



OFFICE OF THE REGISTRAR

মহাপুরুষ শ্রীমন্ত শঙ্কৰদেৱ বিশ্ববিদ্যালয়

MAHAPURUSHA SRIMANTA SANKARADEVA VISWAVIDYALAYA

[Recognised Under Section 2(f) of UGC Act, 1956]

Srimanta Sankaradeva Sangha Complex, Haladhar Bhuyan Path,
Kalongpar, Nagaon, PIN-782001, Assam, India

Ref. No.: MSSV/R/51/2015/

Dated: 18.05.2023

Notice Inviting Quotation

SL. No	Name of work and item of work	Estimated cost	Cost of Bid	Period of Completion	Last date & time of quotation submission	Time & date of opening of quotation
1	Construction of Academic Building, (Block-I), at Mahapurusha Srimanta Sankaradeva Viswavidyalaya, Kalongpar, Nagaon, Assam.	2,00,00,000/-	Rs.5000 /-	06 Months	24.05.2023	25.05.2023

Note: The contractor submitting the tender should read the schedule of quantities, additional conditions, additional specifications, particular specifications and other terms and conditions given in the NIT and drawings.

1) Contractors who fulfill the following requirements shall be eligible to apply. Joint ventures are not accepted:

a) Should have evidence of annual financial turnover of Rs. 200.00 Lacs construction works during the last three years ending 31-03-2023.

b) Should not have incurred any loss in more than two years during the last five years ending 31-03-2023.

c) Should have valid registration with EPF/ ESIC / GST authority.

2. The intending bidder must read the terms and conditions carefully. He should submit his bid only if he considers himself eligible and he is in possession of all the documents required.

3. Entire work under the scope of composite tender including major and all minor components shall be executed under one agreement.

4. The tenderer has to associate agency(s) for minor component(s) confirming to eligibility criteria as defined in the tender document and has to submit detail of such agency(s) to the Registrar of minor component(s) within prescribed time. Name of

the agency(s) to be associated shall be approved by Registrar of minor component(s)

5. The tenderer has to enter into agreement with the contractor(s) associated by him for execution of minor component(s). Copy of such agreement shall be submitted to E in-charge of minor component as well as to E in-charge of major component. In case of change of associate

contractor, the main contractor has to enter into agreement with the new contractor associated by him.

6. The bid document consisting of the schedule of quantity, terms and condition, i/c plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen in the office of the Registrar between hours of 9:00 AM and 5:00 PM from date of publicity of tender to date of submission of tender every day except on Saturday, Sunday and public holidays or can be seen and downloaded from website www.mssv.ac.in

7. If a tenderer does not quote any percentage above/below on the total amount of the tender or any section/sub head in the percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

8. The Construction Committee reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.

9. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.

10. a) Earnest Money in the form of Demand Draft or Pay order or Bankers Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour of the Registrar, Mahapurusha Srimanta Sankaradeva Viswavidyalaya, Nagaon by the bidder within the period of bid submission. A part of earnest money (EM) is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 lacs, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any scheduled bank having validity for four months or more from the last date of receipt of bids which also is to be scanned and uploaded by the intending bidders. The original EMD should be deposited in hardcopy in the office of Registrar, MSSV, Kalongpar, Nagaon along with the mentioned documents.

b) Tender Document Processing fee – Rs. 2000/- shall be paid to the Registrar, MSSV, Kalongpar, Nagaon

11. Copy (original/self-certified) of all the scanned documents as specified in bid document shall have to be submitted by the all bidders, physically in the office of tender opening authority.

12. The bid submitted shall become invalid and Tender processing fee shall not be refunded if:

(i) The bidder is found ineligible.

(ii) The bidder does not deposit original EMD to the Registrar, MSSV, Kalongpar, Nagaon.

(iii) If any discrepancy is noticed at the time of submission of bid and hard copies as submitted physically by the bidder in the office of bid opening authority.

(v) If a bidder does not quote any percentage above/below on the total amount of the tender or any section/sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

13. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation. They may require and in general shall themselves obtain all necessary information as to risks,

contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra cost consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidders implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the authority and local conditions and other factors having a bearing on the execution of the work.

14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.

15. List of Documents to be scanned and uploaded within the period of bid submission:

- i. Enlistment Order of the Contractor in appropriate class of composite category.
- ii. Treasury Challan/ demand Draft/ Pay Order or Banker's Cheque / Deposit at call Receipt / Bank Guarantee of any scheduled Bank against EMD (All drawn in favour of the Registrar, MSSV, Kalongpar, Nagaon.)
- iii. Photocopy/scan copy of original EMD.
- iv. Certificate of Incorporation.
- v. Proof of Tender document processing fee.
- vi. Certificates of Work Experience.
- vii. Certificate of Financial Turnover from CA.
- viii. Certificate of Registration of GST.
- ix. Any other Document as required.

16. Certificate of Financial Turnover: At the time of submission of bid, contractor may submit Affidavit / Certificate form CA mentioning Financial Turnover of last 5 years or for the period as specified in the bid document and further details if required may be asked from the contractor after opening of technical bids. There is no need of entire voluminous balance sheet.

17. Contractor must ensure to quote percentage rate separately for civil works in words and figures in column meant for quoting rate in the estimated cost appears in yellow. In addition to this, while selecting any of the cells a warning appears that if cell is left blank the same shall be treated as —0—.

18. The pre-qualification bid shall be opened first on due date and time as mentioned above. The time and date of opening of financial bid of contractors qualifying the technical bid shall be communicated to them at a later date.

19. If any Information furnished by the applicant is found incorrect at a later stage, he shall be liable to be debarred from tendering for future work. The Institute reserves the right to verify the particulars furnished by the applicant independently.



Registrar,
MSSV, Nagaon

SECTION I

BRIEF PARTICULARS OF THE WORK:

1. Salient details of the work for which bids are invited are as under:

General features/scope of the work is as under: The scope covers construction of Academic Building at Mahapurusha Srimanta Sankaradeva Viswavidyalaya Atuatika, Raidongia, Nagaon (Ground floor). There are one block to be constructed and have attached toilet block with it. The walls are of Red brick wall, plaster, floor finish, Architectural design at external wall, door window frame and shutter, RCC lift and lintel and has water supply and sanitary installation and electrification work.

Above details and status are only indicative but not exhaustive. The intending bidder shall inspect the site and fully acquaint with nature and quantum of work and site condition and assess/satisfy himself before quoting and submission of his bid. He is also advised to inspect the indicative drawings attached with this tender document to acquaint with other details about the building.

Conditions related to site restrictions and/or site facilities available for the work:-

1. The contractor shall have to make his own arrangement of water. No charges shall be recovered if the contractor develops tube well at site and pump in arrangement at his own cost. The contractor shall have to seek permission of digging tube well etc. for water arrangements from Engineer-in-charge.

2. Temporary electrical connection (single / three phase) shall be provided by the Institute from its distribution network and the charges shall be realized at the prevalent commercial tariff of the institute, presently recovery rate on the basis of actual consumption thro' a separate sub-meter under the control of the Engineer-in-charge. If the rates are revised in future the same shall be applicable to the contractor. The contractor at his own cost shall arrange the cable for service connection and the sub meter.

3. Justified quantum of space within the site location, free of cost, may be provided for the infrastructure facilities like batching plant, material stock yard, site office etc. However, labour hutments shall not be allowed inside the campus.

4. Under normal circumstances, the working hours for labour are 08:00 AM to 05:00 PM. For working beyond 05:00 PM or prior to 08:00 AM, the contractor has to apply to the security personals along with the name of labours. Permission may be granted for the extended hours.

5. The barricading shall be provided at all necessary locations as per general safety norms requirements of the site.

SECTION II

INFORMATION & INSTRUCTIONS FOR BIDDERS

1.0 General:

1.1 All information called for in the enclosed forms should be furnished against the relevant columns in the forms. If for any reason, information is furnished on a separate sheet, this fact should be mentioned against the relevant column. Even if no information is to be provided in a column, a —null or —no such case entry should be made in that column. If any particulars/query is not applicable in case of the bidder, it should be stated as —not applicable. The bidders are cautioned that not giving complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms or deliberately suppressing the information may result in the bid being summarily disqualified. Bids made by telegram or telex and those received late will not be entertained.

1.2 The bid should be type-written /computer printed. The tenderer (s) should sign each page of the application.

1.3 Overwriting should be avoided. Correction, if any, should be made by neatly crossing out, initialing, dating and rewriting.

2.0 Final decision making authority. The Institute reserves the right to accept or reject any bid and to annul the process and reject all bids at any time, without assigning any reason or incurring any liability to the bidders.

3.0 Site visit The bidder is advised to visit the site of work, at his own cost, and examine it and its surroundings to collect all information that he considers necessary for proper assessment of the prospective assignment.

3.1 The bidder should have sufficient number of Technical & Administrative employees for proper execution of the contract. The bidder shall have to submit a list of these employees stating clearly how these would be involved in this work within 15 days of award of work.

4.0 Award criteria

4.1 The Institute reserves the right, without being liable for any damages or obligation to inform the bidder, to:

- (a) Amend the scope and value of contract to the bidder.
- (b) Reject any or all the applications without assigning any reason.

Percentage Rate Composite Tender & Contract for Works

(A) Tender for the work of :Construction of Academic Building at Mahapurusha Srimanta Sankaradeva Viswavidyalaya Kalonpar, Nagaon , Assam

TENDER

I/We have read and examined the notice inviting tender, schedule, Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, particular specification, Schedule of Rates& other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the Construction of Administrative Building at Mahapurusha Srimanta Sankaradeva Viswavidyalaya Atuatika, Raidongia, Nagaon, Assam within the time specified in section-I., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred of General Rules and Directions and of the Conditions of contract and with such materials as are provided for, by, and in respect of accordance with, such conditions so far as applicable.

We agree to keep the tender open for ninety (90) days from the due date of its Eligibility bid opening and not make any modification in its terms and conditions.

A sum of Rs 3,93,150/- is hereby forwarded in deposit at call receipt of a scheduled bank/fixed deposit receipt of scheduled bank/demand draft of a scheduled bank/bank guarantee issued by a scheduled bank as earnest money. If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said the Registrar, MSSV, Nagaon or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that the the Registrar, MSSV, Nagaon or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision of the tender form. Further, I/We agree that in case of forfeiture of Earnest Money & Performance Guarantee as aforesaid. I/We shall be debarred for participation in the re-tendering process of the work.

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice, then I/we shall be debarred for tendering in construction of MSSV,Nagaon, Assam in future forever. Also, if such a violation comes to the notice before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

I/We hereby declare that I/We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived there from to any person other than a person to whom I/We am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated:

Signature of Contractor

Witness:

Postal Address

Address:

ACCEPTANCE

The above tender (as modified by you / as provided in the letters mentioned here under) is accepted by me for and on behalf of the Registrar, MSSV, Kalongpar, Nagaon for a sum of Rs..... (Rupees
.....
.....
.....)

The letters referred to below shall form part of this contract agreement:-

- (a)
- (b)
- (c)

For & on behalf of the Registrar,
MSSV, Kalongpar, Nagaon

Signature.....

Dated: Designation

PROFORMA OF SCHEDULES

(Composite Tender –Major Component-[Civil])

SCHEDULE 'A'
Schedule of quantities

Refer Part- —Bl.

