

CENTRAL UNIVERSITY OF PUNJAB

Established vide Act 25 (2009) of parliament

City Campus, Mansa Road, Bathinda-151001-Punjab, India

Tender Notice for the Design, Supply and Erection of Porta Cabin Type Hostels

Tender Notice No. M-63(2014-15)

Central University of Punjab, Bathinda

Tender Notice for the Design, Supply and Erection of Porta Cabin Type Hostels

Tender Notice No. M-63(2014-15)
Last Date for Submission of Tender: 25 March 2015
Name and Address of the University
Official Calling tender: Registrar,
Central University of Punjab,
City Campus, Mansa Road,
Bathinda-151001
Punjab, India.
Telephone/Fax No.: +91-164-2864106
E-Mail Address: registrar.cup@gmail.com; registrar@cup.ac.in

Schedule of Activities		
1.	Date of Issue of Tender Document:	4 March 2015
2.	Submission of Tender Document:	25 March 2015 at 3.00 P.M. at City Campus, Mansa Road, Bathinda
3.	Opening of Technical Proposals:	25 March 2015 at 3.30 P.M. at City Campus, Mansa Road, Bathinda
4.	Presentation to Selection Committee:	27 March 2015 at 3.00 P.M. at City Campus, Mansa Road, Bathinda
5.	Opening of Financial Proposal:	To be notified separately

Tender Purchase Details:

This tender document can be downloaded from the University website www.cup.edu.in or www.cup.ac.in or can be obtained from the office of the Registrar, Central University of Punjab by paying Rs. **2000/-**. Sealed tender documents, if downloaded from the website must be accompanied by a demand draft of Rs. **2000/-** in favour of Central University of Punjab, payable at Bathinda.

CHECK LIST

(TO BE FILLED COMPLETELY & PLACED IN ENVELOPE-1)

Sr. No.	Points to be verified	Yes/No
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1. Technical specifications compliance sheet
2. Tender fee
3. EMD
4. Photocopy of PAN and TAN card
5. User list and certificates issued by clients
6. Copy of income tax return certificate
7. All other certificates as asked in tender document
 - a. Spare parts availability/AMC certificate
 - b. Certificate indicating country of manufacture
 - c. Sales tax registration certificate
 - d. Copy of "General/Special Conditions of Contract" signed and stamped on each page
 - e. Solvency Certificate
 - f. Pre-Contract Integrity Pact duly signed by both the parties

Place:

Signature of Authorized Person

Date:

Designation

Seal

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Central University of Punjab, Bathinda

Central University of Punjab, Bathinda wishes to have the Hostel accommodation, separately for 77 Boys (single seater) and 121 Girls (single seater) and a Dining Hall suitable with panelling upto 4 ft with cross ventilation and provision/openings for ACs for 40 persons at the earliest. The Boys Hostel and Girls Hostel will be at two different locations inside the campus and should have almost all facilities, that a Hostel has except mess and accordingly invites sealed tenders from reputed Manufacturers/ Dealers/ Suppliers for the under mentioned items:

Item	No.	Tender Fee(in INR)	EMD (in INR)
Design, Supply and Erection of Porta Cabin Type Hostels	Two Nos. as mentioned above	2000/-	8,00,000/-

I. INSTRUCTIONS TO BIDDERS

1. PREPARATION OF TENDER:

- i. The tender number and due date should invariably be super-scribed on the envelop cover.
- ii. The proposals shall be submitted in two parts, viz. **“Technical bid”** and **“Financial bid”** in **two separate sealed envelopes**(with respective marking Superscribed in bold).
- iii. The first envelope (envelope 1) marked **“Technical bid”** should include the technical specifications and layout. The first envelope should not contain any cost information whatsoever. The second envelope (envelope 2) marked **“Financial bid”** should contain the detailed price offer in prescribed format (price schedule). EMD and Tender fee submitted, if any, should not be placed inside the financial bid at in separate cover.
- iv. The sealed envelopes, of technical bid, EMD and Tender fees and financial bid, should be placed in a bigger sealed cover. The top of cover must also contain Name and Address of the tenderer, telephone and other contact details for further correspondence.
- v. The vendors will be invited to make presentation before the Committee on technical specifications, layout and samples of the material being used before opening of the financial bid. The tentative layout is given, however, the vendors may be asked to incorporate some changes in the layout with the consent of CUPB.
- vi. Top five tenderers competing in technical evaluation will only be considered for financial evaluations. The price envelopes of others will not be considered. At second stage, financial bids of only technically acceptable offers shall be opened for further evaluation and ranking before awarding the contract.
- vii. The financial proposal shall be opened in the presence of the tenderers or their representative who choose to attend. The prior information in this regard will be given to the qualified tenderers.
- viii. The printed literature and catalogue/brochure giving full technical details should be included with the technical bid to verify the specifications quoted in the tender.

2. DELIVERY OF TENDER

- i. All tender documents should be addressed to Registrar, **Central University of Punjab, City Campus, Mansa Road, Bathinda-151001-Punjab, India.**
- ii. Tenders duly sealed and sent only by post/courier will be considered. No tender by hand/electronically will be accepted.
- iii. No responsibility with regard to postal delays due to any reason, whatsoever, will be accepted.

3. PERFORMANCE SECURITY

- i. Tenderer selected for supply of instrument will have to provide Performance Bank Guarantee (PBG) on any **scheduled bank situated in India, equivalent to 5 % of the value of the contract** which should be valid for a period of sixty days beyond the date of completion of all contractual obligations of the Manufacturers/ Dealers/ Suppliers/Contractors including warranty obligations.
- ii. Bid Security (EMD) will be refunded to the unsuccessful bidders and to the successful bidder on receipt of performance security. The institute will pay no interest for the deposits.

