



**CENTRAL UNIVERSITY OF SOUTH BIHAR**  
SH-7, Gaya Panchanur Road, Vill- Karahra, Post- Fatehpur, PS- Tekari,  
Dist-Gaya (Bihar), PIN- 824236

**Tender Ref.: CUSB/PSD/EE/TENDER/23/2018-19, Dated :- 06/02/2019**

**Notice Inviting Tender**

1. Offline bids are invited from the experienced contractors who worked with C.P.W.D./ M.E.S./ Railways / State PWDs (B&R)/ CUSB/PSU/Other organization of repute in two bid system for “**Internal Aluminium partition work in School of Earth Biology & Environmental Science and School of Social Science Building**” of the University campus at Panchanpur, Gaya (Bihar).
2. Tender documents may be downloaded from University’s website [www.cusb.ac.in](http://www.cusb.ac.in) as per the schedule as given in as under.

<b>Publishing Date</b>	<b>06/02/2019</b>
<b>Bid Document Download Start Date</b>	<b>06/02/2019</b>
<b>Estimate Cost including GST</b>	<b>₹ 6,19,411.00</b>
<b>Quotation Fee</b>	<b>₹ 1,000.00</b>
<b>Completion Time</b>	<b>02 Month</b>
<b>Bid Submission start date</b>	<b>14/02/2019 ( 02:00 PM )</b>
<b>Pre Bid Meeting</b>	<b>14/02/2019 by 02:00 P.M at CUSB, Panchanpur, Gaya</b>
<b>Bid Submission end date</b>	<b>26/02/2019 ( 3:30PM )</b>
<b>Bid Opening date</b>	<b>26/02/2019 ( 04:00 PM )</b>
<b>Earnest Money Deposit</b>	<b>Earnest money as mentioned in Tender Notice in shape of DD drawn in favour of Central University of South Bihar, payable at Gaya from any schedule Bank.</b>

3. Bids shall be submitted in sealed envelope in Tender Box placed at the Purchase & Store Section, Upper Ground Floor, Administrative Building of CUSB, Panchanpur, Gaya, Bihar.
4. Not more than one tender shall be submitted by one contractor or contractors having business relationship. Under no circumstance will father and his son(s) or other close relations who have business relationship with one another (i.e. when one or more partner(s)/director(s) are common) be allowed to tender for the same contract as separate competitors. A breach of this condition will render the tenders of both parties liable to rejection.

**Seal & Signature of Contractor**

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## 1. Instructions to Bidders:

1. Price bid undertaking form along with SOQ/BOQ should be duly filled in and the same should be submitted along with the tender in separate envelope-II duly sealed and signed texting: Price bid, REF. No., name of work, envelope-II, detail of tenderer etc.
2. The bidder should provide self-attested Photo copies of all the documents serial 1 to 2 of Eligibility Criteria in separate envelope-I duly sealed and signed texting: Technical bid, REF. No., name of work, envelope-I detail of tenderer etc.
3. Both envelopes as stated above shall be put in to a big envelope texting: Technical bid, REF. No., name of work, detail of tenderer etc. and same should be dropped in to tender box kept in the Purchase & Store Section, Upper Ground Floor, Administrative Building of CUSB, Panchanpur, Gaya, Bihar.
4. Any query related to tender may be asked through email on email id: [registrar@cub.ac.in](mailto:registrar@cub.ac.in); [so1@cub.ac.in](mailto:so1@cub.ac.in) or in person before **02:00 PM on 14/02/2019**. No query shall be entertained after above date.
5. Price should not be written anywhere else in bidding document except in envelope-II, if found the bid shall be rejected.
6. **Payment terms** : 95% after completion of work & 5 % after expiry of defect liability period which is six month from the date of completion of work. Payment can also be made in Running Account Bills subject to satisfaction of officer-in-charge.
7. As the University is in developing stage quantities of SOQ/BOQ may vary up to any extent upward or downward up to the tune of 100 % to the individual items & also up to 50 % of the total awarded value upward or downward with required revision in scope by the University. Contractor shall be bound to execute the work as per agreed rate, terms and conditions.
8. Earnest Money Deposit in form of Bank Draft for an amount of **Rs 15,000/- (Rupees Fifteen Thousands only)** drawn in favour of the **Central University of South Bihar** payable at Gaya.
9. The cost of tender form is Rs. 1,000/-.(Rs. One Thousand Only) which is to be deposited in the form of form DD, in favor of from Central University of South Bihar. The tender forms downloaded from the University website must be accompanied by DD of Rs. 1,000/-.(Rupees One Thousand Only) in favour of Central University of South Bihar, payable at Gaya.

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## **2. Eligibility Requirements:-**

1. The bidder / contractor should have Experience in executing work with CPWD/ MES/ Railways/ State PWDs (B&R)/Central Universities/PSU/ Other organization of repute in carrying out similar nature of work.
2. The bidder should have the following documents:
  - a. PAN Number
  - b. TIN Number/ GST Registration
  - c. Power of attorney /Authority letter in case person other than the bidder has signed the tender documents.
  - d. Undertaking stating that the bidder /contractor has not been black listed from any authorities as per Annexure-B.