SCHEDULE 'B'

(I) Estimated cost of work	Total Estimated Rs. 2,00,00,000 /-Comprising of Civil works for Ground floor, internal water supply and sanitary installations, internal and external electrification works
(II) Earnest Money	Rs. 3,93,150/-
(ii) Performance Guarantee	5% of tendered value
(iii) Security Deposit	5% of tendered value

SCHEDULE 'C'

GENERAL RULES & DIRECTIONS:

Officer Inviting tender	Registrar, Mahapurusha Srimanta Sankaradeva Viswavidyalaya, Kalongpar, Nagaon
Engineer-in-Charge	Project Engineer
Accepting Authority	Registrar, Mahapurusha Srimanta Sankaradeva Viswavidyalaya, Kalongpar, Nagaon
Percentage on cost of materials and Labour to cover all overheads and profits	15%
Number of days from the date of issue of letter of acceptance for reckoning date of start	15days

Time allowed for execution of work	06 Months
Authority to decide:	
(i) Extension of time	Registrar, Mahapurusha Srimanta Sankaradeva Viswavidyalaya, Kalongpar, Nagaon
(ii) Rescheduling of milestones	Registrar, Mahapurusha Srimanta Sankaradeva Viswavidyalaya, Kalongpar, Nagaon
(iii) Shifting of date of start in case of delay in handing over of site	Registrar, Mahapurusha Srimanta Sankaradeva Viswavidyalaya, Kalongpar, Nagaon
Clause 1:	
Gross work to be done together with net payment /adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment	Rs. 40 Lakhs (Rupees Forty Lakhs only) or as mutually agreed by both the parties
Clause 1A: Whether Clause 1 shall be applicable Running Account bill shall be paid for the work	Yes

List of testing equipment to be provided by the contractor at site lab.	As per Annexure 1
List of mandatory machinery, tools & plants to be deployed by the contractor at site:-	As per Annexure 2

ANNEXURE-1

LIST OF TESTING EQUIPMENTS TO BE PROVIDED BY THE CONTRACTOR AT SITE LAB:

1. Balances
 - a. 7 Kg to 10 kg capacity, semi-self indicating type- Accuracy 10 gm
 - b. 500 gm capacities, semi-self indicating type- Accuracy 1 gm
 - c. Pan balance- 5kg capacity- Accuracy 10 gms
2. Ovens- electronically operated, thermostatically controlled upto 110oC to 10C.
3. Sieves as per IS 460-1962.
 - i.IS sieves - 450mm internal dia, of sizes 100mm, 80mm, 63mm, 50mm, 40mm, 25mm, 12.5mm, 10mm, 6.3mm and 4.75mm complete with lid and pan.
 - ii.IS sieves - 200mm internal dia(brass frame), consisting of 2.36mm, 1.18mm, 600 microns, 425 microns, 212 microns, 90 microns, 75 microns with lid and pan.
4. Sieve shaker capable of 200mm and 300 mm dia sieves, manually operated with timing switch assembly.
5. Equipment for slump test-slump cone, steel plate, tamping rod, steel scale, scoop.
6. Dial gauges, 25mm travel- 0.01mm/division least count-2 nos.
7. 100 tonnes compression testing machine, electrical cum manually operated along with one hundred cube moulds of 15x15x15 cm size.
8. Ultrasonic Pulse Velocity Test Equipment (For concrete) - 1 No.
9. Graduated measuring cylinders 200 ml capacity – 3 Nos.
10. Enamel trays (for efflorescence test of bricks)
 - i. 300 mm x 250 mm x 40 mm – 2 Nos.
 - ii. Circular plates of 250mm dia 4 Nos.
11. Steel tapes-3m and 10m, hammer 100 gms.
12. Vernier calipers
13. Micrometer screw 25mm gauge.
14. A good quality plumb bob.
15. Spirit level, minimum 30cms long with 3 bubbles for horizontal vertical.
16. Wire gauge (circular type) disc.
17. Foot rule
18. Long Nylon thread
19. Rebound hammer for testing concrete
20. Magnifying glass.
21. Screw driver 30cms long
22. Ball pin hammer, 100 gms
23. Plastic bags for taking samples.
24. Earth resistance tests
25. Megger
26. Compaction Apparatus (Proctor) as per IS 2720-Part VII-1974
27. Modified ASHO compaction Apparatus as per IS 2720-Part III-1974
28. Sand pouring cylinder with control pouring and tube complete as per IS 2720-Part XXVIII1974

ANNEXURE – 2

List of machinery, Tools and plants to be deployed by the contractor at site:

Sl. No	Activity	Name of equipment	Number
1	Concrete work	a) Fully automatic concrete batching plant of minimum capacity 18 Cum/ hr (this is optional as per tender conditions)	1Nos
		b) Transit Mixer for concrete	1Nos
		c) Plate vibrator, screed leveller	4Nos
		d) Needle vibrator	4Nos
		e) Tray	10Nos.
		f) Belsa	10Nos.
2	Building	a) Bar cutting machine	1Nos
		b) Bar bending machine	1Nos
		c) Welding machine	1Nos
		d) Cube testing machine	1Nos
		e) Tractor with trolley	1Nos
Any other machinery required for completion of the work as per actual site requirement			

Contractor is advised to deploy the required Plant and machinery on the project. The number of plant and machinery to be deployed by him is indicated. In case the contractor fails to deploy the plant and machinery whenever required and as per the direction of the Engineer-in-charge, he (Engineer-in-charge) shall be at a liberty to get the same deployed at the risk and cost of the contractor.

MATERIAL AND QUALITY ASSURANCE

1. The contractor shall ensure quality control measures on different aspects of construction including materials, workmanship and correct construction methodologies to be adopted. He shall have to submit quality assurance programme within two weeks of the award of work. The quality assurance programme should include method statement for various items of work to be executed along with check lists to enforce quality control.

2. The contractor shall get the source of all materials, approved from the Engineer-in-Charge. The contractor shall stick to the approved source unless it is absolutely unavoidable. Any change shall be done with the prior approval of the Engineer-in-Charge for which tests etc. shall be done by the contractor at his own cost. Similarly, the contractor shall submit brand/ make of various materials not specified in the agreement, to be used for the approval of the Engineer-in-Charge along with samples and once the sample is approved, he shall adhere to the approved sample.

3. Materials having manufacturer's test report/certificate can be sent for testing to any external laboratories by the engineer in charge for ascertaining the quality of products. The contractor shall provide free of charge all the materials required for such testing, including transportation and other logistical support. Unless specifically specified otherwise, the testing charge for such materials having manufacturer's test report shall be borne by the engineer in charge if the test passes and shall be borne by the contractor if the test fails.

4. Sample of building materials fittings and other articles required for execution of work shall be got approved from the Engineer-in-Charge. Articles manufactured by companies of repute and approved by the Engineer-in-Charge shall only be used. Articles bearing BIS certification mark shall be used. In case the above are not available, the quality of samples brought by the contractor shall be judged by standards laid down in the relevant specifications. All materials and articles brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work.

5. The contractor shall ensure quality construction in a planned and time bound manner.

6.All materials brought by the contractor for use in the work shall be got checked from the Engineer-in-Charge or his authorized representative of the work on receipt of the same at site before use.

7.The Stone aggregate/stone, sand shall be brought from any quarries subjected to the said materials confirm PWD specifications.

8.The day to day receipt and issue accounts of different grade/brand of cement shall be maintained separately in the standard proforma decided by the Engineer-in-Charge or his authorised representative of work and which shall be duly signed by the contractor or his authorised representative.

9.Separate cement registers showing the receipt of the OPC and PPC shall be maintained at site. The contractor shall construct separate godowns for storage of OPC & PPC at site and nothing extra on this account shall be payable.

Maintenance of Registers:

1.All the registers for tests of material to be carried out at construction site or in outside laboratories shall be maintained by the contractor. These register shall be issued to the contractor by Engineer-in-Charge.

2.The test registers to be issued to the contractor are :

- a) Materials at site account register.
- b) Cement register.
- c) Cube test register.
- d) Any other test register as required.
- e) Submission of copy of all test registers, material at site register along with each running account bill and final bill shall be mandatory. The contractor shall submit all these registers alongwith the final bill to the Engineer-in-charge.

General Terms and Conditions:

1. The order of preference in case of any discrepancy may be read as the following:

- i) Nomenclature of items as per schedule of quantities.
- ii) Particular specification and special condition, if any.
- iii) APWD specifications.
- iv) Indian standard specifications of B.I.S.
- v) Drawings for the work

The contractor shall maintain in perfect condition, all portions executed till completion of the entire work allotted to him

2. Defects Liability Period (DLP)

2.1 Defects liability period shall be taken as thirty six (36) months from the date of completion of the work for building as a whole, wherein all the defects shall be rectified by the contractor at his own cost.

2.2 Defects of serious nature causing inconvenience such as leakage, reverse floor slopes affecting the drainage (ponding of water), warping and opening of joints in doors and window shutters etc shall be undertaken by the contractor immediately on receipt of the complaint but not exceeding one week time, failing which the defects will be got removed at his risk and cost plus 25% as supervision and establishment charges.

2.3 All other defects notified to the contractor during the DLP shall be rectified to the entire satisfaction of Engineer-in-Charge or item replaced as soon as possible but not later than one month in any case. Failure to do so in a reasonable period the Engineer-in-Charge shall get it done at his cost plus 25% as supervision and establishment charges after final notice of 10 days. The decision of Engineer-in-Charge regarding a defect being of serious nature or otherwise shall be final and binding.

The scope of the defect liability will be as under:

S.No	Description	Defect Liability
	Concrete work	(a) Rectification of structural /superficial/non-structural cracks. (b) Rectification of dampness/leakages/seepage in roof slab/junctions & sunken portion, depressed portion, through RCC slab, vertical ties, bands, walls, base slab, junction of RCC walls with base slab and construction joints of RCC water tanks. (c) Rectification of cracks in girders, beam, slab, column, lintels, vertical ties, plinth bands, lintel bands etc
	Brick work	(a) Rectification of cracks in confined masonry panel wall/partition wall in full length or in part portion. (b) Cracks / settlement of main wall, partition wall or dwarf walls. (c) Rectification of efflorescence, dampness.
	Steel & iron work	(a) Redoing of defective portion in fabrication / welding including painting thereon. (b) Structural steel work and SS railing.
	Finishing work	(a) Rectification of structural / superficial cracks. (b) Rectification of protruding / peeling off plaster. (c) Rectification of efflorescence, dampness appeared. (d) Undulation / unevenness in plaster. (e) Paint & polishing.
	Flooring work	(a) Rectification of sunken / deflected / depressed portion of plinth protection, flooring in rooms, toilets, entrance foyer, staircase and other locations. (b) Rectification / Replacement of settled floors. (c) Settlement of foundation & floors and resultant undulation of door finishes.

Note: The above list is illustrative for civil work and not exhaustive. The rectification will include all Civil works including internal and external services without any exclusion.

2.4. Release of Security Deposit: 25% security deposit will be released after expiry of 12 months from the date of completion of work on satisfactory performance during defect liability period, next 25% of the security deposit will be released after expiry of 24 months from the date of completion of work on satisfactory performance during defect liability period and remaining 50% of the security deposit will be released after expiry of 36 months from the date of completion of work on satisfactory performance during defect liability period.

Safety measures:

1. The contractor shall have to provide the safety jackets (reflective), safety shoes, safety helmets (ISI mark) and safety belt (double harness clip type locking arrangement) to the workers as under the general obligations under contract, no separate payment on this account shall be made
- 2.
3. The contractor shall take instructions from the Engineer-in-charge for stacking of materials. No excavated earth or building materials etc. shall be stacked/collected in areas where other buildings, roads, services, compound walls etc. are to be constructed.
4. No payment shall be made to the contractor for any damage caused by rain, snowfall, floods, earthquake or any other natural causes whatsoever during execution of work. The damages of the work will be made good by the contractor at his own cost and no claim on this account shall be entertained.

SPECIAL CONDITIONS FOR CEMENT AND STEEL BROUGHT BY THE CONTRACTOR:

CEMENT:

1. The contractor shall procure Portland Pozzolana Cement conforming to IS: 1489 (Part-I) as required in the work, from reputed manufacturers having a production capacity not less than one million tons per annum. The tenderers may also submit a list of names of cement manufacturers which they propose to use in the work. The tender accepting authority reserves right to accept or reject name(s) of cement manufacturer(s) which the tenderer proposes to use in the work. No change in the tendered rates will be accepted if the tender accepting authority does not accept the list of cement manufacturers, given by the tenderer, fully or partially.