II. GENERAL CONDITIONS OF CONTRACT (GCCs)

1. GENERAL DIRECTIONS:

- i. Tender should be submitted along with tender fee, EMD and all other necessary documents. The main envelope should be super scribed: **“Quotations for Design, Supply and Erection of Porta Cabin Type Hostels, Last date of 25 March 2015.**
- ii. Blank tender forms for the above items along with details can be downloaded from www.cup.edu.in or www.cup.ac.in. The non-refundable application fee of Rs. 2,000/- must be accompanied with each tender/quotation in this case.
- iii. **Tenders must accompany a copy of the “General/Special Conditions of Contract” section of this document, duly signed and stamped on each page indicating that they agree to the same.**
- iv. **Last date of submission of tender along with requisite fee, EMD and all documents is 25 March 2015 upto 3.00 P.M. Technical bids will be opened on 25 March 2015 at 3.30 P.M.** The firms who wish to be present at the time of opening of Technical Bids may depute their representatives accordingly.
- v. The DD for application fee, EMD or any other must be drawn in favour of **Central University of Punjab (CUP), Bathinda.**
- vi. Electronic submission of documents (by facsimile, email and so on) is not acceptable.
- vii. If the last date of submission is declared holiday in **CENTRAL UNIVERSITY OF PUNJAB** (in exceptional cases), the date of submission and tender opening will be the next working day.
- viii. Validity of tenders shall be 120 days from the last date of submission of the tenders.
- ix. Place of delivery of the material is **Central University of Punjab, Mansa Road, Bathinda** and is the sole liability of the Manufacturers/ Dealers/ Suppliers only.
- x. The **CENTRAL UNIVERSITY OF PUNJAB** reserves right to accept/reject any or all the tenders at any time without assigning any reason.
- xi. The tenders received late, without tender fee, without earnest money, without required experience turnover and other documents or incomplete in any respect / misleading will be rejected out-rightly.
- xii. Financial bid and Technical compliance sheet should be strictly as per tender format, and signed on each page.
- xiii. If the supplier/firm is manufacturer/authorized dealer/sole distributor of any item, the certificate to this effect must be attached.
- xiv. The tenderer must give certificate duly signed and stamped by manufacturer for the free maintenance and servicing of Porta Cabins for at least 2 years. Supplier should give an undertaking that necessary service/ maintenance will be provided within the specified periods as and when ordered. 5% payment shall be retained for this purpose.
- xv. If the material be imported one, Certificate indicating country of manufacture must be attached.
- xvi. The tenderer who gets the contract will have to sign integrity pact as per instructions of the government. Copy of the same will be made available on request.

2. EVALUATION OF BIDS RECEIVED

The University has the full right to evaluate, segregate, rank the responsive bids and select the successful bidder for placement of the contract. Any decision by the Central University of Punjab in this regard will be final. No legally enforceable right vested in the quoted party merely because it was ostensibly the lowest bidder.

3. DELIVERY, INSTALLATION AND WORK COMPLETION

The delivery and erection of the Porta Cabins will be made within stipulated time period i.e. 15 weeks of the placement of Supply/Work Order otherwise will attract penalty @ 1% of the delivered price of the delayed goods for each week or part thereof to a maximum of 10% of the delivered price. The supply of material should be done within first six weeks so that the erection work starts. Otherwise above penalty may be imposed after expiry of three weeks from the placement of supply cum work order. In case of imported item, the supplier/their Indian Agent will be responsible for delivery from the place of dispatch of material to final point, supply and erection of the Porta Cabins type Hostel accommodation.

4. PRICE AND DELIVERY

- i. The prices quoted must be F.O.R. **Central University of Punjab, Bathinda**, excluding taxes and other levies, if any.
- ii. All other charges including VAT/CST, Excise Duty and other levies payable by CENTRAL UNIVERSITY OF PUNJAB should be clearly indicated otherwise it will be presumed that the rates quoted are inclusive of all these charges and will not be paid.
- iii. The Excise Duty component (with %age), if any, should be indicated, as the University is exempted by the DSIR from the payment of Custom/Excise Duty. Exemption will be availed by providing Custom/Excise duty exemption certificate with supply order.
- iv. Exact Delivery Schedule and Warranty/Guarantee etc. must be clearly indicated in the technical bid. The charges for extended warranty and/or Annual Maintenance Contract after the expiry of offered warranty period should be clearly specified in the financial bid but separately so that if required it can be considered. The schedule of supply, erection and commissioning etc. will be given preferably day-wise or alternatively on weekly basis alongwith Technical bid.
- v. The manufacturers' printed literature/catalogue/drawing/user's list in respect of range of products being quoted should also be submitted with the offer.
- vi. In case, the rates are being offered by the dealer/stockiest, a certificate from the manufacturer in original about the authorization of dealership/stock holder and to quote rates on their behalf, be furnished with the offer along with a certificate from the manufacturer that for the material supplied through the authorized dealer, they will be responsible for its quality and guarantee/warranty.

- vii. The supply of items of approved specifications shall have to be made strictly as per given delivery schedule on placement of order, failing which the material may be rejected and returned at the expenses of the supplier.
- viii. The firms shall be required to arrange demonstration or make presentation of the offered item, as required by the University.

5. **PAYMENT**

20% payment will be released on receipt of 80% material within 6 weeks of the placement of order. 20% more on completion of plinth and erection upto roof level. Another 20% payment will be released on completion of roof, false ceiling and bathrooms with full fittings. Another 30% will be released on completion of full accommodation made fit for living of students. Final 5% payment will be released after attending to the minor defects/pending works within 30 days of occupation and completion in all respects. 5 % will be retained as a guarantee for free maintenance for 2 years and will be released after 2 years.

6. **WARRANTY**

Any defective goods should be replaced or repaired by the supplier free of charge. Delivery of goods and its installation at Central University of Punjab, Bathinda during part repair/replacement should be free of charge. A warranty certificate declaring these points must be supplied with the technical bid.

7. **SALES TAX REGISTRATION CERTIFICATE**

Tender applications must be accompanied by duly attested Photostat copy of the sales tax declaration to the effect that the firm is registered under the Sales Tax Department.

8. **INCOME TAX**

Photostat copy of the latest income tax return (ITR) and a copy of PAN should be provided.

9. **CUSTOM DUTY & EXCISE DUTY EXEMPTION**

Our Institute is registered with the Department of Scientific & Industrial Research (DSIR) for purposes of availing customs duty exemption. The certificates will be made available once the supply order has been placed.

10. **INSURANCE**

The goods supplied shall be fully insured in Indian rupees against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery. The insurance shall be valid for a period of not less than 3 months after installation and commissioning. Insurance shall be at the cost of supplier.

11. THIRD PARTY INSPECTION

The payments will be released on satisfactory Report by an accredited agency who will be entrusted with the job of inspection of material and works.

12. Arbitration

Any question, dispute or difference arising under or out of or in connection with this work shall be settled through mutual discussions and consultations by the university and the Manufacturer/Dealer/Supplier/Contractor. In case no resolution is possible/reached, the dispute or difference shall be referred to the Vice Chancellor of Central University of Punjab, Bathinda by either party for appointment of Sole Arbitrator by the Vice Chancellor of the University. The award of the Sole Arbitrator shall be final and binding upon the parties. All arbitration proceedings shall be carried out in accordance with The Arbitration and Conciliation Act, 1996 as amended from time to time.

