nos			
160.	Cat-e Cable	600.00	Rft			
161.	Duct Patty 1" wide	600.00	Rft			
162.	LED 48"	01	No			
163.	NVR	01	No			
164.	Storage for NVR	01	No			
165.	Coaxial Cable	600.00	Rft			
P.	ADMIN BLOCK-EXTENSION;					
166.	Dome cameras	21	Nos			
167.	Bullet cameras	11	Nos			
168.	Cat-e Cable	450.00	Rft			
169.	Duct Patty 1" wide	450.00	Rft			
170.	LED 48"	01	No			
171.	NVR	01	No			
172.	Storage for NVR	01	No			
173.	Coaxial Cable	450.00	Rft			
Q.	ACADEMIC BLOCK;					
174.	Dome cameras	50	Nos			
175.	Bullet cameras	14	Nos			
176.	Cat-e Cable	1200.00	Rft			
177.	Duct Patty 1" wide	1200.00	Rft			
178.	LED 48"	01	No			

Seal and Signature of Bidder M/S_____

179.	NVR	01	No			
180.	Storage for NVR	01	No			
181.	Coaxial Cable	1200.00	Rft			
R.	HERBARIUM & AGRICULTURE LAB;					
182.	Dome cameras	29	Nos			
183.	Bullet cameras	09	Nos			
184.	Cat-e Cable	720.00	Rft			
185.	Duct Patty 1" wide	720.00	Rft			
186.	LED 48"	01	No			
187.	NVR	01	No			
188.	Storage for NVR	01	No			
189.	Coaxial Cable	720.00	Rft			
S.	MULTIPURPOSE HALL					
190.	Dome cameras	03	Nos			
191.	Bullet cameras	11	Nos			
192.	Cat-e Cable	400.00	Rft			
193.	Duct Patty 1" wide	400.00	Rft			
194.	LED 48"	01	No			
195.	NVR	01	No			
196.	Storage for NVR	01	No			
197.	Coaxial Cable	400.00	Rft			

We the undersigned offer to execute and complete such works and remedy any defect therein in conformity with the complete bidding/ contract documents (i-e Conditions of the Contract, Bill of Quantities alongwith preamble, Specifications (Technical & Special Provisions), Appendices, and Drawings within the Stipulated Period in the Quoted Rates by us.

Signature_____

Seal_____

M/S_____

Seal and Signature of Bidder M/S_____

MAJOR SPECIFICATIONS

S. No	Description	Qty	Unit	Specifications
	ICT INFRASTRUCTURE			
A.	<u>SERVER ROOMS ITEMS</u>			
1.	Core Switches 48 Ports	03	No	Attached at (A)
2.	Gate Way Router	01	No	As per HEC latest specifications
3.	Licencing existing Fire Wall	01	No	(03 years) WatchGuard Firebox M470 complete Security Suite (Basic Security Suites include Appliance, Standard Support (24x7), Application Control, WebBlocker, spamBlocker, Gateway Antivirus, Intrusion Prevention Service, Reputation Enabled Defense, and Network Discovery)
4.	Wi-Fi Controller with Licence	02	No	Attached at (C)
5.	Patch Panel	03	No	Patch Panel
6.	Patch Card	03	No	Patch Card
7.	Fiber Module	03	No	Fiber Module
8.	Rack	02	No	42U Imported Rack 600*1000*2000(42U), 3 fixed shelf, 4 fans AU standard, 4 casters, 4 adjustable feet, 40 sets of screws&nuts, 2 grounding wires, mesh doorsFan Kit & Shelf x 2
9.	Server	01	No	Attached at (D)
10.	Cable Manager	01	No	Cable Manager
11.	Configuration of existing Server	01	No	
12.	ODF	01	No	(48 ports imported complete)
13.	UTP Cat-e Cable	100.00	Rft	UTP Cat-e Cable
14.	Laptop Core i-9 complete in all respect	01	No	As per Latest specifications
15.	LED for network data 48"	01	No	48" (smart LED)
16.	LED for network data 60"	01	No	60" (smart LED)
B.	<u>EXTERNAL WORKS/SERVICES</u>			
17.	Fiber Optic (12 Core)	250.00	Rft	Fiber Optic (12 Core)
18.	Fiber Optic (24 Core)	1000.00	Rft	Fiber Optic (24 Core)
19.	Fiber Optic (48 Core)	2000.00	Rft	Fiber Optic (48 Core)
20.	Warning Tap	3250.00	Rft	Warning Tap

Seal and Signature of Bidder M/S_____

21.	Cable Indicator	50	No	Cable Indicator
C.	<u>MISC. ITEMS/ ACCESSORIES</u>			
22.	Splicing Machine for Optical Fiber Jointing.	01	No	Splicing Machine for Optical Fiber Jointing.
23.	Tool Kit	01	No	Tool Kit
D.	<u>ELECTRICAL WORKS/ (ACCESSORIES)</u>			
24.	Hybrid Inverter 2000 watts complete best quality	20	No	As per specifications of MRS-2021
25.	Dry Batteries 200N	40	No	As per specifications of MRS-2021
26.	Stabilizers (Universal) 10,000 Watts (50 to 220) S/P	20	No	As per specifications of MRS-2021
27.	Change over switch 1000 watts S/P	20	No	As per specifications of MRS-2021
28.	Solar Panel (Mono Grade-A) 350wt each	40	No	As per specifications of MRS-2021
29.	Controller 12/24/48V, 50/60 Amp	20	No	As per specifications of MRS-2021
30.	M/S Stand, grill, stair, Ladders etc.	200.00	Kgs	As per specifications of MRS-2021
31.	Dura Duct Patti 3/4" wide	200.00	Rft	As per specifications of MRS-2021
32.	Dura Duct Patti 1" wide	200.00	Rft	As per specifications of MRS-2021
33.	Dura Duct Patti 1.5" wide	200.00	Rft	As per specifications of MRS-2021
34.	Dura Duct Patti 2" wide	200.00	Rft	As per specifications of MRS-2021
35.	GI Pipe (Light) 1" dia	100.00	Rft	As per specifications of MRS-2021
36.	Power Plugs complete heavy duty (porcelain)	20	No	As per specifications of MRS-2021
37.	Power Switch complete heavy duty (porcelain)	20	No	As per specifications of MRS-2021
38.	AC split Unit Complete	02	Job	1.50 Tone
39.	Exhaust Fans (Plastic) with grill 12" square GFC.	02	No	As per specifications of MRS-2021
40.	Wall Bracket Fans 18" dia GFC	02	No	As per specifications of MRS-2021
41.	PVC Pipe 3/4" dia	100.00	Rft	As per specifications of MRS-2021
42.	PVC Pipe 1" dia	100.00	Rft	As per specifications of MRS-2021
43.	PVC Pipe 1.5" dia	100.00	Rft	As per specifications of MRS-2021

Seal and Signature of Bidder M/S_____

44.	Switches with boards 5 amp	10	No	As per specifications of MRS-2021
45.	Gang Switches with boards 5 amp	10	No	As per specifications of MRS-2021
46.	Capper PVC Cable 3/0.029"	100.00	Rft	As per specifications of MRS-2021
47.	Capper PVC Cable 7/0.029"	100.00	Rft	As per specifications of MRS-2021
48.	Capper PVC Cable 7/0.044"	1000.00	Rft	As per specifications of MRS-2021
49.	HDPE Pipe (16PN) Alfa 1" dia	1000.00	Rft	As per specifications of MRS-2021
E.	<u>CIVIL WORKS</u>			
50.	Excavation for Cabling	1000.00	Cft	As per specifications of MRS-2021
51.	S/Laying of First Class Brick (Dry) in Trenches over Cable	1000.00	No	As per specifications of MRS-2021
52.	PCC 1:4:8 in C/Stone	100.00	Cft	As per specifications of MRS-2021
53.	First Class Brick work in man holes in CM 1:4	1000.00	Cft	As per specifications of MRS-2021
54.	RCC 1:2:4 precast or cast in situ	100.00	Cft	As per specifications of MRS-2021
55.	S/F Steel Reinforcement Gde-40 complete	100.00	Kgs	As per specifications of MRS-2021
56.	1/2" thick Plastering to man holes in CM 1:4	100.00	Sft	As per specifications of MRS-2021
57.	Refilling of excavated earth	1000.00	Cft	As per specifications of MRS-2021
58.	S/Laying of Sand over Cable	100.00	Cft	As per specifications of MRS-2021
59.	S/Laying of RCC pipes in position including jointing with CM (1:4) 6" internal dia	1000.00	Rft	As per specifications of MRS-2021
60.	S/Laying of RCC pipes in position including jointing with CM (1:4) 9" internal dia	1000.00	Rft	As per specifications of MRS-2021
61.	MS Steel as in Grill, sheeting, stands, doors, leaves, Chowkats including welding and painting etc.	100.00	Kgs	As per specifications of MRS-2021
62.	S/F in position 12"x12"x1" Tuff tiles made of PCC 1:2:4 in any colour and design	1000.00	Sft	As per specifications of MRS-2021
				As per specifications of MRS-2021

Seal and Signature of Bidder M/S_____

BUILDING WISE REQUIREMENTS				
F.	<u>BOYS HOSTEL</u>			
1.	Access Switches 48 Ports	02	Nos	Attached at (E)
2.	Wifi Devices	30	Nos	Attached at (F&G)
3.	Cat-e Cable	5000.00	Rft	Cat-e Cable
4.	Duct Patty 1" wide	2000.00	Rft	Duct Patty 1" wide
5.	Duct Patty 2" wide	200.00	Rft	Duct Patty 2" wide
6.	Duct Patty 3" wide	100.00	Rft	Duct Patty 3" wide
7.	Cabinet for Switch	02	Nos	12U
8.	Fiber Module	02	Nos	Fiber Module
9.	Face Plate	96	Nos	Face Plate
10.	Patch Cord	02	No	Patch Cord
11.	Patch Panel	02	No	Patch Panel
G.	<u>GIRLS HOSTEL</u>			
12.	Access Switches 48 Ports	02	Nos	As per above specs.
13.	Wifi Devices	30	Nos	---ditto---
14.	Cat-e Cable	5000.00	Rft	---ditto---
15.	Duct Patty 1" wide	2000.00	Rft	---ditto---
16.	Duct Patty 2" wide	200.00	Rft	---ditto---
17.	Duct Patty 3" wide	100.00	Rft	---ditto---
18.	Cabinet for Switch	02	Nos	---ditto---
19.	Fiber Module	02	Nos	---ditto---
20.	Face Plate	96	Nos	---ditto---
21.	Patch Cord	02	No	---ditto---
22.	Patch Panel	02	No	---ditto---
				---ditto---

Seal and Signature of Bidder M/S_____

H.	<u>LIBRARY</u>			
23.	Access Switches 48 Ports	02	Nos	---ditto---
24.	Access Switches 24 Ports	01	Nos	Attached at (H)
25.	Wifi Devices	15	Nos	---ditto---
26.	Cat-e Cable	2500.00	Rft	---ditto---
27.	Duct Patty 1" wide	1000.00	Rft	---ditto---
28.	Duct Patty 2" wide	100.00	Rft	---ditto---
29.	Duct Patty 3" wide	100.00	Rft	---ditto---
30.	Cabinet for Switch	03	Nos	---ditto---
31.	Fiber Module	03	Nos	---ditto---
32.	Face Plate	120	Nos	---ditto---
33.	Patch Cord	03	No	---ditto---
34.	Patch Panel	03	No	---ditto---
I.	<u>ADMIN BLOCK- EXTENSION</u>			
35.	Access Switches 48 Ports	02	Nos	---ditto---
36.	Wifi Devices	15	Nos	---ditto---
37.	Cat-e Cable	2500.00	Rft	---ditto---
38.	Duct Patty 1" wide	1000.00	Rft	---ditto---
39.	Duct Patty 2" wide	100.00	Rft	---ditto---
40.	Duct Patty 3" wide	50.00	Rft	---ditto---
41.	Cabinet for Switch	02	Nos	---ditto---
42.	Fiber Module	02	Nos	---ditto---
43.	Face Plate	96	Nos	---ditto---
44.	Patch Cord	02	No	---ditto---
45.	Patch Panel	02	No	---ditto---

Seal and Signature of Bidder M/S_____

J.	<u>ACADEMIC BLOCK;</u>			
46.	Access Switches 48 Ports	04	Nos	---ditto---
47.	Access Switches 24 Ports	04	Nos	---ditto---
48.	Wifi Devices	52	Nos	---ditto---
49.	Cat-e Cable	9000.00	Rft	---ditto---
50.	Duct Patty 1" wide	4000.00	Rft	---ditto---
51.	Duct Patty 2" wide	100.00	Rft	---ditto---
52.	Duct Patty 3" wide	100.00	Rft	---ditto---
53.	Cabinet for Switch	08	Nos	---ditto---
54.	Fiber Module	08	Nos	---ditto---
55.	Face Plate	288	Nos	---ditto---
56.	Patch Cord	08	No	---ditto---
57.	Patch Panel	08	No	---ditto---
K.	<u>HERBARIUM & AGRICULTURE LABS;</u>			
58.	Access Switches 48 Ports	02	Nos	---ditto---
59.	Wifi Devices	24	Nos	---ditto---
60.	Cat-e Cable	4000.00	Rft	---ditto---
61.	Duct Patty 1" wide	1500.00	Rft	---ditto---
62.	Duct Patty 2" wide	100.00	Rft	---ditto---
63.	Duct Patty 3" wide	100.00	Rft	---ditto---
64.	Cabinet for Switch	02	Nos	---ditto---
65.	Fiber Module	02	Nos	---ditto---
66.	Face Plate	96	Nos	---ditto---
67.	Patch Cord	02	No	---ditto---
68.	Patch Panel	02	No	---ditto---

Seal and Signature of Bidder M/S_____

L.	<u>MULTIPURPOSE HALL;</u>			
69.	Access Switches 48 Ports	02	Nos	---ditto---
70.	Wifi Devices	09	Nos	---ditto---
71.	Cat-e Cable	1500.00	Rft	---ditto---
72.	Duct Patty 1" wide	5000.00	Rft	---ditto---
73.	Duct Patty 2" wide	100.00	Rft	---ditto---
74.	Duct Patty 3" wide	100.00	Rft	---ditto---
75.	Cabinet for Switch	01	Nos	---ditto---
76.	Fiber Module	01	Nos	---ditto---
77.	Face Plate	48	Nos	---ditto---
78.	Patch Cord	01	No	---ditto---
79.	Patch Panel	02	No	---ditto---
	<u>CCTV SYTSEM:</u>			
M.	<u>GIRLS HOSTEL;</u>			
80.	Dome cameras	36	Nos	Attached at (I)
81.	Bullet cameras	12	Nos	Attached at (I)
82.	Cat-e Cable	1000.00	Rft	As per above
83.	Duct Patty 1" wide	1000.00	Rft	As per above
84.	LED 48"	01	No	As per above
85.	NVR	01	No	Attached at (J)
86.	Storage for NVR	01	No	Attached at (J)
87.	Coaxial Cable	1000.00	Rft	Coaxial Cable
N.	<u>COMMUNITY CENTRE;</u>			
88.	Dome cameras	12	Nos	---ditto---
89.	Bullet cameras	10	Nos	---ditto---

Seal and Signature of Bidder M/S_____

90.	Cat-e Cable	500.00	Rft	---ditto---
91.	Duct Patty 1" wide	500.00	Rft	---ditto---
92.	LED 48"	01	No	---ditto---
93.	NVR	01	No	---ditto---
94.	Storage for NVR	01	No	---ditto---
95.	Coaxial Cable	500.00	Rft	---ditto---
O.	LIBRARY;			
96.	Dome cameras	01	Nos	---ditto---
97.	Bullet cameras	32	Nos	---ditto---
98.	Cat-e Cable	600.00	Rft	---ditto---
99.	Duct Patty 1" wide	600.00	Rft	---ditto---
100.	LED 48"	01	No	---ditto---
101.	NVR	01	No	---ditto---
102.	Storage for NVR	01	No	---ditto---
103.	Coaxial Cable	600.00	Rft	---ditto---
P.	ADMIN BLOCK- EXTENSION;			
104.	Dome cameras	21	Nos	---ditto---
105.	Bullet cameras	11	Nos	---ditto---
106.	Cat-e Cable	450.00	Rft	---ditto---
107.	Duct Patty 1" wide	450.00	Rft	---ditto---
108.	LED 48"	01	No	---ditto---
109.	NVR	01	No	---ditto---
110.	Storage for NVR	01	No	---ditto---
111.	Coaxial Cable	450.00	Rft	---ditto---

Seal and Signature of Bidder M/S_____

Q.	ACADEMIC BLOCK;			
112.	Dome cameras	50	Nos	---ditto---
113.	Bullet cameras	14	Nos	---ditto---
114.	Cat-e Cable	1200.00	Rft	---ditto---
115.	Duct Patty 1" wide	1200.00	Rft	---ditto---
116.	LED 48"	01	No	---ditto---
117.	NVR	01	No	---ditto---
118.	Storage for NVR	01	No	---ditto---
119.	Coaxial Cable	1200.00	Rft	---ditto---
R.	HERBARIUM & AGRICULTURE LAB;			
120.	Dome cameras	29	Nos	---ditto---
121.	Bullet cameras	09	Nos	---ditto---
122.	Cat-e Cable	720.00	Rft	---ditto---
123.	Duct Patty 1" wide	720.00	Rft	---ditto---
124.	LED 48"	01	No	---ditto---
125.	NVR	01	No	---ditto---
126.	Storage for NVR	01	No	---ditto---
127.	Coaxial Cable	720.00	Rft	---ditto---
S.	MULTIPURPOSE HALL			
128.	Dome cameras	03	Nos	---ditto---
129.	Bullet cameras	11	Nos	---ditto---
130.	Cat-e Cable	400.00	Rft	---ditto---
131.	Duct Patty 1" wide	400.00	Rft	---ditto---
132.	LED 48"	01	No	---ditto---
133.	NVR	01	No	---ditto---
134.	Storage for NVR	01	No	---ditto---
135.	Coaxial Cable	400.00	Rft	---ditto---

Seal and Signature of Bidder M/S_____

Major Specifications (Minimum Technical Requirements)

Core Switch 48 Ports (Annex-A)	
Basic Performance	48 x 10 Gig SFP+, 6 x 40/100 Gig QSFP28, Management port(RJ45), Console Port(RJ45), USB 2.0
	Switching capacity: 2.1Tbps
	Forwarding Capacity 470 Mpps
	Support Dual pluggable power modules, 1+1 power backup
	Support Operating temperature -5°C to +45°C
Features	Switch should have integrated WLC feature that can be used in future to Manage wireless access points (1,000 or more APs), without any additional hardware.
	Support 04 (Four), Fans must be pluggable
	The equipment must support up to 380K MAC address tables , 255K IPv4 Routes, 75K IPv6 routes
	Support Packet filtering based on source MAC addresses
	Support Static Route, OSPF, OSPFv3, IS-IS, BGP, BGP4+, Equal Cost Multipath , VXLAN, MPLS L3VPN/L2VPN
	Support BFD for OSPF, BFD for IS-IS, BFD, and BFD for PIM, STP (IEEE 802.1d), RSTP (IEEE 802.1w), MSTP (IEEE 802.1s), IGMP v1/v2/v3
	Support Rate limiting inbound/outbound directions of a port, WRED, Eight queues on every port
	Support AP access control, AP domain management, AP configuration template management and Radio management
	Support RBAC, DoS attack defense, port security, sticky MAC, AAA authentication, RADIUS authentication,
Support SNMP v1/v2c/v3, RMON, Web-based NMS, NetStream Telemetry, NETCONF/YANG	
Warranty Service	3 year 9x5xNBD
Others	Brand should be minimum in Visionaries position in Wired and Wireless LAN Infrastructure at least once in last 3 years in Gartner report

Seal and Signature of Bidder M/S_____

Wireless controller		Annex-C
Number of managed Aps	Should support ≥ 250 APs managed by a single WAC	
Number of access users	Should support $\geq 4K$ users connected to a single WAC	
	Should include 64 licenses for APs	
Forwarding Capacity	10 Gbit/s	
Port requirements	10 x GE + 2 x 10 GE SFP+	
Routing features	Support Static routing, RIP-1/RIP-2, OSPF, BGP, IS-IS, routing policy, and policy-based routing (PBR)	
Authentication and encryption	Support MAC address authentication, 802.1X authentication, Portal authentication, MAC + Portal authentication, and WAPI authentication WPA, WEP, TKIP, and CCMP for encryption	
	Built-in Portal/AAA server for Portal/802.1X authentication/ PPSK authentication	
IPv6	An AP can establish CAPWAP tunnels with a WAC through the IPv4/IPv6 dual-stack and can be managed by the WAC	
	Support IPv6 dynamic routing protocols, such as OSPFv3 and BGP4+	
Functions/ Features	Support Smart roaming based on 802.11k and 802.11v	
	Support URL filtering is supported to permit or deny users' access to web page resources	
	Support antivirus function	
	Support Intrusion prevention to detect and terminate intrusion behaviors, including buffer overflow attacks, Trojan horses, and worms	
	Should support band steering function	
	APs supporting dual 5G radios automatically negotiate with each other to switch 2.4 GHz radios to the 5 GHz radios, reducing 2.4 GHz co-channel interference and increasing system capacity.	
	The WAC supports spectrum analysis, so that you can view the real-time FFT chart, channel metrics, FFT duty cycle, interference strength, and channel quality.	
	The SSID can be enabled or disabled periodically. That is, the specified SSID can be disabled from transmitting signals within a specified period of time, facilitating network control	
Reliability	1+1 or N+1 backup of ACs, and configuration synchronization between active and standby WACs are supported.	
	Supports port backup based on the Link Aggregation Control Protocol (LACP)	
	The WAC and APs are upgraded separately. In addition, services are not interrupted during the upgrade in dual-WAC redundancy mode.	
Management features	Support configuration management through the CLI, web system, and SSH is supported, and SNMPv1/v2/v3	
	Should support network-wide wireless performance monitoring for WACs, APs, radios, and STAs	
	WAC should support visualized E2E fault diagnosis, display of user, AP, and WAC connectivity diagrams, and display of root causes and handling suggestions	
	Should support intelligent upgrade. The latest software is automatically downloaded from the cloud and upgrade is performed as planned	
	Support Automation with SDN Controller	

Warranty Service	3 year 9x5xNBD warranty
Others	Brand should be minimum in Visionaries position in Wired and Wireless LAN Infrastructure at least once in last 3 years in Gartner report

Seal and Signature of Bidder M/S_____

Server		Annex-D
Hardware		
Product form	4 U dual-socket rack server	
Processor	2 x 64-bit 8-core processor, 2.0 GHz	
Memory	48 GB DDR4, supporting up to 32 DIMMs and 2,933 MHz	
System disk	2 x 1.2 TB SAS system disks, RAID 1 (high reliability)	
Video/Image storage	Up to 38 x 8 TB/10 TB/16 TB SATA disks	
Network port	8 x GE + 2 x 10GE	
Cloud platform		
Cloud platform	Container management platform vPaaS2.0	
Cloud management	Container-based VMS software; on-demand resource deployment	
OS	Euler OS	
Video/Image management		
Service functions	Live video, playback, and video wall	
Encoding standard	H.264, H.265, SVAC, and MJPEG	
Protocol supported	TCP, UDP, IPv4, HTTP, HTTPS, RTP, RTSP, RTCP, SIP, ARP, SSL, NTP, and SMTP	
Data protection	Safe Video+: Data can be read and written upon RAID group failure.	
	Geographic redundancy, supporting service migration in minutes upon faults at a site	
Value-added features	Direct storage of streams. No extra forwarding server is required.	
	Backup of live video, historical recordings, and images.	
Video/Image access	1024-channel @ 2 Mbit/s	
Live video forwarding	1024-channel @ 2 Mbit/s	
Device-edge-cloud synergy		
Multi-level and multi-domain networking	200 domains; 300,000 cameras from third-party VMS and 300,000 cameras from Huawei VMS	
Open framework		
Southbound connection	Access plug-in integration, supporting ONVIF 2.4, ONVIF Profile S,	
Northbound connection	SDK and RESTful	
Physical specifications		
Environment requirements	Operating temperature: 5°C to 35°C; storage temperature: -40°C to +65°C	
	Operating humidity: 8%-90% (non-condensing); storage humidity: 5%-95% (non-condensing)	
Power consumption	Maximum: < 900 W (including disks)	
Power	2 x hot-swappable 900 W PSUs in 1+1 redundancy	

Seal and Signature of Bidder M/S_____

supply	Input voltage: 100-240 V AC, 50 Hz or 60 Hz
Fan	4 x hot-swappable fan modules in N+1 redundancy
Dimensions (H x W x D)	175 mm x 447 mm x 790 mm
Weight	65 kg (fully configured)

Seal and Signature of Bidder M/S_____

Access Switch 48 Ports (Annex-E)	
Basic Performance	48 x 10 Gig SFP+, 6 x 40/100 Gig QSFP28, Management port(RJ45), Console Port(RJ45), USB 2.0
	Switching capacity: 2.1Tbps
	Forwarding Capacity 470 Mpps
	Support Dual pluggable power modules, 1+1 power backup
	Support Operating temperature -5°C to +45°C
Features	Switch should have integrated WLC feature that can be used in future to Manage wireless access points (1,000 or more APs), without any additional hardware.
	Support 04 (Four), Fans must be pluggable
	The equipment must support up to 380K MAC address tables , 255K IPv4 Routes, 75K IPv6 routes
	Support Packet filtering based on source MAC addresses
	Support Static Route, OSPF, OSPFv3, IS-IS, BGP, BGP4+, Equal Cost Multipath , VXLAN, MPLS L3VPN/L2VPN
	Support BFD for OSPF, BFD for IS-IS, BFD, and BFD for PIM, STP (IEEE 802.1d), RSTP (IEEE 802.1w), MSTP (IEEE 802.1s), IGMP v1/v2/v3
	Support Rate limiting inbound/outbound directions of a port, WRED, Eight queues on every port
	Support AP access control, AP domain management, AP configuration template management and Radio management
	Support RBAC, DoS attack defence, port security, sticky MAC, AAA authentication, RADIUS authentication,
Support SNMP v1/v2c/v3, RMON, Web-based NMS, Net Stream Telemetry, NETCONF/YANG	
Warranty Service	3 year 9x5xNBD
Others	Brand should be minimum in Visionaries position in Wired and Wireless LAN Infrastructure at least once in last 3 years in Gartner report