Supply of cement shall be taken in 50 kg bags or bulk container bearing manufacturer's name and ISI marking. The bulk supply of cement shall be accompanied by the manufacturer's certificates giving full details (brand, type, grade and specification along with the requisite test certificate, copy of relevant IS specifications). Samples of cement arranged by the contractor shall be taken by the Engineer-in-Charge and got tested in accordance with provisions of relevant BIS codes. In case test results indicate that the cement arranged by the contractor does not conform to the relevant BIS codes, the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-in-Charge to do so. Every fresh cement batch should be brought to site at least 30 days before they are to be used / consumed in the work.

2. In case the cement consumption is less than theoretical consumption including permissible variation, recovery at rate so prescribed shall be made. In case of excess consumption no adjustment shall be made.

3. Cement brought to site and cement remaining unused after completion of work shall not be removed from site without written permission of the Engineer-in-charge.

4. Damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in writing from the Engineer-in-charge. If he does not do so within 3 days of receipt of such notice, the Engineer-in-charge shall get it removed at the risk and cost of the contractor.

5. Cement register for the cement shall be maintained at site.

STEEL

The Contractor shall procure IS marked TMT bars of various grades from the steel manufacturer or their authorized dealers (as per following selection criteria) having valid BIS license for IS 1786-2008 (Amendment -1 November 2012). Such TMT bars shall be as per the preferred make list of this tender document or should be amongst the preferred makes (part of this tender document).

The procured steel should have following qualities:-

- i. Excellent ductility, bend ability and elongation of finished product due to possible refining technology.
- ii. Construction of steel should be accurate as per design.
- iii. Steel should have no brittleness problem in finished product.
- iv. Steel should carry the quality of corrosion and earthquake resistance.
- v. Quality steel with achievement of proper level of sulphur and phosphorus as per IS :1786200b)

The contractor shall have to obtain and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work. The contractor shall supply free of charge the steel reinforcement required for testing including its transportation to testing laboratories.

LIST OF DRAWINGS

The following drawings listed and placed in the bid documents are indicative only. The work shall be executed as per drawings which shall be issued during course of execution. These drawings explain the general concept involved in the project only. These drawings shall undergo changes during course of execution, as work shall be executed as per drawings. It is made clear that changes made in the tender drawings shall be incorporated and subsequent in the work within the quoted rate and nothing extra shall be payable for such changes.

S.No	Description	Drg. No.
	Architectural Drawings	
1	Ground Floor Plan	IDF/AD/002
2.	Front Elevation	IDF/AD/008
3	Sectional elevation	IDF/AD/007
4	Typical window details section and elevation	IDF/AD/0018
5	Schedule of doors, windows & floor finish	IDF/AD/005
6	Septic tank	IDF/AD-23
7	Details of water supply pipeline	IDF/AD-23A
8	Layout & Details of common toilet block	IDF/AD-20-21
9	Electrical layout plan	IDF/ED/001
10	Electrical single line diagram	IDF/ED/002
11	Main single line diagram and earthing details	GIA/DIA/002

The bill of quantity for civil work is uploaded separately



(Dr. M. K. Borah)
Registrar

DETAIL ESTIMATE OF CIVIL,SANITARY,EXTERNAL AND INTERNAL ELECTRIFICATION WORKS OF								
PROPOSED ACADEMIC BUILDING, BLOCK-I, PHASE-II								
OF MAHAPURUSHA SRIMANTA SANKARADEVA VISWAVIDYALAYA								
AT ATUATIKA, RAIDONGIA,NAGAON, ASSAM								
CIVIL WORKS : GROUND FLOOR								
SI.No.	DSR No.	Description of works	Unit	Qty.	Rate as per DSR	Amount	Quoted Rate	Amount
4.0 CONCRETE WORK								
1	4.4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :						
	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	69.17	Rs.6,833.40	Rs.472,666.28		
5.0 REINFORCED CEMENT CONCRETE WORK								
2	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :						
	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	45.09	Rs.10,185.05	Rs.459,217.42		
FORM WORKS								
3	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	351.59	Rs.608.35	Rs.213,889.78		
4	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	140.39	Rs.766.55	Rs.107,615.95		
STEEL REINFORCEMENT								
5	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.						

	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more	Kg	9065.41	Rs.89.65	Rs.812,714.21		
6.0 MASONRY WORK								
6	6.2	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in:						
	6.2.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	136.57	Rs.5,746.80	Rs.784,818.93		
7	6.4.	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :						
	6.4.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	62.82	Rs.8,512.10	Rs.534,710.12		
EXPOSED BRICK WALL								
8	6.38	Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.	Cum	90.18	Rs.8,890.80	Rs.801,756.79		
DOOR WINDOW CHOWKATH AND SHUTTER								
9	NS	Providing, fitting and fixing Natural Fibre Thermosets composites Factory made Fire Retardant, U. V. Resistance, weather Proof Bamboo-Jute Composite DUROSAM® make Grooved Frame of Section 75mm x 50mm with single rabbet, material including preparing of Surface & Finished with approved Quality Primer.	Rm	456.40	Rs.1,448.00	Rs.660,867.20		

10	NS	Providing, fitting and fixing Natural Fibre Thermosets composites Factory made Fire Retardant, U. V. Resistance, weather Proof Bamboo-Jute Composite DUROSAM® make Solid Frame of Section 75mm x 50mm with single/double rabbet, material including preparing of Surface & Finished with approved Quality Primer.	Rm	213.20	Rs.1,860.00	Rs.396,552.00		
11	NS	Providing, fitting and fixing Natural Fibre Thermosets composites Factory made Fire Retardant, U. V. Resistance, weather Proof Bamboo Jute Composite DUROSAM® make Grooved Frame of Section 100mm x 60mm with Single/Double rabbet, material including preparing of Surface & Finished with approved Quality Primer.	Rm	339.40	Rs.2,127.00	Rs.721,903.80		
12	NS	Providing, fitting and fixing Natural Fibre Thermosets composites Factory made Fire Retardant, U. V. Resistance, weather Proof Bamboo Jute Composite DUROSAM® make Solid Frame of Section 100mm x 60mm with Double rabbet, material including preparing of Surface & Finished with approved Quality Primer.	Rm	85.00	Rs.2,536.00	Rs.215,560.00		

16	10.15	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.						
	10.15.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Kg	1503.06	Rs.146.6	Rs.220,273.44		
	13.00	13.0 FINISHING						
		CEMENT PLASTER (IN FINE SAND)						
17	13.1	12 mm cement plaster of mix :						
	13.1.1	1:4 (1 cement: 4 fine sand)	Sqm	1330.00	Rs.294.85	Rs.392,150.50		
	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:						
18	13.5.1	1:4 (1 cement: 4 coarse sand)	Sqm	1971.48	Rs.354.50	Rs.698,887.89		
	13.6	20 mm cement plaster of mix :						
19	13.6.1	1:4 (1 cement: 4 coarse sand)	Sqm	1322.10	Rs.421.40	Rs.557,134.63		
		PAINTING WORK						
20	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	4623.58	Rs.214.30	Rs.990,832.98		
21	13.43	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :						
	13.43.1	Water thinnable cement primer	Sqm	4623.58	Rs.64.45	Rs.297,989.67		
		Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :						
22		Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	Sqm	4623.58	Rs.158.95	Rs.734,917.88		
23	13.57	Painting with oil type wood preservative of approved brand and manufacture :						

	13.57.1	New work (two or more coats)	Sqm	900.44	Rs.47.10	Rs.42,410.58		
	13.5	Applying priming coat:						
24	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	Sqm	159.90	Rs.55.50	Rs.8,874.45		
	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :						
25	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	Sqm	159.90	Rs.140.05	Rs.22,394.00		
		11. TILE WORK						
26		Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.						
		Double charge vitrified tile polished finish of size						
	1.41A.1.1	Size of Tile 600 x 1200 mm	Sqm	1079.62	Rs.1,407.05	Rs.1,519,079.32		

27		Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.						
		Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent	Sqm	183.25	Rs.3,908.80	Rs.716,287.60		
28	11.41A	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.						
	1.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size						
	11.41A.3	Size of Tile 600 x 600 mm	Sqm	61.34	Rs.1,311.05	Rs.80,419.81		

29	8.31	<p>Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.</p>	Sqm	113.60	Rs.1,063.45	Rs.120,807.92		
30	12.45	<p>ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of</p>						

	12.45.4	Fully Perforated Gypsum Plaster Board of size 1200 x 2400x12.5 mm having approx. 15 % perforated area with perforation size and pattern as approved by the Engineer-in-charge and as per manufacturer's specification, with all 4 side tapered and backed by acoustical tissue with NRC value not less than 0.60	Sqm	1247.44	Rs.1,483.15	Rs.1,850,140.64		
31	9.62	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :						
	698	300x16 mm	Each	68.00	Rs.180.55	Rs.12,277.40		
32	9.63	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :						
	9.63.1	250x10 mm	Each	308.00	Rs.74.65	Rs.22,992.20		
33	9.66	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :						
	9.66.1	125 mm	Each	188.00	Rs.35.20	Rs.6,617.60		
34	9.83	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	Each	34.00	Rs.1,025.65	Rs.34,872.10		
					TOTAL(A)=	Rs.16,888,711.84		
SEPTIC TANK								
EARTHWORK								

1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.						
	2.8.1	All kinds of soil.	Cum	63.00	286.85	Rs.	18,071.55	
Concrete work								
2	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :						
	4.1.8	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	Cum	4.94	6833.40	Rs.	33,739.91	
Reinforced Concrete Cement								
3	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.						
		(Note :- Cement content considered in this item is @ 330 kg/cum. Excess/ less cement used as per design mix is payable/recoverable separately).						
	5.33.1	All works upto plinth level	Cum	10.88	8320.05	Rs.	90,530.46	
Formwork								

4	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :						
	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	23.83	766.55	Rs. 18,264.74		
Steel Reinforcement								
5	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.						
	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	1206.92	89.65	Rs. 108,200.09		
Masonry Work								
6	6.2	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in:						
	6.2.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	15.35	5746.80	Rs. 88,188.09		
	7.6	Coursed rubble masonry (first sort) with hard stone in foundation and plinth with :						
7	7.6.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	3.85	7914.50	Rs. 30,431.25		
Sub-Head : Finishing								
8	13.5	15 mm cement plaster on rough side of single or half brick wall of mix :						
	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	140.80	339.10	Rs. 47,745.28		
					TOTAL(B)=	Rs. 435,171.38		

17.0 SANITARY INSTALLATIONS								
1	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required						
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	4.00	5781.35	Rs.23,125.40		

2	17.3	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required						
	17.3.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	8.00	6941.3	Rs.55,530.40		
3	17.19	Providing and fixing controlled flush, low level cistern made of vitreous china with all fittings complete.						
	17.19.1	10 litre (full flush) capacity-	Each	8.00	1930.85	Rs.15,446.80		
4	17.6	Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P.V.C. automatic flushing cistern, with fittings, standard size G.I. / PVC flush pipe for back and front flush with standard spreader pipes with fittings, G.I clamps and C.P. brass coupling complete, including painting of fittings and cutting and making good the walls and floors etc. wherever required :						
	17.6.1	Single squatting plate with 5 litre P.V.C. automatic flushing cistern	Each	8.00	7752.6	Rs.62,020.80		

5	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:						
	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	Each	4.00	3392.85	Rs.13,571.40		
6	1.13.2	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:						
	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	Each	12.00	3392.85	Rs.40,714.20		
7	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete	Each	10.00	1411.15	Rs.14,111.50		
8	17.33	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	Each	10.00	942.15	Rs.9,421.50		
9	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms	Each	10.00	146.3	Rs.1,463.00		