13. All firms shall quote for both option I and option II rates and the University will be at liberty to select any of the options.

III. TECHNICAL SPECIFICATIONS & SPECIFIC CONDITIONS OF CONTRACT FOR PORTA TYPE CABIN STRUCTURES FOR HOSTEL ACCOMMODATION

A. PLANNING ASPECTS

- i. The Porta Cabins must provide minimum 80 sq. ft. per student. Each cabin enclosure shall house one or three students catering adequate space for Bed, Cupboard and Writing Table with chair. The cabin must be inclusive for provision of desert cooler fixing arrangement at an appropriate level with the opening closable with suitable arrangements during the winters.
- ii. The opening/entry shall be controlled by enclosed single entry with an entry gate.
- iii. The toilet block shall cater suitably at one/two/three places ends adequately accessible.
- iv. The hostel accommodation will include the construction of septic tank and connecting piping, inclusive storage tank, raising of plinth and flooring thereof, overhead water tanks, at minimum 20' height minimum 2000 lt (two in each Hostel). laying of water and sewer pipes of minimum 6" size, bathroom fittings, wiring and switch boards, main switching station with main supply from academic block boys hostel/existing girls hostel and suitable connection for computer, fan, and light etc. The entry shall be secured by one gate and Chain Link fencing on outer periphery as per sketch attached.
- v. The hostel should be complete to step in and everything should be provided in the accommodation. Bed, mattress, table, chair cupboard will be provided by University.
- vi. A rough tentative sketch of layout is also given for reference. It can be changed if required by the University.
- vii. The firms will quote in Rupees per sqft of covered area for this hostel suitable for 100 inmates each i.e. two hostels, one for boys and other for girls at two different locations in the same campus:

OPTION: 1 Roof Covering PPGI Sheet:-

- a. For 77 No students (Boys Hostel) – Area* _____ @ Rs. _____ per sqft of covered area
- b. For 121 No students (Girls Hostel) – Area* _____ @ Rs. _____ per sqft of covered area
- c. Charges for extended warranty period upto 5 years @Rs. _____ per sqft of covered area
- d. Dining Hall (Near Girls Hostel) – Area _____ @ Rs. _____ per sqft of covered area

Total - Area _____ @ Rs. _____ persqft of covered area

OPTION: 2 Roof Covering with PUF Insulated Panels:-

- a. For 77 No students (Boys Hostel) – Area* _____ @ Rs. _____ per sqft of covered area
- b. For 121 No students (Girls Hostel) – Area* _____ @ Rs. _____ per sqft of covered area
- c. Charges for extended warranty period upto 5 years @Rs. _____ per sqft of covered area
- d. Dining Hall (Near Girls Hostel) – Area _____ @ Rs. _____ per sqft of covered area

Total - Area _____ @ Rs. _____ persqft of covered area

B. TECHNICAL BIDS

In Technical bid the firms will justify their financial standing, experience & qualifying criteria, turnover etc. It will be enclosed in a separate envelope marked 'Technical Bid'. However, the firms will give their designs, layout on the given site also during the presentations made by them for the Technical bid evaluation process. The tenderers may see the site and may propose better layouts during the Technical presentation.

C. Earnest Money

The bidders will submit Earnest Money of Rs. 4, 00,000/- in the form of Demand Draft payable in the name of Central University of Punjab, Bathinda payable at Bathinda. This will be put in a separate envelope marked "Earnest Money".

D. FINANCIAL BID

The firm will quote their rates for design, supply & construction of portable type cabins suitable for housing 198 students in the Hostels with all amenities as mentioned in tender specifications and specified in Planning Aspects at Ser. No. vii, i.e. The firms will quote for a per sqft in Indian Rupees for this hostel, i.e. two hostels, one for boys and another for girls will be separate unit and the total cost to be should be inclusive:

I. Option – I With Roof Covering of PPGI Sheets

- a. For 77 No students (Boys Hostel) – Area* ___@ Rs. ___per sq.ft of covered area
 - b. For 121 No students (Girls Hostel) – Area* ___@ Rs. ___per sqft of covered area
 - c. Dining Hall (Near Girls Hostel) – Area ___@ Rs. ___ per sqft of covered area
 - d. Charges for external warranty period for 5 years Rs. ___per sqft of covered area
- Total - Area ___@ Rs. ___per sqft of covered area

II. Option - II with Roof Covering with PUF insulated panels.

- a. For 77 No students (Boys Hostel) – Area* ___@ Rs. ___per sqft of covered area
 - b. For 121 No students (Girls Hostel) – Area* ___@ Rs. ___per sqft of covered area
 - c. Dining Hall (Near Girls Hostel) – Area ___@ Rs. ___ per sqft of covered area
 - d. Charges for external warranty period for 5 years Rs. ___per sqft of covered area
- Total - Area ___@ Rs. ___per sqft of covered area

This will be enclosed in a separate envelope marked "Financial Bid".

Above three envelopes at 'B', 'C', 'D' as above i.e. Technical Bid, Earnest Money & Financial Bid will be sealed in a bigger envelope marked Tender for Porta Cabins and be sent to **Registrar, Central University of Punjab, Bathinda, City Campus, Mansa Road, Bathinda on or before _____ by 3:00 p.m.**

E. Qualifying Criteria for Firms

1. The firms should have an experience of minimum 6 years in this field of construction & supplying of Porta Cabins.
2. The firm should have undertaken supply and construction of minimum 10,000sq.m. area during last 3 years.
3. It should have a turnover of Rs. 6 Crore during any of the last 3 years.
4. Preferably the firm should have an experience of constructing Porta Cabins for MES, CPWD, State Governments or Centre Government Departments.

F. Specification

1. **Scope of work:** Design manufacture supply and erection complete in all respects of the Hostel Accommodation suitable for 198 students (121 Girls and 77 Boys) at two locations plus Dining Hall for 40 persons of Porta Cabin type structure with hall/common room, office and store facilities which may be further extendable for 100 students.