### **PRICE BID (To be provided in sealed envelope-II)**

- (a) Price bid undertaking- Annexure -'A'
- (b) Schedule of price bid in the form of SOQ (Schedule of Quantity)/BOQ (Bill of Quantity) – Annexure -'C'
- (c) Technical Specification- Annexure-'D'

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<b>Technical Specification</b>			
<b>Name of Work :- “Internal Aluminium partition work in School of Earth Biology &amp; Environmental Science and School of Social Science Building” of the University campus, at Panchanpur, Gaya (Bihar).</b>			
<b>Sl. No.</b>	<b>DSR-2016 Item No./NSI</b>	<b>Item Description</b>	<b>Unit</b>
1	21.13	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	each
2	21.19	Filling the gap in between aluminium/ stone/ wood frame and adjacent RCC/ Brick/ Stone/ wood/ Ceramic/ Gypsum work by providing weather/structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete, complying to ASTM C920, DIN 18540-F & ISO 11600	
2.1	21.19.1	Upto 5 mm depth and 5 mm width	metre
3	21.15	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete.	
3.1	21.15.1	Anodized (AC 15) aluminium	No.
4	21.16	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-in-charge	
4.1	21.16.1	Anodized (AC 15 ) aluminium	each
5	9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight up to 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	each
6	7059	Providing and fixing Aluminium hanging floor door stopper with twin rubber & stopper with SS screws etc. complete as per direction of Engineer-in-charge	each
7	701	Providing and fixing Anodised Aluminium tower bolt (barrel type) 150x10 mm with SS screws etc. complete as per direction of Engineer-in-charge	each
8	704	Providing and fixing Anodized Aluminium handles 100 mm with plate 150 x 32 mm with SS screws etc. complete as per direction of Engineer-in-charge	each
9	7306	Anodizing 15 microns on Aluminium Angle cleat sections (1.5"x 1").	Kg.
10	0589	Chromium plated Brass screws 20 mm (19 x 8, Pan head )	No.
11	0589	Chromium plated Brass screws 20 mm (19 x 6, Pan head )	No.
12	7390	Neoprene/ EPDM gasket in groove of meeting style in door shutter panel.	metre
13	7390	Supply of Neoprene/EPDM rubber gasket (3/4") for glazing panel	metre
14	8210	Supply of Stainless steel screws 50 mm (01 Pkt. = 100 No.)	Pkt.
15	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item): as per directions of Engineer-in-charge.	

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a.	21.3.1	With float glass panes of 4.0 mm thickness ( If required (+ -)10% )	Sqm.
16	NSI	Anodising 15 microns on Aluminium snap beading section on both side. (Tapper clip_12'-0" long)	No.
17	NSI	Supply of Stainless steel screws 100 mm long (01 Pkt. = 100 No.)	Pkt.
18	NSI	Supply of Stainless steel screws 75 x 10 mm (01 Pkt. = 100 No.)	Pkt.
19	NSI	Supply of Plastic concrete Anchors 50 mm long. (01 Pkt. = 100 No.)	Pkt.
20	NSI	Supply of Plastic concrete Anchors 38 mm long. (01 Pkt. = 100 No.)	Pkt.
21	Non DSR	Labour work of (Old stock material) internal aluminium Partition up to ceiling height for fixed portion wall and doors, partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia. and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber / neoprene gasket etc. Alumin. Sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge.	
a.	NSI	For Fixed Portion Partition	Sqm.
b.	NSI	For Door & Window Portion Partition	Sqm.
22	Non DSR	Collecting, Removing, Carry and sifting & Lifting Charges of old stock aluminium Partition materials and etc. from stock yard to construction side. Leading up to 500-1000m distance.	Sqm.

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**PRICE BID UNDERTAKING**

From: (Full name and address of the Bidder) \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

To,

Dear Sir/ Madam,

1. I submit the Price Bid for \_\_\_\_\_ and related activities as envisaged in the Bid document.
2. I have thoroughly examined and understood all the terms and conditions as contained in the Bid document, and agree to abide by them.
3. I offer to work at the rates as indicated in the price Bid, Annexure-'C' inclusive of all applicable taxes.
4. I am/we are not blacklisted in any authorities/ Departments.

Yours Faithfully,

**Seal & Signature of Contractor**

## AFFIDAVIT/UNDERTAKING

(On Non-judicial stamp paper or on letter head)

1. I, the undersigned, do hereby certify that all the statements made in the required Attachments are true and correct.
2. The undersigned also hereby certifies that neither our firm M/S -----  
\_\_\_\_\_ have abandoned any work nor any contract Awarded to us for such works have been rescinded, during last three years prior to the date of this bid.
3. The undersigned hereby authorize and request any bank, person, firm or Corporation to furnish pertinent information deemed necessary and requested by the Central University of South Bihar, to verify this statement or regarding my (our) competence and general reputation.
4. The undersigned understand and agrees that further qualifying information may be requested, and agrees to furnish any such information at the request of the Central University of South Bihar.
5. The undersigned understand the terms of tender and hereby undertake to deploy only competent personals who have valid license to work under scope and full responsibility shall be with us.

\_\_\_\_\_  
**(Signed by an Authorized Officer of the Firm)**

\_\_\_\_\_  
Title of Officer

\_\_\_\_\_  
Name of Firm

\_\_\_\_\_  
Date

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Schedule of Quantity (SOQ)						
Price Bid						
Name of Work :- “Internal Aluminium partition work in School of Earth Biology & Environmental Science and School of Social Science Building” of the University Campus at Panchanpur, Gaya (Bihar).						
REF.NO. CUSB/EE/CIVIL/W/08/2018-19, dated 25.01.2019						
Sl. No.	DSR-2016 Item No./NSI	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	21.13	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	each	21		
2	21.19	Filling the gap in between aluminium/ stone/ wood frame and adjacent RCC/ Brick/ Stone/ wood/ Ceramic/ Gypsum work by providing weather/structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete, complying to ASTM C920, DIN 18540-F & ISO 11600				
2.1	21.19.1	Upto 5 mm depth and 5 mm width.	metre	100		
3	21.15	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete.				
3.1	21.15.1	Anodized (AC 15) aluminium.	No.	50		
4	21.16	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-in-charge.				
4.1	21.16.1	Anodized (AC 15) aluminium	each	21		
5	9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight up to 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	each	21		
6	7059	Providing and fixing Aluminium hanging floor door stopper with twin rubber & stopper with SS screws etc. complete as per direction of Engineer-in-charge.	each	17		
7	701	Providing and fixing Anodised Aluminium tower bolt (barrel type) 150x10 mm with SS screws etc. complete as per direction of Engineer-in-charge.	each	17		
8	704	Providing and fixing Anodised Aluminium handles 100 mm with plate 150 x 32 mm with SS screws etc. complete as per direction of Engineer-in-charge.	each	17		
9	7306	Anodising 15 microns on Aluminium Angle cleat sections (1.5"x 1").	Kg.	60		
10	0589	Chromium plated Brass screws 20 mm (19 x 8, Pan head )	No.	3000		