10	17.72	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	Each	6.00	811.23	Rs.4,867.38		
11	17.34	Providing and fixing toilet paper holder :						
	17.34.1	C.P. brass	Each	11.00	680.8	Rs.7,488.80		
12	1.32	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.						
	17.69.2	Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms	Each	16.00	109.7	Rs.1,755.20		
13	17.7	Providing and fixing PTMT Bottle Trap for Wash basin and sink						
14	17.7.1	Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	Each	8.00	1356.72	Rs.10,853.76		
15	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.						
	18.8.3	Concealed work, including cutting chases and making good the walls etc.						
	18.8.3	25 mm nominal dia Pipes	Rm	25.00	626.05	Rs.15,651.25		

	18.8.4	32 mm nominal dia Pipes	Rm	35.00	712.75	Rs.24,946.25		
		External work						
	18.9.9	100 mm nominal dia Pipes	Rm	40.00	2811.75	Rs.112,470.00		
	18.9.6	50 mm nominal dia Pipes	Rm	25.00	811.85	Rs.20,296.25		
16	17.38	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.						
	17.38.1	100 mm dia						
	17.38.1.1	Sand cast iron S&S as per IS - 1729	Each	26.00	530.70	Rs.13,798.20		
	17.38.2	75 mm dia						
17	17.38.2.1	Sand cast iron S&S as per IS - 1729	Each	26.00	440.00	Rs.11,440.00		
18	17.4	Providing and fixing heel rest sanitary bend						
	17.40.1	100 mm dia						
	17.40.1.1	Sand cast iron S&S as per IS - 1729	Each	10.00	513.30	Rs.5,133.00		
	17.40.2	75 mm dia	Each	10.00	432.00	Rs.4,320.00		
	17.40.2.1	Sand cast iron S&S as per IS - 1729						
19	17.41	Providing and fixing double equal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete :						
	17.41.1	100x100x100x100 mm						
	17.41.1.1	Sand cast iron S&S as per IS - 1729	Each	8.00	1038.75	Rs.8,310.00		
	17.41.2	75x75x75x75 mm						
	17.41.2.1	Sand cast iron S&S as per IS - 1729	Each	8.00	754.45	Rs.6,035.60		
20	17.58	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter :						
	17.58.1	100 mm	Each	0.00	549.65	Rs.0.00		
21	1.40	Providing and fixing trap of self						
	17.60.1	100 mm inlet and 100 mm						
	17.60.1.1	Sand cast iron S&S as per IS:	Each	12.00	1604.1	Rs.19,249.20		
22	7133.00	Rectangular shape 500x500 mm precast R.C.C. manhole cover with frame - M.D. - 10	Each	4.00	670	Rs.2,680.00		

23	19.22	Providing sand cast iron drop connection externally for 60 cm drop from branch sewer line to main sewer manhole including inspection and cleaning eye with chain and lid, sand cast iron drop pipe and bend encased all-round with cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) with all centering and shuttering required, cutting holes in walls and making good with brick work in cement mortar 1:4 (1 cement : 4 coarse sand) plastered with cement mortar 1:3 (1 cement : 3 coarse sand) on inside of the manhole wall, lead caulked joints between sand cast iron pipes and fittings, stiff cement mortar 1:1 (1 cement : 1 fine sand) joints between sand cast iron tee and S.W. pipe, making required channels complete as per standard design and specifications :						
	19.22.1	100 mm dia sand cast iron	Each	4.00	10137.65	Rs.40,550.60		
24	18.9	Providing and fixing Chlorinated External work						
	18.9.3	25 mm nominal dia Pipes	Rm	55.00	370.65	Rs.20,385.75		
	18.9.2	20 mm dia	Rm	35.00	275.25	Rs.9,633.75		
	18.9.1	15 mm dia	Rm	30.00	221.35	Rs.6,640.50		
25	18.5	Providing and fixing C.P. brass						
	18.50.1	15 mm nominal bore	Each	12.00	715.05	Rs.8,580.60		
26	17.7B	Providing and fixing wash basin with C.I. brackets, 15 mm PTMT pillar cock, 32 mm PTMT waste coupling of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required. White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm PTMT pillar cock	Each	12.00	2521.85	Rs.30,262.20		
		(a) Light type						

27	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank	Each	4000.00	9.7	Rs.38,800.00		
TOTAL OF SANITAY WORKS (C)=						Rs.659,553.29		

INTERNAL ELECTRICAL WORK							
Sl. No.	Item	Description	Qty.	Unit	Rate	Total	
		WIRING IN STEEL AND PVC CONDUIT					
1	1.1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.					
	1.1.1	Group A	65	Point	□ 821.00	□ 53,365.00	
	1.1.2	Group B	71	Point	□ 937.00	□ 66,527.00	
	1.1.3	Group C	135	Point	□ 1,189.00	□ 160,515.00	
2	1.7	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as					
	1.7.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	0	Metre	□ 208.00	□ 0.00	
	1.7.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	2789	Metre	□ 229.00	□ 638,681.00	
	1.7.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	1856	Metre	□ 363.00	□ 673,728.00	

3	1.31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	55	Each	□ 401.00	□ 22,055.00		
4	1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	38	Each	□ 495.00	□ 18,810.00		
5	2.5	2.5Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)						
	2.5.1	4 way (4 + 12), Double door	2	Each	□ 5,651.00	□ 11,302.00		
	2.5.2	8 way (4 + 24), Double door	2	Each	□ 7,744.00	□ 15,488.00		
	2.5.3	12 way (4 + 36), Double door	4	Each	□ 9,828.00	□ 39,312.00		
6	2.1	2.10Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
	2.10.1	Single pole	105	Each	□ 199.00	□ 20,895.00		
	2.10.2	Double pole	5	Each	□ 544.00	□ 2,720.00		

7	2.14	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
	2.14.2	40 A	8	Each	□ 2,626.00	□ 21,008.00		
	2.14.3	63 A	8	Each	□ 2,640.00	□ 21,120.00		
8	1.14	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.						
	1.14.10	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	85	Metre	□ 543.00	□ 46,155.00		
	1.14.11	4 X 16 sq. mm + 2 X 6 sq. mm earth wire	85	Metre	□ 752.00	□ 63,920.00		
9	6.2	6.2 Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.	120	Each	□ 448.00	□ 53,760.00		
10	NON DSR	Supply, Installation, Testing and Commissioning of 1200 mm sweep Ceiling Fans with connection of make Orient Model SUMMERKING (XI Aluminium Blades) or equivalent	89	Each	□ 2,450.00	□ 218,050.00		
11	NON DSR	Supply, Installation, Testing and Commissioning of 300mm sweep Exhaust Fans with connection from existing 6A socket outlet (rate for socket and connection to the socket to be taken separately) of make Orient Model 300 mm Spring Air or equivalent.	10	Each	□ 1,850.00	□ 18,500.00		

12	NON DSR	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.						
	NON DSR	1 or 2 Module (75mmX75mm)	30	Each	₹ 201.00	₹ 6,030.00		
	NON DSR	3 Module (100mmX75mm)	5	Each	₹ 245.00	₹ 1,225.00		
	NON DSR	6 Module (200mmX75mm)	8	Each	₹ 256.00	₹ 2,048.00		
	NON DSR	8 Module (200mmX75mm)	20	Each	₹ 356.00	₹ 7,120.00		
	NON DSR	12 Module (200mmX75mm)	15	Each	₹ 456.00	₹ 6,840.00		
	NON DSR	20 W LED DOWN LIGHT	52	Each	₹ 856.00	₹ 44,512.00		
	NON DSR	BOLARD	10	Each	₹ 8,750.00	₹ 87,500.00		
		TOTAL (INTERNAL ELECTRIFICATION) (D)=				₹ 2,321,186.00		

Sl. No	Item	Description	Qty.	Unit	Rate	Total		
1		Supplying and making outdoor end termination with cast resin compound including aluminium lugs and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.						
	9.2.28	3½ X 400 sq. mm	85	Metre	₹ 3,362.00	₹ 285,770.00		
	9.2.11	3 X 120 sq. mm	45	Metre	₹ 1,694.00	₹ 76,230.00		
		MAIN LT PANEL- ACADEMIC CUM ADMN. BUILDING						

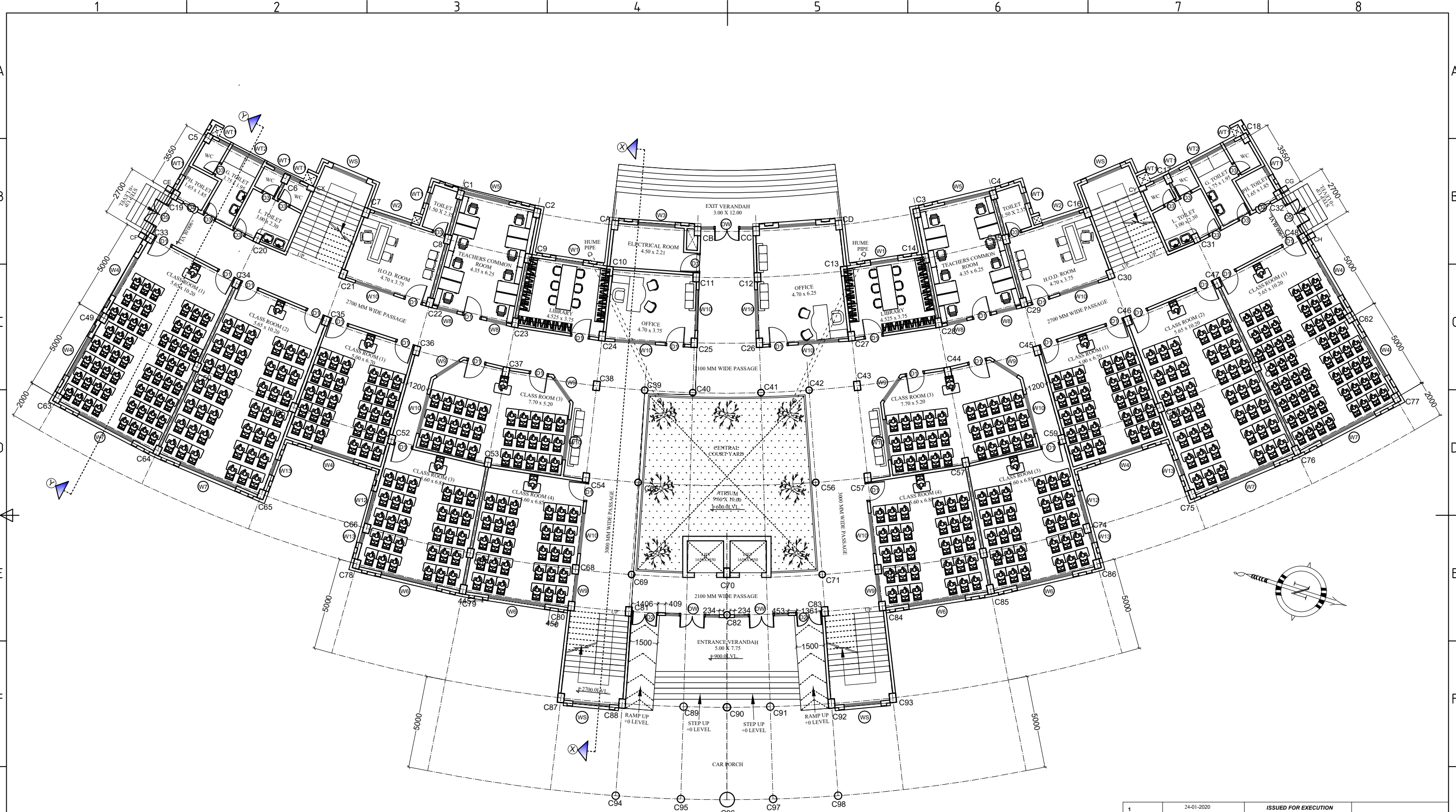
2	NON DSR	Supplying and installation of metal enclosed wall/floor mounted front operated cubical type switch gear panel suitable for indoor installation conforming to IS: 8623 (Part I & II). Panel should be made of sheet steel and thickness not less than 2mm and structural steel having light section. The panel shall be completely dust tight and vermin proof and shall be painted with anti corrosive and anti condensation type two coats of primer and two coats of paint. All wiring shall be PVC insulated and PVC sheathed of 1100 volt grade of required size. The panel should have provision of entry of cable at the bottom and also provision of out going feeders from the bottom of the panel. The panel shall be incorporated with double busbar system. The bus bar shall be of high quality copper of uniform cross section. The panel shall consist of the following items (viz. Voltmeter, Ammeter, CT, indicating lamps, selector switch etc.) connected as per	1	SET	□ 598,500.00	□ 598,500.00		
		Incommer:						
	1	630A 4P MCCB, 36 KA Electronic Release – 1 No. [SET AT 80%]						
	2	250A 4P MCCB, 36 KA Electronic Release – 2 Nos.						
	3	250 A, 4P, on-load Changeover switch - 1 No.						
	4	Digital Ammeter - 2 Nos.						
	5	Digital Voltmeter - 2 Nos.						
	6	CT 250/5 & CT 630/5 -2 Sets.						
	7	Switch Fuse Unit - 6 Nos						
	8	Selector Switch - 4 Nos						
	9	LED Indicating Lamp 2 Sets						
	10	Bus-Bars: 1280 A TPN electrolytic Copper Bus Bar of uniform cross-section (80mmx10mm) – 1 set						
	11	Bus-Bars: 480 A TPN electrolytic Copper Bus Bar of uniform cross-section (30mmx10mm) – 1 set						
		Outgoing:						