2. Design Criteria:

- (i) Siesmic Co-efficient : Seismic Zone III
- (ii) Wind Pressure : 55m/s (Ref : IS : 875)
- (iii) Roof Slope : 1:4
- (iv) Water Absorption/penetration: Nil
- (v) Termite Proofing: Termite Proof in foundations plinth & floor
- (vi) Fire Resistant: Fire resistant and should not emit toxic flames/fumes.
- (vii) Ease of construction: Shelter should be modular in design.
- (viii) Design Load : As per IS 875

3. Wall Panel :

- Walls made of sandwich panel using 2 no. 10mm thick cement flat sheets (Asbestos Free) conforming to IS-14862:2000 as skins with 40mm thick layer of rigid CFC free close cell polyurethane foam (PUF Core) (Density 40kg ± 2kg/Cum) insulation sandwich panel. The cement sheet and expanded polyurethane core (PUF Core) shall be bonded together using PVA based (PUF chemical) bonding material conforming to IS 4835:1979
- The panels are to be manufactured using high pressure dispensing machine of required capacity to inject specified amount of PUF chemical into the cavity of full panel in one shot not exceeding 25 sec duration. This is to ensure that the PUF mixture is sprayed into the cavity before the foaming reaction starts so that the insulation core of the panel is formed in one piece and provides desired structural and physical properties. The PUF insulated core of panels will have the following properties:-

1.	Density	40kg ± 2kg/ cum
2.	Compressive strength at 10% deformation	2.10 kg/cm ²
3.	Tensile strength	3.7 kg/cm ²
4.	Bending strength	4.0 kg/cm ²
5.	Dimensional Stability (48 hours) (aa) 25 C (ab) +38 C & 90% RH. (ac) + 100 C	.10% .10% .40%
6.	Temperature Range	-180 ⁰ C to +110 ⁰ C
7.	Fire Resistant	Horizontal Extent of burn BS 4735<125 mm
8.	Self Extinguishing	Fire retarding foam chemical Not easily ignitable as per BS:476
9.	Water Adsorption	.20% volume at 100% RH
10	Water vapour Permeability	.08 - .12 gms/hr m ²

- All panels will be manufactured in single piece as per approved panel layout drawings using the above materials and manufacturing process.
- GI sheets to be used for (U/W cam locks sections) will be confirming to IS-5277:2013.
- Panel jointing arrangements:- each panel will be complete with tongue and groove joint and will be provided with cam locks (w/u) shape to insure rigid interlocking between panels. The joints between cam locks cold rolled pre-profiled steel sections should be kept minimum as possible, however any existing gap to be filled with steel putty and fair finish using emery papers of different grade.
- All material required for the manufacture of shelter will be new and shall comply with relevant Bureau of Indian standard specifications and bear the mark.
- Supplier shall provide manufacture test certificates.

4. **Roof** :

A. **Roof Covering with PPGI Sheet (first option).**

- Roof slope shall be 1:4 approx. The height at ends shall be 2.5 and 4.0 at the end gable. The roof shall be done with 0.5 mm pre-coated, pre-coloured steel (leaf Green Colour) pre-profiled sheets confirming to IS-14246-1995 for steel components. These sheets are laid over a frame works of trusses, columns and purlins fixed using suitable fasters with washers and bitumen washers etc. a ridge cover of size 225x225x0.5mm made from pre-coloured steel sheet is to be fixed on top junctions of the roof using suitable fasteners.

B. **Roof Covering with PUF insulated panels (second option).**

- Roof covering shall be of factory finished 50 mm polyurethane (PUF) insulated panels having density 40±2 kg/cum comprising of outer sheets in .50mm total coated thickness (TCT) in leaf green color coated Galvalume, AZ 150 gsm as per AS 1397 or ASTM A 792 M and inner sheets in .50 mm TCT PPGI, 120 gsm zinc coating as per IS 277 in 240 mpa steel grade. 5-7 micron epoxy primer on both

sides of sheets and polyester top coat 15 micron with total thickness of PUF i.e. 50mm thick up to valley of the sheets. The sheet shall be fixed using self-drilling/self tapping screws of required size with EPDM seal or with polymer coated 'J' or 'L' hooks, bolts, and nuts 8mm diameter with bitumen or G.I. limpet washers or with G.I. limpet washers filled with white lead complete up to any pitch in horizontal/vertical or curve surfaces. The slope of roof shall be 1:4 approximate.

5. **Roof Projection:** The roof shall have min projection of 0.40m from the eaves wall other than verandah side and 0.30m from the end walls. Purlins will also be provided on the roof at the eaves and at the gable roof extension (outside the structure) made from RHS section of size 66x33x2.9mm conforming to IS-4923:1997 amdt. 1 with open hollow and closed with welded 4mm MS plate.
6. **Roof Structure frame work :** The roof shall be laid over a frame work of trusses, purlins and columns fixed using suitable GI fasteners, nuts and bolts, steel and bitumen washers etc. the trusses shall be made using rectangular hollow sections of size 66x33x2.9mm conforming to IS-4923:1997amdt 1. The trusses shall be provided at suitable distance of total length and shall be supported on columns made using rectangular hollow steel sections of size 96x48x3.2mm conforming to IS 4923:1997 amdt. 1, fixed with each using 10mmthick MS end plates and 10mm nuts and bolts at top level. The columns shall be welded with 10mm thick MS end plate and shall be fixed to the foundation bolts 20mm dia 1200 mm deep and size of foundation bolt should be up to P.C.C. level. The purlins shall be made using rectangular hollow steel sections of 66x33x2.9 mm conforming to IS 4923:1997 amdt. Provided on the trusses at a max. Pitch of 1m or less and are fixed and flushed with the top level of trusses with the help of 10mm thick MS plates and 10mm nut and bolts.
7. **False Ceiling:** The living shelter will be provided with 8 mm thick gypsum board PVC coated one side, fixed in hot dipped pre-coated steel section framework of size 600mmx600mm made from G.I. 'L' section of size 30mmx20mmx1.25mm thick and 'T' sections of size 30mmx35mmx0.80mm conforming to IS: 277:1992 having minimum GSM of 120gms, suspended from the roof trusses with the help of 4mm dia. GI wire.
8. **Foundation:** A suitable brick foundation will be provided with *minimum depth of 1.5 ft below N.G.L.* The plinth height shall be 2 ft above average N.G.L. The masonry foundation and plinth shall be of I-class brick work in 1:6 (1 cement: 6 coarse sand) cement mortar over 1:4:8 cement concrete base. The coarse sand used for the construction of brick masonry should be hard, sharp and angular grains. Sand shall be of standard specification clean and free from dust, dirt and organic matters. The bricks used should be of I-class of standard specification (with the satisfaction of engineer-in-charge of CUPB) made up of good brick earth thoroughly burnt, and shall be of deep cherry red or copper colour. Bricks shall be regular in shape and their edges should be sharp and shall emit clear ringing sound on being struck and shall be free from cracks, chips, flaws and lumps of any kind. The plastering should be applied on both the faces of foundation inside and outside till plinth top from N.G.L. in three coats below N.G.L. on both faces. the rendering or first coat of 10 mm, the floating or second coat of 5-6

mm and finishing coat of 5-6 mm having a total of minimum thickness of 20 mm (3/4") the finish coat shall be smooth to true even surface by float and trowel one gola is also provided with corner of wall at G.L and also paste the cement slurry after they plastering on both sides. After the concrete has been laid masonry has been constructed the remaining portion of the trench shall be filled up with earth in three layers and watered for ramming and compaction (with the satisfaction of engineer-in-charge of CUPB). Surplus earth not required, shall be removed and disposed, and site shall be levelled and dressed.