Sl. No.	DSR-2016 Item No./NSI	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
11	0589	Chromium plated Brass screws 20 mm (19 x 6, Pan head ).	No.	1000		
12	7390	Neoprene/ EPDM gasket in groove of meeting style in door shutter panel.	metre	109		
13	7390	Supply of Neoprene/EPDM rubber gasket (3/4") for glazing panel.	metre	2550		
14	8210	Supply of Stainless steel screws 50 mm (01 Pkt. = 100 No.).	Pkt.	02		
15	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): as per directions of Engineer-in-charge.				
a.	21.3.1	With float glass panes of 4.0 mm thickness ( If required (+ -)10% ).	Sqm.	50		
16	NSI	Anodising 15 microns on Aluminium snap beading section on both side. (Tapper clip_12'-0" long).	No.	1061		
17	NSI	Supply of Stainless steel screws 100 mm long (01 Pkt. = 100 No.).	Pkt.	01		
18	NSI	Supply of Stainless steel screws 75 x 10 mm (01 Pkt. = 100 No.)	Pkt.	02		
19	NSI	Supply of Plastic concrete Anchors 50 mm long. (01 Pkt. = 100 No.)	Pkt.	02		
20	NSI	Supply of Plastic concrete Anchors 38 mm long. (01 Pkt. = 100 No.)	Pkt.	02		
21	Non DSR	Labour work of (Old stock material) internal aluminium Partition up to ceiling height for fixed portion wall and doors, partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia. and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber / neoprene gasket etc. Alumin. Sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge.				

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Sl. No.	DSR-2016 Item	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
a.	NSI	For Fixed Portion Partition	Sqm.	300		
b.	NSI	For Door & Window Portion Partition	Sqm.	35		
22	Non DSR	Collecting, Removing, Carry and sifting & Lifting Charges of old stock aluminium Partition materials and etc. from stock yard to construction side. Leading up to 500-1000m distance.	Sqm.	335		
			Total (A) =			
					GST amount on (A), if applicable =(B)	
					Total Quoted amount= (C.)= (A)+(B)	

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## **Scope of Work**

1. Carriage of available Aluminium partition materials from stock yard to construction site.
2. Cutting, fixing of various members including fixing of hardware, fitting etc.
3. Supplying and fixing of bought out items as per BOQ/SOQ.
4. Fixing of doors and windows in partition.
5. Filling the gap in between Aluminium frame and adjacent finished RCC/ Brick wall.
6. Cleaning the site and handing over the surplus materials in stock yard.

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## **CONDITIONS**

**Name of Work: “Internal Aluminium partition work in School of Earth Biology & Environmental Science and School of Social Science Building” of the University Campus at Panchanpur, Gaya, (Bihar)**

1. All Fitting, Hardware, etc. shall be of locally available best Quality.
2. All materials to be used on the work shall be of reputed makes/ ISI marked, as per the sample approved by the Engineer In charge.
3. Time allowed for the work starts from the next day of issuance of order and the work will be completed within 02 month.
4. Construction water and electricity required for the work shall be available at site and provided free of cost at one source. The university shall deduct 1% of the Bill value towards above.
5. All taxes as applicable shall be deducted from the bills of contractors.
6. The contractor will have to get samples of the all fitting items, EPDM rubber / neoprene gasket etc. approved by the officer-in-charge or his representative in writing before using them of the work.
7. The contractors can see the site of work before quoting their rates.
8. Before tendering/quotationing, the Bidder shall visit the site and satisfy himself as to the local conditions, the accessibility of the site of full extent and implication of the operation, the nature of the ground and supply conditions affecting labour and execution of the contract. No claim on these issues will be entertained.
9. Inconvenience of Public: The Contractor shall not deposit materials on any site which will cause inconvenience to the public. The contractor may require to remove any materials which are considered to be dangerous or inconvenient to the public or cause them to be removed, at the contractor's cost as per direction of officer-in-charge. Works must be executed as per prevailing rules norms and guidelines of all statutory authorities.
10. The work shall be carried out as per latest CPWD specifications with relevant IS codes for works at Gaya, with up to date correction slips unless otherwise specified in the nomenclature of the individual item of work.

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11. In case of error in description of any DSR/NSI item given in the attached schedule, the description given in the CPWD schedule of rates 2016 shall be final & no claim on account of error shall be entertained.
12. All existing services and will be kept by contractor in good order. Any damage to lawns, services, existing structure etc. during execution of work will have to be made good by the contractor at his own cost.
13. The contractor will co-operate with the other agencies working at the site/or in the surrounding area.
14. The successful contractor or his representative should be made available at work site execution every day during the execution of the work who will receive day to day instructions from the officer-in-charge or his representative.
15. The contractor has to make his own arrangement of T&P required for execution of the work and no claim will be admissible on this account.
16. If applicable, the contractor shall obtain a valid license under the Contract Labour (R & A ) Act, 1970 and the Contract Labour (Regulation and Abolition) Central Rules, 1971, before the commencement of the work and continue to have a valid license until the completion of the work. The contractor shall also abide by the provisions of the Child Labour (Prohibition and Regulation) Act, 1986. The contractor shall also comply with the provisions of the building and the other construction workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996. Any failure to fulfill these requirements shall attract the penal provisions of this contract arising out of the resultant non-execution of the work. No labour below the age of fourteen years shall be employed on the work.
17. Before commencement of the work, the contractor shall submit completion programme of the assigned work so as to inform the officer-in-charge of the University in advance. The work shall be executed without inconvenience to the beneficiaries.
18. In case the work site is not made available to the contractor according the programme, no claim will be admissible on this account.