Seal and Signature of Bidder M/S_____

Technical Specification	Indoor AP	Annex-F
Basic Performance	Dual Band 2.4 GHz and 5 GHz bands, at a rate of up to 575Mbps at 2.4 GHz (2x2), 1.2 Gbps at 5 GHz (2x2), and 1.775Gbps for the device	
	Compliance with IEEE 802.11ax and compatibility with IEEE 802.11a/b/g/n/ac/ac Wave 2	
	1 x 10M/100M/1GE (RJ-45) 1 x USB,BLE 5.0	
	Memory DDR4: 1 GB and Flash 512 MB	
	Built-in smart antennas	
	Antenna Gain 2.4GHz: 4dBi 5GHz: 5dBi	
Features	Support the Fat, Fit, and cloud working modes	
	Support number of SSIDs for each radio 15	
	Support number of users (512/Radio)	
	Support WEP, WPA/WPA2-PSK, WPA3-SAE, WPA/WPA2-PPSK, WPA/WPA2/WPA3-802.1x, and WAPI authentication/encryption modes	
	Support 802.11r fast roaming	
	Support SSID-based VLAN assignment	
	Support Air interface HQoS scheduling	
	Support SNMP v1/v2/v3 ,SSH v2,DHCP,NAT,ACL	
	Support WMM power saving	
	Support IPsec/DTLS hardware encryption	
	Remote wireless O&M through the Bluetooth console port	
Operating temperature -10°C to +50°C		
Support 802.3at/af		
Warranty Service	3 year 9x5xNBD	
Others	Brand should be minimum in Visionaries position in Wired and Wireless LAN Infrastructure at least once in last 3 years in Gartner report	

Seal and Signature of Bidder M/S_____

Technical Specification	Outdoor AP Annex-G
Basic Performance	Dual Band 2.4 GHz (2x2 MIMO) and 5 GHz (2x2 MIMO), achieving rates of up to 0.575 Gbit/s and 1.2 Gbit/s, respectively, and a maximum rate of 1.7 Gbit/s for the device Dual 5G Band: 5 GHz (2x2 MIMO) and 5 GHz (2x2 MIMO), each with a rate of up to 1.2 Gbit/s at 5 GHz, providing a maximum rate of 2.3 Gbit/s for the device
	Compliance with IEEE 802.11ax and compatibility with IEEE 802.11a/b/g/n/ac/ac Wave 2
	1 x10/100M/1GE + 1 x GE SFP and BLE 5.0
	Memory DDR4: 1 GB and Flash 512 MB
	Support 4x External antennas with 5 KA surge protection without requiring external surge protection hardware
	Antenna Gain: 2.4GHz: 10dBi 5GHz: 11dBi
Features	Support the Fat, Fit, and cloud working modes
	Support number of SSIDs for each radio 15
	Support number of users (512/Radio)
	Support WEP, WPA/WPA2-PSK, WPA3-SAE, WPA/WPA2-PPSK, WPA/WPA2/WPA3-802.1x, and WAPI authentication/encryption modes
	Support 802.11r fast roaming
	Support SSID-based VLAN assignment
	Support Air interface HQoS scheduling
	Support SNMP v1/v2/v3 ,SSH v2,DHCP,NAT,ACL,SAVI,mDNS,WIDS/WIPS
	Support WMM power saving
	Support IPsec/DTLS hardware encryption
	Air interface HQoS scheduling
	Remote wireless O&M through the Bluetooth console port
	6 KA/6 KV surge protection for Ethernet ports, IP68 waterproof and dustproof design
	Operating Temperature -40°C to + 65°C
Support 802.3at/bt	
Warranty Service	3 year 9x5xNBD
Others	Brand should be minimum in Visionaries position in Wired and Wireless LAN Infrastructure at least once in last 3 years in Gartner report

Seal and Signature of Bidder M/S_____

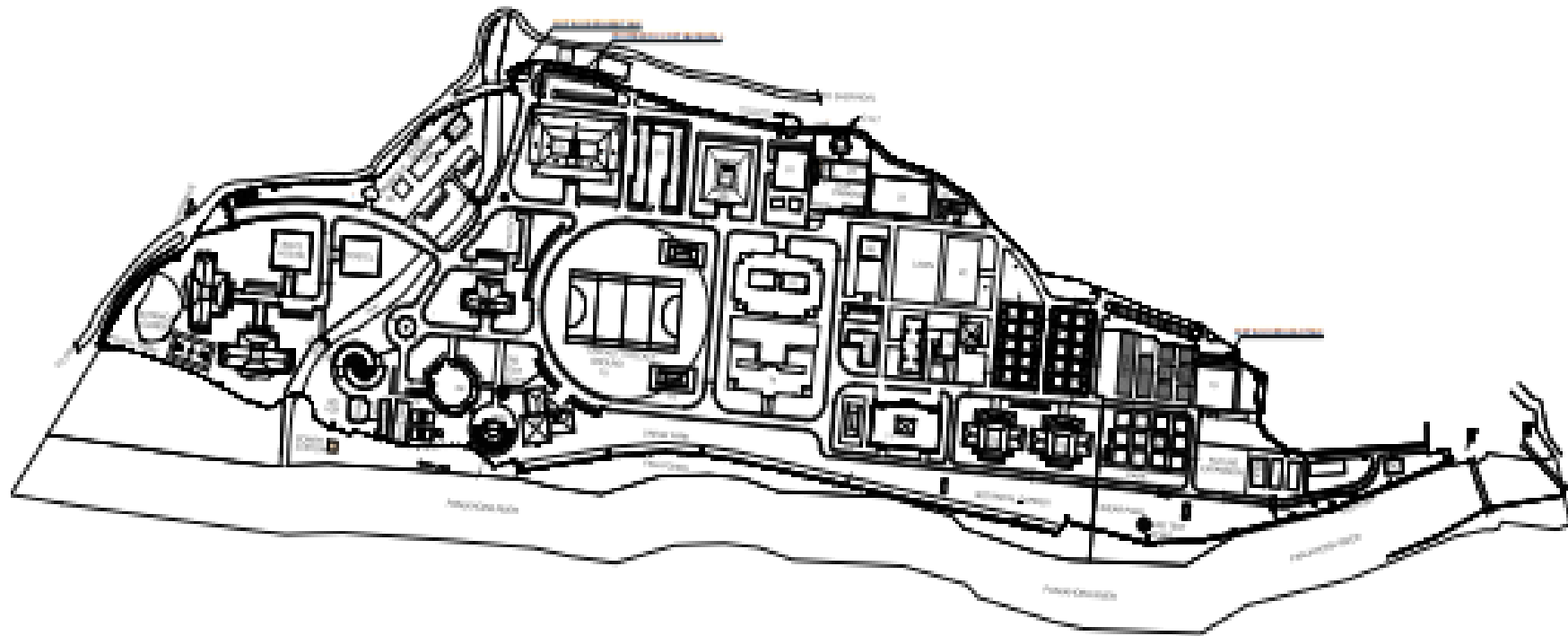
Technical Specification	Access Switch 24 Ports (Annex-F)
Basic Performance	48 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports,USB 2.0,Console port (RJ45)
	Forwarding performance: 95 Mpps
	Switching capacity: 120 Gbps
	802.3af (15.4 W per port): 24
	802.3at (30 W per port): 12
	POE Power Budget 380 W
	Memory 512 MB and Flash 512 MB
Features	The equipment must support up to 30K MAC address tables , 4K ARP entries and 4K IPv4 Routes.
	Must support MAC addresses, IP Address based, protocol-based, and interfaces based VLAN assignment.
	Support Service interface-based stacking
	Should support Ethernet Ring Protection Switching
	Support Routing, IPv4 and IPv6, RIP, OSPFv2, v3, DHCP Server, PBR
	Switch must support the IEEE 802.1ad (Q-in-Q) standard, voice VLAN STP, RSTP, MSTP or equivalent.
	Support Traffic classification, Traffic behaviour, Traffic shaping, Congestion avoidance, Congestion management
	The equipment must support SNMP-based NMS for unified configuration, Telnet, NETCONF/YANG,SSH, CLI, 802.1X authentication, Web page-based configuration and management and batch remote upgrade.
Warranty Service	3 year 9x5xNBD
Others	Brand should be minimum in Visionaries position in Wired and Wireless LAN Infrastructure at least once in last 3 years in Gartner report

Cameras		Annex-I
Major Specifications		
Main control	Computing power	1 TOPS
	Memory	DDR3 0.25 GB
	Flash type	SPI NAND Flash 256.0 MB
	Max capacity	MicroSD card slot that supports microSDHC/microSDXC; maximum memory card capacity: 256 GB
Camera	Focal length	2.8mm
	Max Aperture	F1.6
	Image sensor	1/2.7" CMOS/2MP 1920(H)*1080(V)
	Lens aperture type	Fixed iris
	Angle of view	Horizontal: 111.4°; vertical: 58.9°
	IR range	30m
Intelligence		
Target/Body	Target	Target detection
	Person	Person detection
Other intelligences	Behavior analysis	Fast movement/Tripwire crossing/Intrusion/Area entry or exit /Loitering
	Crowd flow analysis	Queue length/Head counting/Crowd flow statistics
	Defocus	Supported
Image		
Codec	Video encoding format	MJPEG/H.264/H.265
	Video encoding channels	Triple streams
	Intelligent encoding	Extra265/264
	Video frame rate	Configurable (25 fps or 30 fps)
Image ISP	Min illumination	Color: 0.002 lux (F1.6, AGC ON); B/W: 0.001 lux (F1.6, AGC ON) or 0 lux (infrared illuminator enabled)
	Day/Night mode	Supported; automatic (ICR)/Color/B/W (default: automatic) Sensitivity level: high (default), medium, and low Image triggering /Internal triggering
	WDR	120 dB
	White balance	Auto/Manual/OnePush
	Highlight compensation	Supported
	Digital noise reduction	2D/3D noise reduction
	Defogging	Supported
Networking		

Seal and Signature of Bidder M/S_____

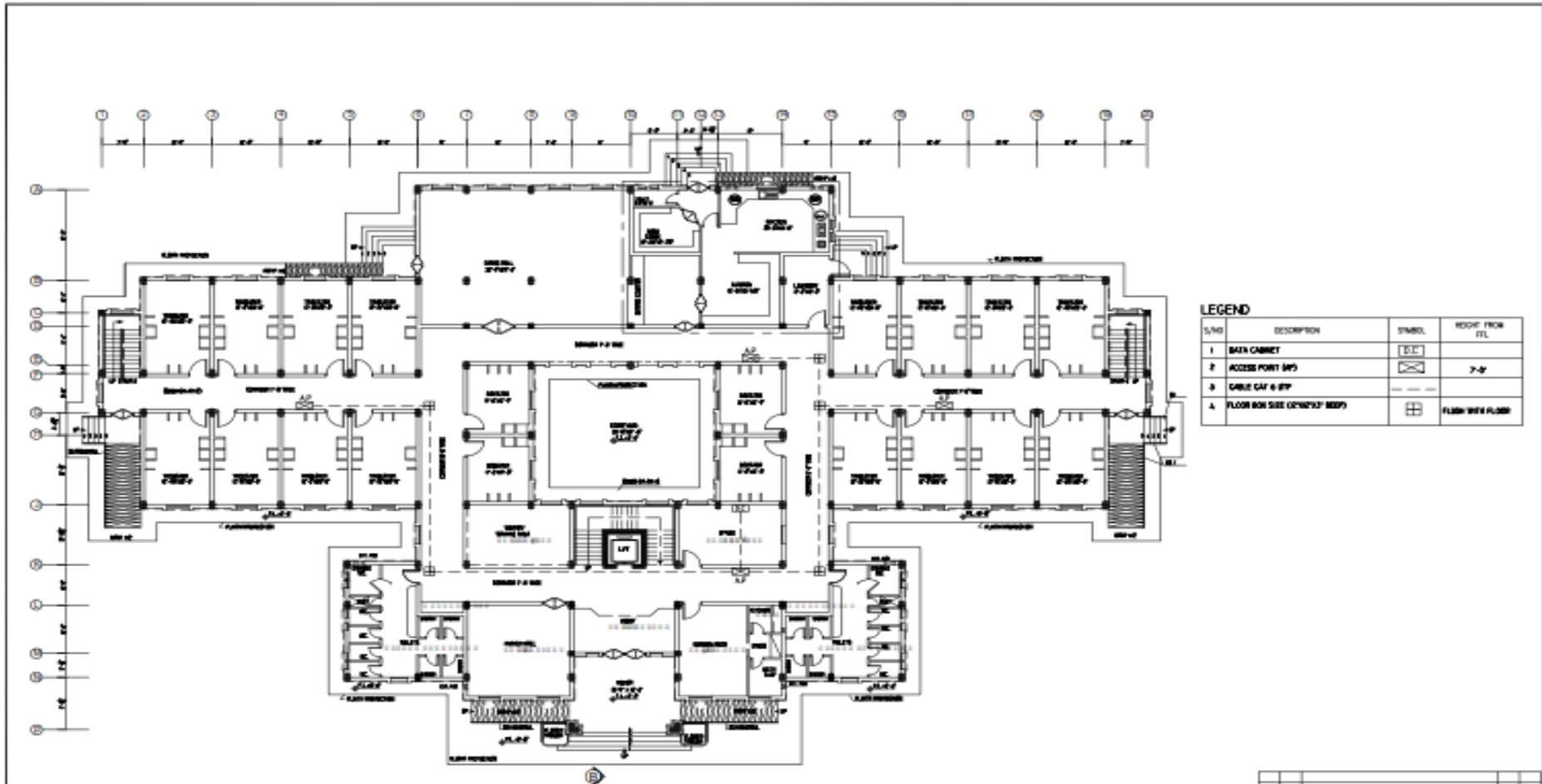
Network transmission	Protocols supported by IPv4	TCP, UDP, IPv4, DHCP, DNS, ICMP, IGMP, HTTPS, FTP, SFTP, RTP, RTSP, RTCP, SIP, ARP, SSL, NTP, SNMP (V1/V2/V3), 802.1x, QoS, SMTP, and PPPoE. Note: The northbound protocol needs to adapt to the PPPoE dialup scenario.
	Protocols supported by IPv6	HTTPS,RTP,RTCP,RTSP,Onvif,IPv6,ICMPv6,DHCPv6
Security		
Data security	Media security	Supports web- or SDK-based media stream encryption; supports a maximum of two channels of encrypted media streams; supports encrypted data storage on SD cards
Service security	User rights	Three user roles: administrator, advanced operator, and common operator
	Security mode	User name and password authentication, 802.1X authentication, and HTTPS digital certificate
	Secure boot	Supported
General Specifications		
Ports	Storage port	MicroSD card slot that supports microSDHC/microSDXC; maximum memory card capacity: 256 GB
	Network port	One RJ45 10M/100M adaptive Ethernet port
	Audio port	Supported (one-channel built-in MIC)
General Specifications	General Specifications	
Power	Power type	12 V DC and PoE (IEEE 802.3af)
	Power consumption	Maximum: 5.8 W; typical: 3.3 W
Operating temperature	Operating temperature	-30°C to +60°C
Operating humidity	Operating humidity	5% to 95% (non-condensing)
Surge protection	Surge protection	2 kV
IP rating	IP rating	IP67
Other	Equipment Anti Corrosion	Class C corrosion resistance
	Weight	Net weight 0.38 kg;Gross weight 0.5 kg
	Dimensions	Device dimensions ϕ 104 mm x 98 mm;Package dimensions 115 mm x 125 mm x 113 mm

NVR		Annex-J
Audio and video output		
HDMI channels	8 channels	
Video output through HDMI	1024×768P@60Hz,1280×720P@60Hz, 1366×768P@60Hz,1920×1080P@60Hz, 3840×2160@60Hz (Only HDMI 2, HDMI 4, HDMI 6, and HDMI 8 interfaces support the 3840 x 2160 resolution.)	
Audio and video decoding		
Video standard	H.264, H.265	
network video input	4K,1080P,1080I,720P,D1	
Video decoding capacity	8CH 4K or 64ch 1080P or 128ch 720P or 256ch D1	
Screen division	Support 1/4/6/8/9/10/16/25 splitting and display	
External Ports		
Network port	One RJ45 100/1000 Mbit/s self-adaptive Ethernet port	
Others		
Power supply	AC100V ~ 220V	
Operating temperature	0 ~ 55°C	
Operating humidity	10% ~ 90%	
Net weight	4.0KG	
Physical dimensions	464 (Length) *370.3 (Width) *44.5 (Height) mm	
Other Features		
Maximum Resolution Capacity	Video output through High-definition Multimedia Interface (HDMI) ports. Maximum resolution: 3840 x 2160 (4K) at 60Hz.	
Video Decoding	Video decoding in H.265/H.264 format.	
Real-Time Decoding	Real-time decoding of 8-channel 4K or 64-channel 1080P or 128-channel 720P.	
Number of Windows	Support video-splitting output, up to 25 windows split on one monitor.	



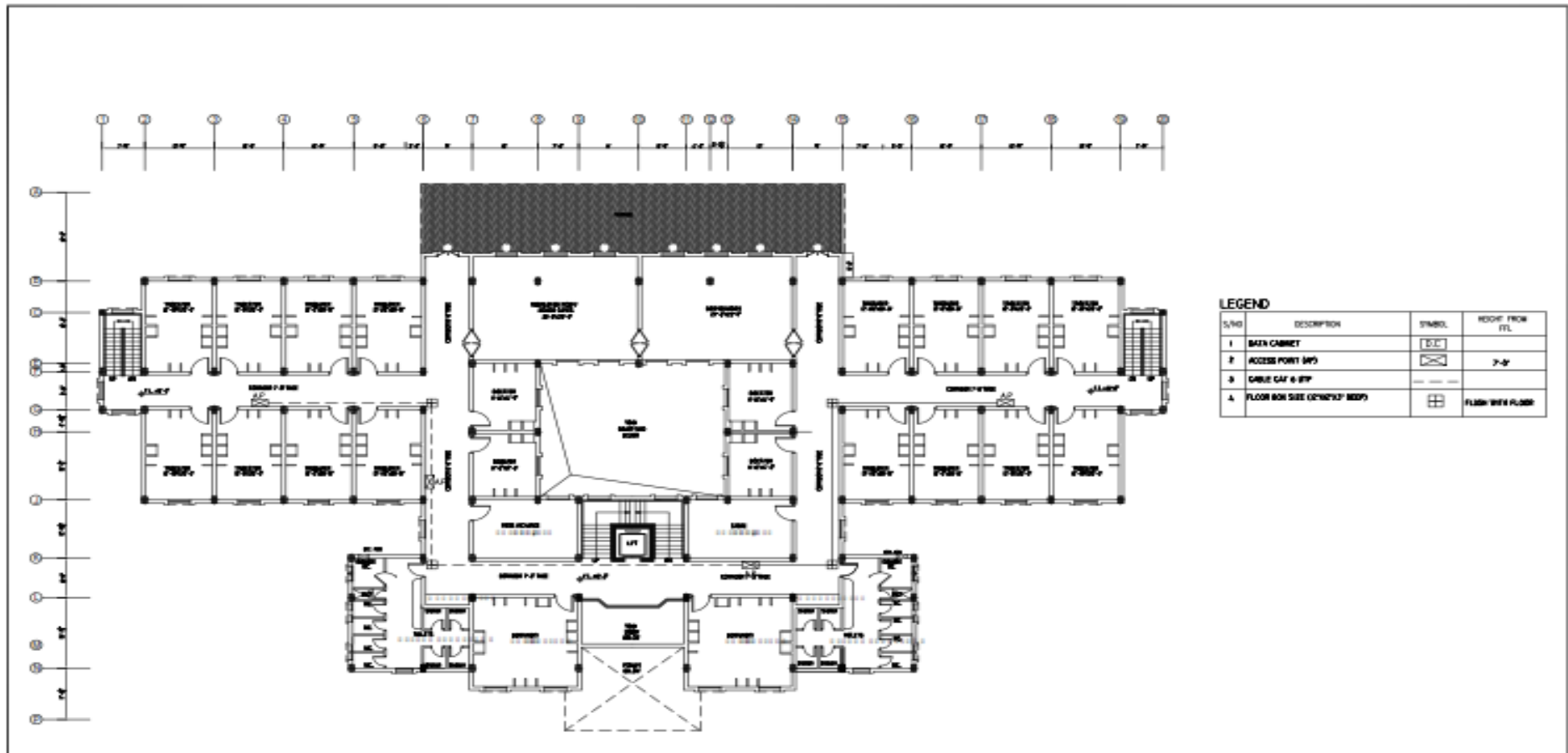
MASTER PLAN

Seal and Signature of Bidder M/S _____



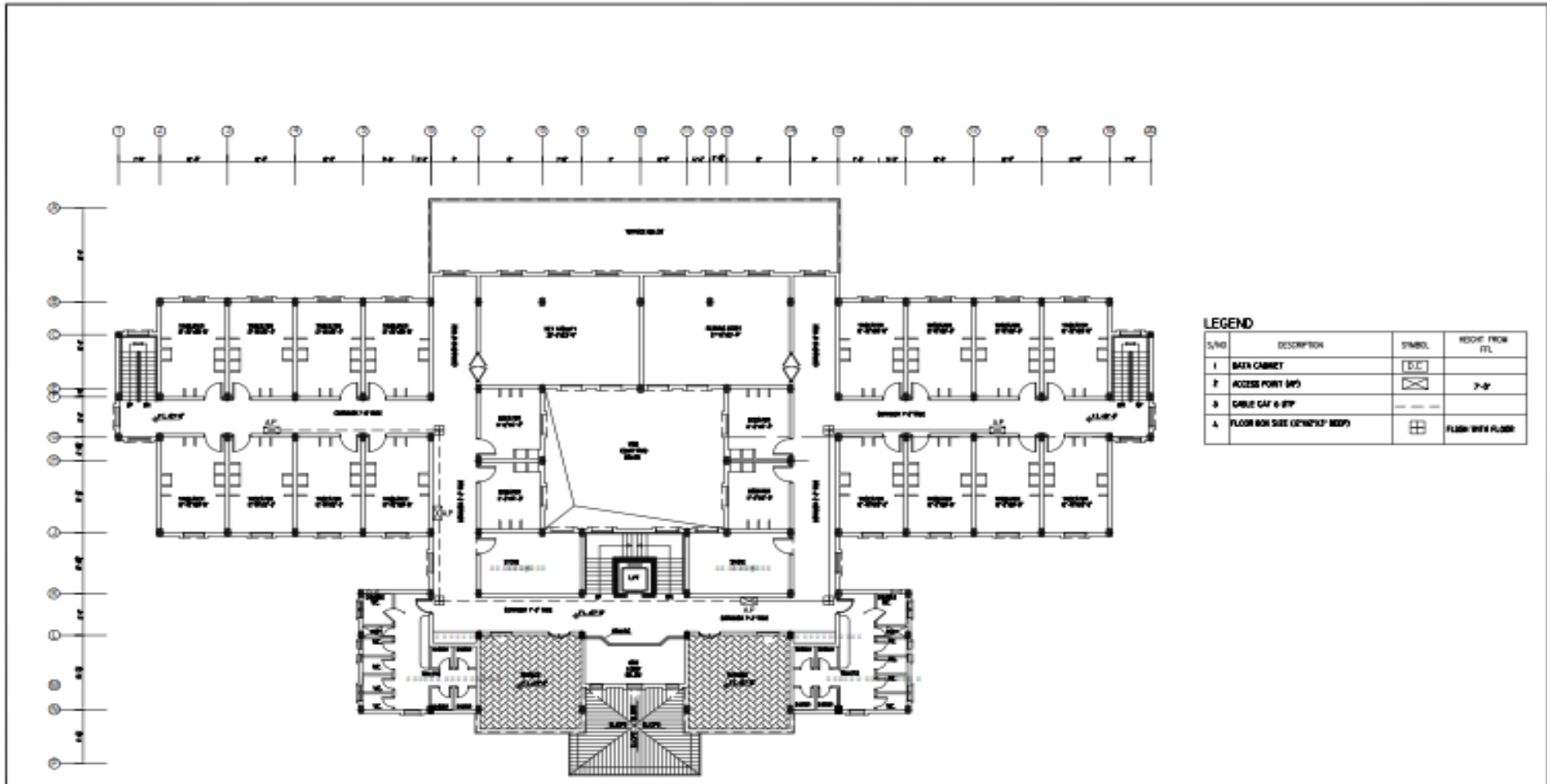
Ground Floor Plan of Boys Hostel (Networking)

Seal and Signature of Bidder M/S _____



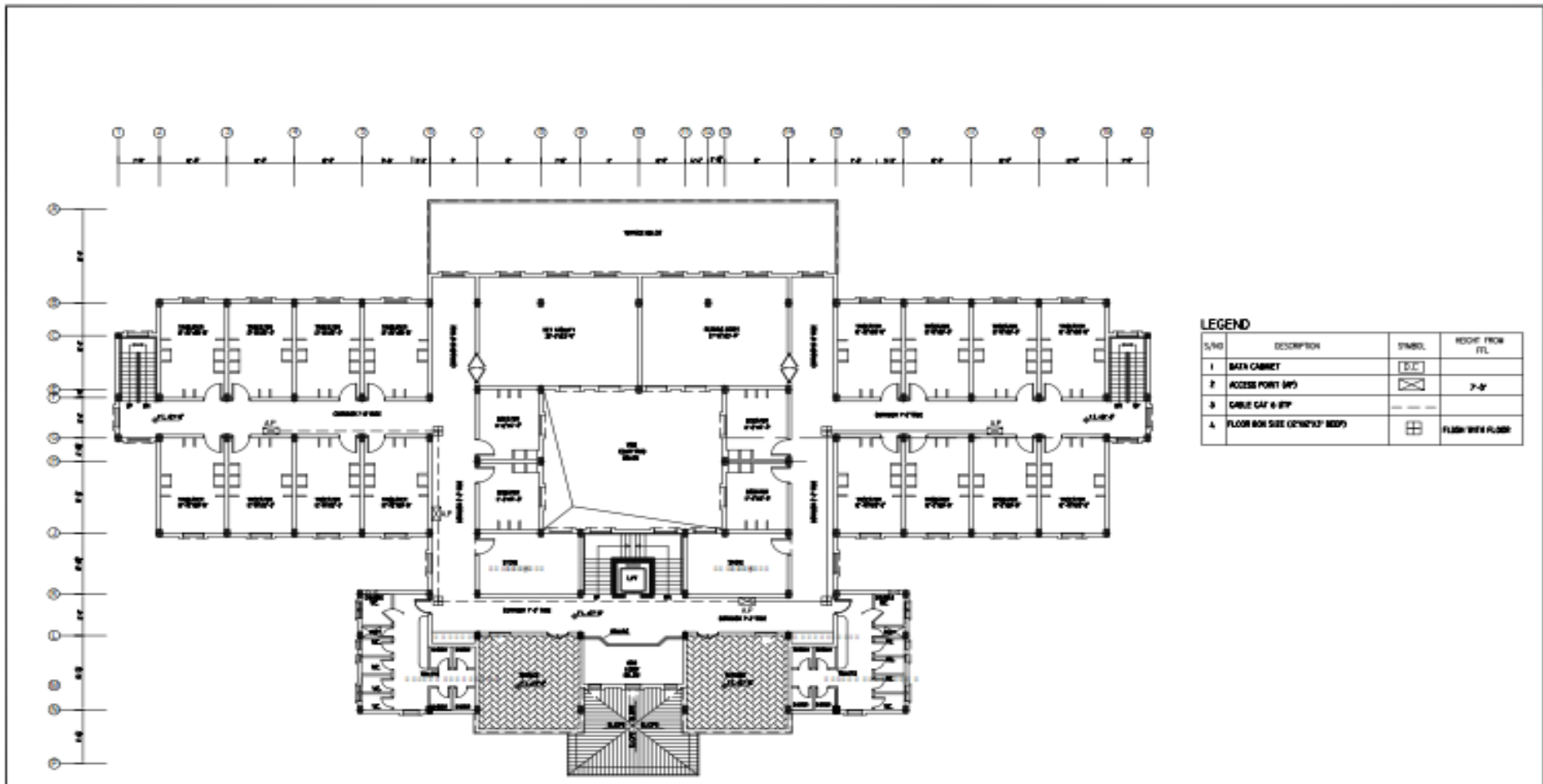
First Floor Plan of Boys Hostel (Networking)