9. **Anti Termite Treatment** : Bottom will be treated at the rate of 3 ltr./sqm.of surface area and sides of excavation, top surface of filled earth, soil under plinth protection will be treated at the rate of 5 ltr./sqm.of surface area and backfill in contact with foundation at the rate of 7.5 lt.r/sqm.of vertical surface area will be treated with emulsion of chloropyriphos concentrate 20% conforming to IS-3944-78 all complete as specified including plinth protection area.
10. **DPC** : Damp Proof Course 40mm thick, in PCC 1:2:4 type B1, using 20mm graded stone aggregate with water proofing compound (Dr. Fixit etc.) (3% by the weight of cement) shall be provided over the plinth wall.
11. **Plinth Protection**: Plinth protection 750mm wide, 75mm thick PCC 1:3:6 (using 20-40mm graded crushed stone aggregate) over 40-60mm thick hard core will be provided without any extra cost.
12. **Flooring** : This shall be made using Kota Stone of size 600x600mm, 25mm thick, laid on 20mm thick CM 1:4 screed over 75mm thick PCC sub-base 1:4:8, using 20-40mm graded stone aggregate. The flooring of all rooms to be provided with appropriate slope towards door and the slope of the verandah flooring towards outside for easy drainage of water. The bathroom/toilet shall have flooring of anti-skid Ceramic Tiles of 30 cm x 30 cm of 15 mm thickness.
13. **Cement**: Ordinary cement shall be P.P.C. conforming to Is: 8112. White cement shall be white Portland cement conforming to Is: 8042. Cement shall be fresh when delivered to the site, batch no and month of mfg. will be checked and not more than six months old cement will be accepted.
14. **Curing**: All the cement works shall be cured for a minimum of 07 days after final setting time (three time in a day in summer minimum or as per requirement to satisfaction of engineer-in-charge of CUPB).
15. **Door** :
 - a. Door frame shall be provided in each room made from MS Colour Coated of size not less than 75x45x1.2mm thick suitable for double rebate shutters. The shutter for door shall be made out of 35mm thick wood flush door as per IS : 2201 (Part I) 1991. The door shutters shall be fixed with the door frame with 4 nos. hinges 100mm length. The door shall be provided with 2 no. aldrops on each sides of

300mm length, tower bolts of size 200mm at the top and 100mm at the bottom on each shutter and two nos. 150mm long handles. The wire mesh door frame shall have one horizontal member also to give strength to wire mesh. This door will be provided with door closer (after approval from the engineer-in-charge) as well in bathrooms. In bathrooms Stainless steel hinges shall be required and one looking mirror. (size of the mirror will be decided by engineer-in-charge of CUPB)

- b. PVC doors for bathrooms: (0.75mx2.1m) factory made solid panel PVC door shutter 30mm thick (style) consisting of 19mmx19mm stiles and 15mmx15mm for top and bottom rails. GPCC frame shall be covered with 5mm thick heat moulded plain color PVC 'C' channels of size 30mmx50mm forming stiles and 5mm thick 75mm wide PVC for top rail, lock rail and bottom rail on either side and 10mm (5mmx2) thick, 20mm wide cross PVC sheet strip as gap insert for top-rail and bottom rail.

Panelling of 5mm thick plain colour PVC sheet to be fitted in the GPCC frame welded/sealed to the stiles and rails with 30mm wide and 5mm thick PVC sheet beading on either side and jointed together with solvent cement. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the 'C' channel/using PVC solvent cement adhesive, supplying and fixing in the frame at site as per specification and drawing.

16. **Window:** Aluminium anodized window of size 1.2x1.2 mtr. with two sliding panels and suitable size of aluminium frame section weighing 0.55kg/m or as per relevant ISI. Two shutters shall be provided with 5mm size the sheet glass panel using aluminium 'Z' type beading with rubber gasket and shelters will be fixed with the help of rawl plug and screws/fixing clips to fill up gaps. The frame shall be provided with aluminium grill of approved pattern dia./thickness of guards bars not less than 8mm. aluminium windows shall be of make Jindal/Hindalco/Balco. The sliding window shall be wire meshed confirming to IS std. for mosquito proofing. Minimum one window for single seater.
17. **Cooler Windows :** Opening arrangement for desert cooler 60cmx60cm made by Al frame section of size 63x38x3mm thick with 3" hinges to the frame of size 38x12.7x3mm thick with locking arrangement with properly fixed 4mm thick glass pane/PVC sheet.
18. **Sunshades:** Suitable sunshades made out of CGI/PGI sheets and angle iron frame shall be provided to all external windows, cooler windows, ventilators and doors. The min projection for the sunshades shall be 450mm from the wall and 300mm wider than the opening as marked in the drawing supported over angle iron frame work and fixed on wall using GI nut/bolts.
19. **Surface finish:** The internal wall surface shall have one coat of cement primer and two coats of plastic emulsion paint. The false ceiling surface shall have two coats of Plastic Emulsion paint and all external wall panels shall have two coats of exterior acrylic paint. The steel surfaces of doors and windows also have two coats of synthetic enamel paint over one coat of red oxide primer. All wooden surfaces shall be treated with two coats of synthetic enamel paint over one coat of primer.

20. Internal Electrification:

All the items should strictly comply with the provision contained in the Indian Electricity Act and rules framed there under. The position of light fitting/fixture etc will be as per IE rule and standard engineering practices. "Loop in" system of wiring shall invariably be followed throughout the installation. Where it is absolutely necessary, junction boxes of approved make may be used. Soldered or taped joints are not permitted for jointing under any circumstances. Porcelain connector connected with metal parts of brass shall be used. Wiring shall be with PVC insulated multi-stranded copper conductor cable (un-sheathed) in casing capping and conduit pipe as indicated in schedule of internal electrification. Wiring is to be terminated in wooden switch boards for mounting fittings like switches, sockets and regulators etc, cable for lighting and power circuit shall run separately. PVC wire (colour code) of Red, Yellow, Blue for phases, and Black for neutral and green wire for earth shall be used.