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19. The contractor shall have to get the site of work cleared during execution and / or on completion of work as per directions and to the satisfaction of officer-in-charge.
20. Variation in excess of the work shall not be allowed without prior approval of the competent authority. It shall be the responsibility of the contractor to ensure that cost of the work is not increased beyond the award value.
21. The tender / quotation shall remain open for acceptance of the period of 15 days from the date of opening of tenders. If any Bidder withdraws his tender before the said period or makes any modification in the terms and conditions of the tender which are not acceptable to the University, then the University without prejudice to any right or remedy be at liberty to forfeit the earnest money, if applicable.
22. Conditional tenders/ quotations will not be accepted and will be rejected Outright.
23. The acceptance of the tender / quotation will be the university authorities who do not bind themselves to accept the lowest tender. The University authorities reserve the right to reject any or all the tenders without assigning any reason.
24. The work is to be executed as per layout given by the Engineer -in-charge and the contractor shall restrict the work accordingly.
25. If the contract has not carried out the work as per the CPWD manual no claim of payment is acceptable by the University authority.
26. At the time of billing the contractor will have to submit an Affidavit \ undertaking regarding payment of labour has been done after the completion of work.
27. The Contractor shall be fully responsible for the safe custody and proper storage of material at site to the satisfactions of the officer-in-Charge for which nothing extra will be paid.
28. The rate should be quoted after visiting the site, otherwise it will assumed that rates are quoted after visiting the site.
29. The rates should inclusive of all taxes, Loyalties etc. if any. GST, if applicable shall be reimbursed separately.

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30. All material and workmanship required under scope shall be as per best engineering practices and in commensurate with available material at stockyard. If deemed essential, the University reserve right to get the material tested in any Government approved Laboratory. The University shall bear cost of such testing and contractor shall arrange specimen for testing without any extra cost.

**Registrar**

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## **Performance Guarantee**

1. The contractor shall submit an irrevocable PERFORMANCE BANK GUARANTEE of 10% (Ten percent) of the tendered amount calculated in term, in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and without prejudice to any other provision in the contract) within 15 days of issue of letter of intent. This period can be further extended by the Vice Chancellor upto a maximum period of 7 days on written request of the contractor stating the reason for delays in procuring the Bank Guarantee, to the satisfaction. **This Performance Bank Guarantee will remain valid & deposited with Central University of South Bihar till the defect liability period plus sixty days of the work is over.** This guarantee shall be in the form of Government Security or fixed deposit receipts/Guarantee Bonds issued by National Bank, in accordance with and as per prescribed format. In case a fixed deposit receipt of any Bank is furnished by the contractor to the as part of the Performance Bank Guarantee and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Central University of South Bihar, to make good the deficit.
  
2. A letter of intent shall be issued in the first instance informing the successful tenderer of the decision of the competent authority to accept his tender and the award letter shall be issued only after the Performance Bank Guarantee in the prescribed form is received. In case of failure by the contractor to furnish the Performance Bank Guarantee within the specified period, the Central University of South Bihar, shall without prejudice to any right or remedy available in law, be at liberty to forfeit the earnest money absolutely.
  
3. The Performance Bank Guarantee shall be initially valid for three months. In case the time for completion of supply and Installation gets enlarged, the contractor shall get the validity of Performance Bank Guarantee extended to cover such enlarged time for completion of work. After recording of the completion certificate for supply and Installation by the competent authority and acceptance of Supply and Installation by the Expert Committee, whichever is later, the Performance Bank Guarantee shall be returned to the contractor without any interest.

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4. The Central University of South Bihar shall not make a claim under the Performance Bank Guarantee except for amounts to which the Central University of South Bihar is entitled under the contract (notwithstanding and without prejudice to any other provisions in the contract agreement) in the event of :-
  - (a) Failure by the contractor to extend the validity of the Performance Bank Guarantee as described herein above, in which event the Central University of South Bihar, may claim the full amount of the Performance Bank Guarantee.
  - (b) Failure by the contractor to pay the Central University of South Bihar, any amount due, either as agreed by the contractor or determined under any of the Clauses/Condition of the agreement, within 30 days of the service of notice to this effect by the Central University of South Bihar.
5. In the event of the contract being determined or rescinded under provision of any of the clause/condition of the agreement, the Performance Bank Guarantee shall stand forfeited in full and shall be absolutely at the disposal of the Central University of South Bihar.

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**Drawing of School of Social Science Building**