	1	160 A 4P MCCB 25 KA – 6						
	2	100 A 4P MCCB 25 KA – 6						
	3	40A 4P MCB -6 Nos.						
	4	32A DP MCB - 3 Nos						
		SUBMAIN LT PANEL [LIGHT]-G (GROUND FLOOR)						
3	NON DSF	Supplying and installation of metal enclosed wall/floor mounted front operated cubical type switch gear panel suitable for indoor installation conforming to IS: 8623 (Part I & II). Panel should be made of sheet steel and thickness not less than 2mm and structural steel having light section. The panel shall be completely dust tight and vermin proof and shall be painted with anti corrosive and anti condensation type two coats of primer and two coats of paint. All wiring shall be PVC insulated and PVC sheathed of 1100 volt grade of required size. The panel should have provision of entry of cable at the bottom and also provision of out going feeders from the bottom of the panel. The panel shall be incorporated with double busbar system. The bus bar shall be of high quality copper of uniform cross section. The panel shall consist of the following items (viz. Voltmeter, Ammeter, CT, indicating lamps, selector switch etc.) connected as per	1	SET	□ 986,500.00	□ 986,500.00		
		Incommer:						
	1	100 A 4P MCCB 25 KA – 8						
	2	Digital Ammeter - 1 No.						
	3	Digital Voltmeter - 1 No.						
	4	CT 100/5 & -2 Sets.						
	5	Switch Fuse Unit - 3 Nos						
	6	Selector Switch - 2 Nos						
	7	LED Indicating Lamp 1 Set						
		Bus-Bars: 200 A TPN electrolytic Copper Bus Bar of uniform cross-section (25mmx5mm) – 1 set						
		Outgoing:						
	1	40A DP MCB - 12 Nos						

		SUBMAIN LT PANEL [POWER]-G (GROUND						
4	NON DSR	Supplying and installation of metal enclosed wall/floor mounted front operated cubical type switch gear panel suitable for indoor installation conforming to IS: 8623 (Part I & II). Panel should be made of sheet steel and thickness not less than 2mm and structural steel having light section. The panel shall be completely dust tight and vermin proof and shall be painted with anti corrosive and anti condensation type two coats of primer and two coats of paint. All wiring shall be PVC insulated and PVC sheathed of 1100 volt grade of required size. The panel should have provision of entry of cable at the bottom and also provision of out going feeders from the bottom of the panel. The panel shall be incorporated with double busbar system. The bus bar shall be of high quality copper of uniform cross section. The panel shall consist of the following items (viz. Voltmeter, Ammeter, CT, indicating lamps, selector switch etc.) connected as per	1	SET	□ 135,460.00	□ 135,460.00		
		Incommer:						
	1	160A 4P MCCB, 36 KA Electronic Release – 2 No.						
	2	Digital Ammeter - 1 No.						
	3	Digital Voltmeter - 1 No.						
	4	CT 100/5 & -8 Sets.						
	5	CT 400/5 -2 Sets.						
	6	Switch Fuse Unit - 3 Nos						
	7	Selector Switch - 2 Nos						
	8	LED Indicating Lamp 2 Sets						
	9	Bus-Bars: 320 A TPN electrolytic Copper Bus Bar of uniform cross-section						
		Outgoing:						
	1	40A 4P MCB -4 Nos.						
		E A R T H I N G						

5	5.4	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	8	SET	□ 6,216.00	□ 49,728.00		
6	5.9	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	856	Metre	□ 313.00	□ 267,928.00		
7	5.5	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. (but without charcoal/ coke and salt) as required.	4	SET	□ 10,714.00	□ 42,856.00		
8	5.8	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass	115	Metre	□ 853.00	□ 98,095.00		
TOTAL (EXTERNAL ELECTRICATION) (E)=						□ 2,541,067.00		

GRAND TOTAL= □ 22,845,689.51

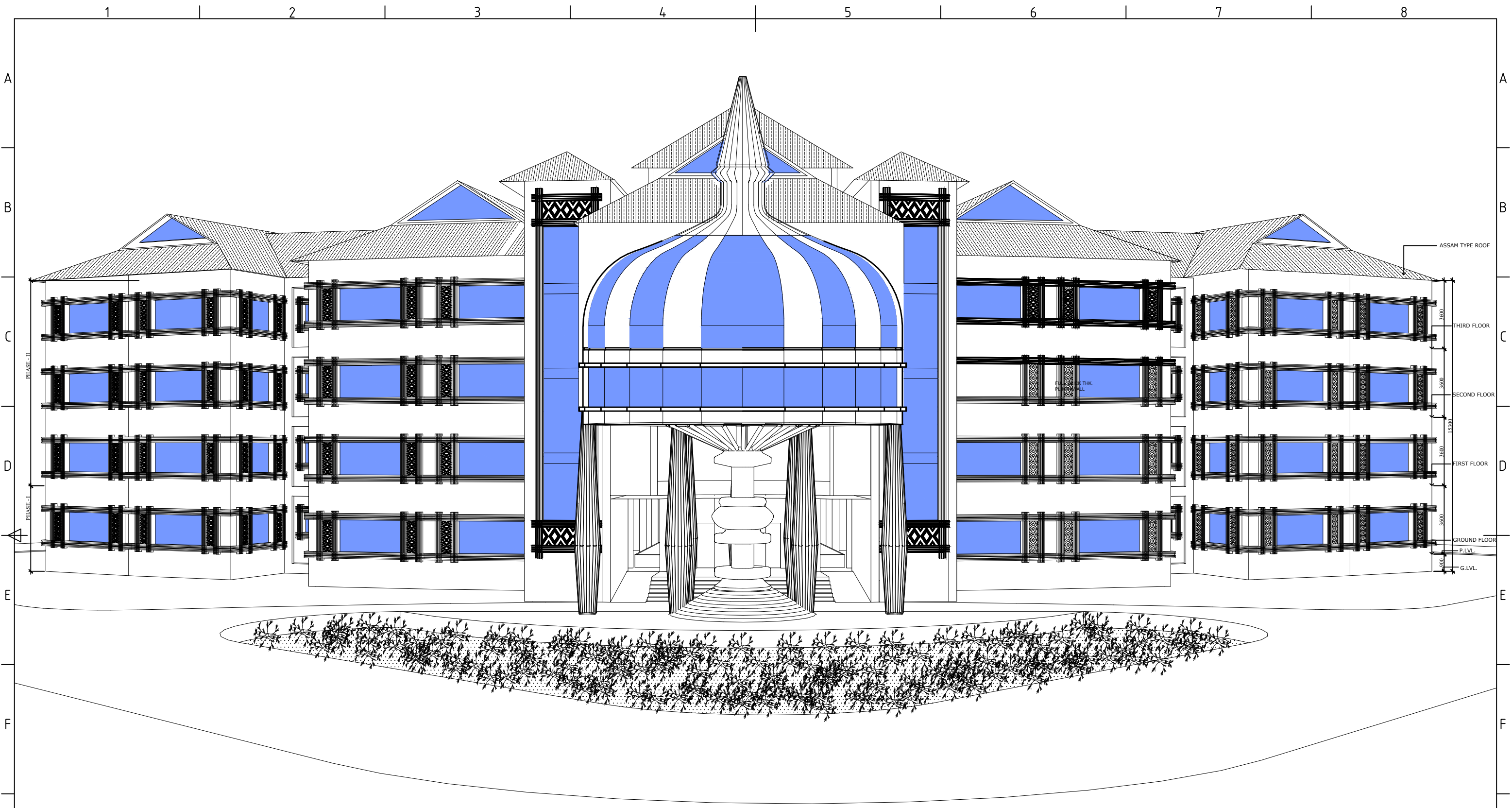


GROUND FLOOR PLAN WITH FURNITURE LAYOUT

BUILT UP AREA = 1330.00 SQ.M

1	24-01-2020	ISSUED FOR EXECUTION	
NO.	DATE	REVISION 1	ENGR.
PROJECT	PROPOSED ACADEMIC BUILDING, PHASE-IV, BLOCK-I, OF MAHAPURUSHA SRIMANTA SANKARADEVA VISWAVEDYALAYA AT ATUATIKA, RAIDONGIA, NAGAON, ASSAM.		
CLIENT:	CONSTRUCTION COMMITTEE DEVELOPMENT OF MAHAPURUSHA SRIMANTA SANKARADEVA VISWAVEDYALAYA (CCD MSSV) AT H. B. ROAD, KALONGPAR, NAGAON, PIN-782001:ASSAM:INDIA		
DRAWING CONTENT :	GROUND FLOOR PLAN		
JOB TITLE	GROUND FLOOR PLAN		
ARCHITECT :	INTEGRATED DESIGN FORUM ARCHITECT, HRIDAI KR. NATH COUNCIL OF ARCHITECTURE REGD. NO. CA/2013/24679 15, 2ND FLOOR, ABOVE MERA MUSICAL MART, RAJGARH MAIN RODA, CHANDMARI, GUWAHATI, ASSAM. PHONE : +91 78961 89205, +91 70024 02930 email id: hridai_idf@gmail.com	STRUCTURAL ENGINEER:	CIVILTECH SOLUTION Tiwari Building, House No. - 4, Kacharibasti Near Dispur College, Ganeshguri 781006 PHONE : +91 9954072961
SCALE	DRG. NO.	JOB NO.	
NTS	IDF/AD/002		