- Material: the material shall comply with the following clauses mentioned against:-
 - a. Miniature Circuit Breaker: Miniature Air Circuit Breakers shall conform to IS-8828-1978 specification for miniature air circuit breakers for AC circuits for voltage not exceeding 100 volts. Make of MCBs Anchor/Havells/L&T ISI marked.
 - b. Cables, Cords and Earthing Leads:
 - Cords shall be from fresh stocks and shall be of approved make. Plate earthing should be required. Earthing lead shall consist of insulated stranded conductor.
 - The light and fans may be wired on a common circuit. Such circuit shall not have more than a total eight point of light, fan and light socket outlet or a load of 800 watts, whichever is less.
 - The power circuit shall be designed with a minimum two outlets per circuit.
 - Wherever the load to be fed is more than 1kw, it shall be controlled by an isolator switch or miniature circuit breaker.
 - Make of cables wires Anchor/Finolex/Havells.
 - c. All wiring, switches, MCBs etc upto to a single point 3 phase supply point will be in the scope of contractor.
 - d. Ceiling Rose: Ceiling rose shall be surface type and shall comply with IS-371-1979. Ceiling roses should have three terminal plates and outside diameter not less than 63.5mm. Ceiling roses shall be provided with means for gripping flexible cord which shall not damage the insulation and/or sheath of the cord and shall be such that the load on the cords not transmitted to the terminals. Make of switches and sockets Anchors/Havells.
 - e. Socket Outlets: Socket outlets, surface or flush type 5 or 15 Amp. 250 volts shall be five pin shuttered/non shuttered or interlocking type as indicated and shall comply with the following Indian Standards:-
 - IS-1293-1967 specification for pin plugs and socket outlets.

- IS-4615-1968 switch socket outlets (non interlocking type).
 - IS-4160-1967 specification for inter locking switch socket outlets.
 - Make of switches and sockets Anchor/Havells ISI marked.
- f. Lamp Holder: Lamp holder shall be metal cased type or insulated type as indicated and shall comply with IS-1258-1979 specification for bayonet lamp holders. Lamp holders shall be suitable for fixing in pendent or to bracket or angular as ordered. Make of switches and sockets Anchor/Havells.
- g. Switches/Socket: Fittings for concealed wiring/surface wiring such as socket outlet, flush type switches and the like shall be of high grade Bakelite and of ISI marked. All switches shall be placed in the live conductor of the circuit and no single pole switch or fuse shall be inserted in the earth or earthed neutral.
- h. Ceiling Fans:
- All ceiling fans shall be wired to ceiling roses or to special connector boxes and suspended from hook or shackles with insulators between hooks and suspension rods. There shall be no joints in the suspension rod.
 - Canopies on top of suspension rod shall effectively hide the suspension.
 - The lead in wire shall be of nominal cross sectional area not less than 1.50 sqmm with copper conductor and shall be protected from abrasion.
 - Unless otherwise indicated, all ceiling fans shall be hung 2.60 (Clear height b/w Fan Bottom & Finished Floor is 2.6 m) meter above the floor.
 - Make of ceiling fans Bajaj/orient/Havell/usha or approved sample from CUPB.
- i. Electrical Wiring and Fitments: Electrical points for lights and fans, 5/15 Amps sockets, electronics types fan regulators, DB boxes shall be provided as per the table. In addition main distr switch board comprising of isolator, SP/DP MCBs shall be supplied. Elect items MCB/Switches/Socket/Cables/DBs) shall be of specified as above said. Screw and Fasteners: all the screw shall be of alloy aluminium or Galvanised iron unless otherwise confirming to IS-2412-1975.
- j. CFL: CFL bulb shall be of spiral type 23 Watt cool day light, make Bajaj/Havells/Phillips.

Note: The followings will be also in the scope of contractor:

- i. Single MCBs for each room.
- ii. One main distribution board and minimum 6 distribution panel in each hostel. 4 mm wire should be used for 6 amp sockets in rooms.
- iii. Provision of minimum four geyser of 2 KW with 16 amp switch socket.
- iv. Minimum 10 tube lights in the premises of each hostel for security purpose.
- v. Sufficient lighting in internal corridor area.

21. **Chain Link Fencing:**

- a. Fixing of chain link fencing (G.I.) of 10 gauge thickness woven in 2 inch mesh size with M.S. Flat and supporting bays (at 10ft interval) of channel section 3"x1.5"x5mm thick as per enclosed drawing.
- b. Fixing of Fibre Sheet (2mm thick) as per enclosed drawings, supported on cleats and fixing by Nuts and bolts type arrangement, etc. complete all as specified, directed verbally and shown in drawing (for girls hostel).
- c. Two coat of synthetic enamel painting over one coat of red oxide priming coat on M.S. flat and channel etc, complete all as specified, directed verbally.
- d. Supporting chain link fencing vertically by M.S. Flat of 25 mm x 5mm which will be welded with channel pole.
- e. Channel should be grouted properly minimum 2ft. below the ground and placed in concrete. The contractor shall insure that the concrete mixture has been sufficiently cured after casting of 1'x1'x2'.
- f. Approximate running length for girl's hostel is expected around 150 mt. (drg. Enclosed)
- g. Type of gate: Main gate of hostels for boy's & girl's is in the scope of contractor. It can be seen at any time by visiting Central University of Punjab city Campus Location: Girl Hostel-1.

22. **Workmanship:**

- a. Connection: welded connection will be provided unless otherwise specified in the drawings. The welded connection will be conformed to IS 806-1968
 - b. Fabrication: the general provision in section 11 of IS 800 of 1984 will apply to all types of steel being used for fabrication.
 - c. All steel members will provided with 2 coats of red oxide zinc chromate primer before supply.
 - d. Various Fasteners and Fittings: GI fasteners and fittings shall be supplied unless otherwise specified in and shall be fixed where reqd. fastening means will be provided for the items to be fitted at the time of erection.
- **Finishes:** All steel work will be given two coats of red oxide zinc chromate primer by the manufacturer the factory. One liters of red oxide primer and one ltr paint of white colour per shelter will be provided in sealed containers of retouching and painting after erection.