Seal and Signature of Bidder M/S _____



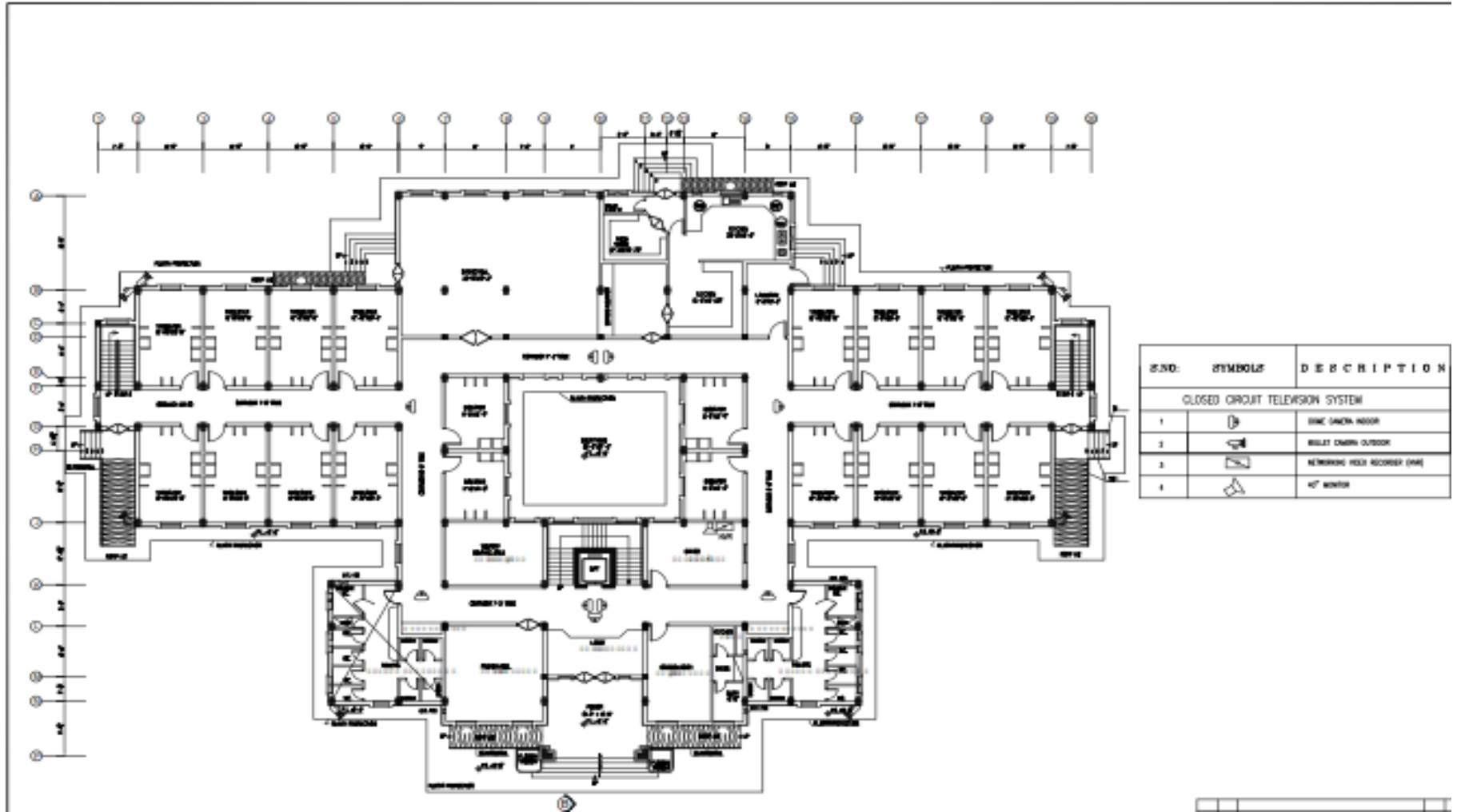
Second Floor Plan of Boys Hostel (Networking)

Seal and Signature of Bidder M/S _____



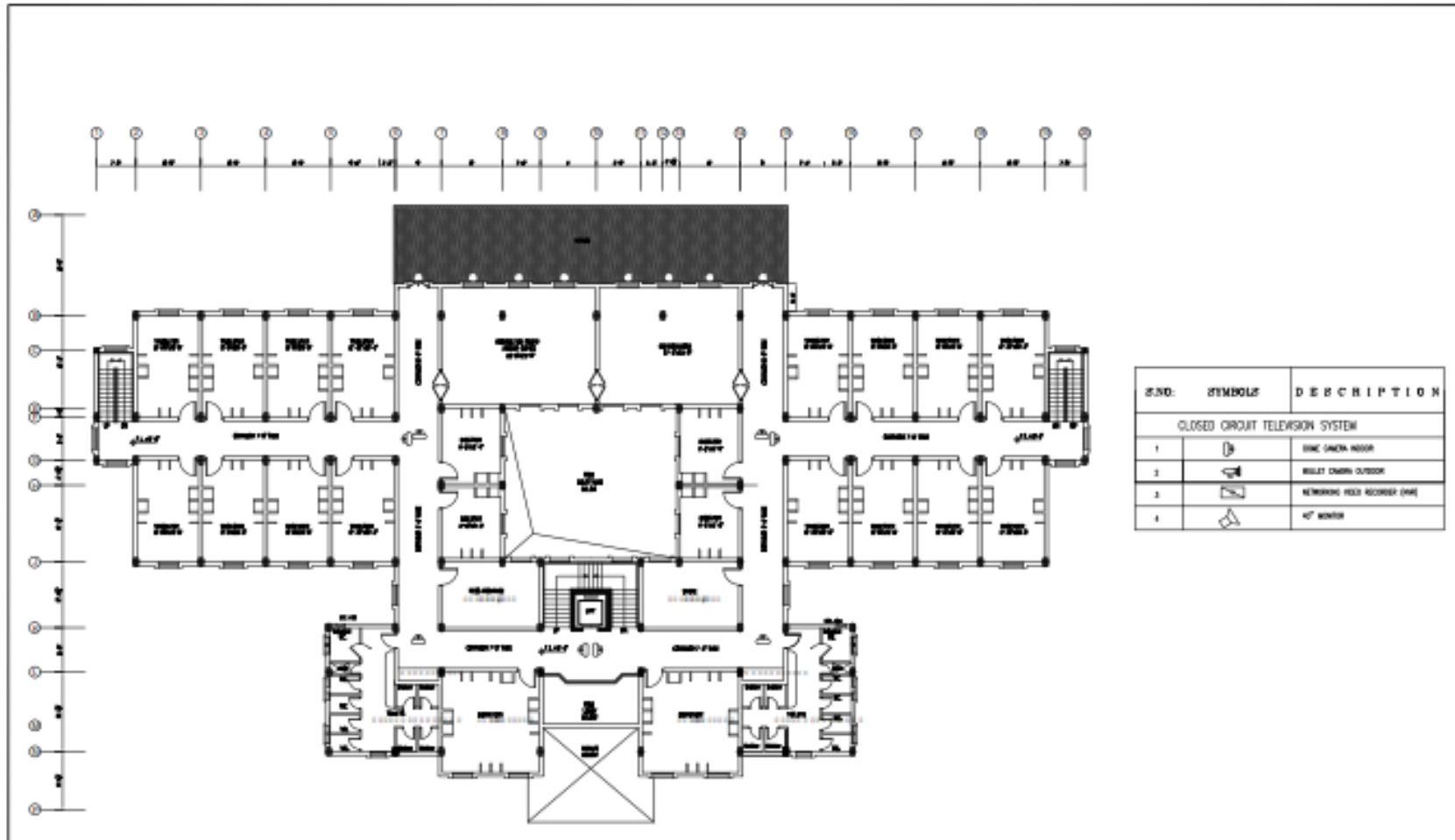
Third Floor Plan of Boys Hostel (Networking)

Seal and Signature of Bidder M/S _____



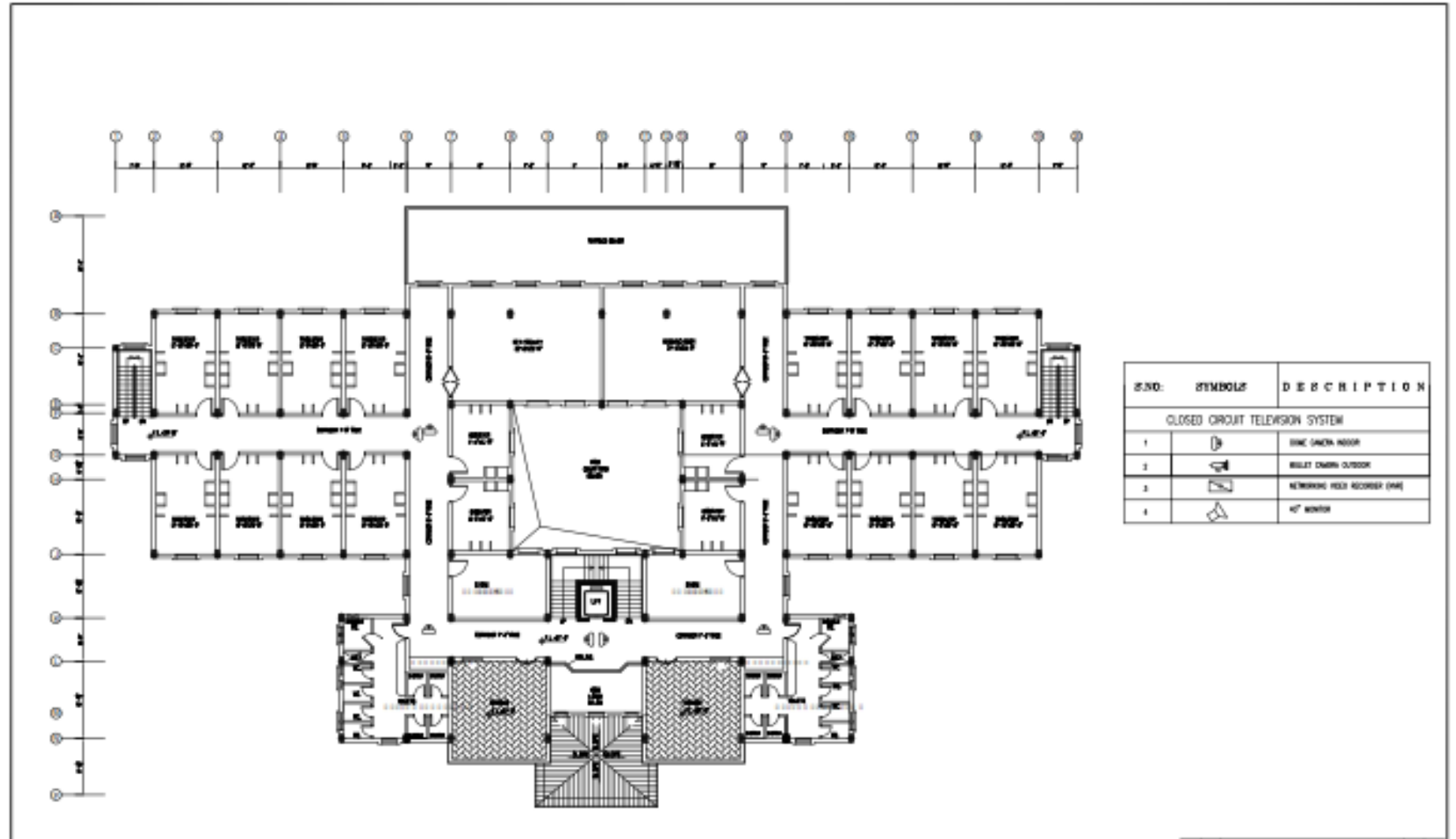
Ground Floor Plan of Boys Hostel (CCTV)

Seal and Signature of Bidder M/S _____



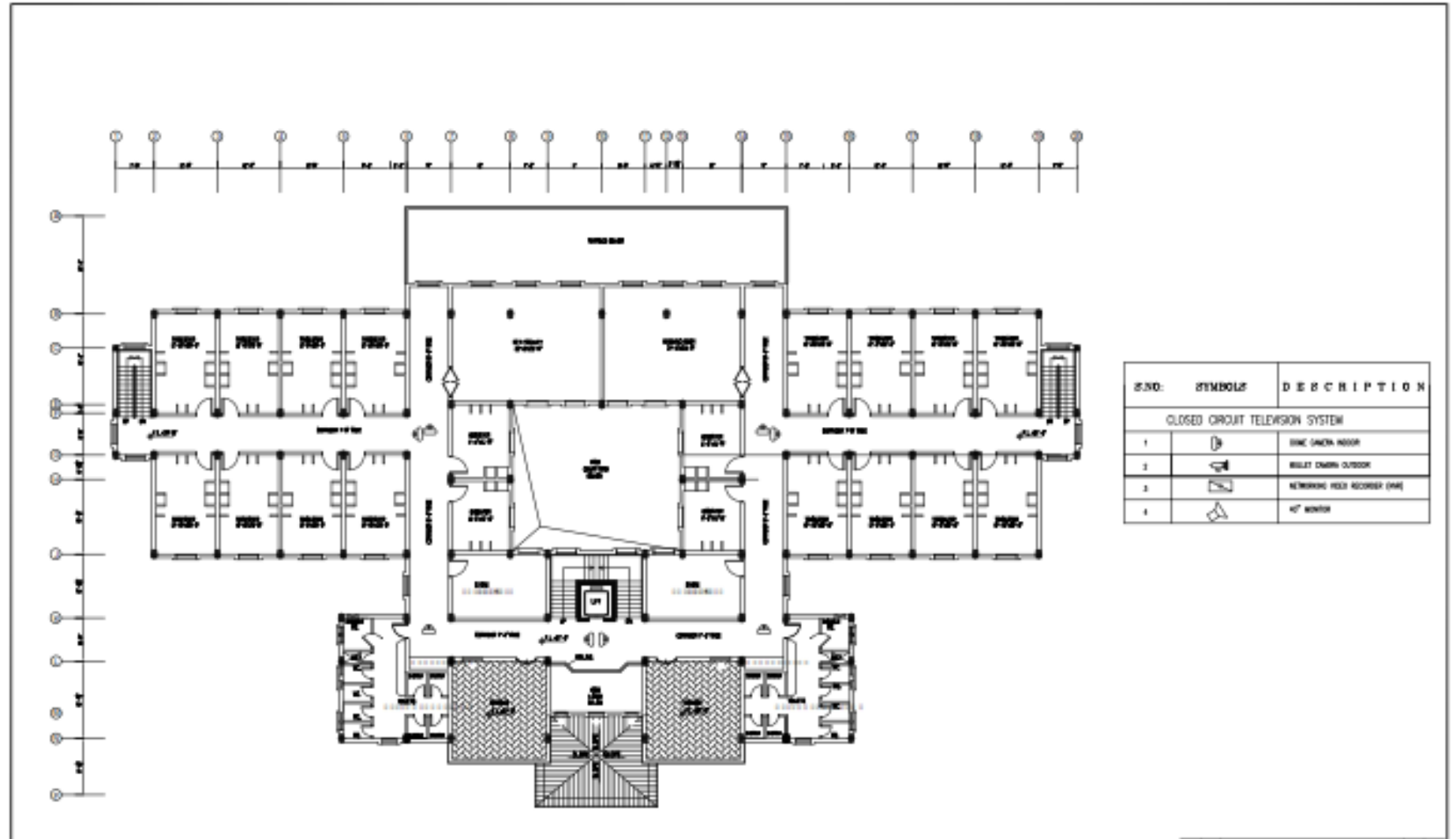
First Floor Plan of Boys Hostel (CCTV)

Seal and Signature of Bidder M/S _____



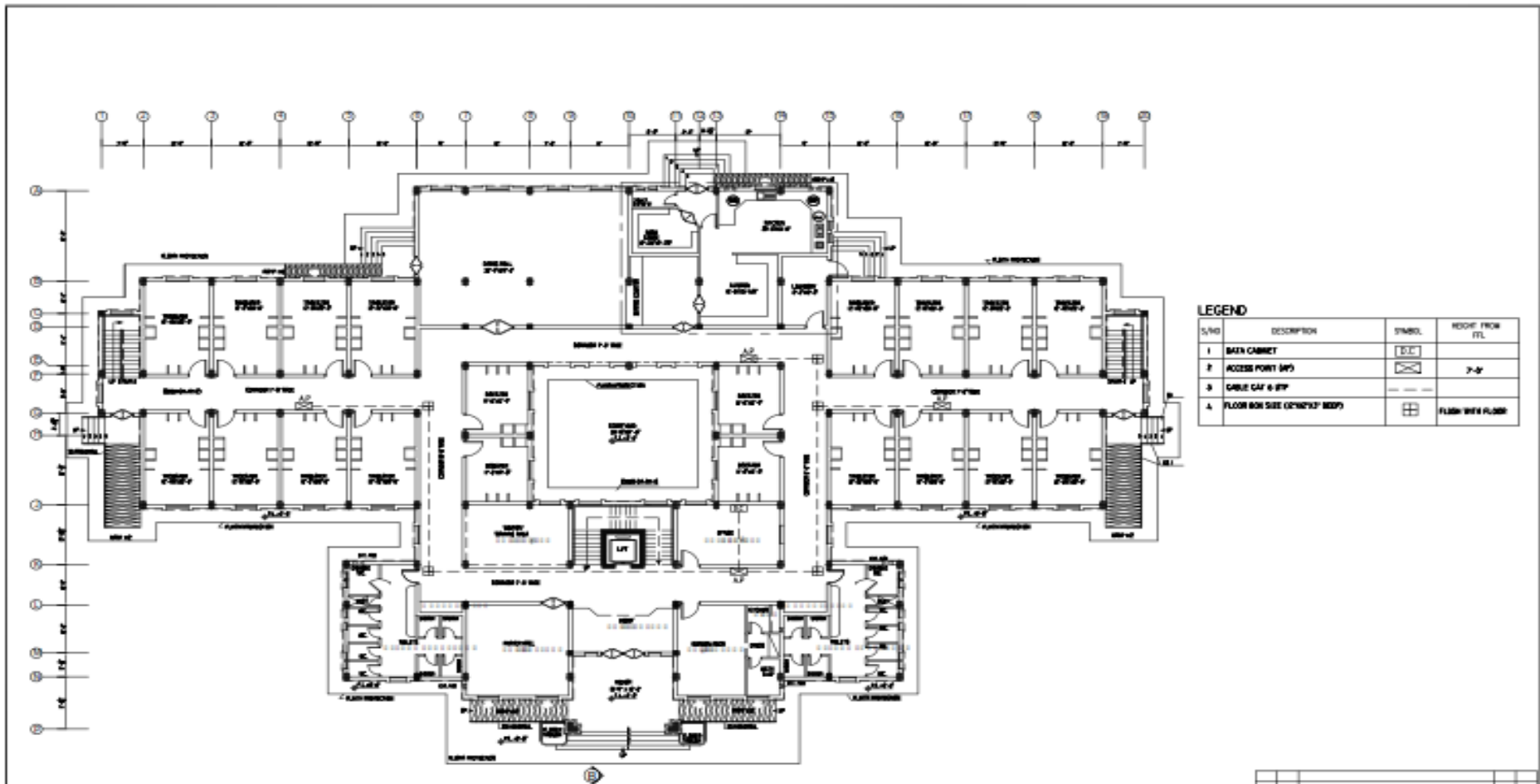
Second Floor Plan of Boys Hostel (CCTV)

Seal and Signature of Bidder M/S _____



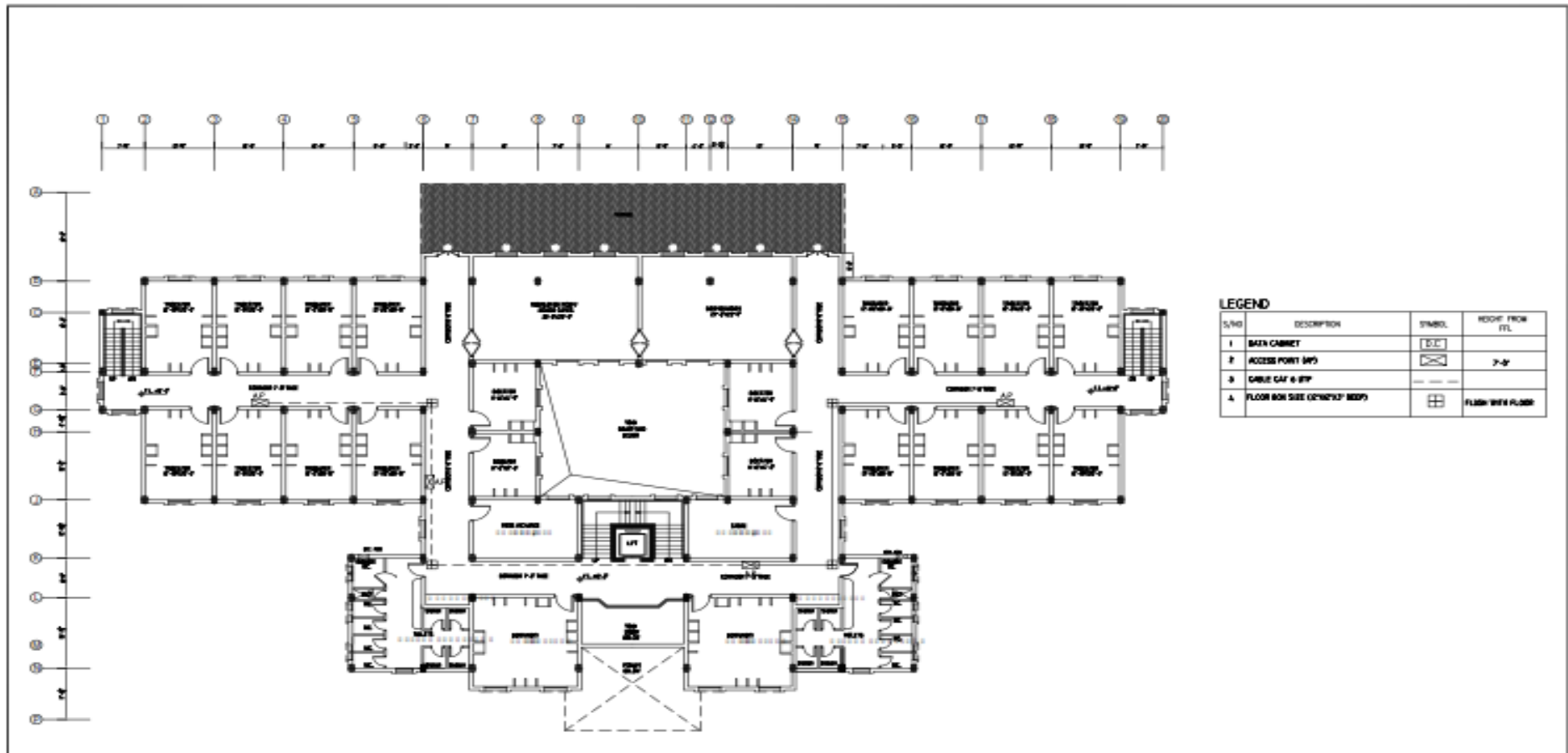
Third Floor Plan of Boys Hostel (CCTV)

Seal and Signature of Bidder M/S _____



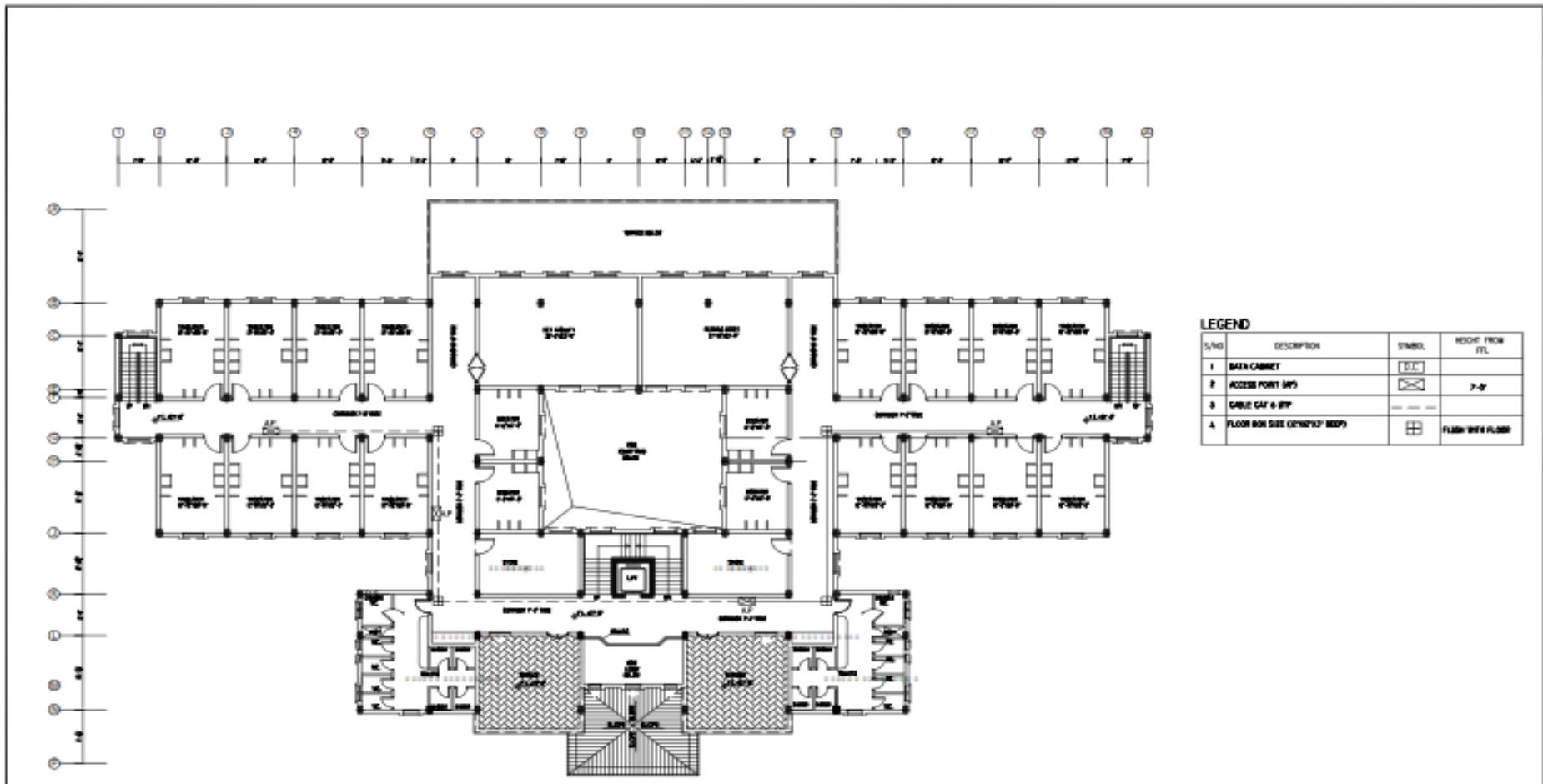
Ground Floor Plan of Boys Hostel (Networking)