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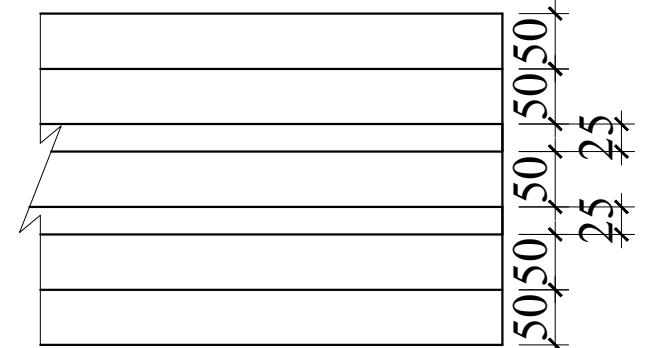
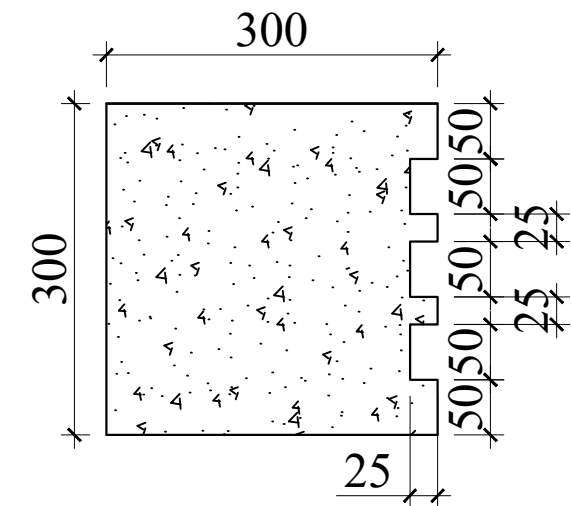
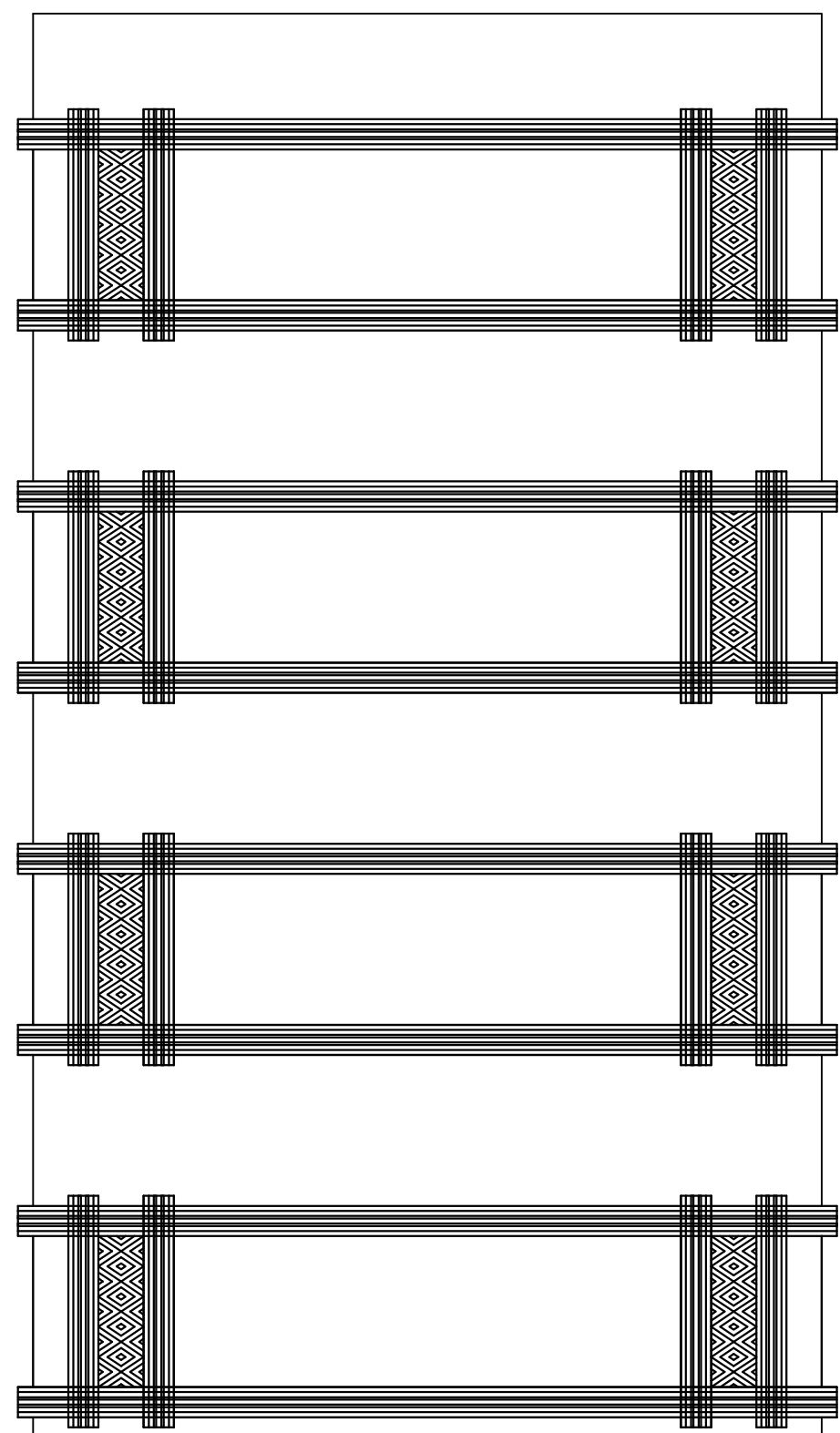
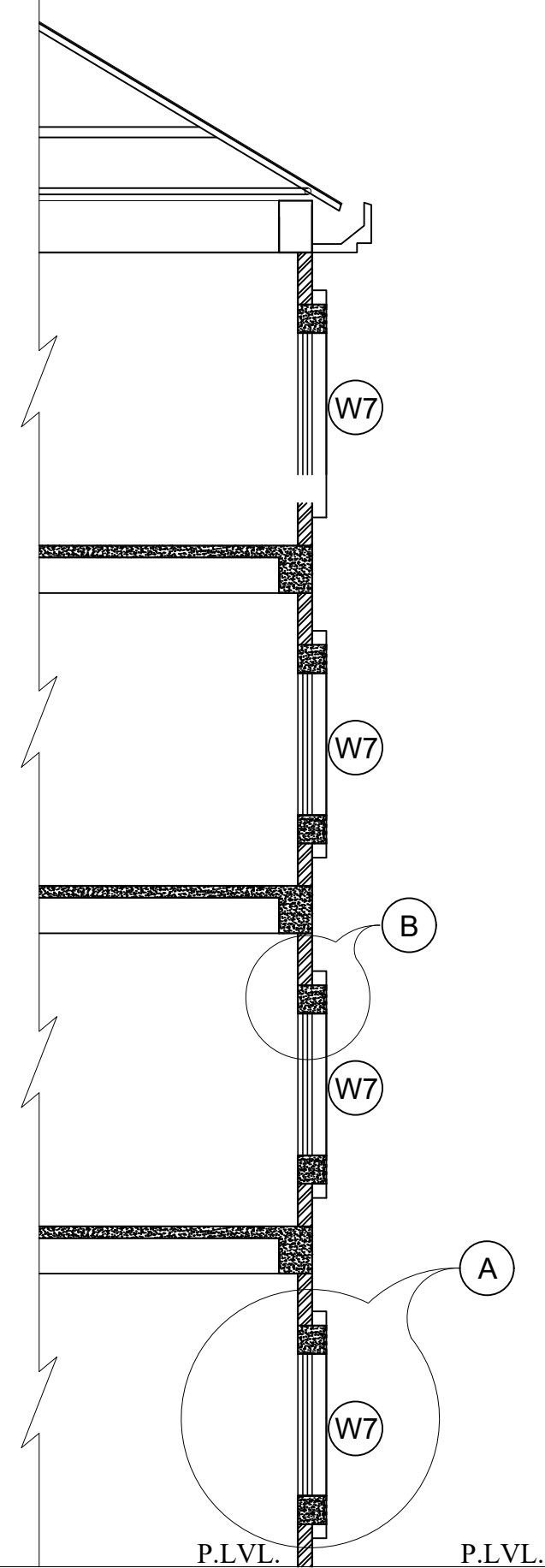


FRONT ELEVATION

1	24-01-2020	ISSUED FOR EXECUTION	
NO.	DATE	REVISION 1	ENGR.
PROJECT		PROPOSED ACADEMIC BUILDING, BLOCK-I, OF MAHAPURUSHA SRIMANTA SANKARADEVA VISWAVIDYALAYA AT ATUATIKA, RAIDONGIA, NAGAON, ASSAM.	
CLIENT: MAHAPURUSHA SRIMANTA SANKARADEVA VISWAVIDYALAYA (MSSV) AT H. B. ROAD. KALONGPAR, NAGAON, PIN-782001:ASSAM:INDIA			
DRAWING CONTENT :			
JOB TITLE FRONT ELEVATION			
ARCHITECT : INTEGRATED DESIGN FORUM ARCHITECT, HRIDAI KR. NATH COUNCIL OF ARCHITECTURE REGD. NO:CA/2013/24679 15, 2ND FLOOR, ABOVE MIRA MUSICAL MART, RAJGARH MAIN RODA, CHANDMARI, GUWAHATI, ASSAM. PHONE : +91 78961 89205, +91 70024 02930 email id: hridai.dpf@gmail.com		STRUCTURAL ENGINEER: CIVILTECH SOLUTION Tiwari Building, House No. - 4, Kacharibasti Near Dispur College, Ganeshguri 781006 PHONE : +91 9954072961	
SCALE	DRG. NO.	JOB NO.	
NTS	IDF/AD/008		

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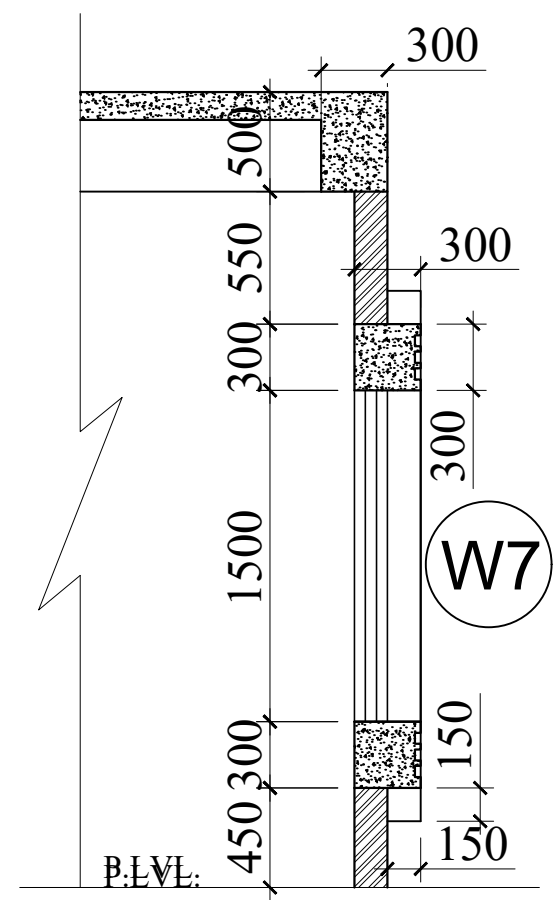
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SECTION

ELEVATION

DETAIL - B
SCALE 1:1000



DETAIL - A
SCALE 1:200

TYPICAL WINDOW DETAIL SECTION AND ELEVATION
SCALE 1:100

REV	DATE	REVISION PARTICULARS	SIGN
0	10-07-2022	ISSUED FOR CONSTRUCTION	

WORK:-

PROPOSED ACADEMIC BUILDING, BLOCK-II,
 AT
 ATUATIKA, RAIDONGIA,
 NAGAON, ASSAM
 FOR
 MAHAPURUSHA SRIMANTA SANKARADEVA
 VISWAVIDYALAYA (CCD MSSV)
 AT H. B. ROAD. KALONGPAR, NAGAON,
 PIN-782001:ASSAM:INDIA

DRAWING:-

DETAILS OF WINDOW & M.S.GRILL

PROJECT ARCHITECT:-

INTEGRATED DESIGN FORUM

ARCHITECT, HRIDAI KR. NATH
 COUNCIL OF ARCHITECTURE REGD. NO. CA/2013/24079
 15, 2ND FLOOR, ABOVE MIRA MUSICAL MART, RAJGARH MAIN RODA,
 CHANDMARI, GUWAHTI, ASSAM.
 PHONE : +91 78961 89205, +91 70024 02930
 email id: hridai.dbpl@gmail.com