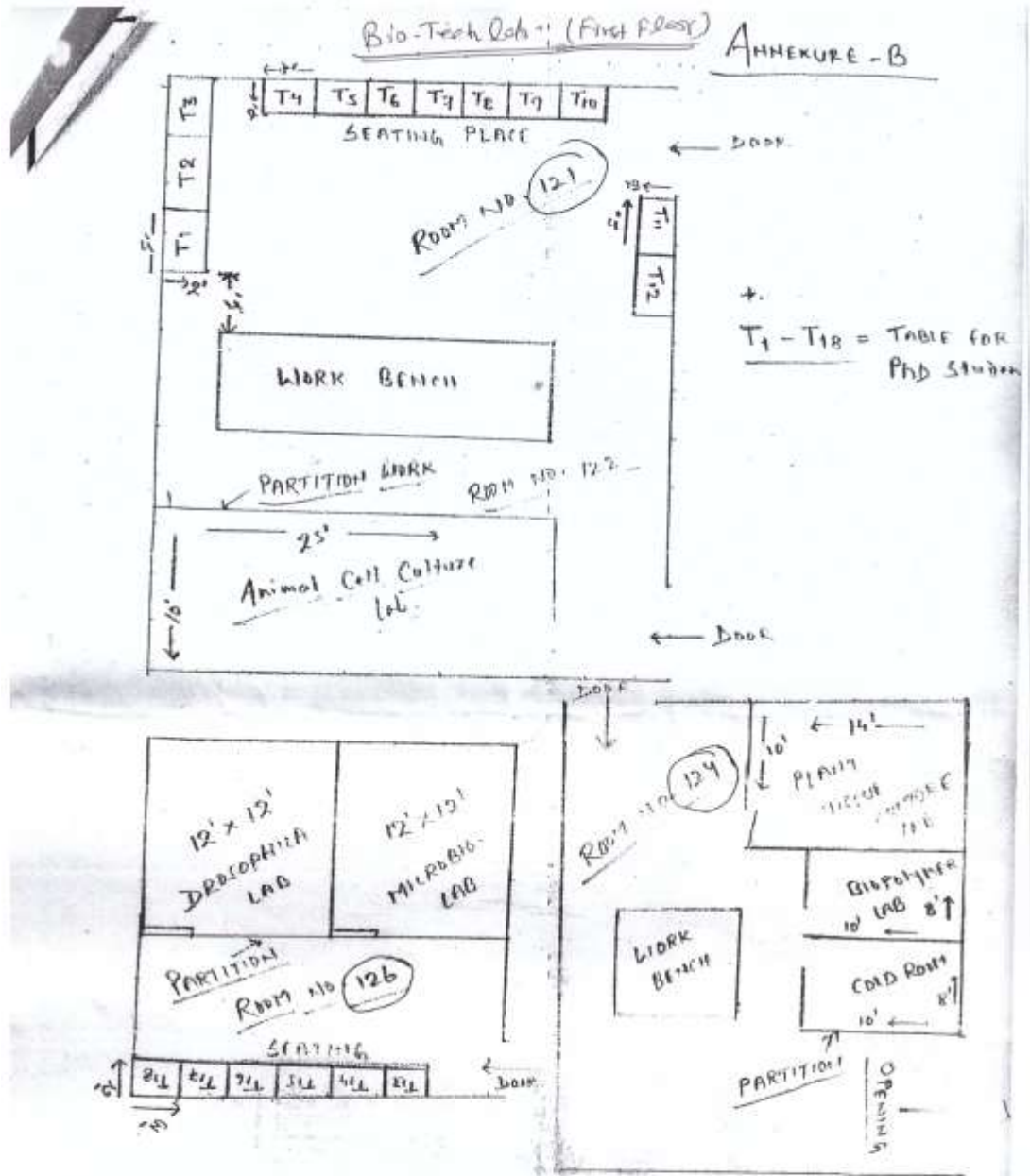
HEALTH CENTRE (Room No.-107)

Social Science Building (Ground Floor)



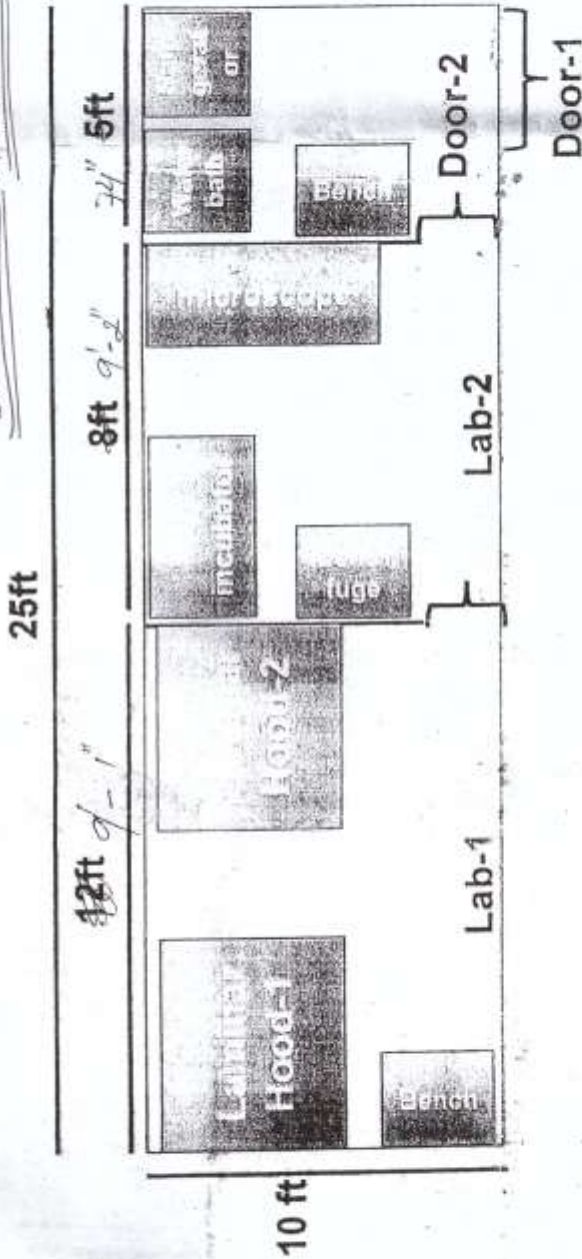


**Drawing of Biotechnology Lab**



# Animal Cell culture laboratory (layout)

Bio-Tech Lab, 3<sup>rd</sup> Floor



25 ft=762cm=300'=12.5 tiles (each 2 ft)  
 10 ft=304.8cm=120'=5 tiles (each 2 ft)