Seal and Signature of Bidder M/S _____



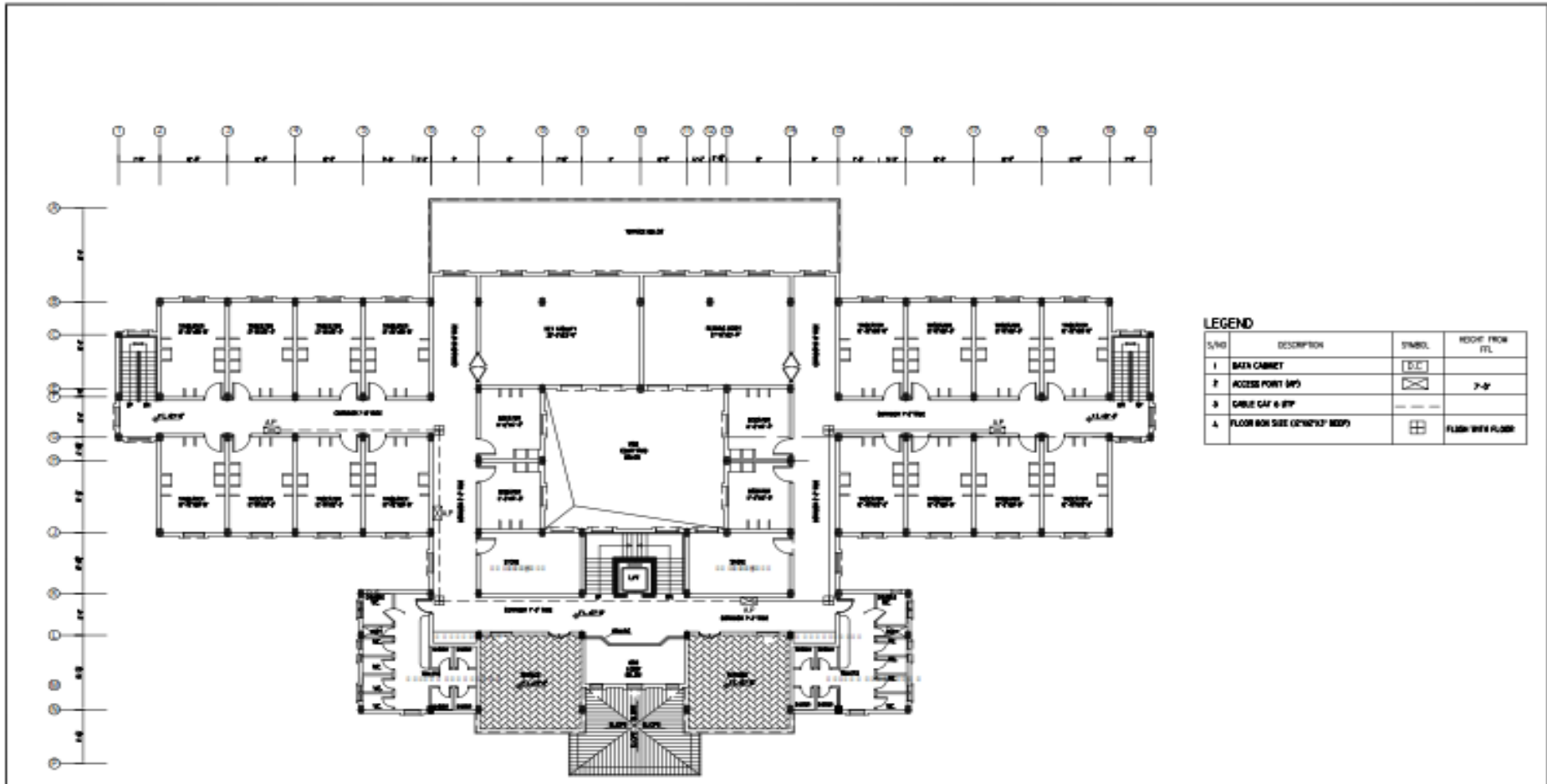
First Floor Plan of Boys Hostel (Networking)

Seal and Signature of Bidder M/S _____



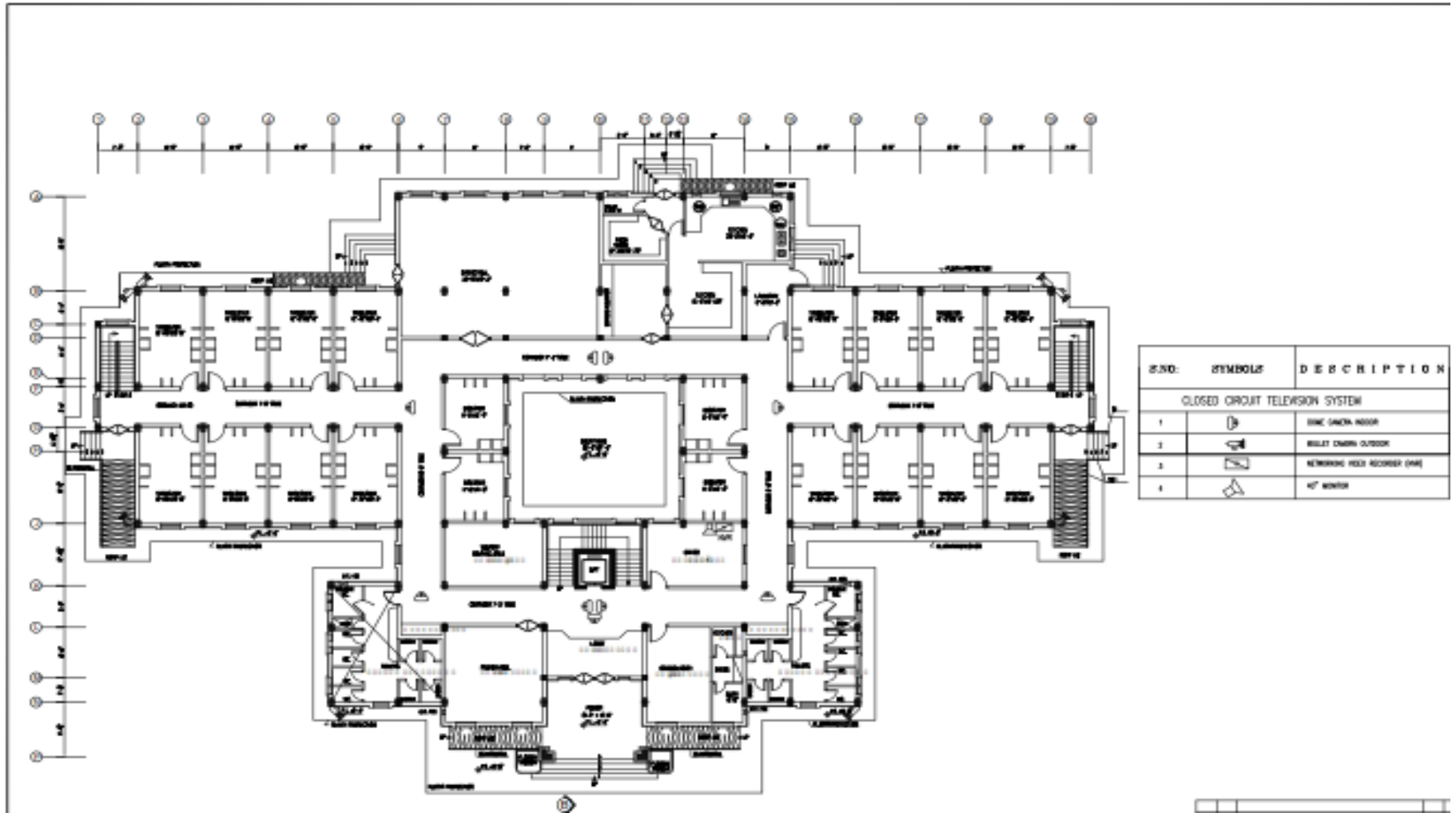
Second Floor Plan of Boys Hostel (Networking)

Seal and Signature of Bidder M/S _____



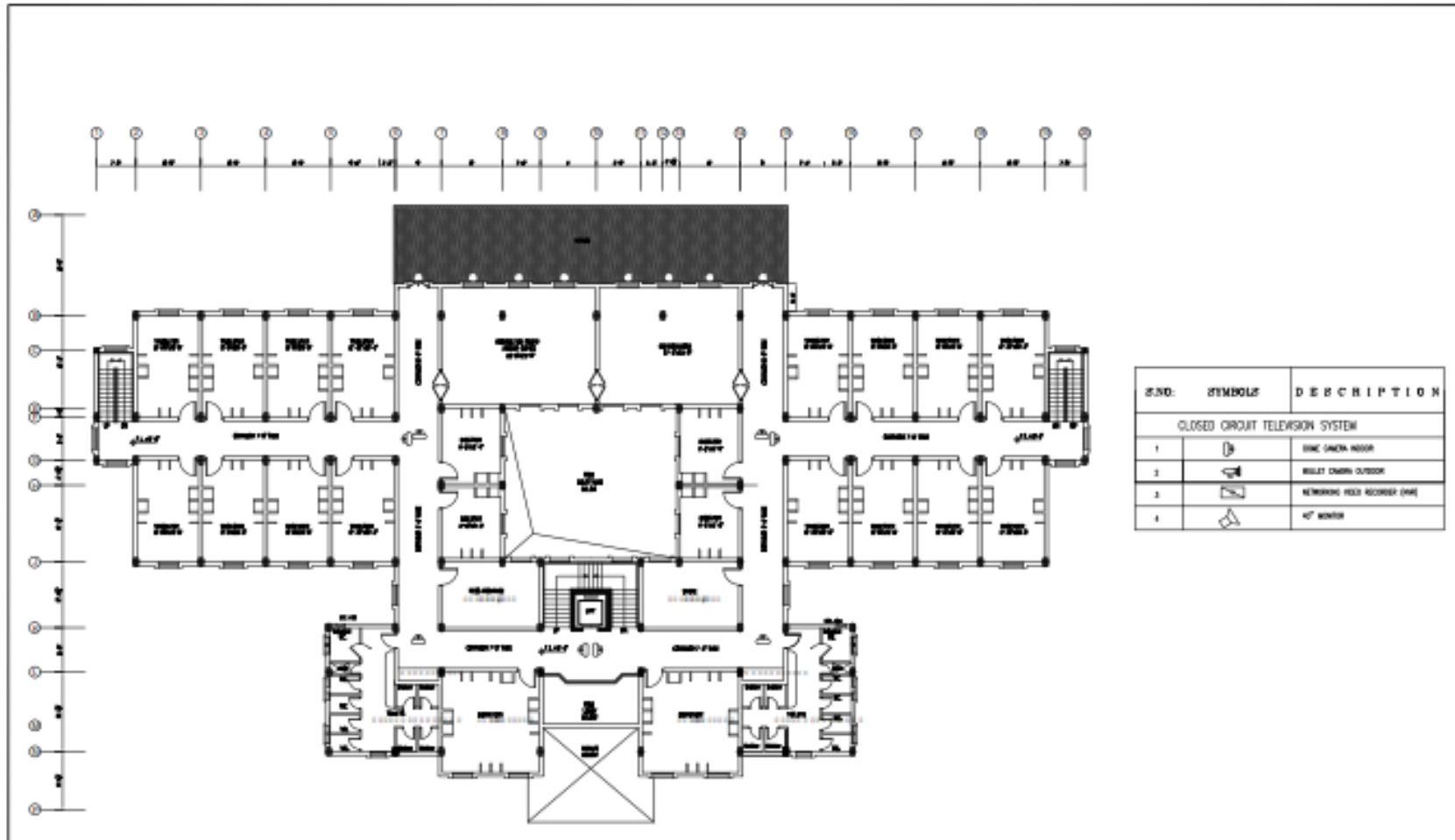
Third Floor Plan of Boys Hostel (Networking)

Seal and Signature of Bidder M/S _____



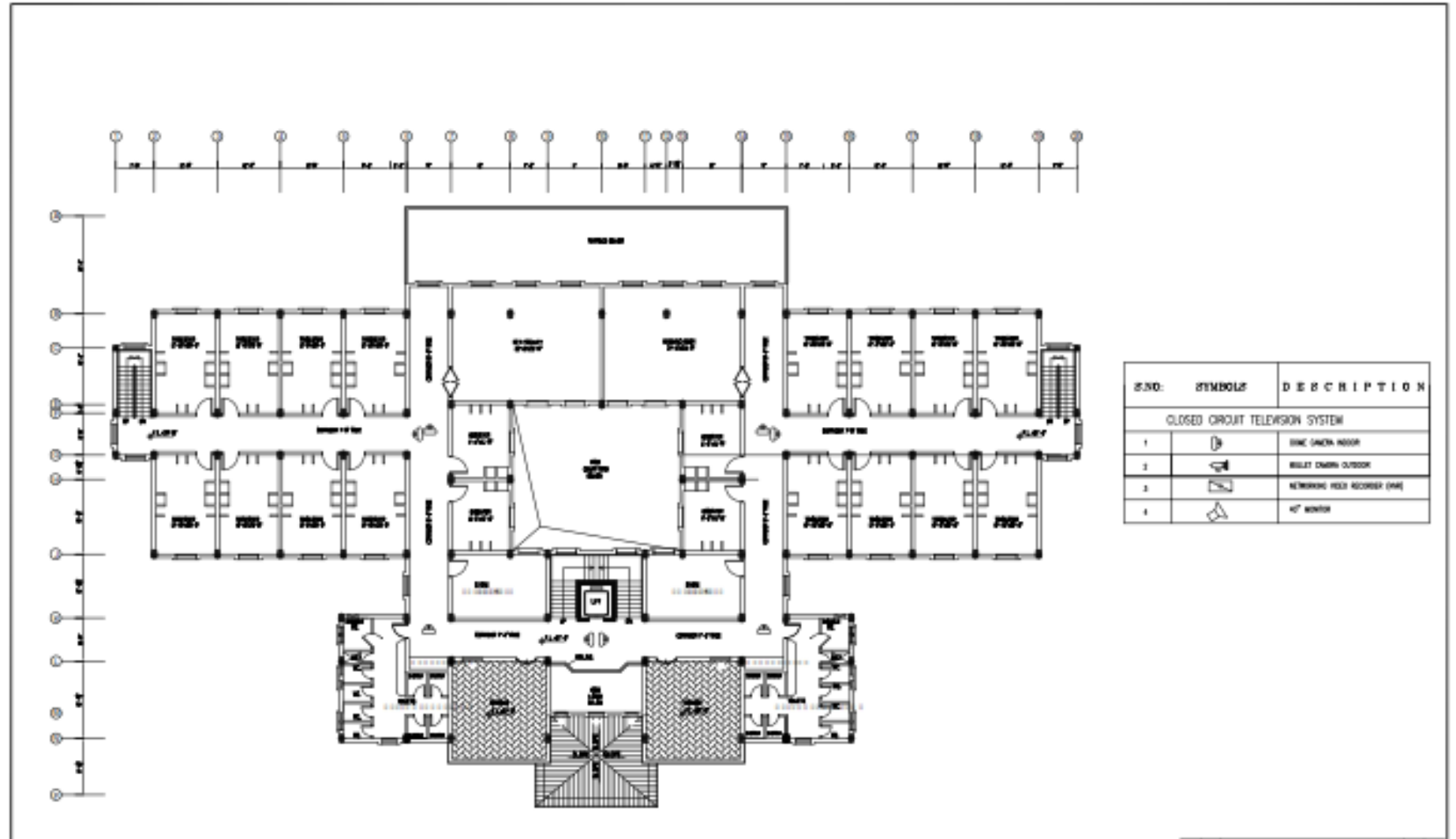
Ground Floor Plan of Boys Hostel (CCTV)

Seal and Signature of Bidder M/S _____



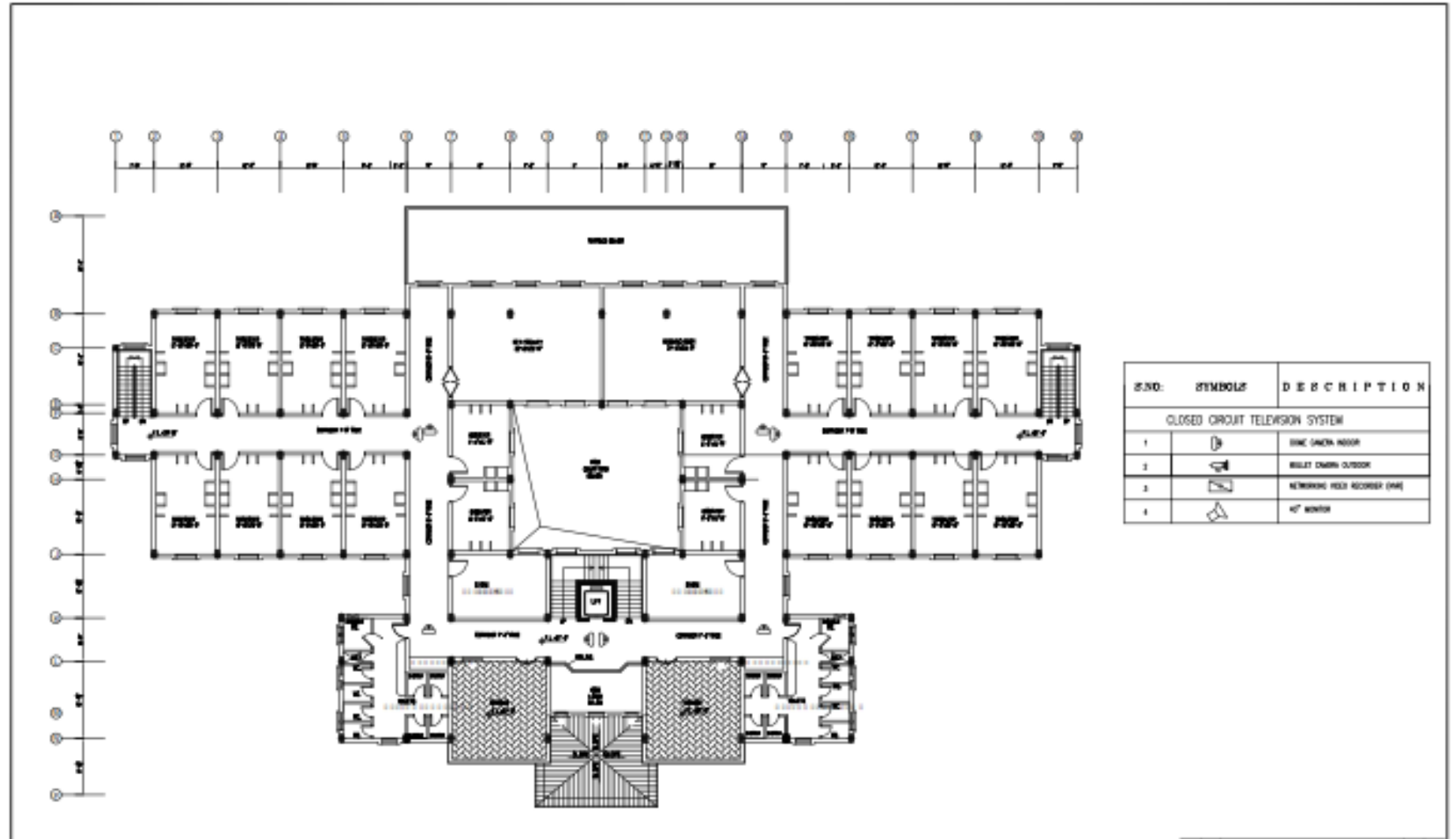
First Floor Plan of Boys Hostel (CCTV)

Seal and Signature of Bidder M/S _____



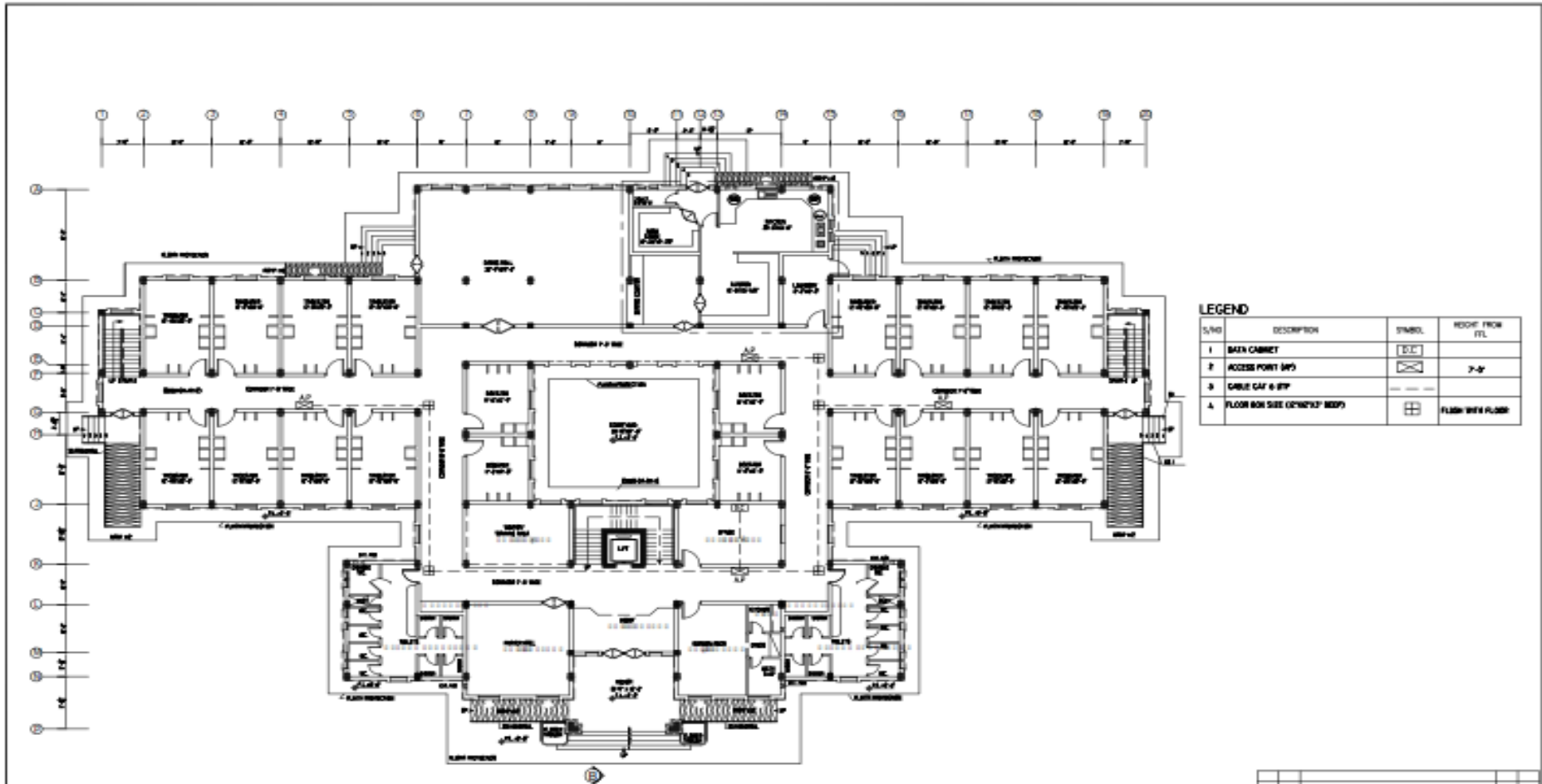
Second Floor Plan of Boys Hostel (CCTV)

Seal and Signature of Bidder M/S _____



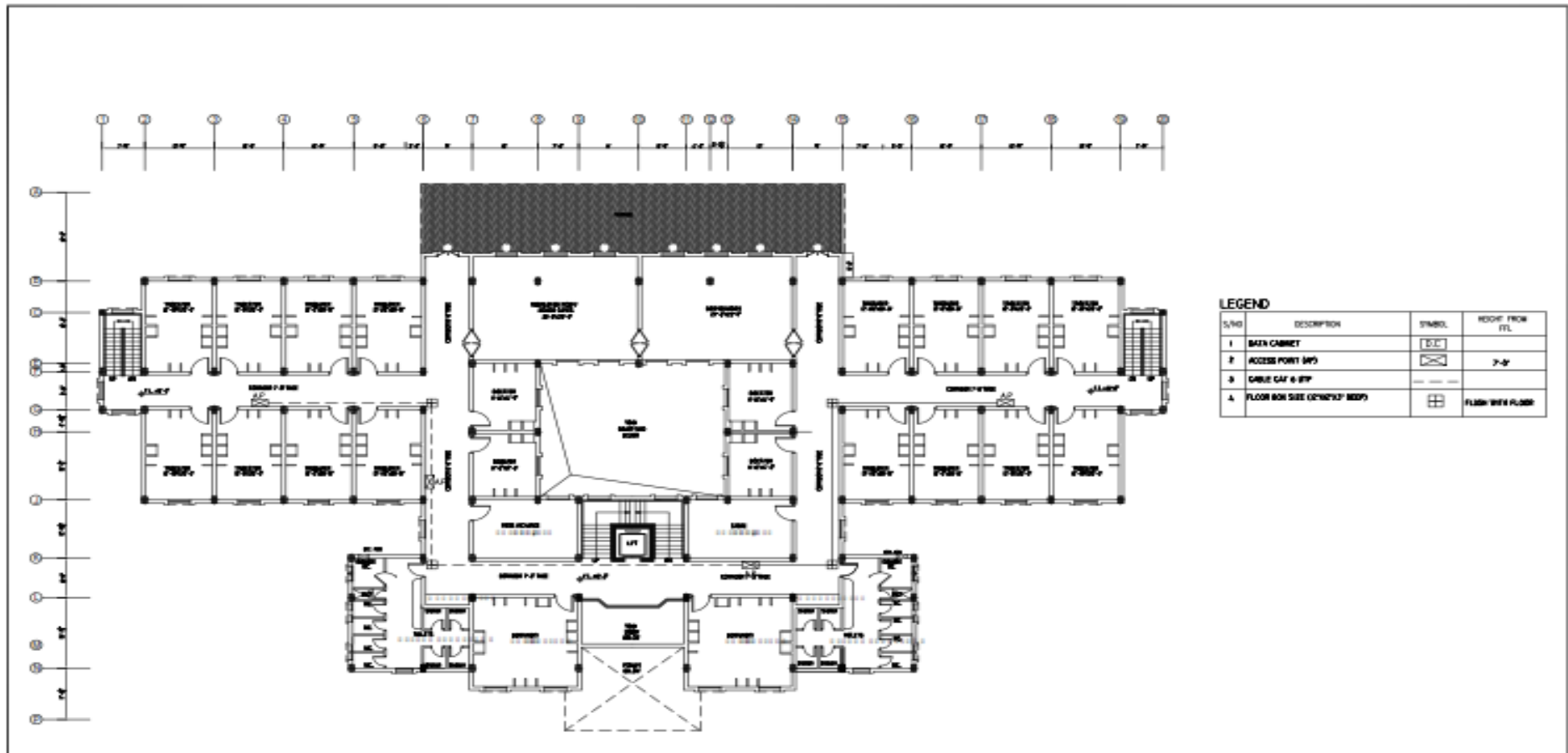
Third Floor Plan of Boys Hostel (CCTV)