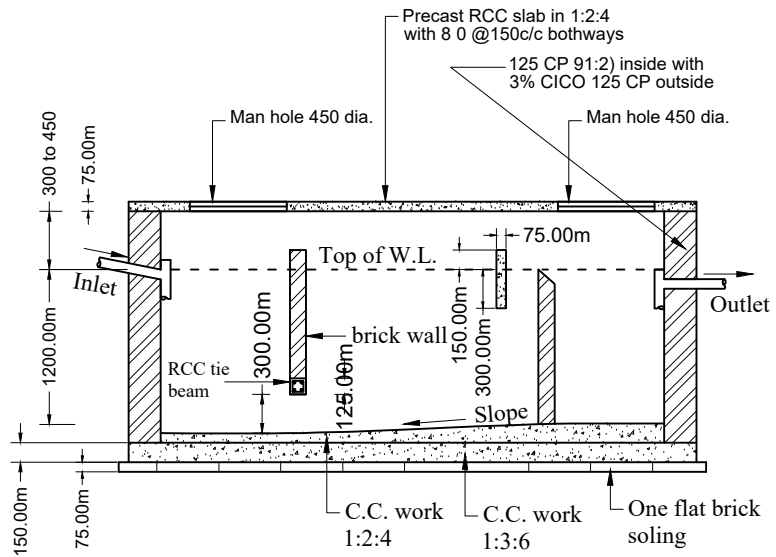
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RJUMONI	AR. HRIDAI	10-07-2022	NOT TO SCALE	IDF/AD-18

REV-00

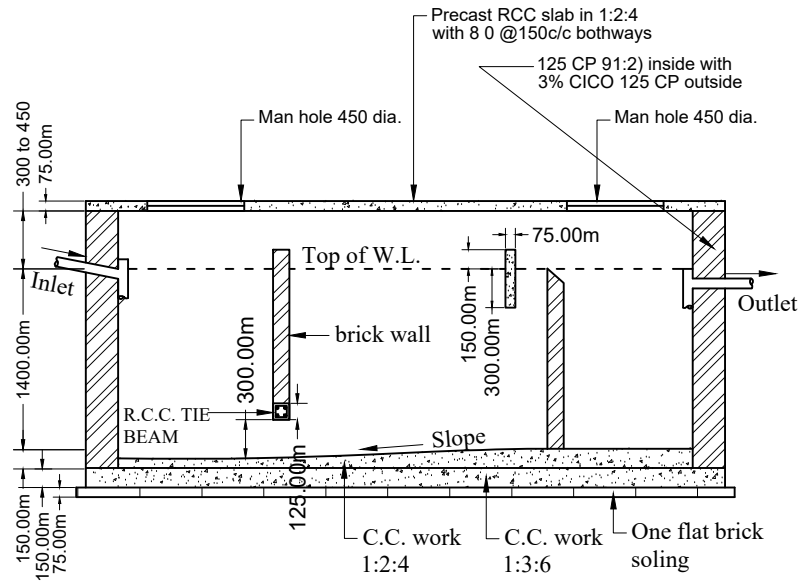
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NOTE:-

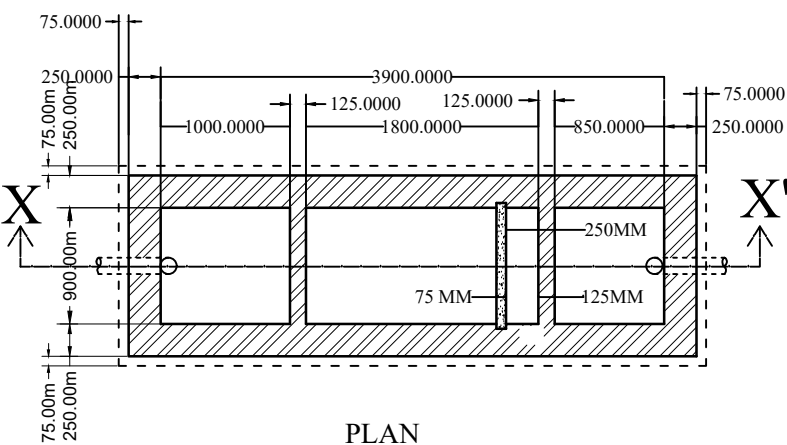
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
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SECTION AT - X-X'

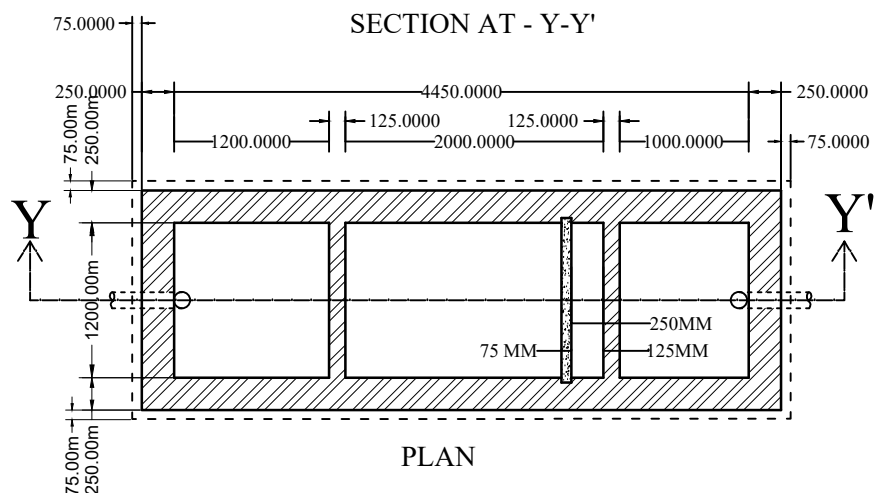


SECTION AT - Y-Y'



PLAN

SEPTIC TANK - 1
For 50 Users



PLAN

SEPTIC TANK - 1
For 50 Users

0	10-07-2022	ISSUED FOR CONSTRUCTION	
REV	DATE	REVISION PARTICULARS	SIGN

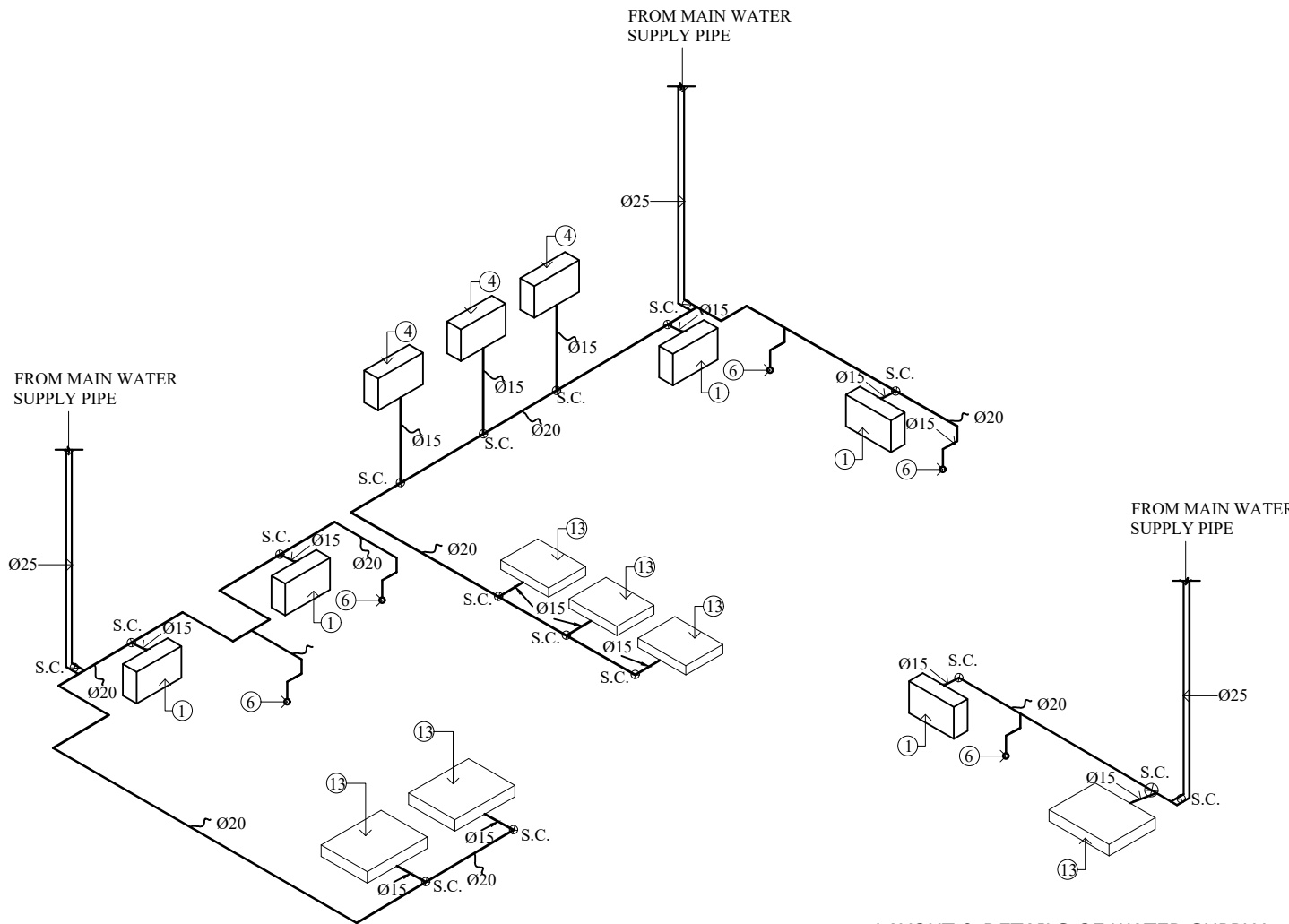
WORK:-
PROPOSED ACADEMIC BUILDING, BLOCK-II,
 AT
 ATUATIKA, RAIDONGIA,
 NAGAON, ASSAM
 FOR
 MAHAPURUSHA SRIMANTA SANKARADEVA
 VISWAVIDYALAYA (MSSV)
 AT H. B. ROAD, KALONGPAR, NAGAON,
 PIN-782001:ASSAM:INDIA

DRAWING:- DRAWING CONTENT:
**DETAILS OF SEPTIC TANK
 FOR 50 AND 100 USERS**

PROJECT ARCHITECT:-
INTEGRATED DESIGN FORUM

ARCHITECT, HRIDAI KR. NATH
 COUNCIL OF ARCHITECTURE REGD. NO. CA/2013/24079
 IS, 2ND FLOOR, ABOVE MIRA MUSICAL MART, RAJGARH MAIN RODA,
 CHANDMARI, GUWAHTI, ASSAM.
 PHONE : +91 78961 89205, +91 70024 02930
 email id: hridai.dbpl@gmail.com

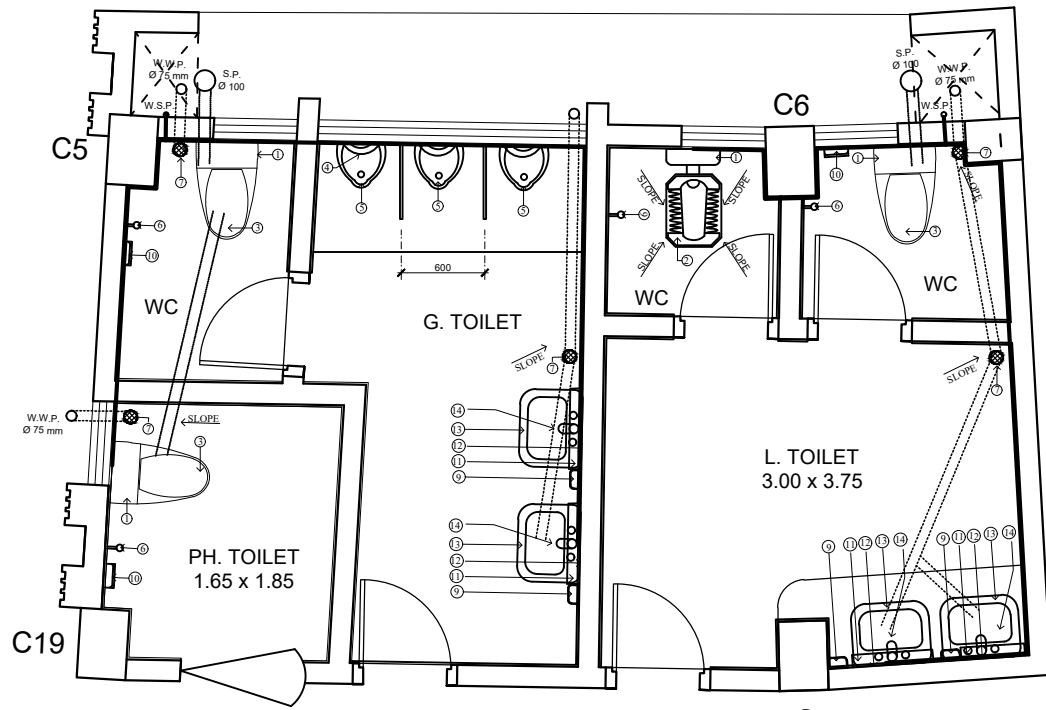
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RIJUMONI	AR. HRIDAI	10-07-2022	SCALE TO FIT	IDF/AD-23
				REV-00