23. **Earthing:** plate earthing should be required. Earthing with copper earth plate electrode 600mmx600mmx6.3mm thick, buried directly in ground (earth pit not less than 3.5m deep below ground level) with top edge of the plate not less than 1.5m below normal ground level connected to galvanized earth lead wire 4.0 mm dia. by means of bolts/nuts, check nuts and washes of GI, all as shown in drawing connected to earthing test point including GI pipe welded with funnel and earth pit cover all as specified.

24. **Plumbing and Sanitation:** 15mm dia GI pipe shall be used for internal water supply and 25mm dia GI pipe shall be used for external water supply and minimum size of the P.V.C. pipe is 6" (Supreme/ finlolex with 6 kg pressure) for bathrooms, toilets, washbasins and till connection of septic tank. Make of tap is Bharat/Hindustan/cera, for Seats, wash basin Cera/Hindustan with complete fitting of seat.

- Flooring : Ceramic glazed tiles (non skid) of size 1'x1' shall be provided in Bath Room over 20mm thick screed bed in cm 1:6 over 40mm thick PCC 1:2:4 over 75mm thick PCC 1:5:10 sub base over rammed earth shall be provided. Over 40mm thick PCC 1:2:4 over 100mm thick PCC 1:5:10 sub base over rammed earth.
- Septic tank: one septic tank of minimum 3.00mx2.00mx2.50m height shall be built in brick masonry 230mm thick in CM 1:4 over 100mm thick PCC 1:4:8.plastering in CM 1:4 shall be carried to internal faces of septic tanks using WPC. The cover shall be made precast RCC1:1½:3, 75mm thick and Proven of vent pipe with cowl.
- Manholes: Manholes of suitable size and Nos shall be provided up to septic tank built in one brick thick masonry in CM 1:4 covers of the man hole is Cement manhole with cemented frames laying over brick work. Manholes covers should be made from Cemocrate covers.
- Water Staging: For overhead storage tank One Angle iron staging of 3.5m ht and 2m x 2m square size with ISMC 75 iron column and bracing of angle 45x45x5mm. 3.25m thick MS top plate shall be provided of placing two water tanks 2000 ltr sintex tank each.
- Toilet Block: This should be sufficient for resident students. It will be connected to septic tank and overhead water storage tank of suitable capacity and exhaust provisions refer drawing.
- Bathrooms: Sufficient No. of bath rooms with water supply. Provision of piping for hot water supply will also be made. Bathrooms will also be provided with looking mirrors, wash basins and ventilators with exhaust fans (Minimum Three heavy duty) and wire mesh refer drawing.

25. The firm will have to give 5 years structure stability certificate and the firm will stand warranty for that.

26. **Shifting & Reinstallation:** The Manufacturer/ Dealer/ Supplier will quote his rates separately in a different envelops marked "Rates for Shifting". The shifting will include dismantling, transportation 25 kms away from the present location and reinstallation of the Porta Cabins at the new location. For this the bank guarantee to do the work on given rates will be provided by the bidder.

27. The water to be used for construction will be free from soluble salts and fit for construction. Bricks to be used will be first class as per ISI sand to be used will be of approximate 2 FM on average.

28. The bidders will bring the possible samples of material to be used for building above Hostels while coming for presentations. However, the contractor shall get the sample of

the doors, windows, wire mesh, frames, and nuts and bolts, sanitary and electrical fittings approved from the university before deciding to fix these in place.

29. The Supplier shall be bound to make free replacements of defective material within two year from the commissioning of the project and for this 5% of the total bill amount will be retained for this period.

30. Wash basins (18"/21" size) seats and other sanitary/Bath room fitting will be of (CERA/Hindustan make and will be got approved from CUPB before fixing

31. All firms will quote the rates for both the options but CUPB will have the choice for option-I or option-II rates.

IV. SOLVENCY CERTIFICATE

(On the bank's letter head)

.....**BANK**
HO**BRANCH.**

To

Date -----

**The Registrar,
Central University of Punjab,
Mansa Road, Bathinda-151001**

Sub: Capability / Solvency Certificate in respect of M/s.....

This is to certify that in our opinion and to the best of our knowledge and information available on the records of Bank as on

M/s a firm/Private Limited Co. carrying on business atwith Shri..... as a Proprietor / Partners / Directors..... is capable of undertaking contract works to the extent of Rs.....(Rupees..... only)

This certificate is issued without any guarantee or responsibility or commitment on the part of the bank or any of its Officers /employees.

For.....
..... Branch

**MANAGER / SENIOR MANAGER
BANK'S STAMP**

V. CERTIFICATE BY SUPPLIER

“It is certified that I/we have carefully read and understood the entire GCCs and SCCs of this document and agree to abide by all of these. All the information and commitments provided with the quotations are truthful and binding on the firm.

Place:

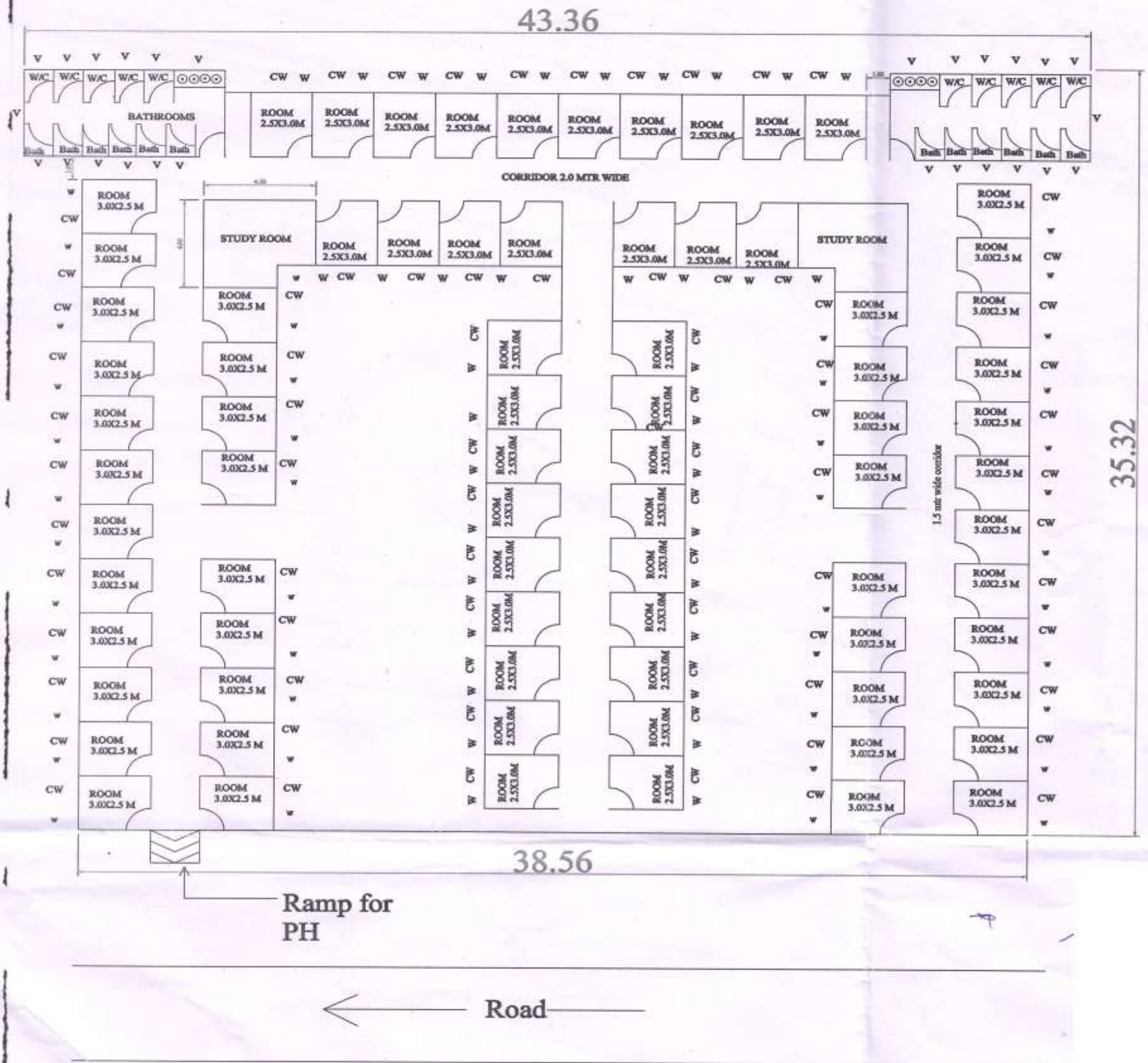
Signature of Authorized Person

Date:

Designation

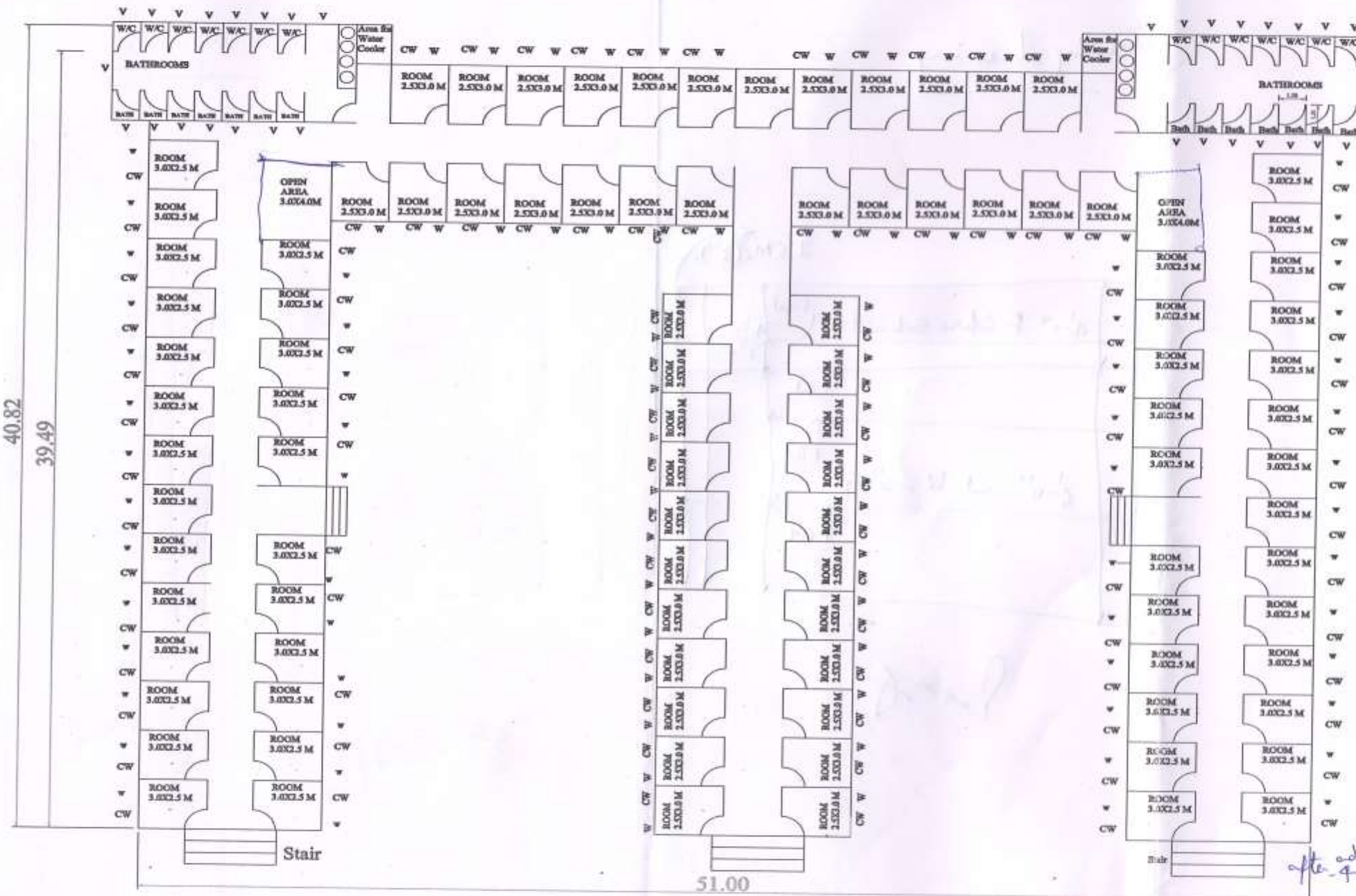
Seal

LAYOUT PLAN OF BOYS HOSTEL



Total Capacity = 77 Seater.

LAYOUT PLAN OF GIRLS HOSTEL



after addition of 4 Rows Capacity is = 121

Total Capacity = 121 students

Red Road