Seal and Signature of Bidder M/S _____



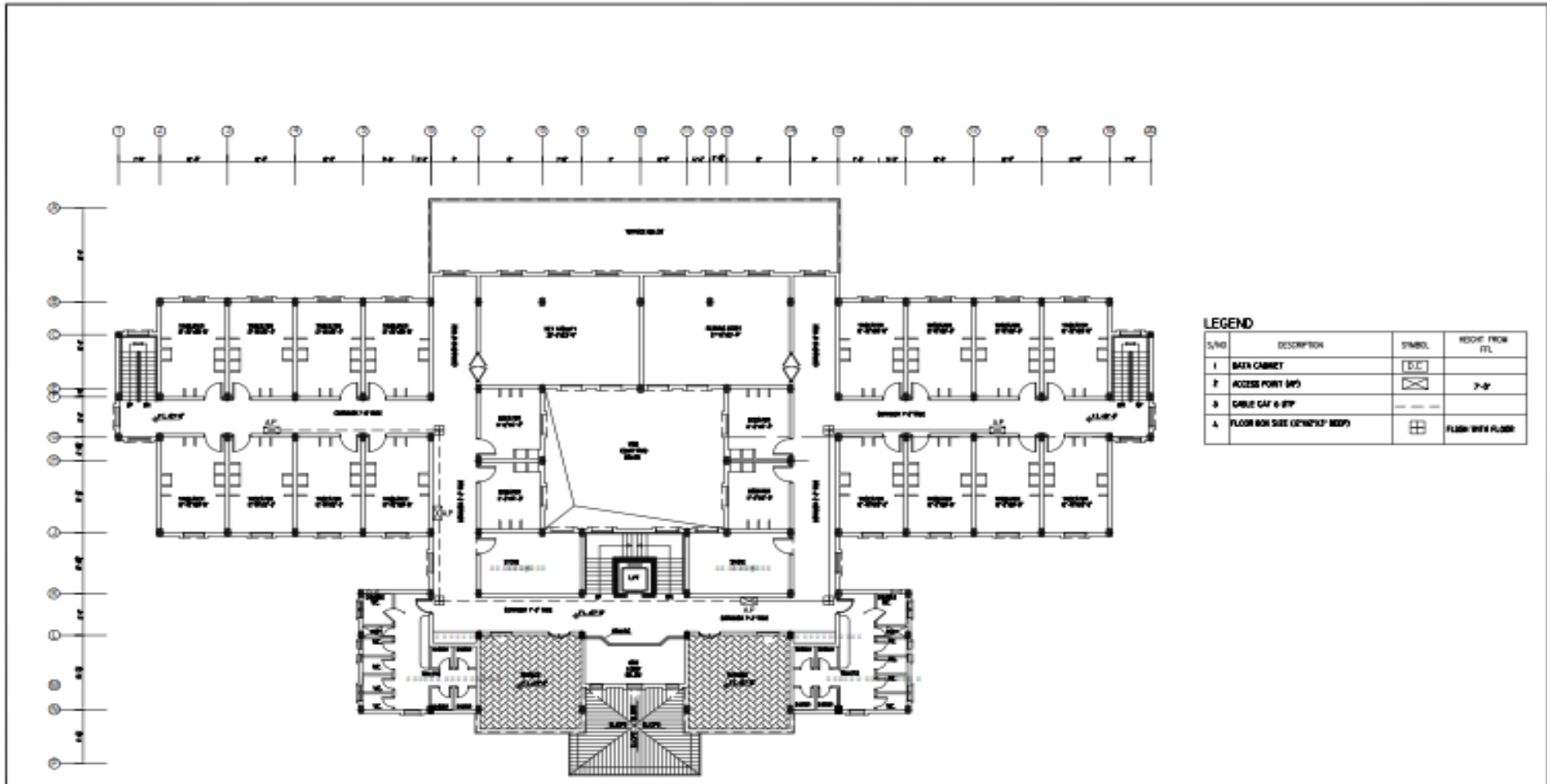
Ground Floor Plan of Boys Hostel (Networking)

Seal and Signature of Bidder M/S _____



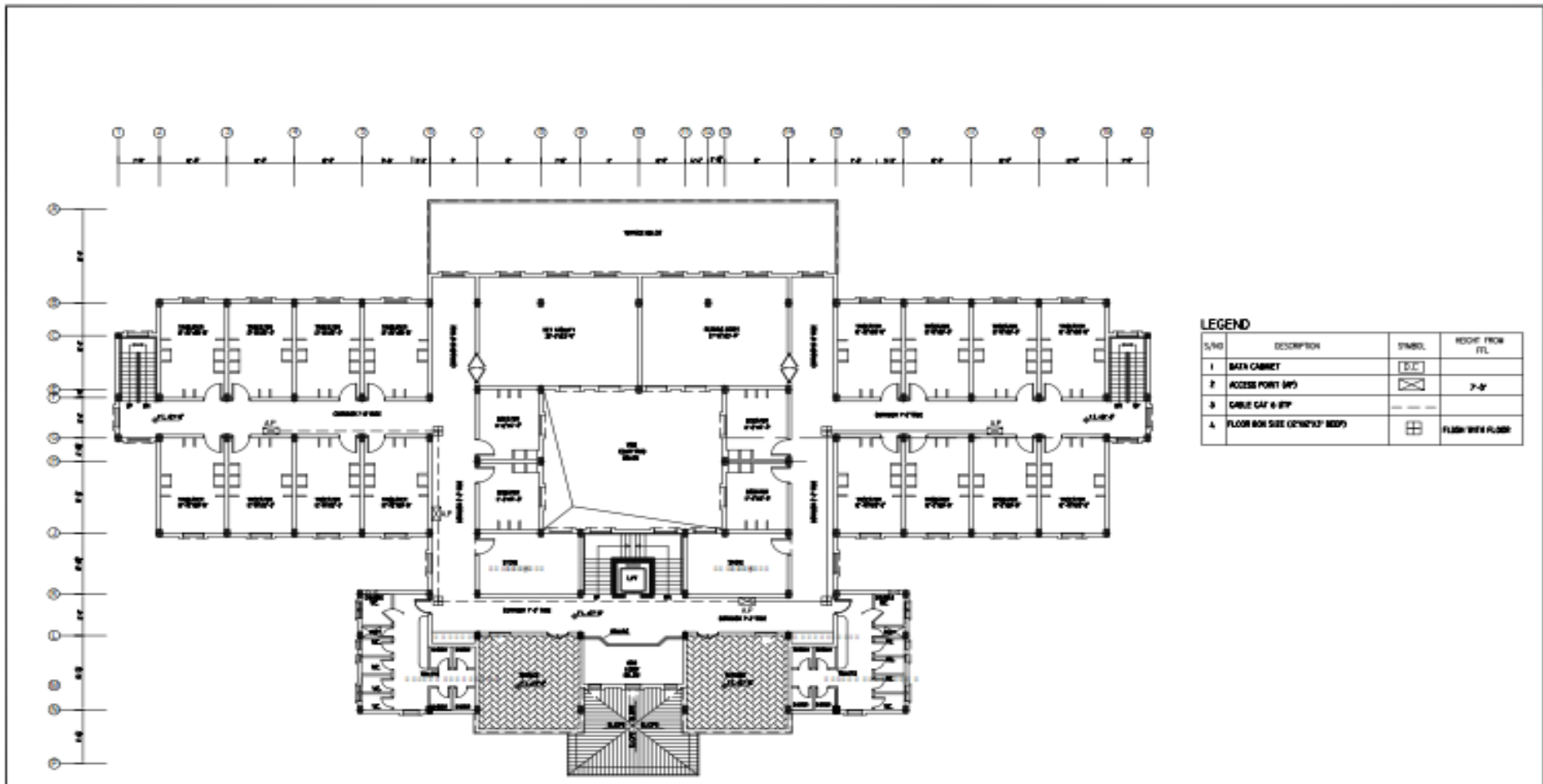
First Floor Plan of Boys Hostel (Networking)

Seal and Signature of Bidder M/S _____



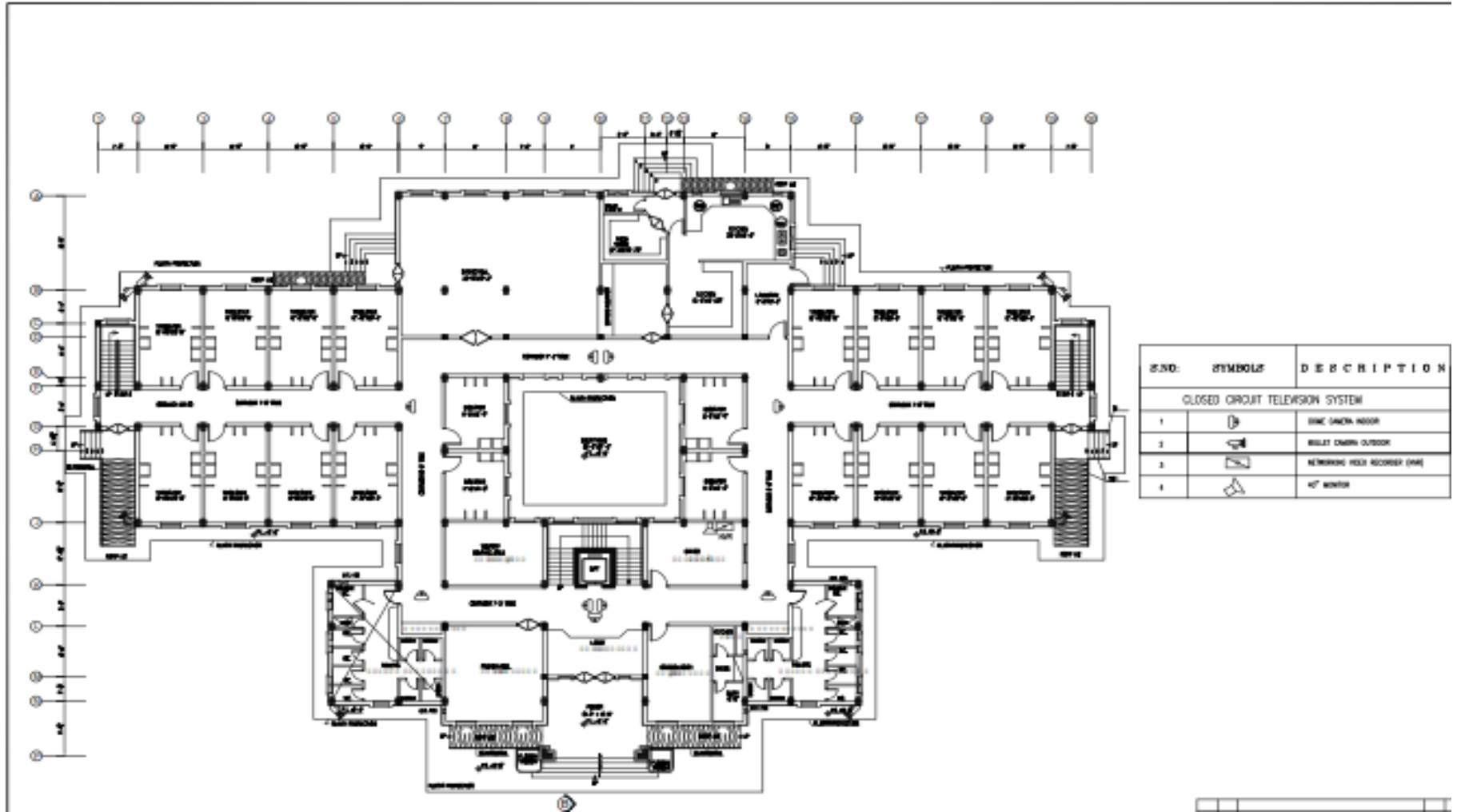
Second Floor Plan of Boys Hostel (Networking)

Seal and Signature of Bidder M/S _____



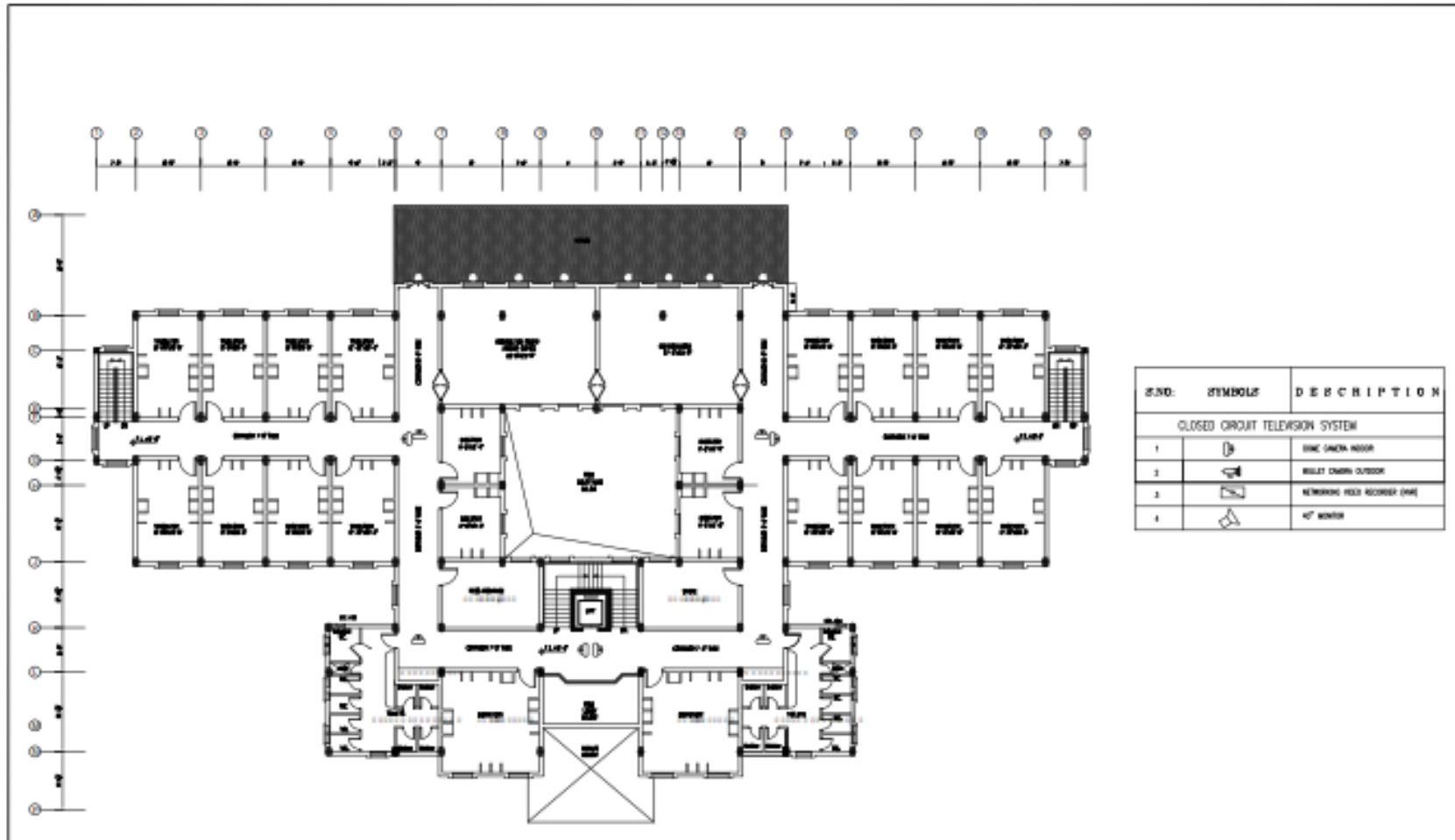
Third Floor Plan of Boys Hostel (Networking)

Seal and Signature of Bidder M/S _____



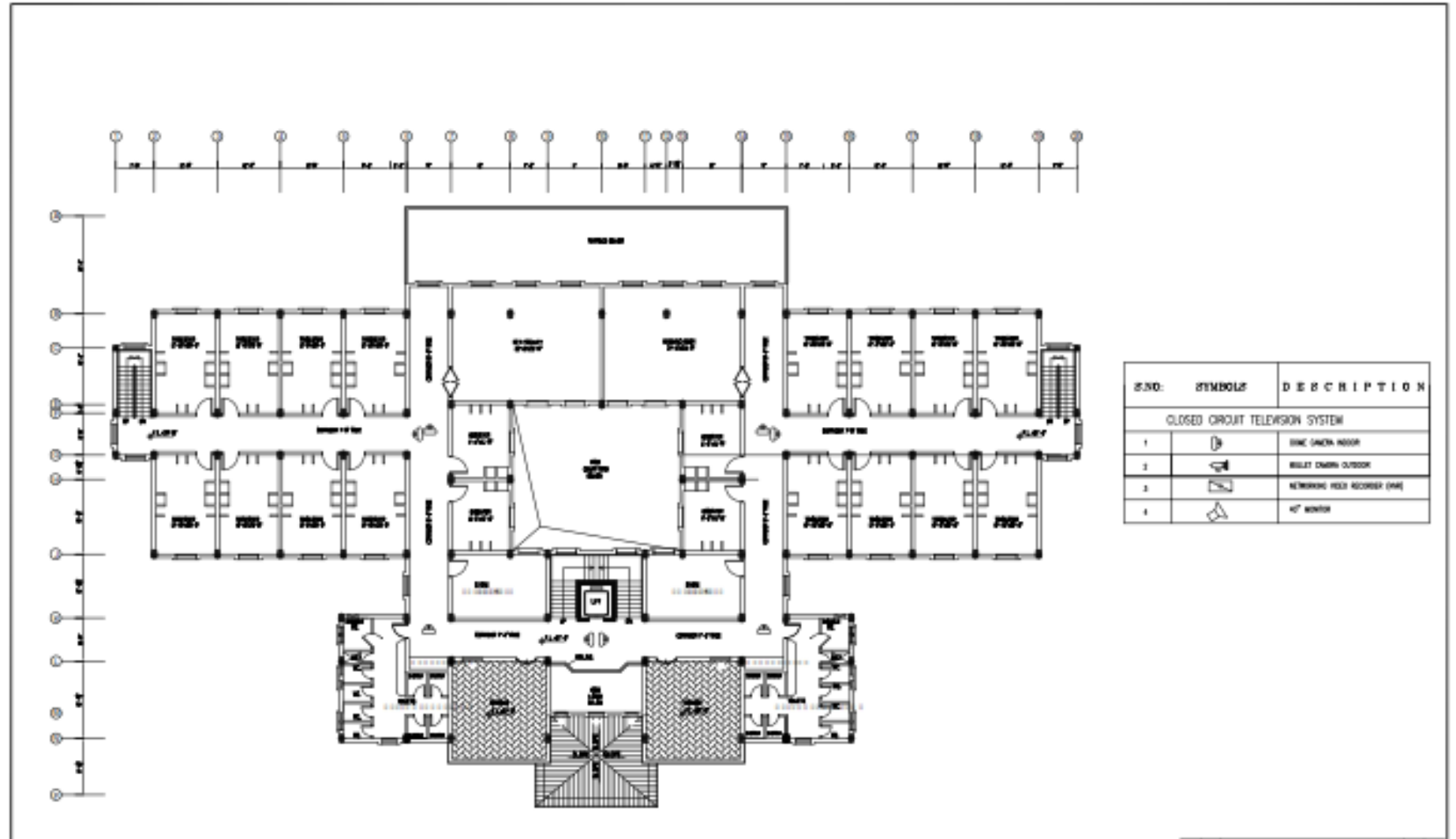
Ground Floor Plan of Boys Hostel (CCTV)

Seal and Signature of Bidder M/S _____



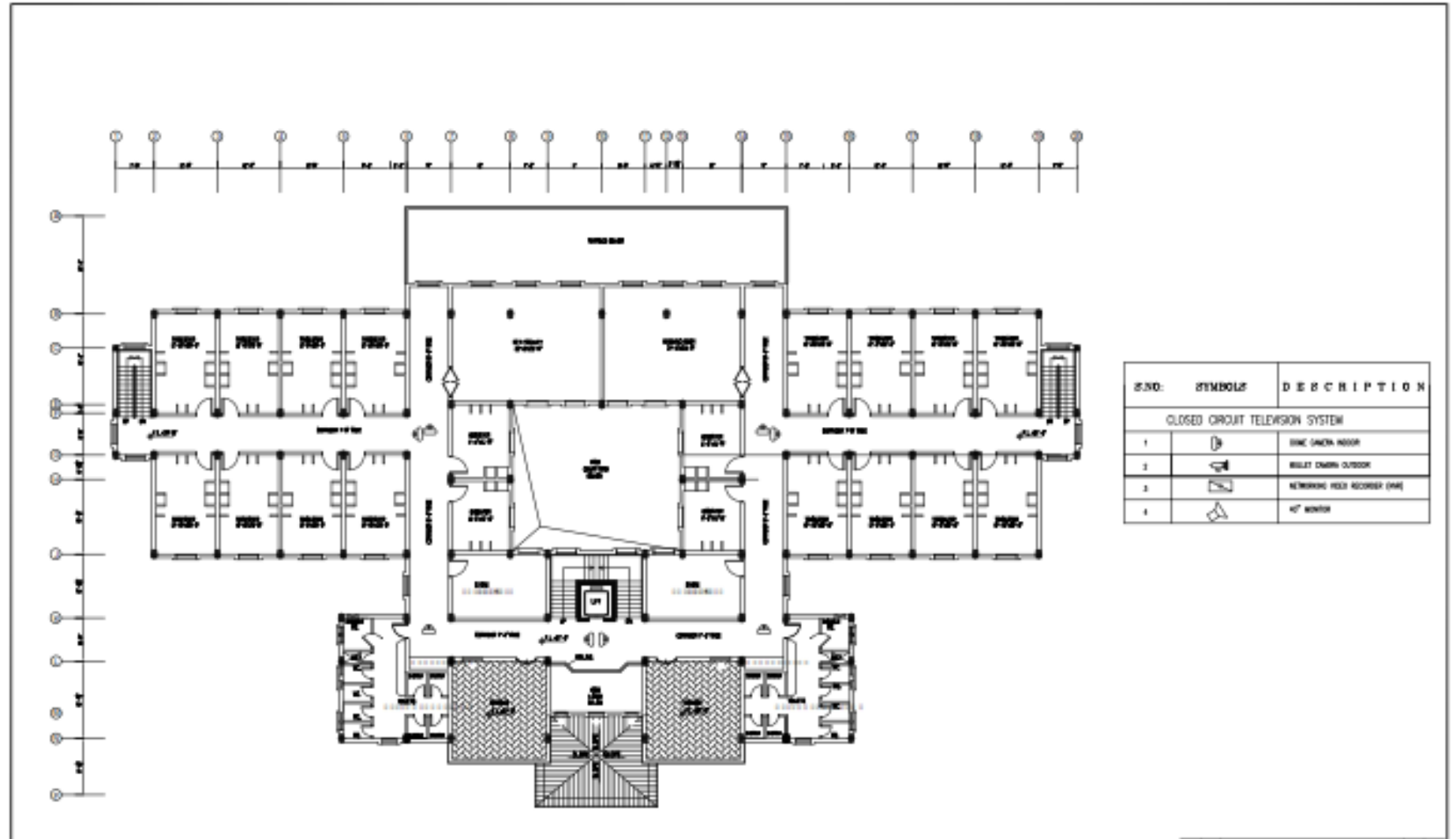
First Floor Plan of Boys Hostel (CCTV)

Seal and Signature of Bidder M/S _____



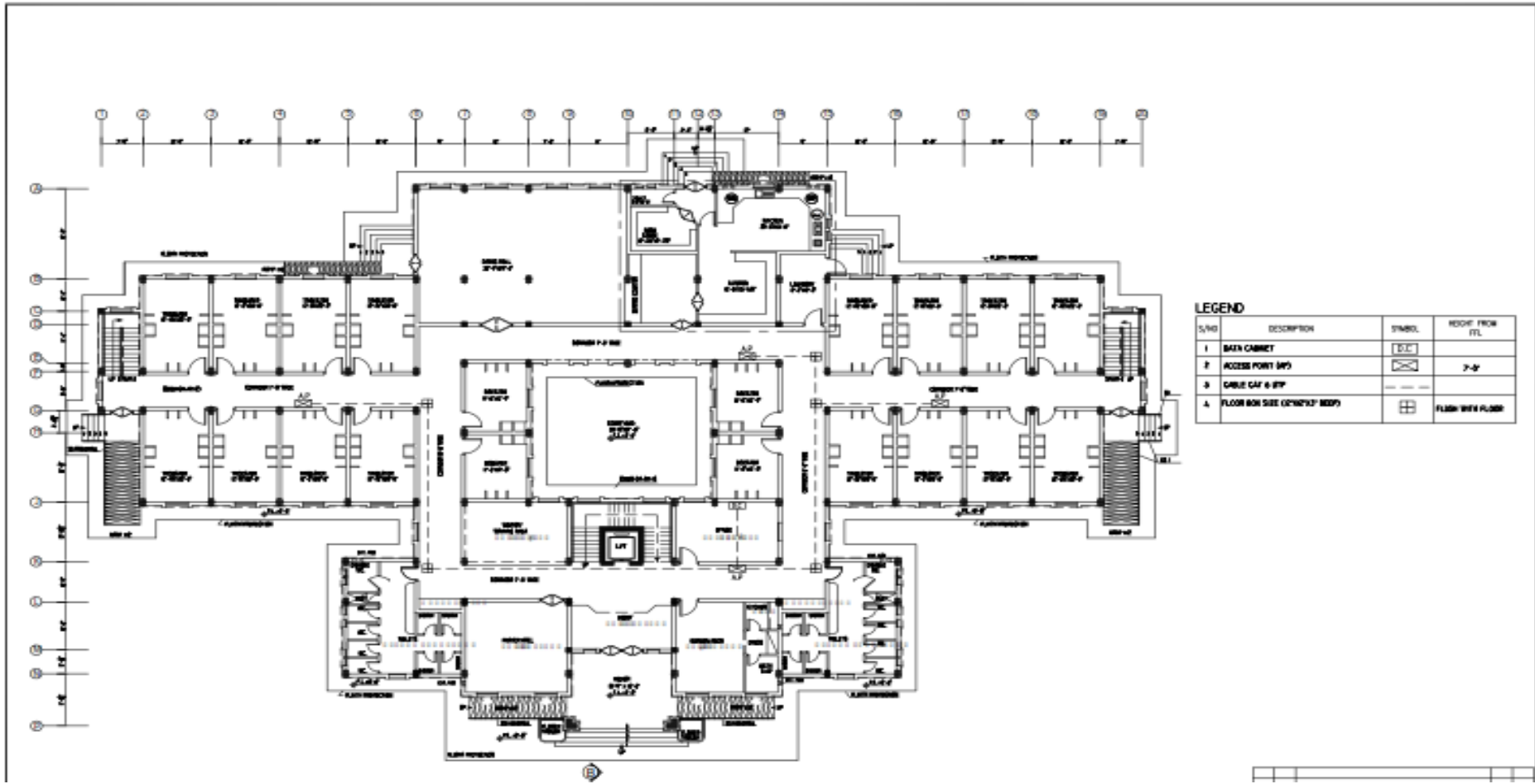
Second Floor Plan of Boys Hostel (CCTV)