## Laminar flow hood Dimensions (L x W x H)

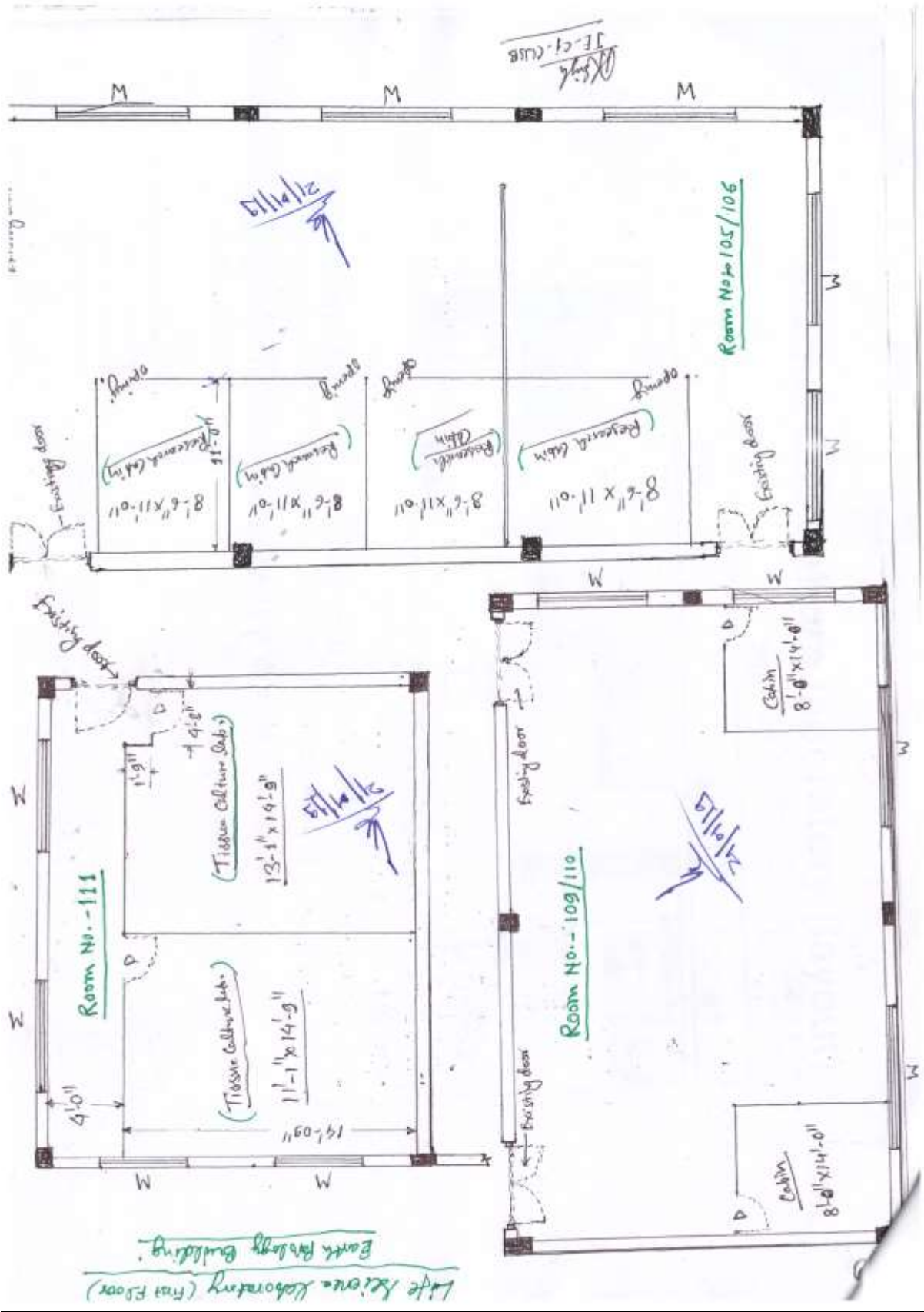
31.5 x 51.2 x 61.8 in. (80 x 130 x 156.8cm)= 2.62 ft x 4.2ft x 5.14 ft)

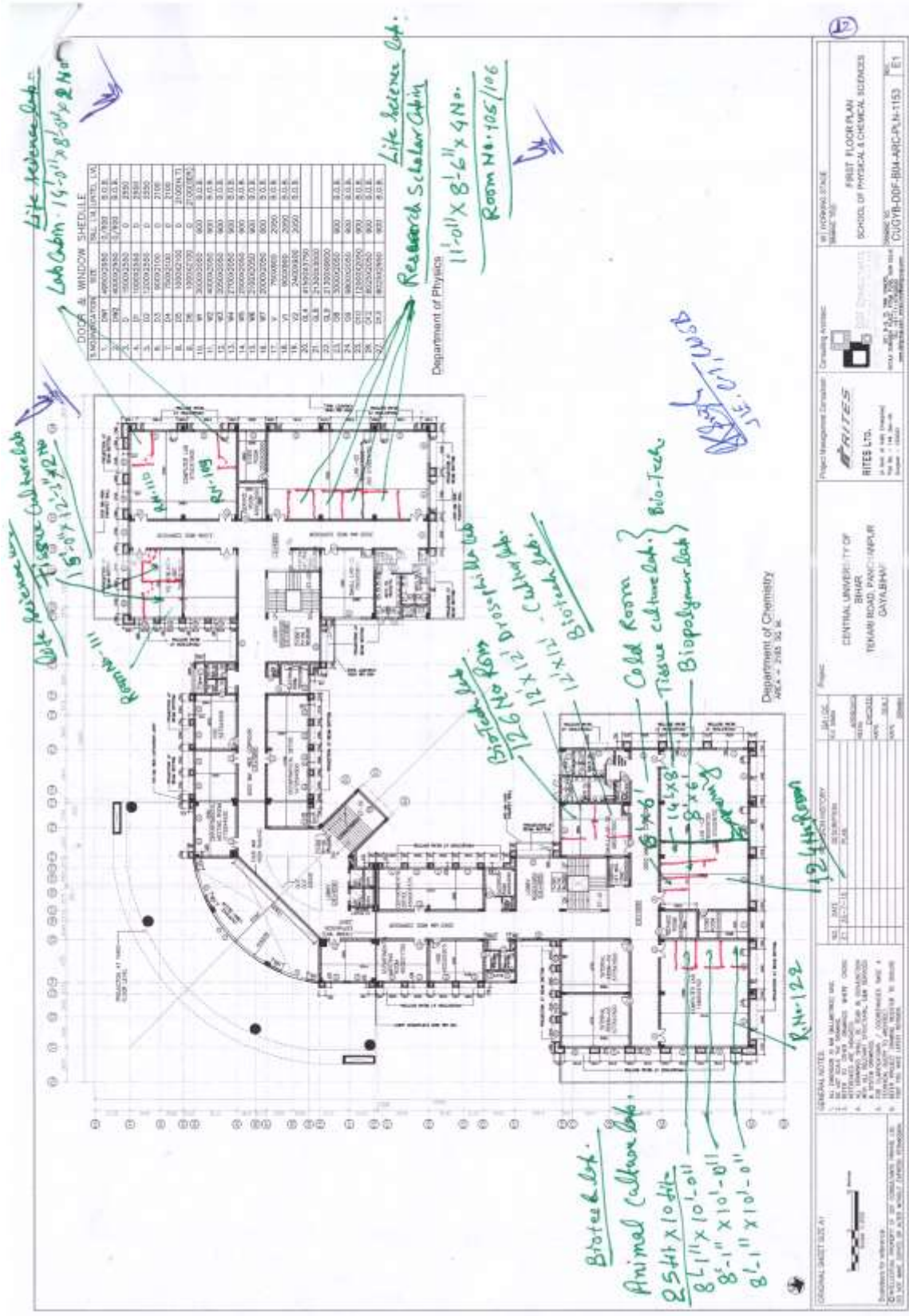
## Other requirements:

- AC in all Labs
- 24 hr Power supply
- 16 mAmp power sockets at the indicates place of instruments

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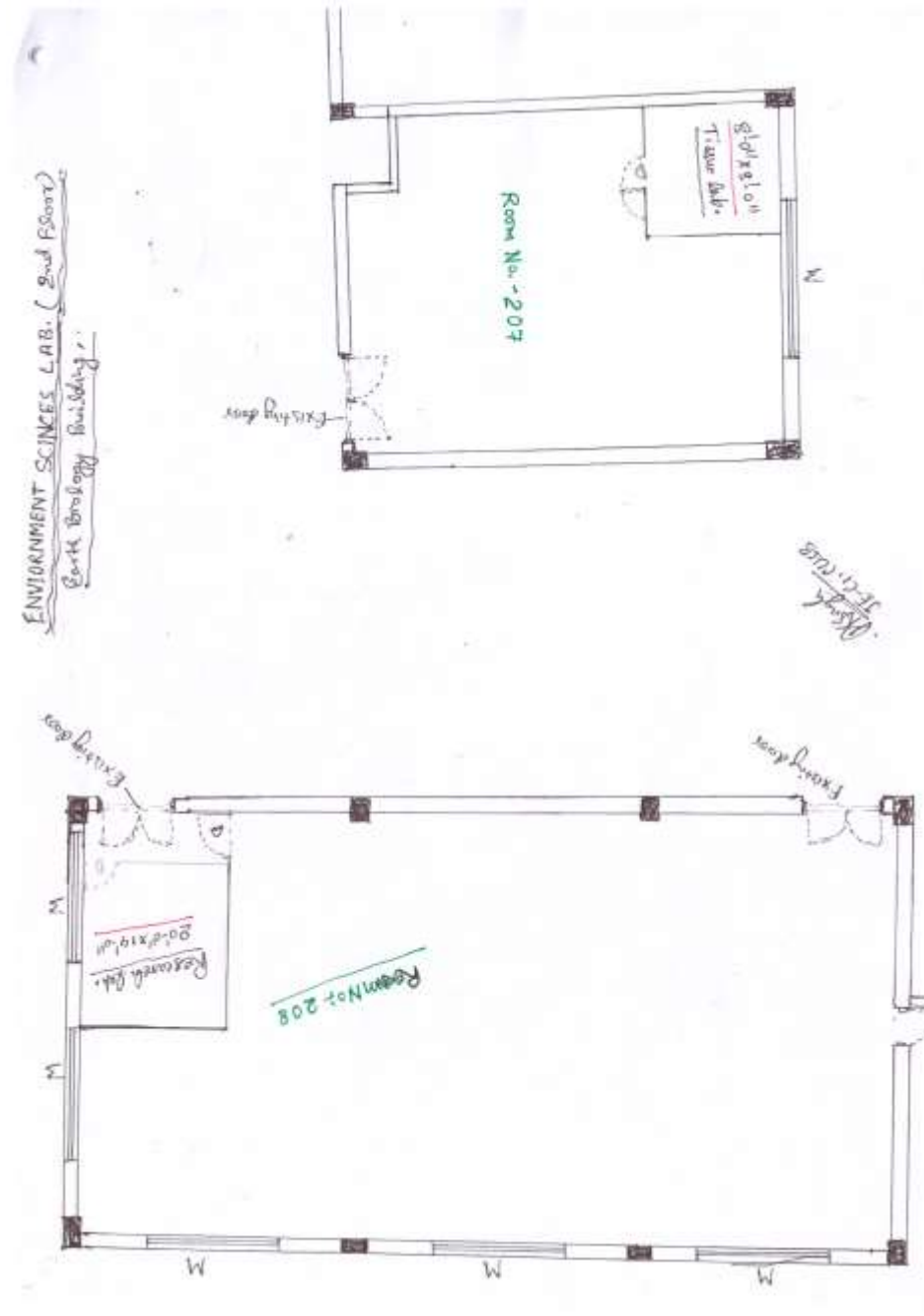
Drawing of Life Science Laboratory

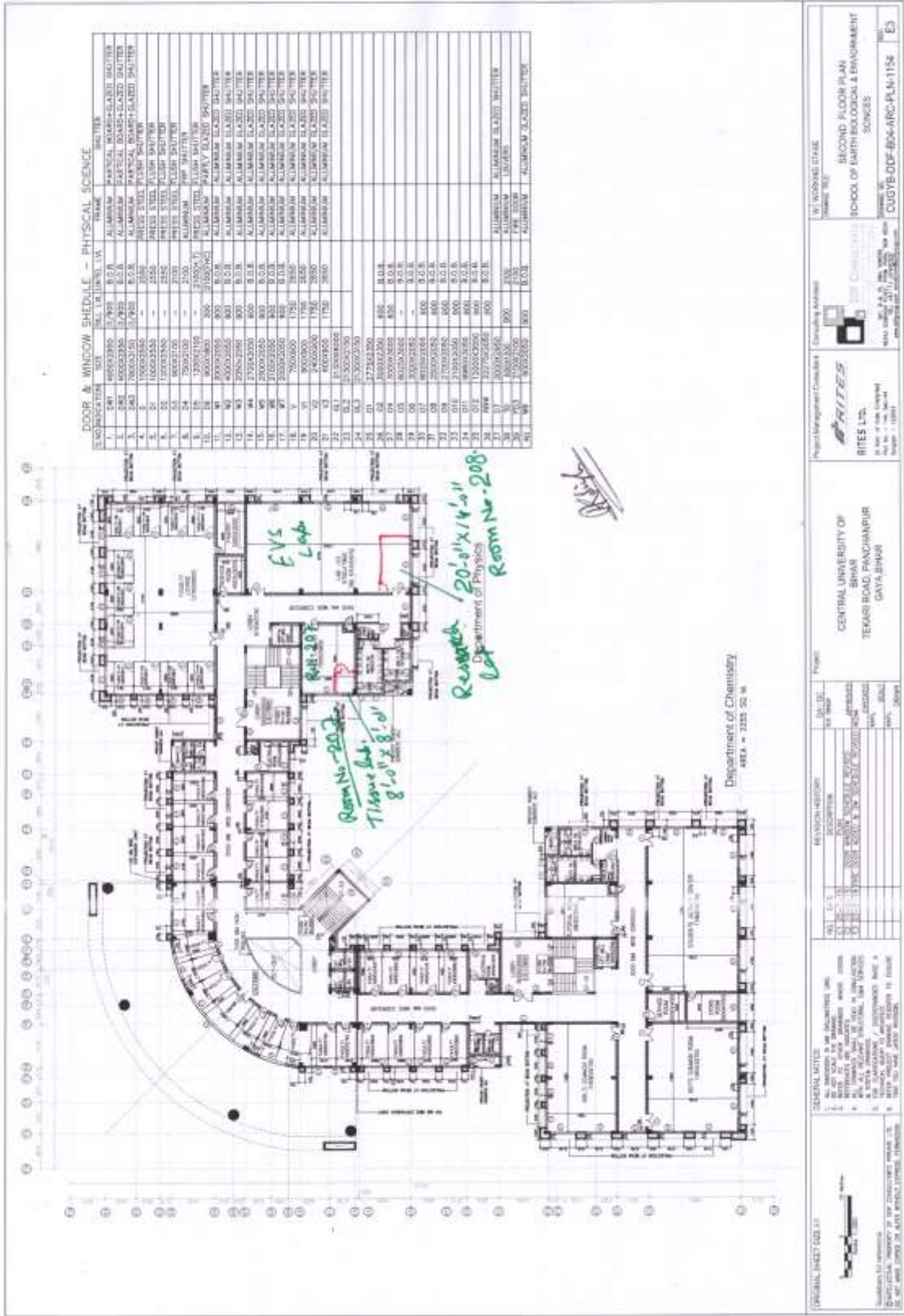






Drawing of Environmental Science Lab





DOOR & WINDOW SCHEDULE - PHYSICAL SCIENCE

NO.	DESCRIPTION	SIZE	MATERIAL	UNIT	QTY	REMARKS
1	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
2	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
3	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
4	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
5	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
6	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
7	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
8	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
9	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
10	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
11	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
12	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
13	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
14	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
15	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
16	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
17	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
18	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
19	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
20	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
21	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
22	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
23	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
24	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
25	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
26	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
27	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
28	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
29	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
30	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
31	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
32	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
33	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
34	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
35	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
36	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
37	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
38	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
39	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
40	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
41	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
42	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
43	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
44	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
45	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
46	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
47	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
48	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
49	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
50	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
51	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
52	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
53	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
54	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
55	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
56	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
57	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
58	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
59	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
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61	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
62	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
63	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
64	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
65	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
66	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
67	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
68	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
69	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
70	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
71	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
72	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
73	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
74	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
75	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
76	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
77	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
78	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
79	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
80	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
81	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
82	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
83	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
84	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
85	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
86	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
87	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
88	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
89	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
90	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
91	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
92	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
93	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
94	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
95	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
96	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
97	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM
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100	DOOR	3'0" x 7'0"	ALUMINIUM	DOOR	1	ALUMINIUM

*[Handwritten Signature]*

Department of Chemistry  
AREA = 2225 SQ. M.

**GENERAL NOTES**

- As indicated in the accompanying drawings.
- Work to be done in accordance with the specifications.
- Work to be done in accordance with the drawings and specifications.
- Work to be done in accordance with the drawings and specifications.
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**REVISIONS**

NO.	DATE	DESCRIPTION
1	10/10/2020	ISSUED FOR TENDER
2	10/10/2020	ISSUED FOR TENDER
3	10/10/2020	ISSUED FOR TENDER
4	10/10/2020	ISSUED FOR TENDER
5	10/10/2020	ISSUED FOR TENDER
6	10/10/2020	ISSUED FOR TENDER
7	10/10/2020	ISSUED FOR TENDER
8	10/10/2020	ISSUED FOR TENDER
9	10/10/2020	ISSUED FOR TENDER
10	10/10/2020	ISSUED FOR TENDER

**PROJECT INFORMATION**

Project Management Consultant: **RITES**  
RITES LTD.,  
1st Floor, 10th Cross, 10th Main, 10th Stage, 10th Mile, 10th Block, 10th Sector, 10th Phase, 10th Colony, 10th Locality, 10th Area, 10th Zone, 10th Region, 10th State, 10th Country, 10th World.

**CLIENT INFORMATION**

CENTRAL UNIVERSITY OF BIHAR  
TEKARI ROAD, PANCHANPUR  
GAYA, BIHAR

**WORKING DRAWING**

SECOND FLOOR PLAN  
SCHOOL OF EARTH BIOLOGICAL & ENVIRONMENTAL SCIENCES  
CUGYB-DCF-B04-ARC-PLN-1154  
ES