Seal and Signature of Bidder M/S _____



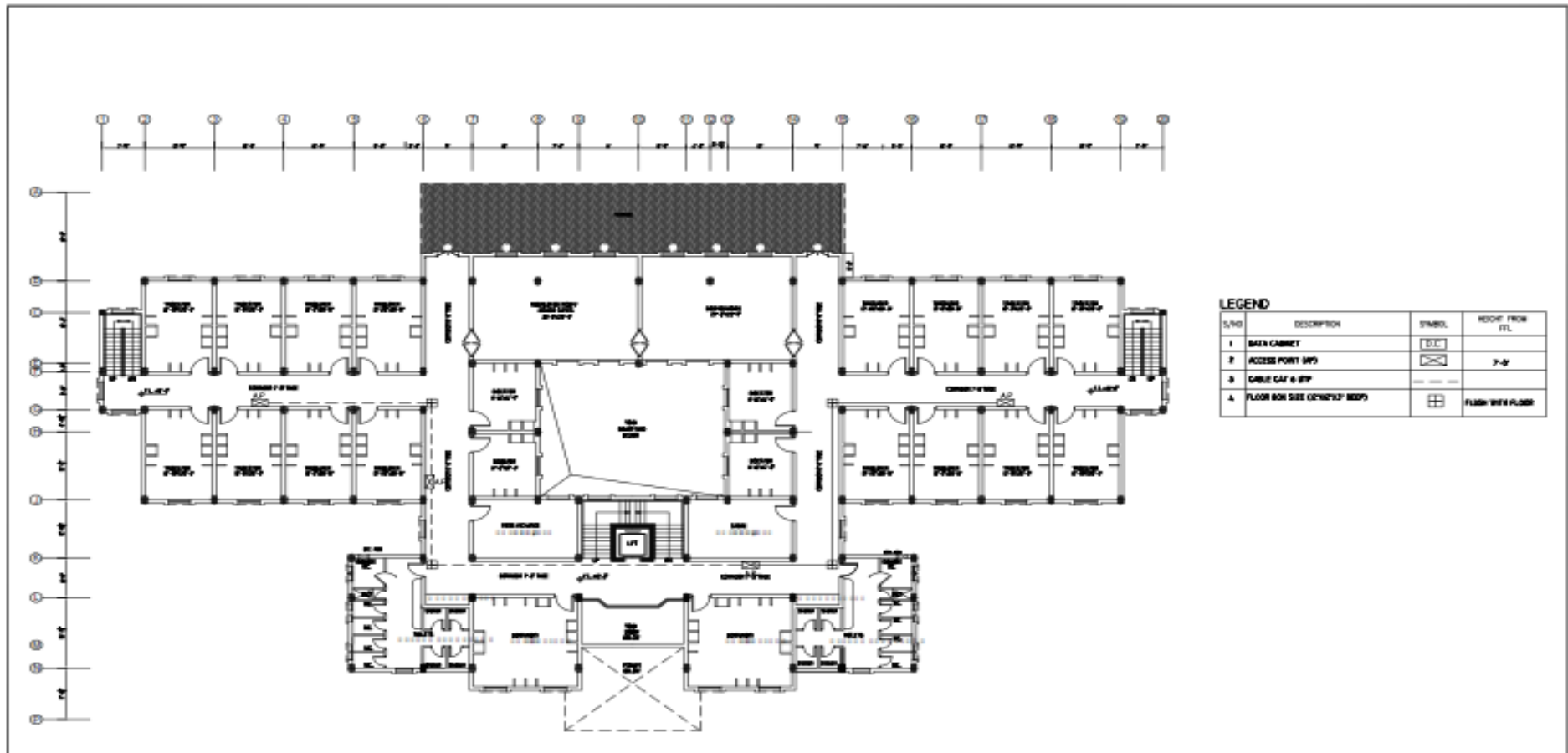
Third Floor Plan of Boys Hostel (CCTV)

Seal and Signature of Bidder M/S _____



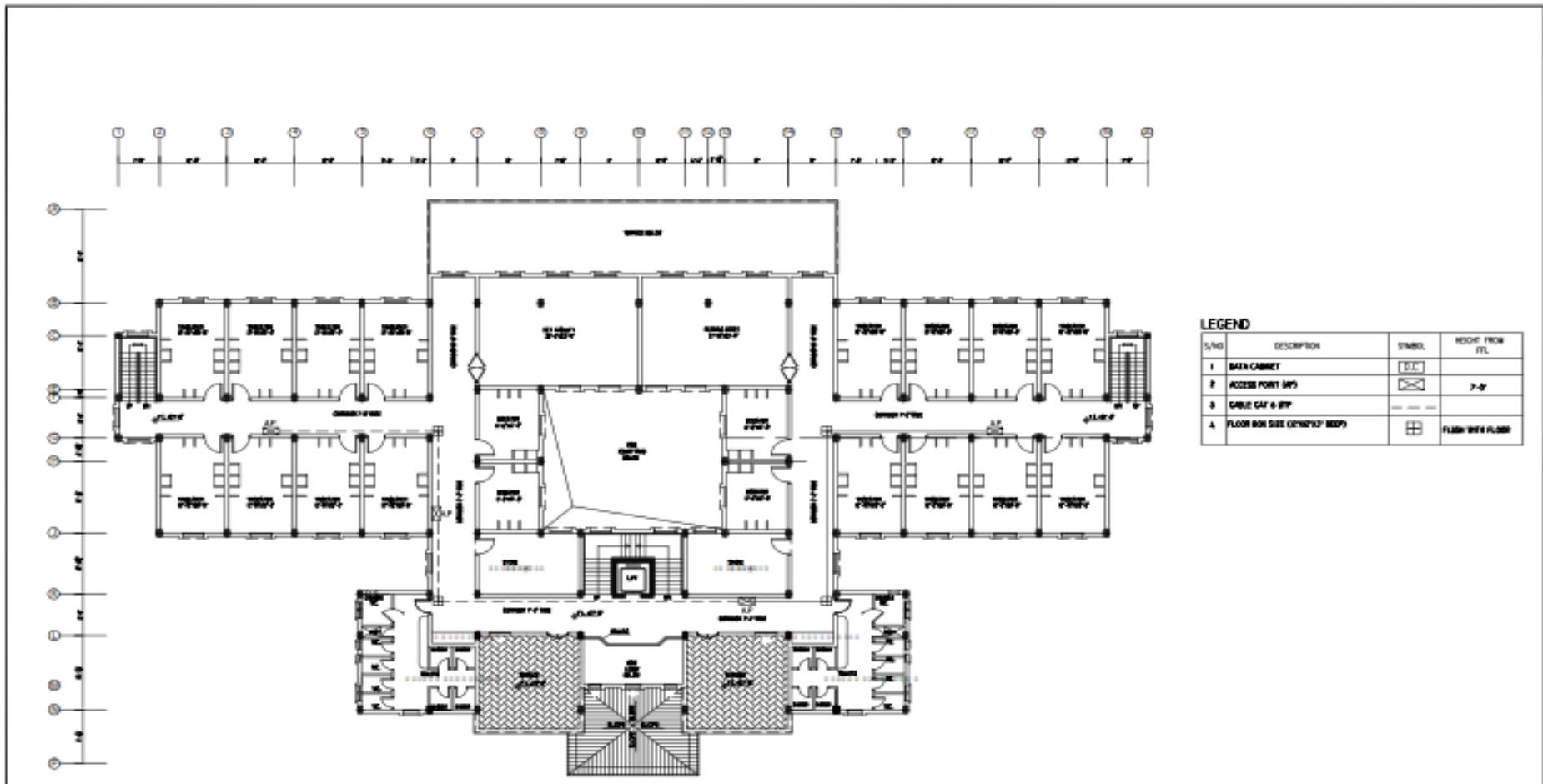
Ground Floor Plan of Girls Hostel (Networking)

Seal and Signature of Bidder M/S _____



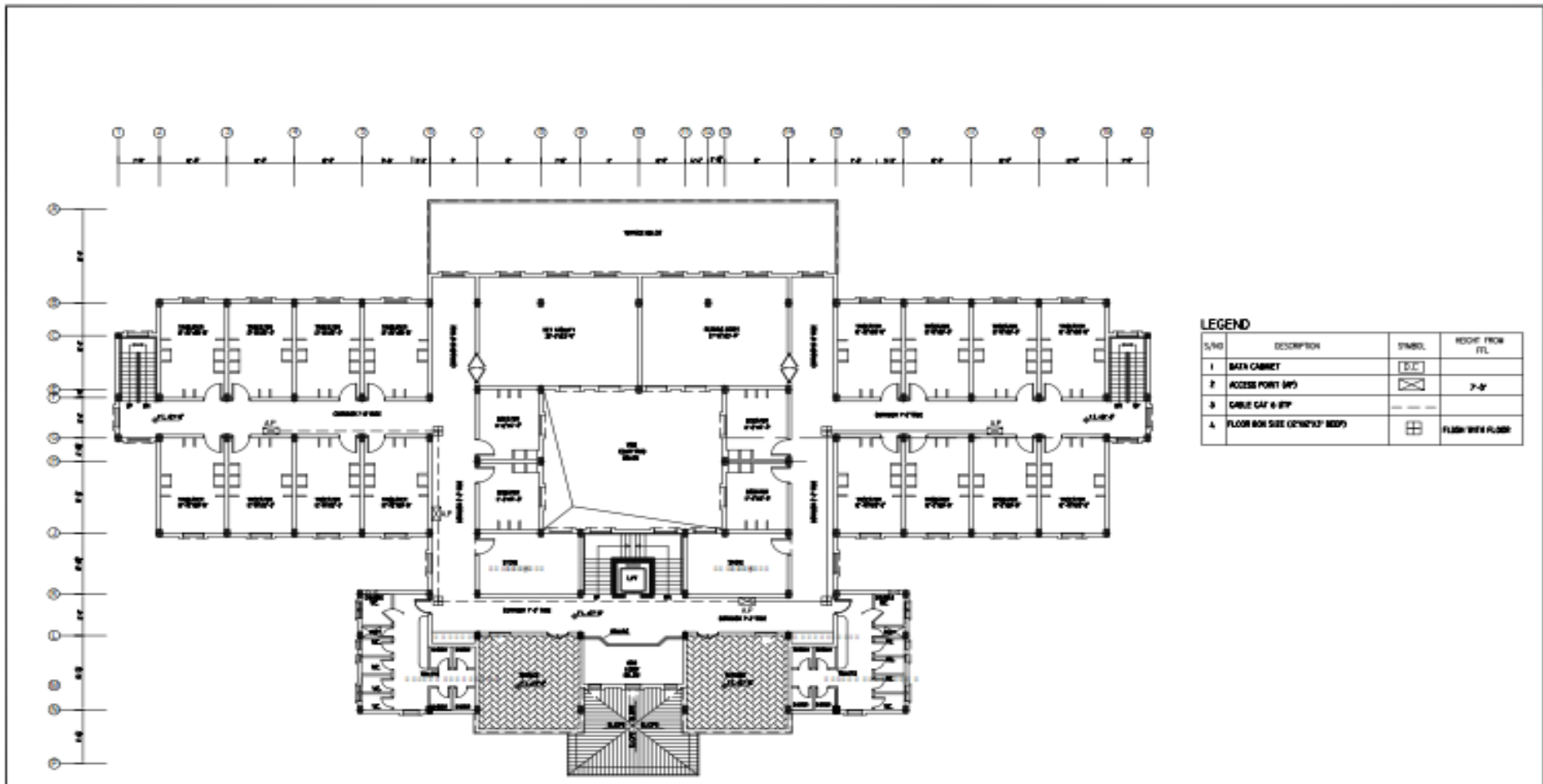
First Floor Plan of Girls Hostel (Networking)

Seal and Signature of Bidder M/S _____



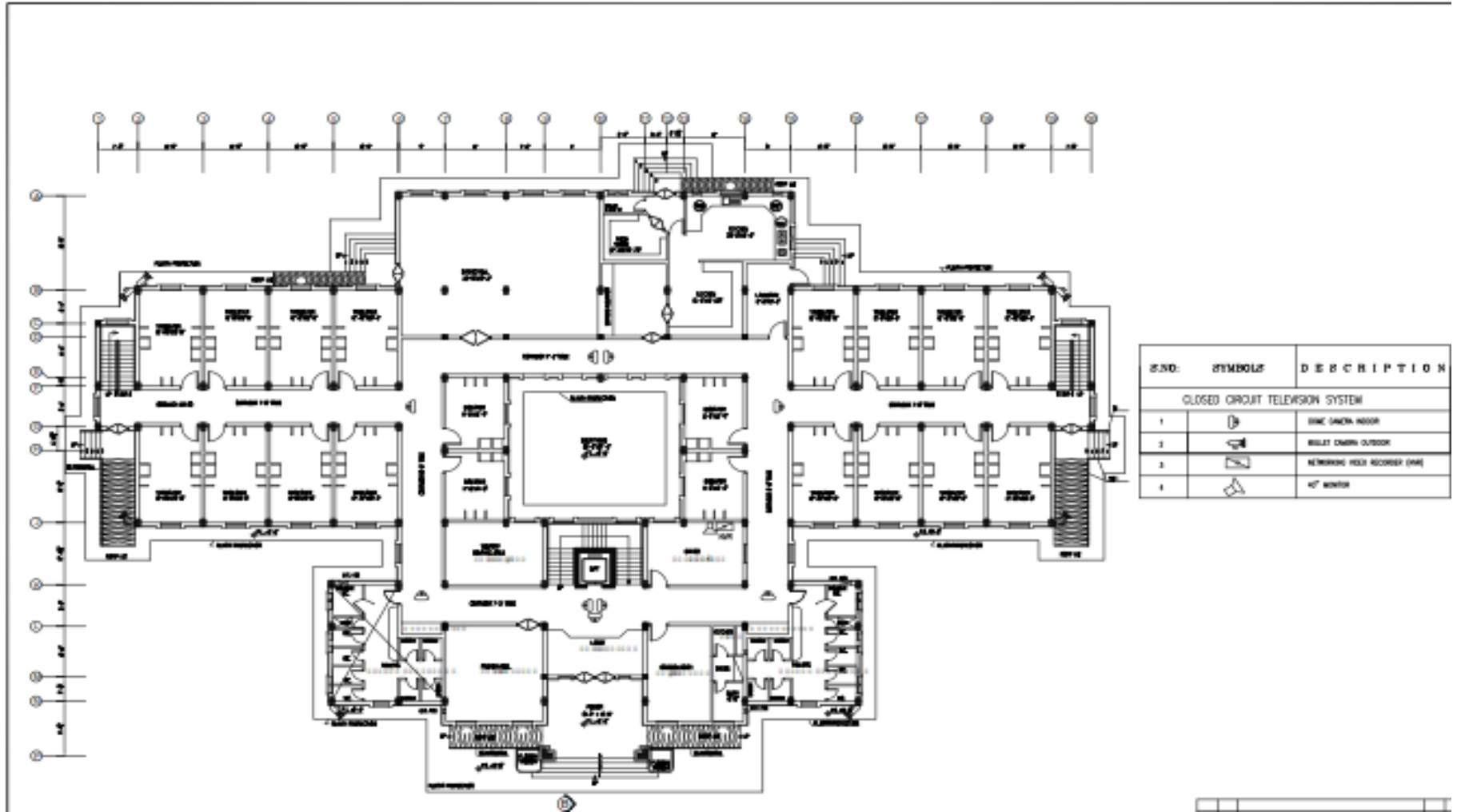
Second Floor Plan of Girls Hostel (Networking)

Seal and Signature of Bidder M/S _____



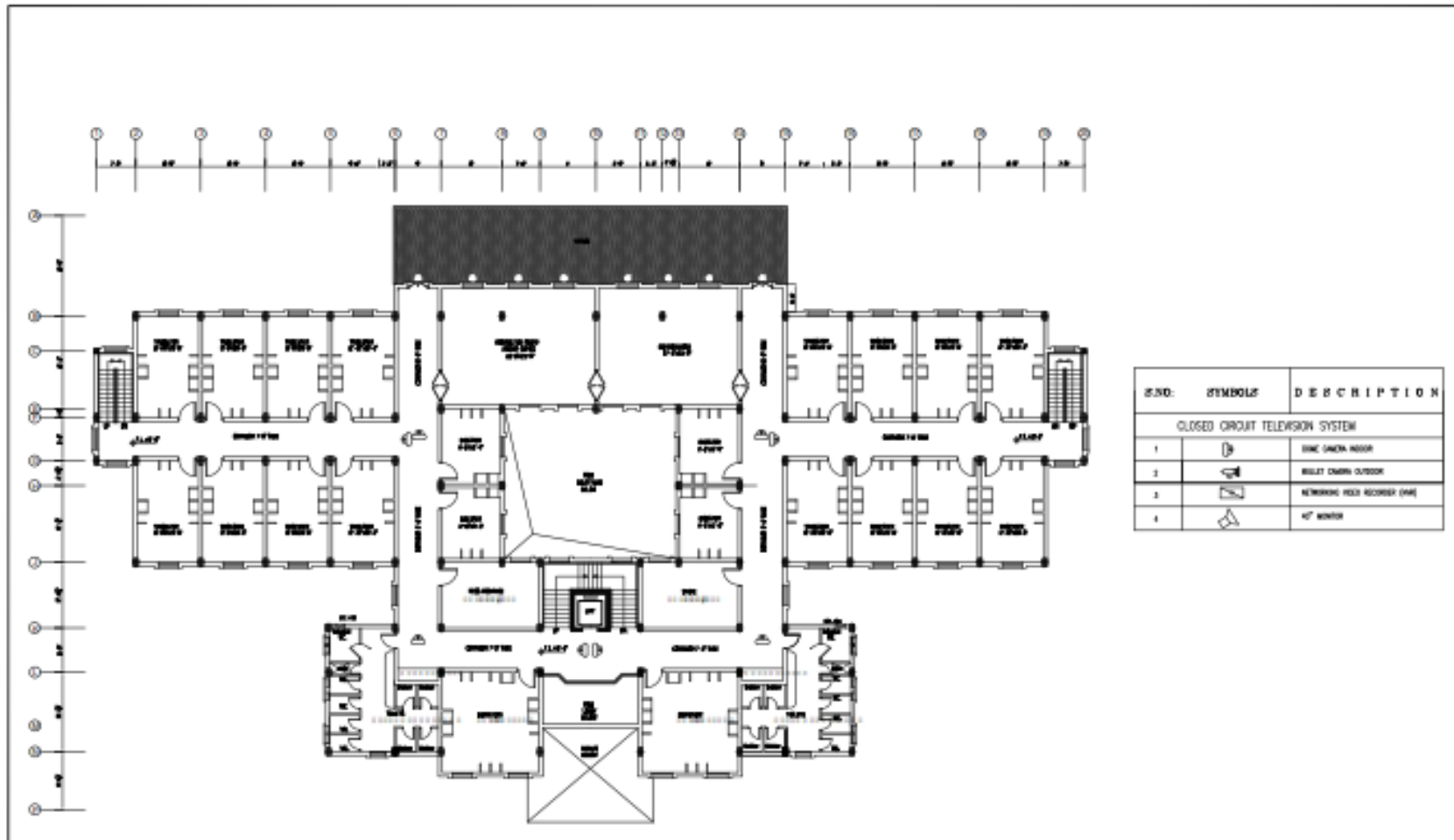
Third Floor Plan of Girls Hostel (Networking)

Seal and Signature of Bidder M/S _____



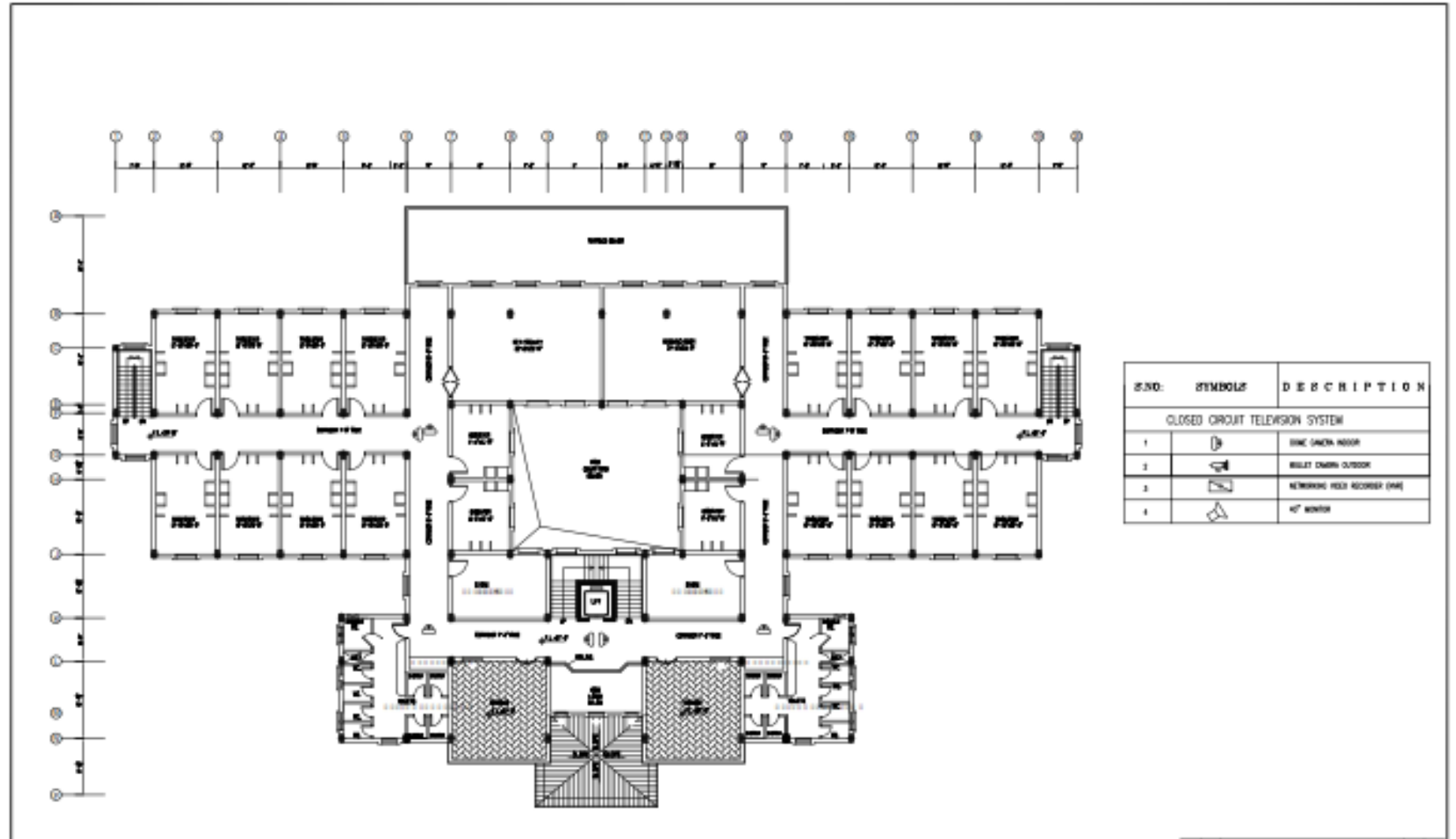
Ground Floor Plan of Girls Hostel (CCTV)

Seal and Signature of Bidder M/S _____



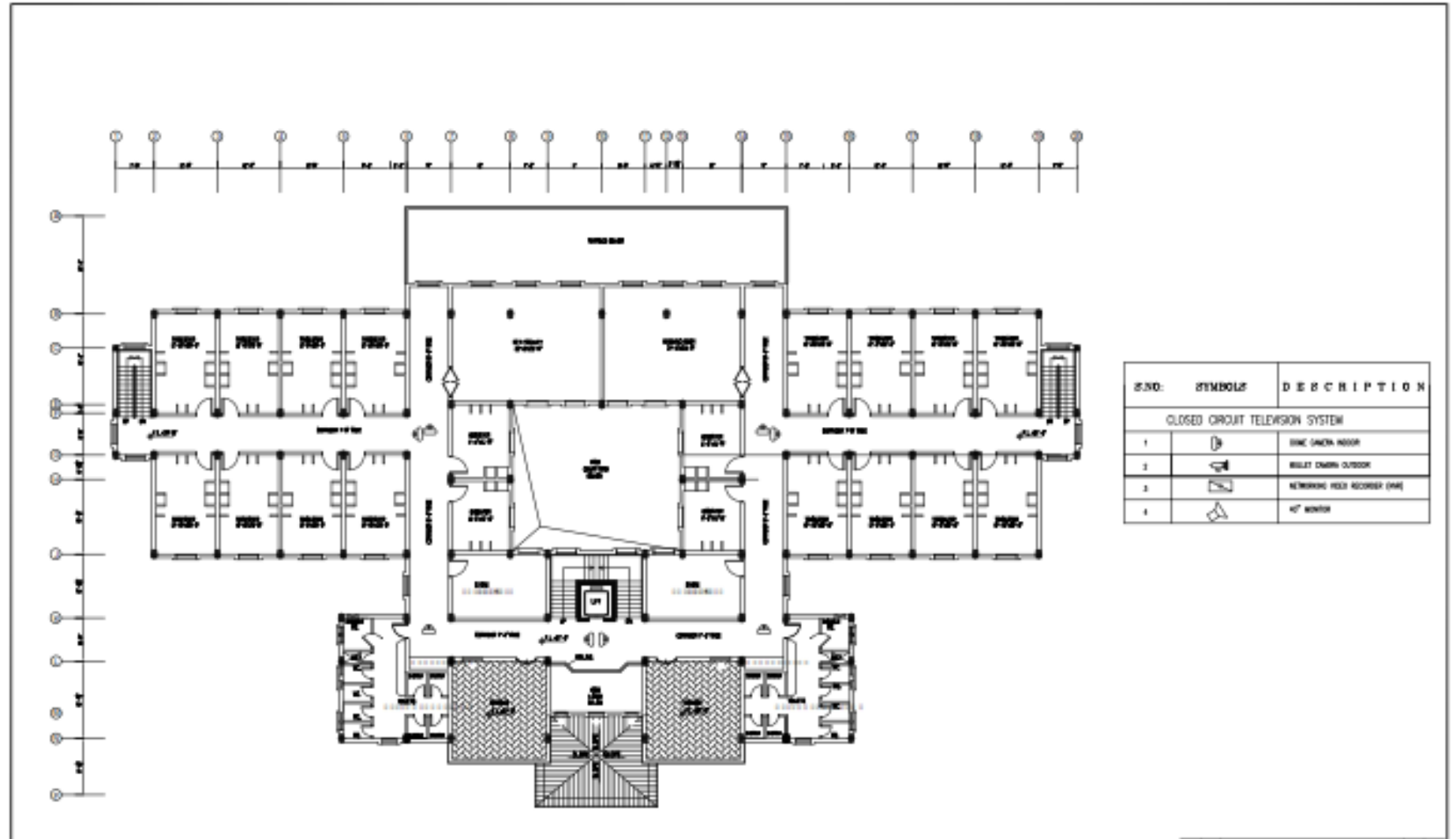
First Floor Plan of Girls Hostel (CCTV)

Seal and Signature of Bidder M/S _____



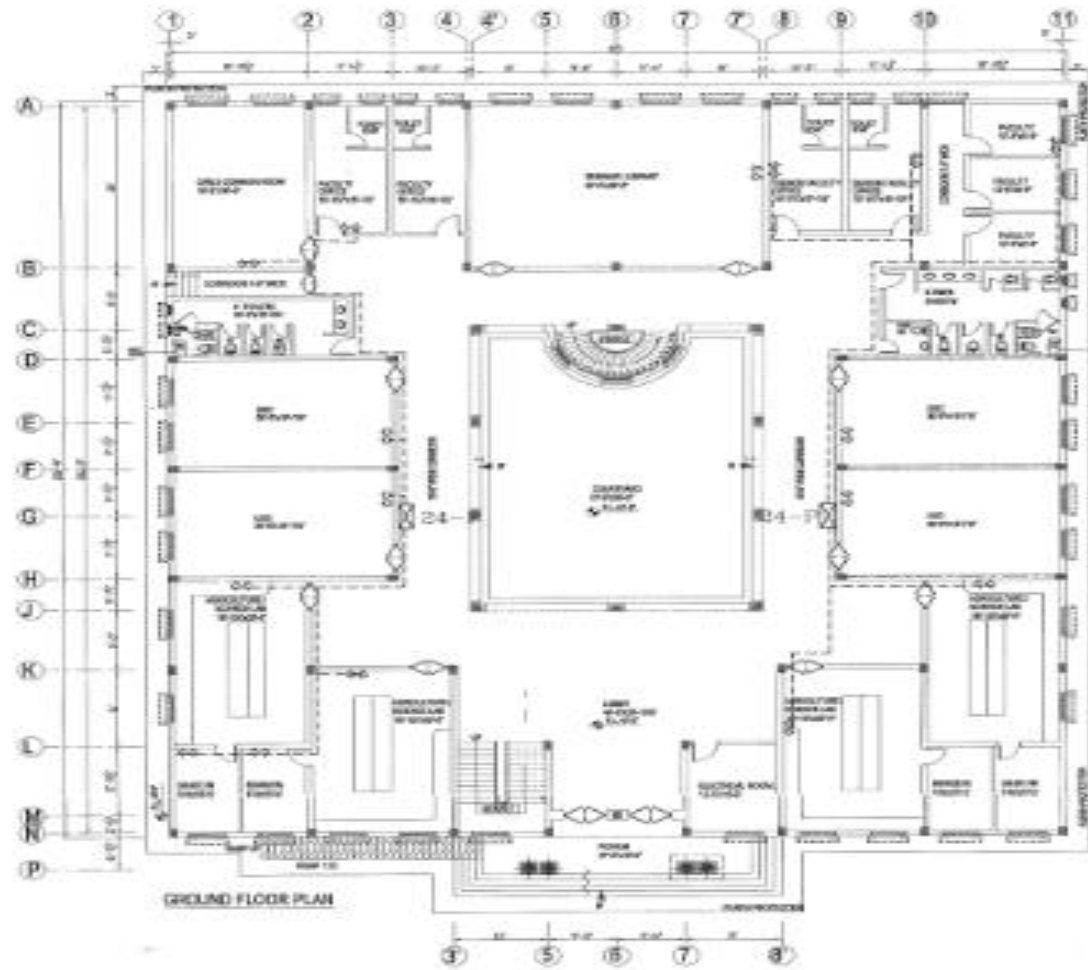
Second Floor Plan of Girls Hostel (CCTV)

Seal and Signature of Bidder M/S _____



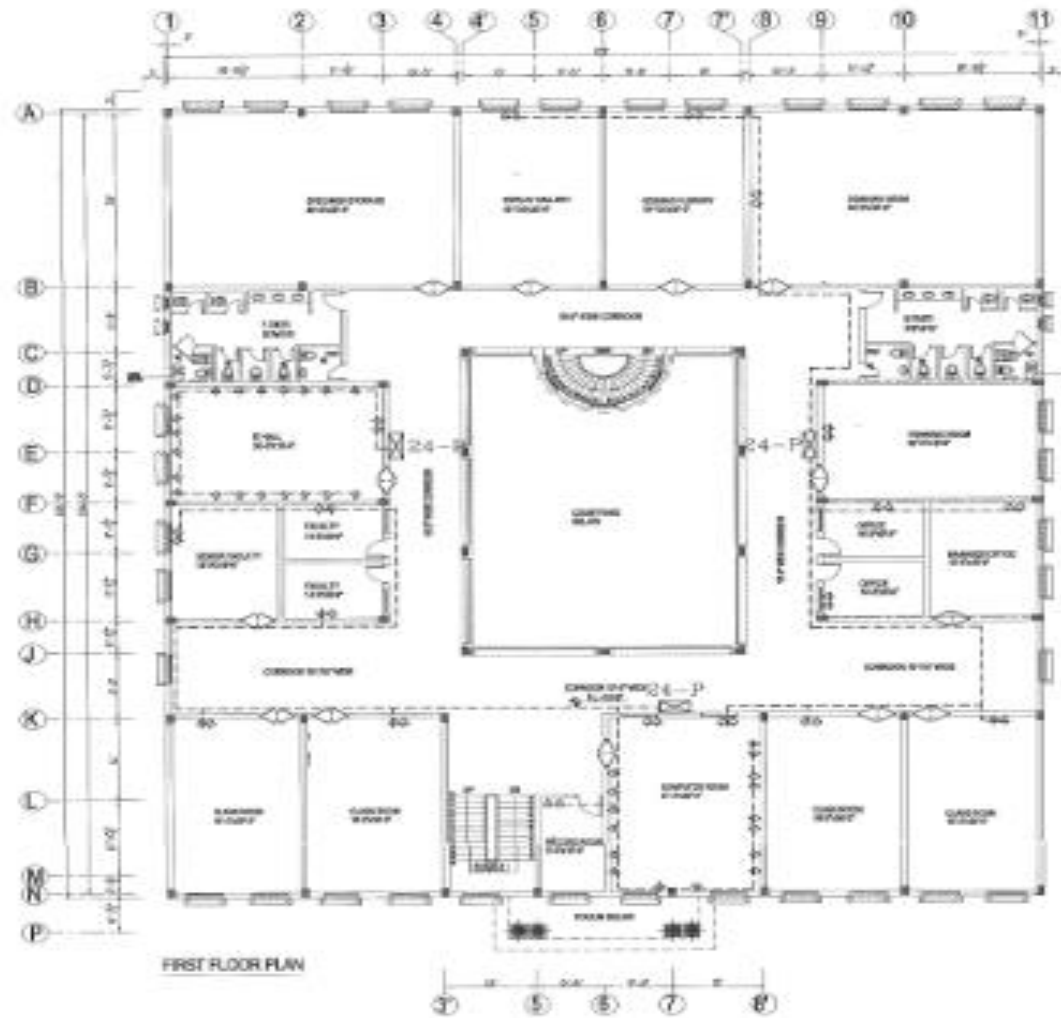
Third Floor Plan of Girls Hostel (CCTV)

Seal and Signature of Bidder M/S _____



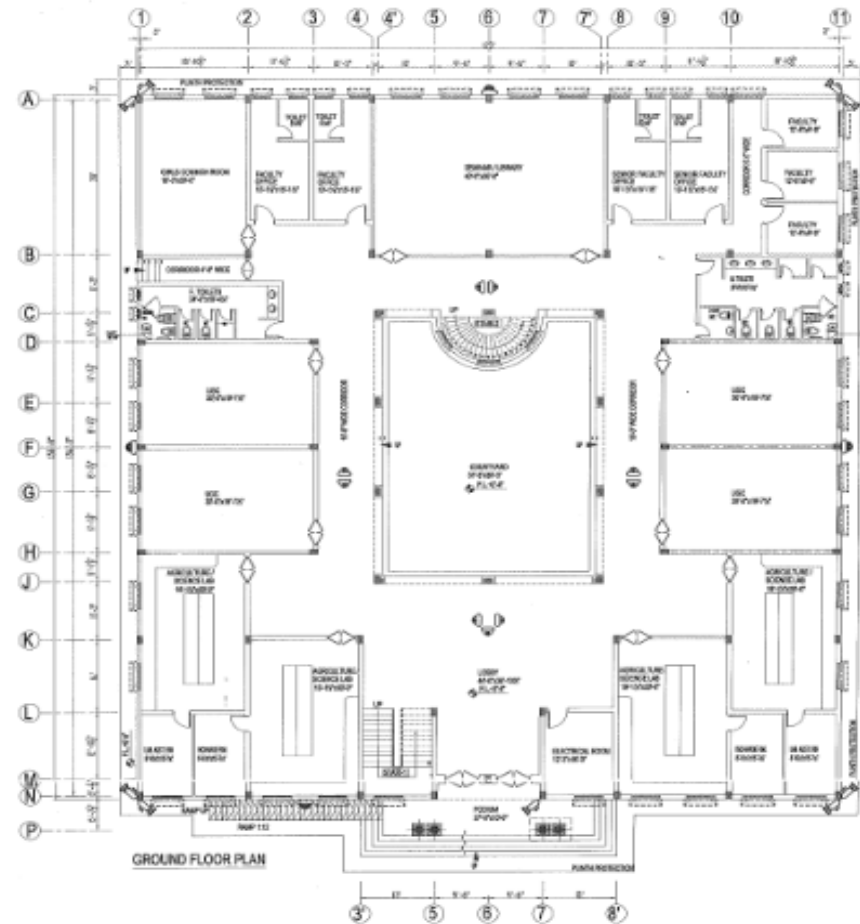
Herbarium & Agriculture Lab Ground Floor (Networking)

Seal and Signature of Bidder M/S _____



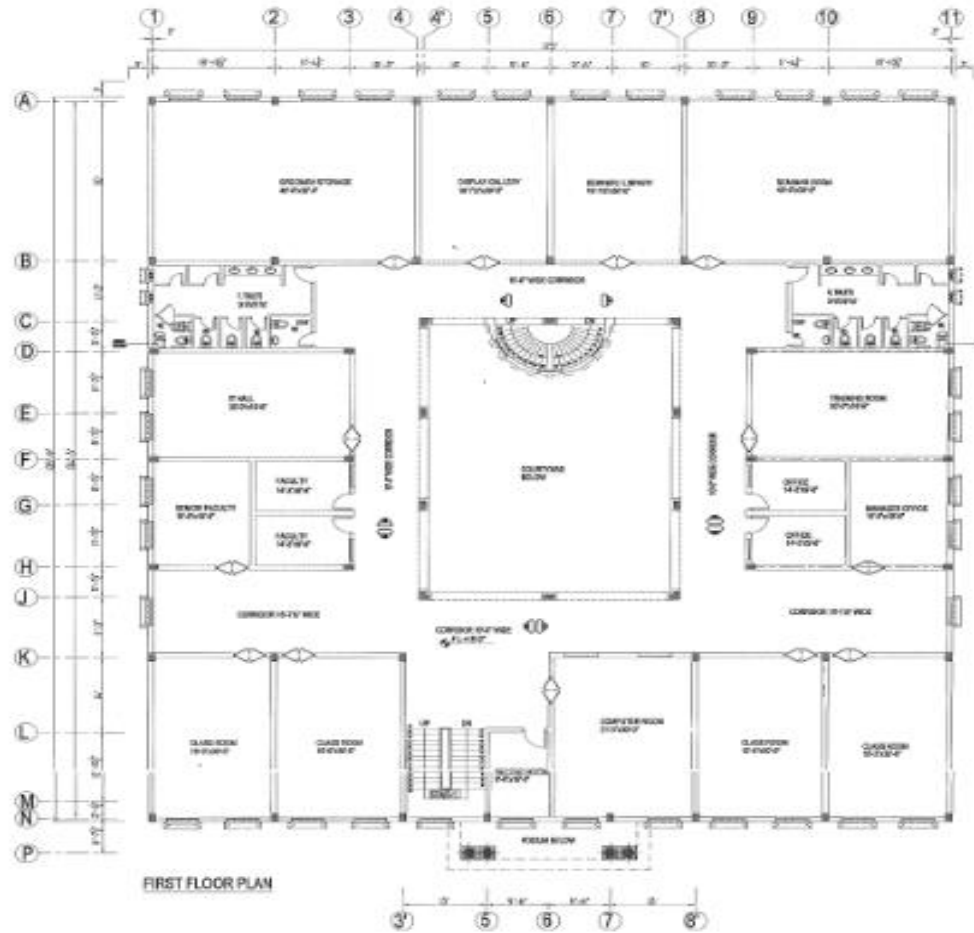
Herbarium & Agriculture Lab First Floor (Networking)

Seal and Signature of Bidder M/S _____



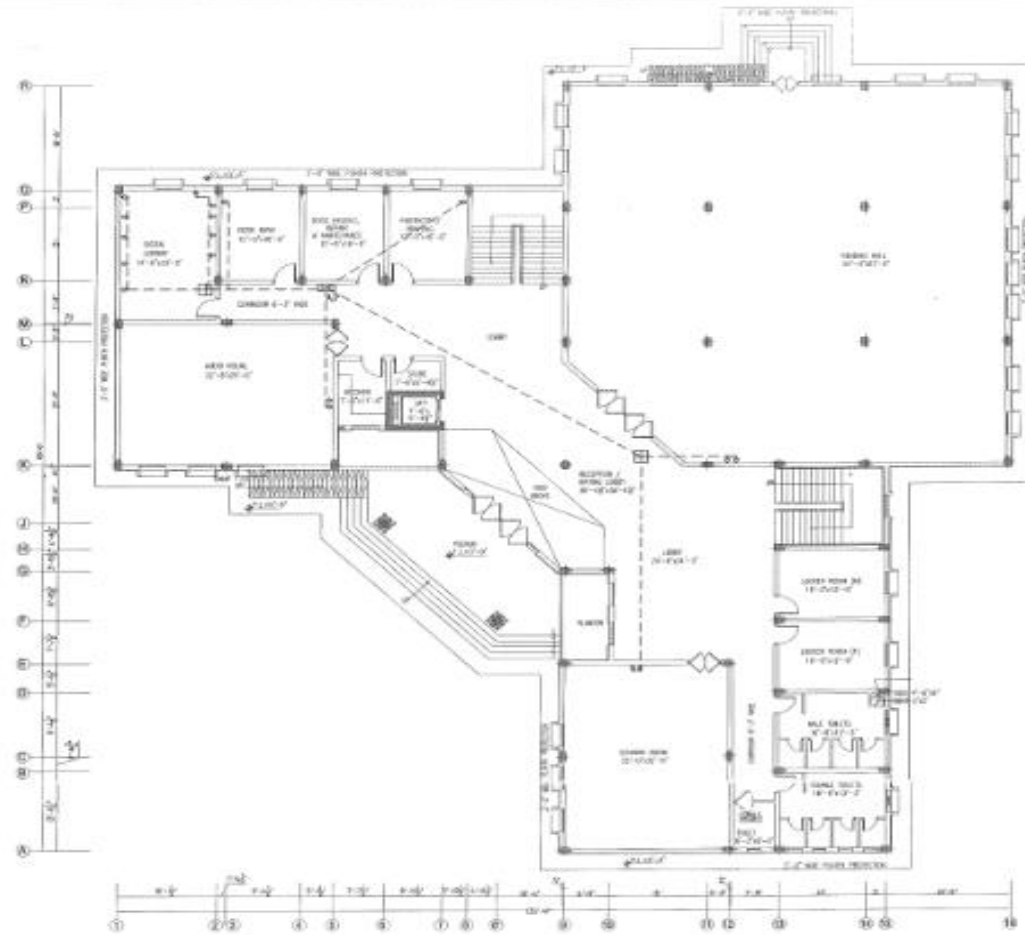
Herbarium & Agriculture Lab Ground Floor (CCTV)

Seal and Signature of Bidder M/S _____



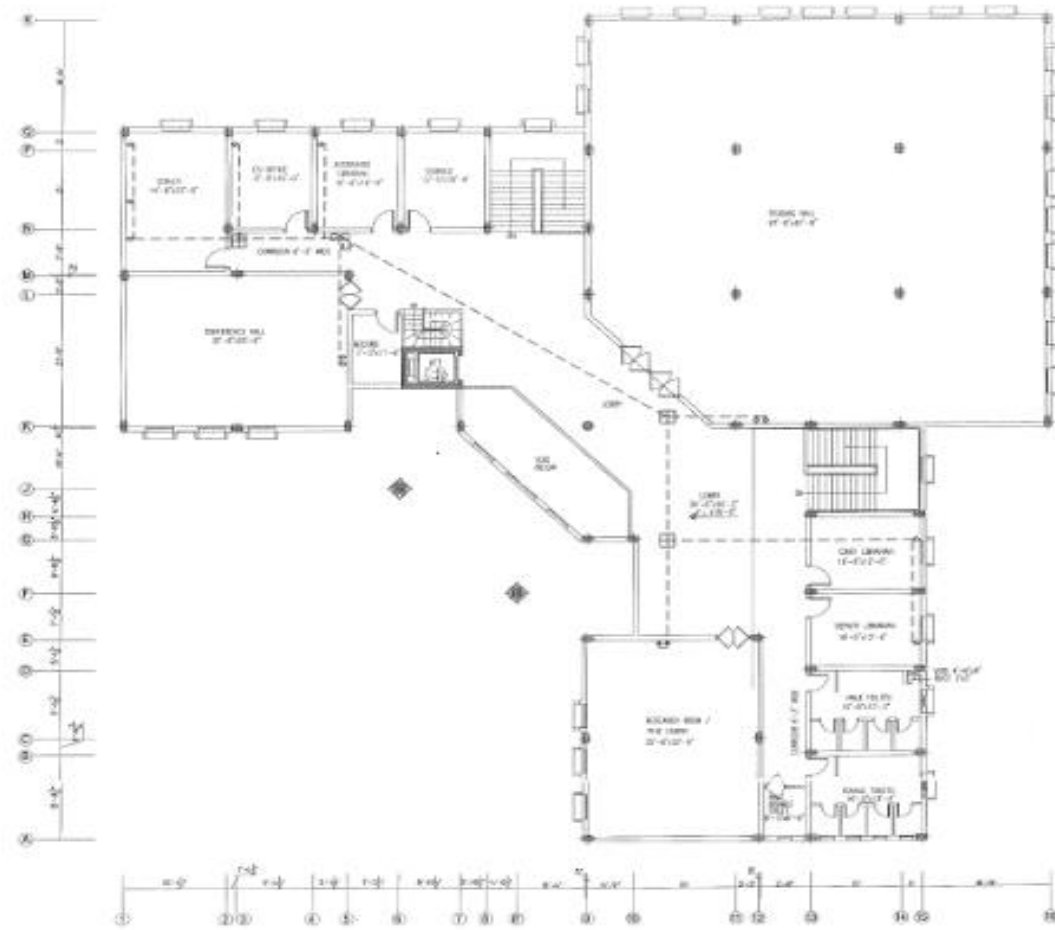
Herbarium & Agriculture Lab First Floor (CCTV)

Seal and Signature of Bidder M/S _____



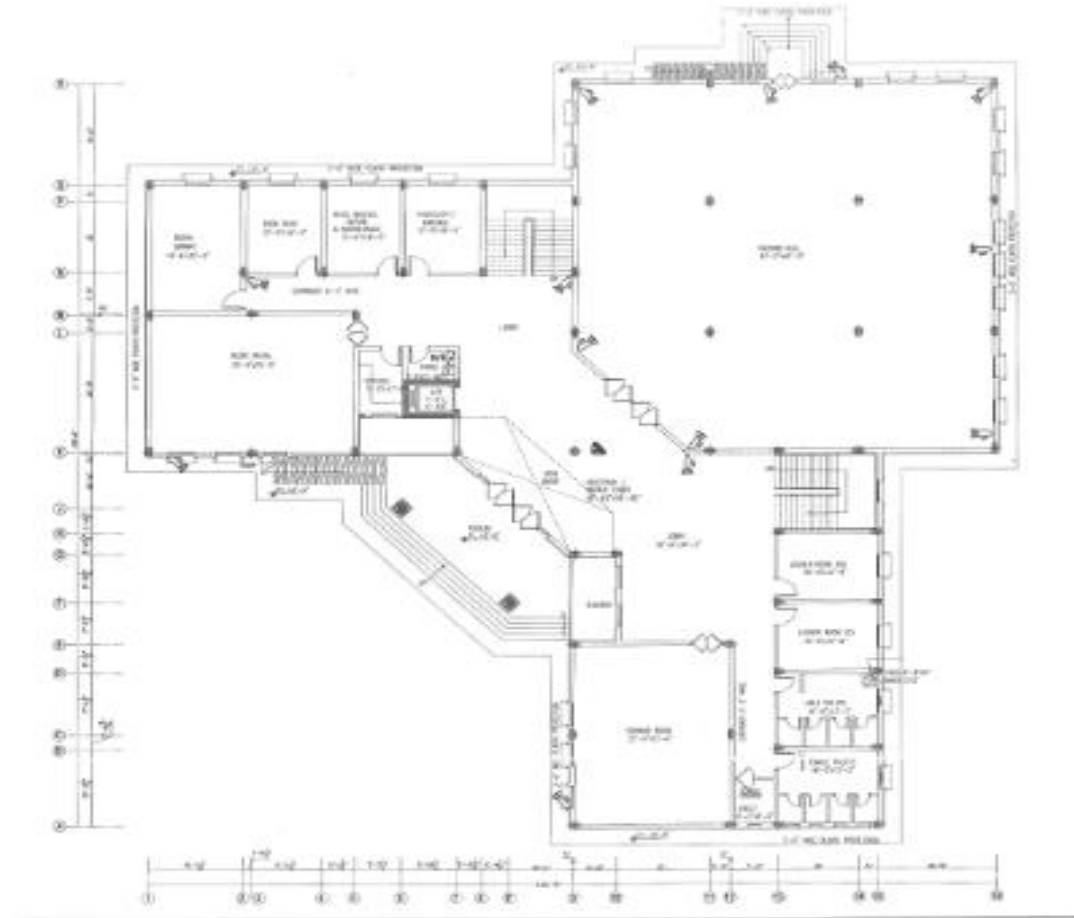
Central Library Ground Floor (Networking)

Seal and Signature of Bidder M/S _____



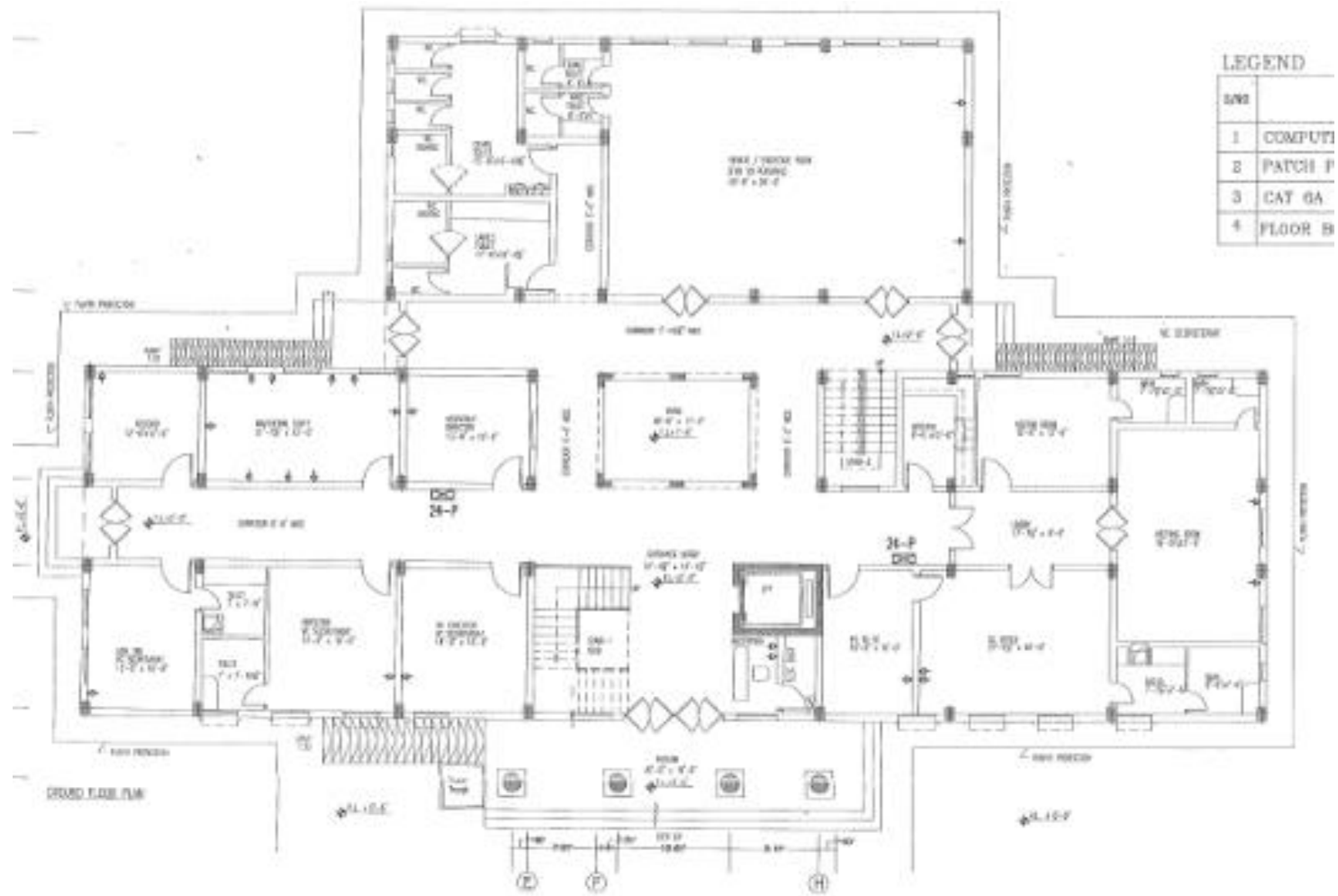
Central Library First Floor (Networking)

Seal and Signature of Bidder M/S _____



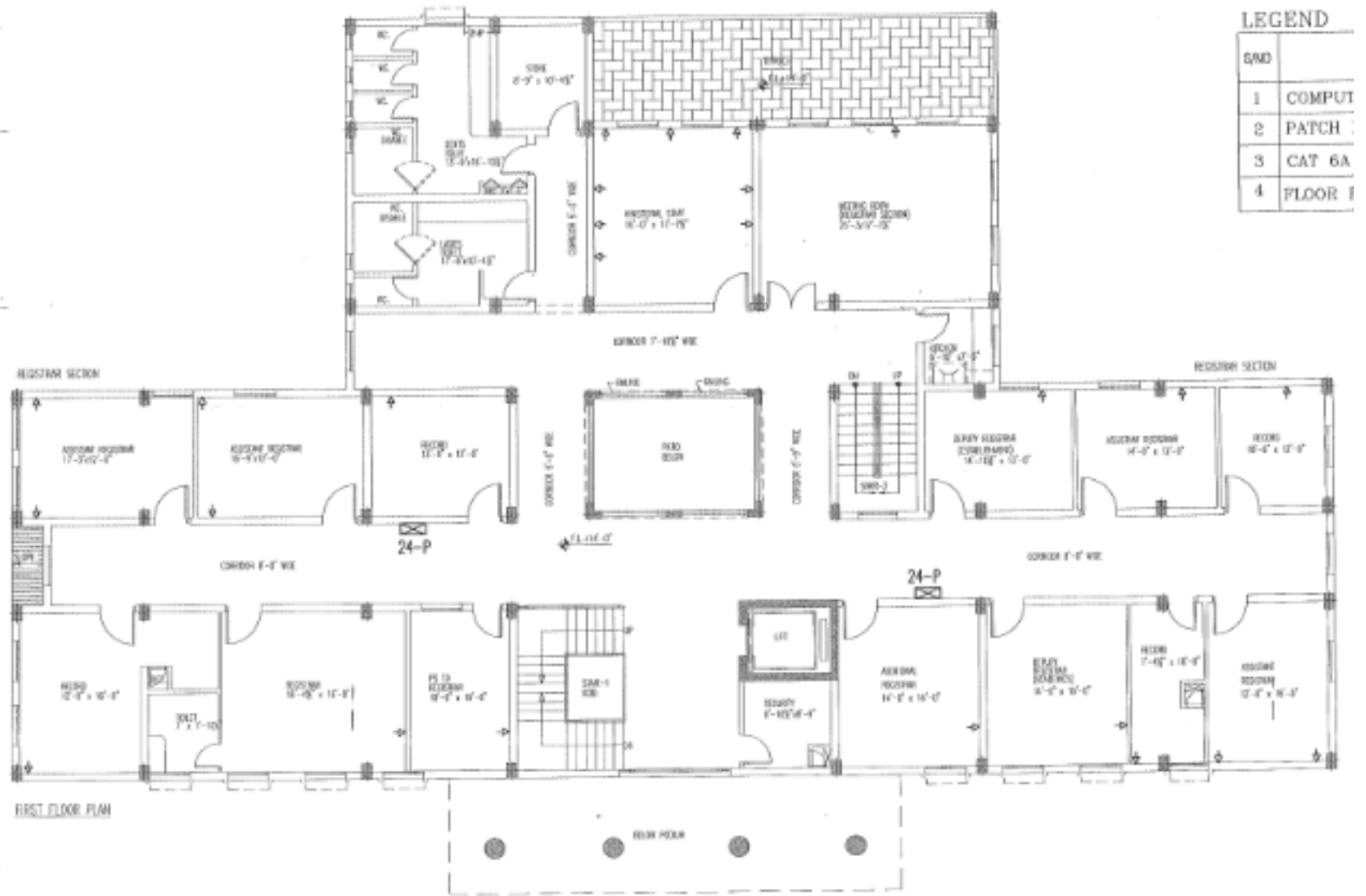
Central Library Ground Floor (CCTV)

Seal and Signature of Bidder M/S _____



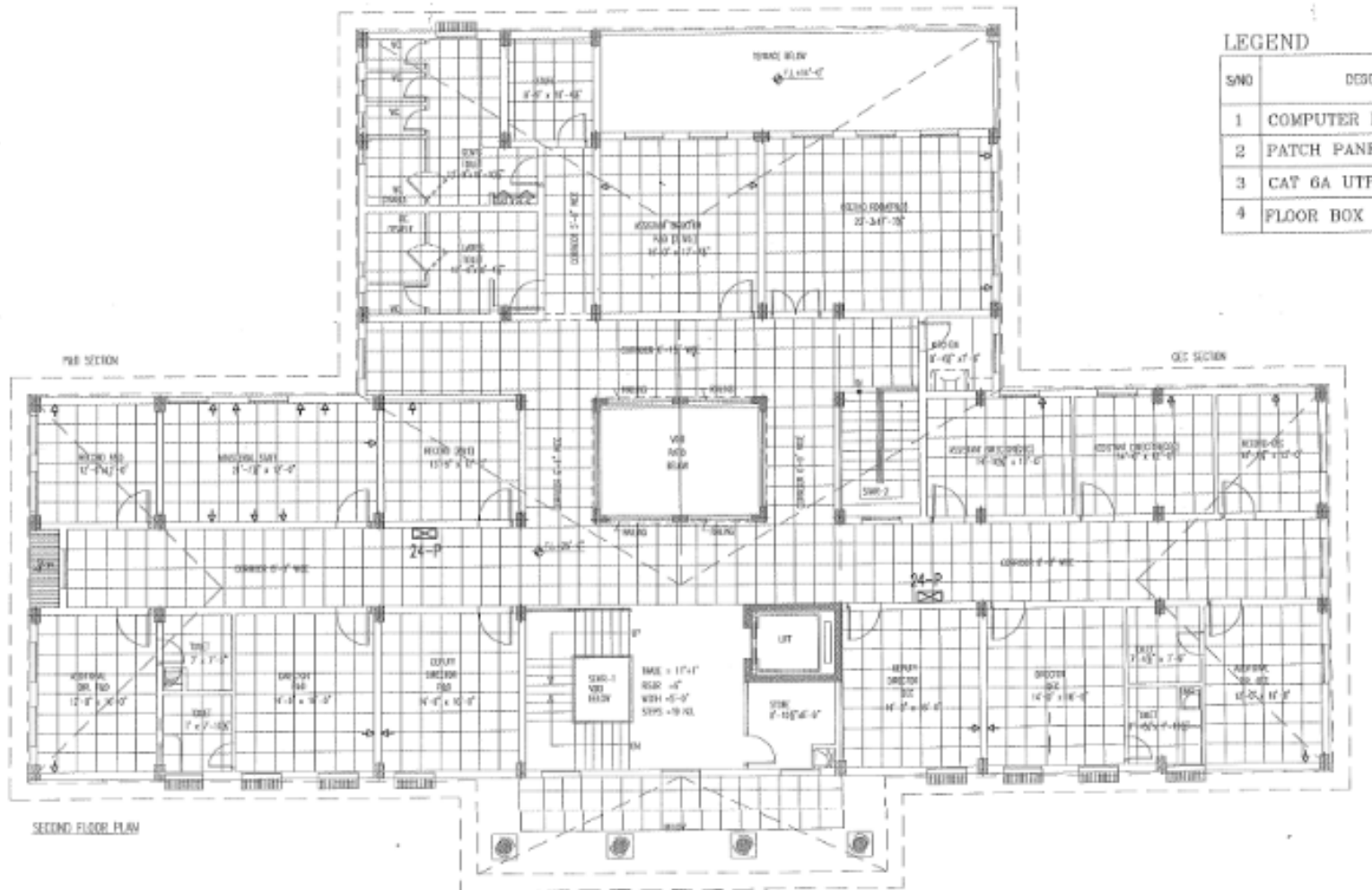
Administration Block (extension) Part-1 (Ground Floor) (Networking)

Seal and Signature of Bidder M/S _____



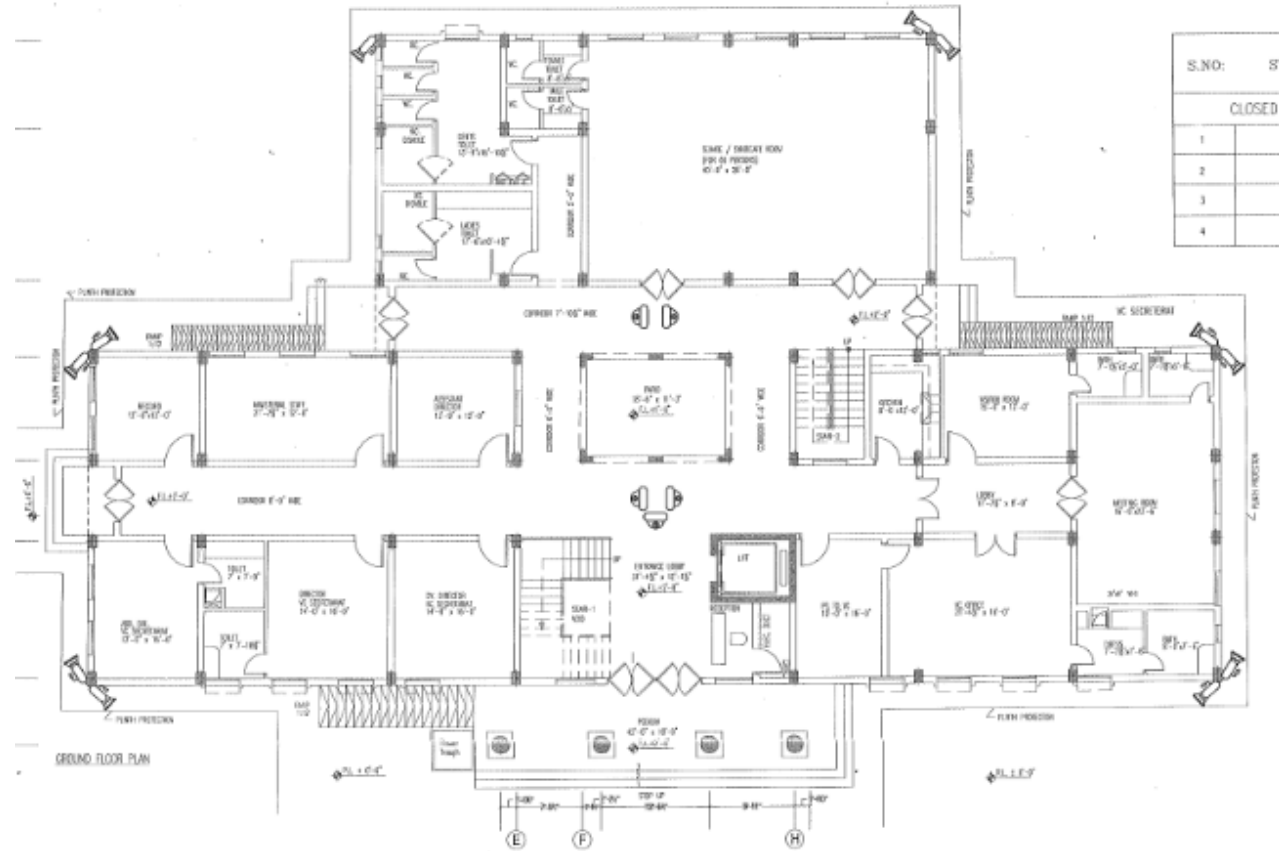
Administration Block (extension) Part-1 (First Floor) (Networking)

Seal and Signature of Bidder M/S _____



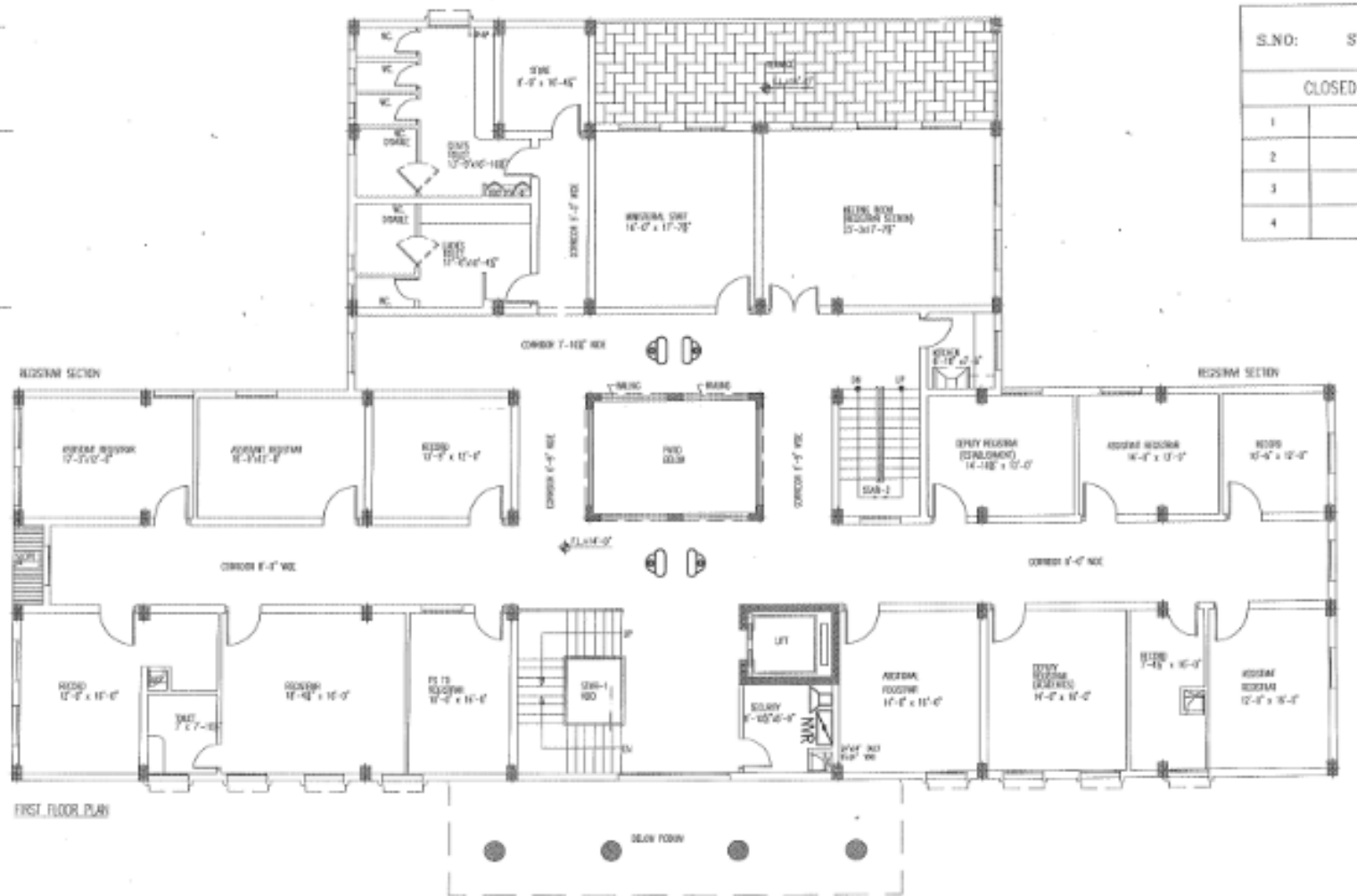
Administration Block (extension) Part-1 (Second Floor) (Networking)

Seal and Signature of Bidder M/S _____



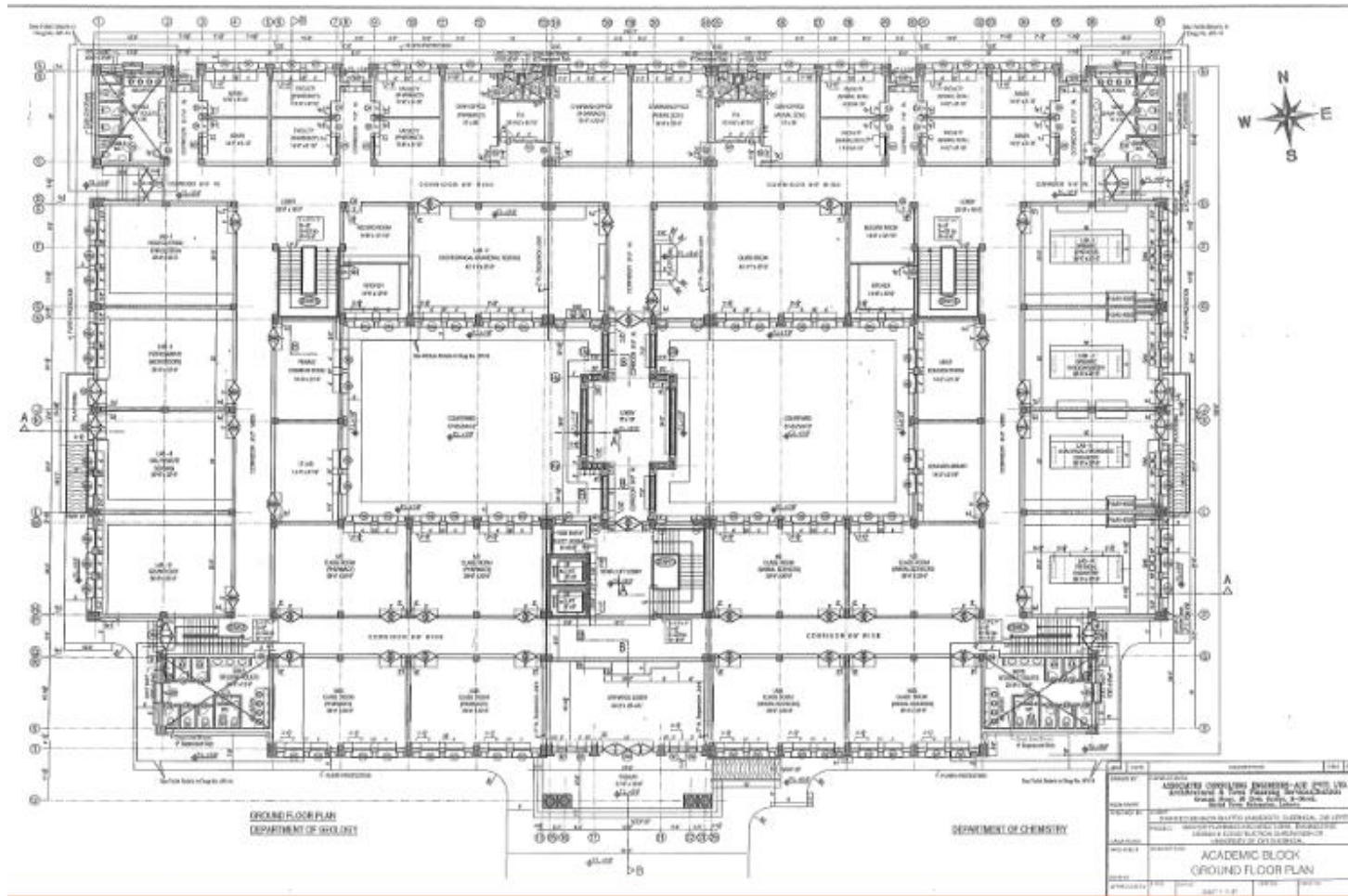
Administration Block (extension) Part-1 (Ground Floor) (CCTV)

Seal and Signature of Bidder M/S _____



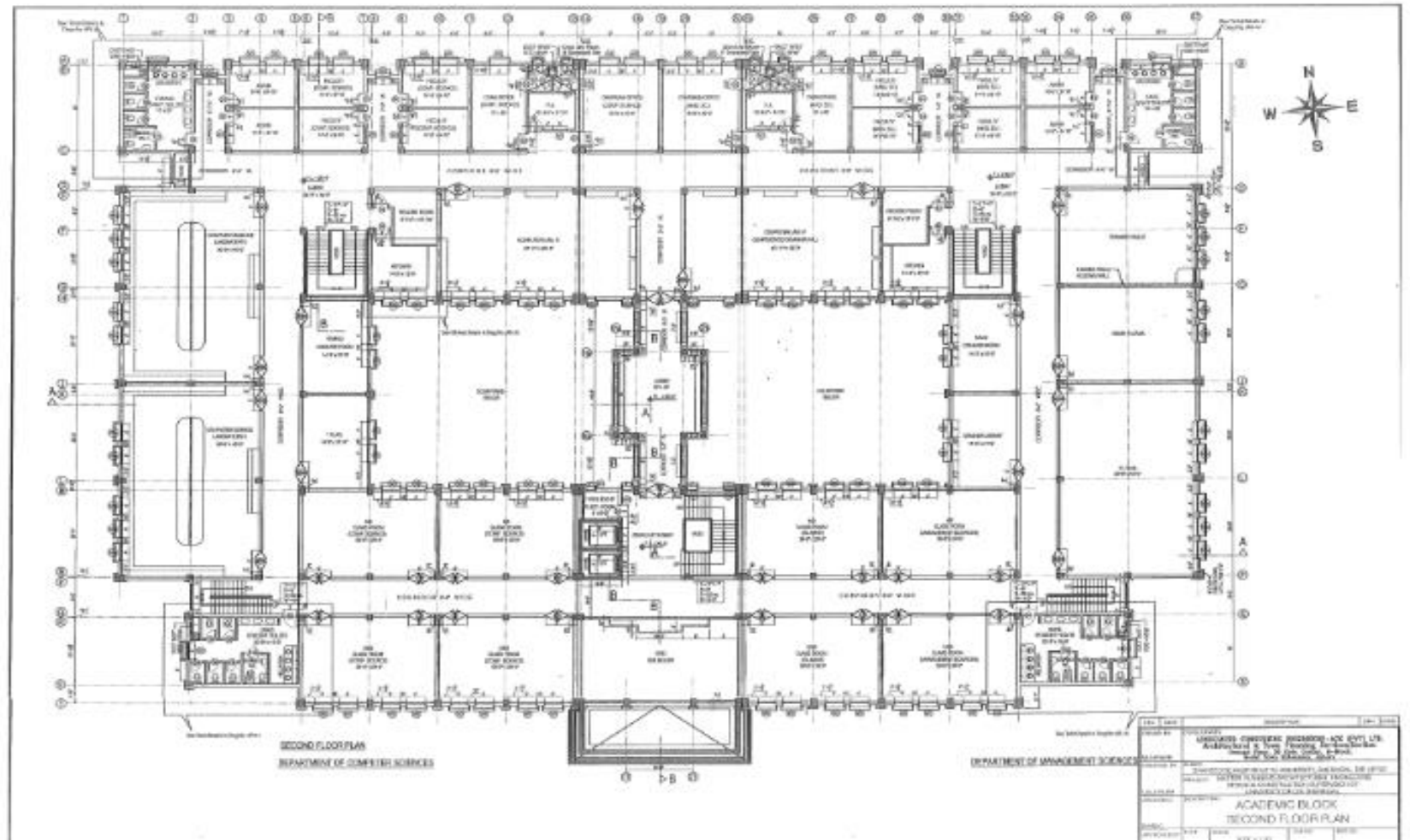
Administration Block (extension) Part-1 (First Floor) (CCTV)

Seal and Signature of Bidder M/S _____



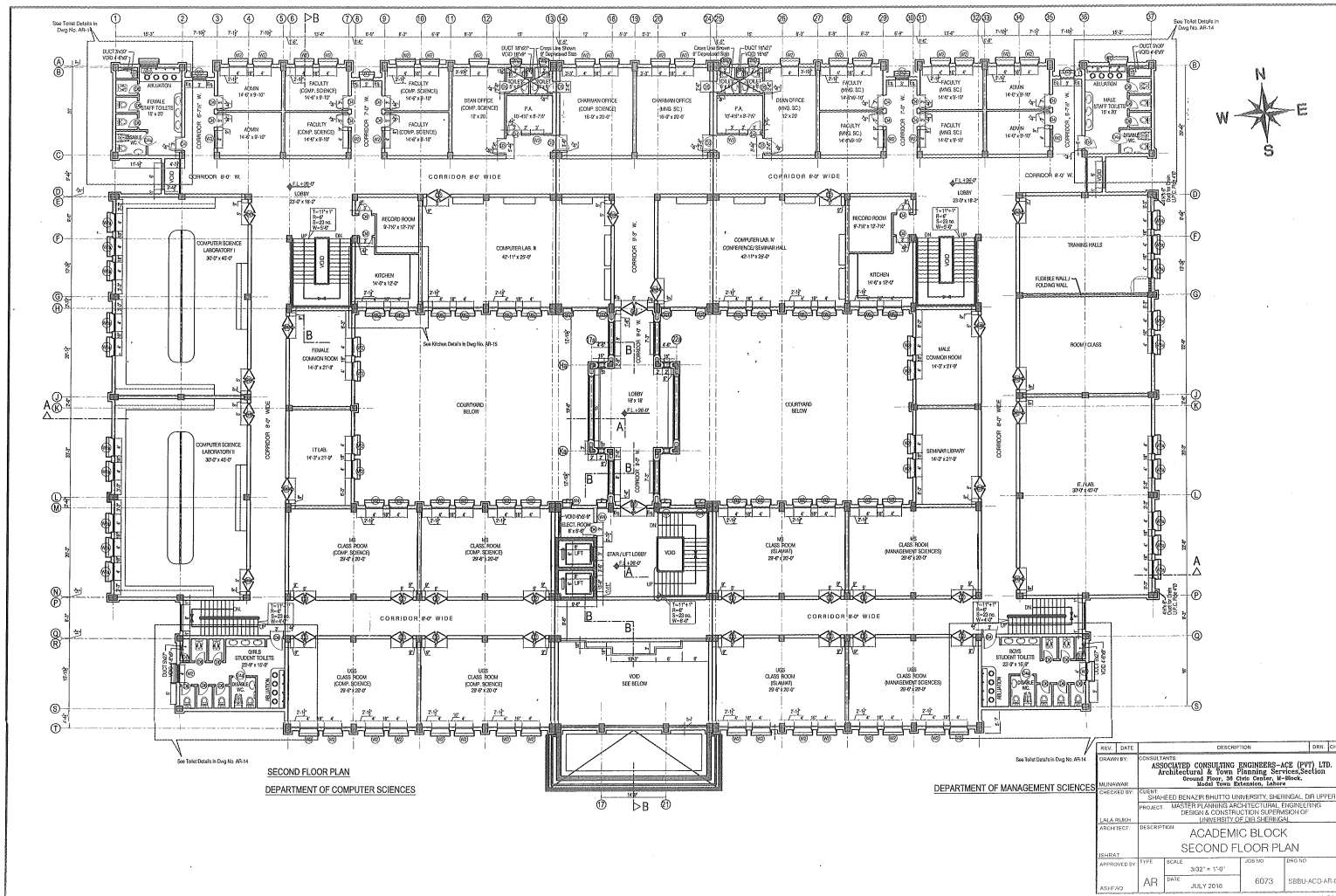
Academic Block (Ground Floor)

Seal and Signature of Bidder M/S _____



Academic Block (Second Floor)

Seal and Signature of Bidder M/S _____



Academic Block (Third Floor)

Seal and Signature of Bidder M/S