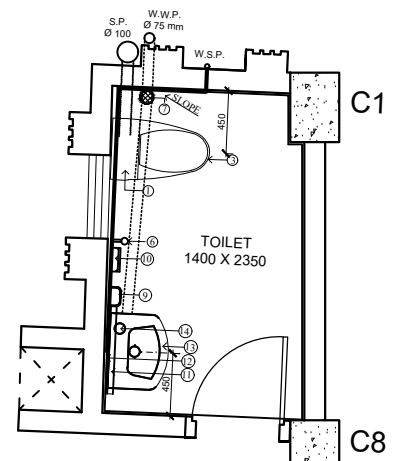
LAYOUT & DETAILS OF WATER SUPPLY PIPE LINE FOR COMMON TOILET BLOCK (GROUND FLOOR)

LAYOUT & DETAILS OF WATER SUPPLY PIPE LINE FOR TOILET ATTACHED TO HOD ROOM (GROUND & FIRST FLOOR)

0	10-07-2022	ISSUED FOR CONSTRUCTION	
REV	DATE	REVISION PARTICULARS	SIGN
WORK:-			
PROPOSED ACADEMIC BUILDING, PHASE-IV, BLOCK-II, AT ATUATIKA, RAIDONGIA, NAGAON, ASSAM FOR MAHAPURUSHA SRIMANTA SANKARADEVA VISWAVIDYALAYA (MSSV) AT H. B. ROAD. KALONGPAR, NAGAON, PIN-782001:ASSAM:INDIA			
DRAWING:-			
DETAILS OF WATER SUPPLY PIPE LINE			
PROJECT ARCHITECT:-			
INTEGRATED DESIGN FORUM			
ARCHITECT, HRIDAI KR. NATH COUNCIL OF ARCHITECTURE REGD. NO. CA/2013/24079 I5, 2ND FLOOR, ABOVE MIRA MUSICAL MART, RAJGARH MAIN RODA, CHANDMARI, GUWAHATI, ASSAM. PHONE : +91 78961 89205, +91 70024 02930 email id: hridai.dbpl@gmail.com			
DRAWN	CHECKED	DATE	SCALE
RIJUMONI	AR. HRIDAI	10-07-2022	SCALE TO FIT
			DRG NO
			IDF/AD-23
			REV-00



LAYOUT & DETAILS OF COMMON TOILET BLOCK
(GROUND FLOOR)



LAYOUT & DETAILS OF
TOILET ATTACHED TO
HOD ROOM
(GROUND FLOOR)

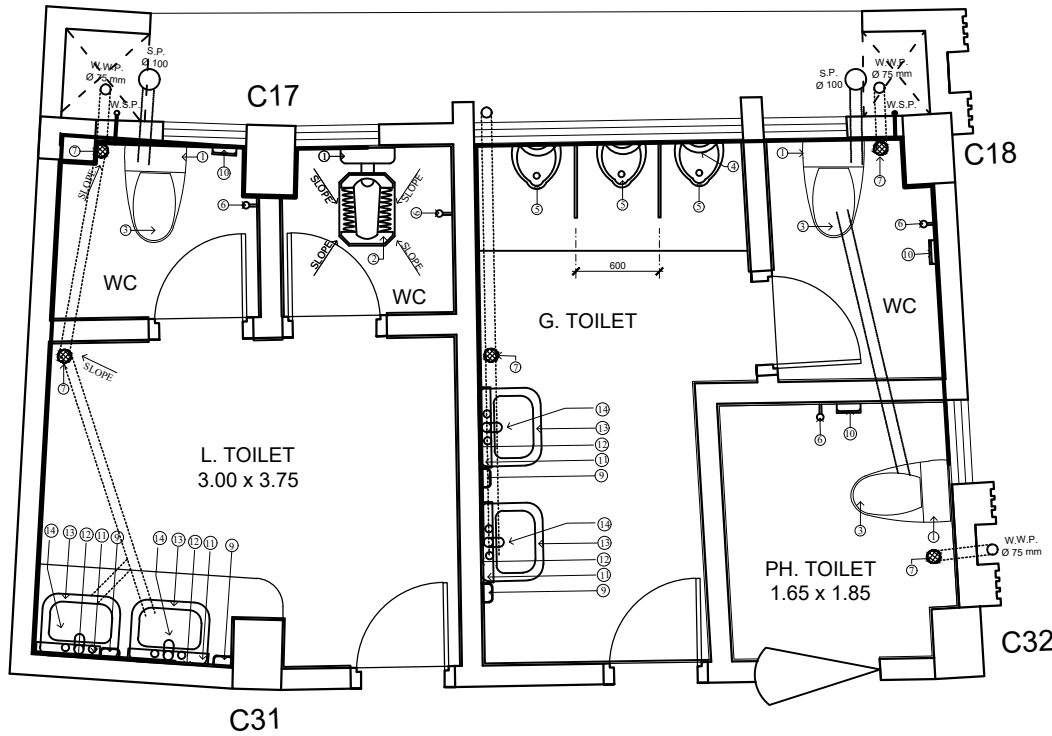
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LEGEND :-

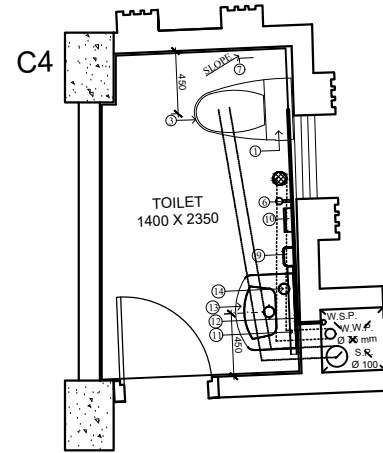
		FIXING HT. FROM F.F.LVL.
(1) L. F. C	→	LOW LEVEL FLUSHING CISTERN. + 900
(2) W.C.	→	ORISSA PAN INDIAN TYPE W.C.
(3) E.W.C.	→	EUROPEAN TYPE W.C.
(4) A.F.C.	→	AUTOMATIC FLUSHING CISTERN
(5) F.B.U.	→	FLAT BACK URINAL .
(6) B. C.	→	BIB COCK FOR W.C. +300
(7) F. T.	→	FLOOR TRAP (JALI).
(8) T. R.	→	TOWEL RAIL. +1500
(9) S. T.	→	SOAP TRAY. +900
(10) T.P.H.	→	TOILET PAPER HOLDER
(11) G. S.	→	GLASS SHELVE. +1100
(12) L. M.	→	LOOKING MIRROR. +1450
(13) W. H. B.	→	WASH HAND BASIN. TOP LVL
(14) P. C.	→	PILLAR COCK. +800
(15) W. S. P.	→	WATER SUPPLY PIPE
(16) W. W. P.	→	WASTE WATER PIPE Ø 90
(17) S. P.	→	SOIL PIPE Ø 110
(18) S. C.	→	STOP COCK
(19) S.P.U.	→	SQUATTING PLATE URINAL.

REV	DATE	REVISION PARTICULARS	SIGN
0	10-07-2022	ISSUED FOR CONSTRUCTION	
WORK:-			
PROPOSED ACADEMIC BUILDING, BLOCK-II, AT ATUATIKA, RAIDONGIA, NAGAON, ASSAM FOR MAHAPURUSA SRIMANTA SANKARADEVA VISWAVIDYALAYA (MSSV) AT H. B. ROAD, KALONGPAR, NAGAON, PIN-782001:ASSAM:INDIA			
DRAWING:-			
LAYOUT AND DETAILS OF TOILET			
PROJECT ARCHITECT:-			
INTEGRATED DESIGN FORUM			
ARCHITECT, HRIDAI KR. NATH COUNCIL OF ARCHITECTURE REGD. NO. CA/2013/24079 15, 2ND FLOOR, ABOVE MIRA MUSICAL MART, RAJGARH MAIN RODA, CHANDMARI, GUWAHATI, ASSAM. PHONE : +91 78961 89205, +91 70024 02930 email id: hridai.dbpl@gmail.com			
DRAWN	CHECKED	DATE	SCALE
HRIDAI	AR. HRIDAI	22-07-2022	SCALE TO FIT
DRG NO			DRG NO
IDF/AD-20			IDF/AD-20
REV-00			REV-00

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**LAYOUT & DETAILS OF COMMON TOILET BLOCK
(GROUND & FIRST FLOOR)**



**LAYOUT & DETAILS OF
TOILET ATTACHED TO
HOD ROOM
(GROUND & FIRST FLOOR)**

NOTE:-

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT DETAIL ARCHITECTURAL AND SERVICES DRAWING, ANY DISCREPANCY FOUND, SHALL BE BROUGHT TO THE NOTICE OF THE CONSULTING ARCHITECT.

LEGEND :-

		FIXING HT. FROM F.F.LVL.
(1) L. F. C	→ LOW LEVEL FLUSHING CISTERN.	+ 900
(2) W.C.	→ ORISSA PAN INDIAN TYPE W.C.	
(3) E.W.C.	→ EUROPEAN TYPE W.C.	
(4) A.F.C.	→ AUTOMATIC FLUSHING CISTERN	
(5) F.B.U.	→ FLAT BACK URINAL .	
(6) B. C.	→ BIB COCK FOR W.C.	+300
(7) F. T.	→ FLOOR TRAP (JALI).	
(8) T. R.	→ TOWEL RAIL.	+1500
(9) S. T.	→ SOAP TRAY.	+900
(10) T.P.H.	→ TOILET PAPER HOLDER	
(11) G. S.	→ GLASS SHELVE.	+1100
(12) L. M.	→ LOOKING MIRROR.	+1450
(13) W. H. B.	→ WASH HAND BASIN.	TOP LVL
(14) P. C.	→ PILLAR COCK.	+800
(15) W. S. P.	→ WATER SUPPLY PIPE	
(16) W. W. P.	→ WASTE WATER PIPE Ø 90	
(17) S. P.	→ SOIL PIPE Ø 110	
(18) S. C.	→ STOP COCK	
(19) S.P.U.	→ SQUATTING PLATE URINAL.	

● THE DRAWING AND DESIGN IS THE PROPERTY OF THE ARCHITECT ANY COPYRIGHT VIOLATION WILL RESULT IN PROSECUTION

REV	DATE	REVISION PARTICULARS	SIGN
0	10-07-2022	ISSUED FOR CONSTRUCTION	

WORK:-

**PROPOSED ACADEMIC BUILDING,
PHASE-IV, BLOCK-II,
AT
ATUATIKA, RAIDONGIA,
NAGAON, ASSAM
FOR
MAHAPURUSHA SRIMANTA SANKARADEVA
VISWAVIDYALAYA (MSSV)
AT H. B. ROAD, KALONGPAR, NAGAON,
PIN-782001:ASSAM:INDIA**

DRAWING:-

**LAYOUT AND DETAILS
OF TOILET**

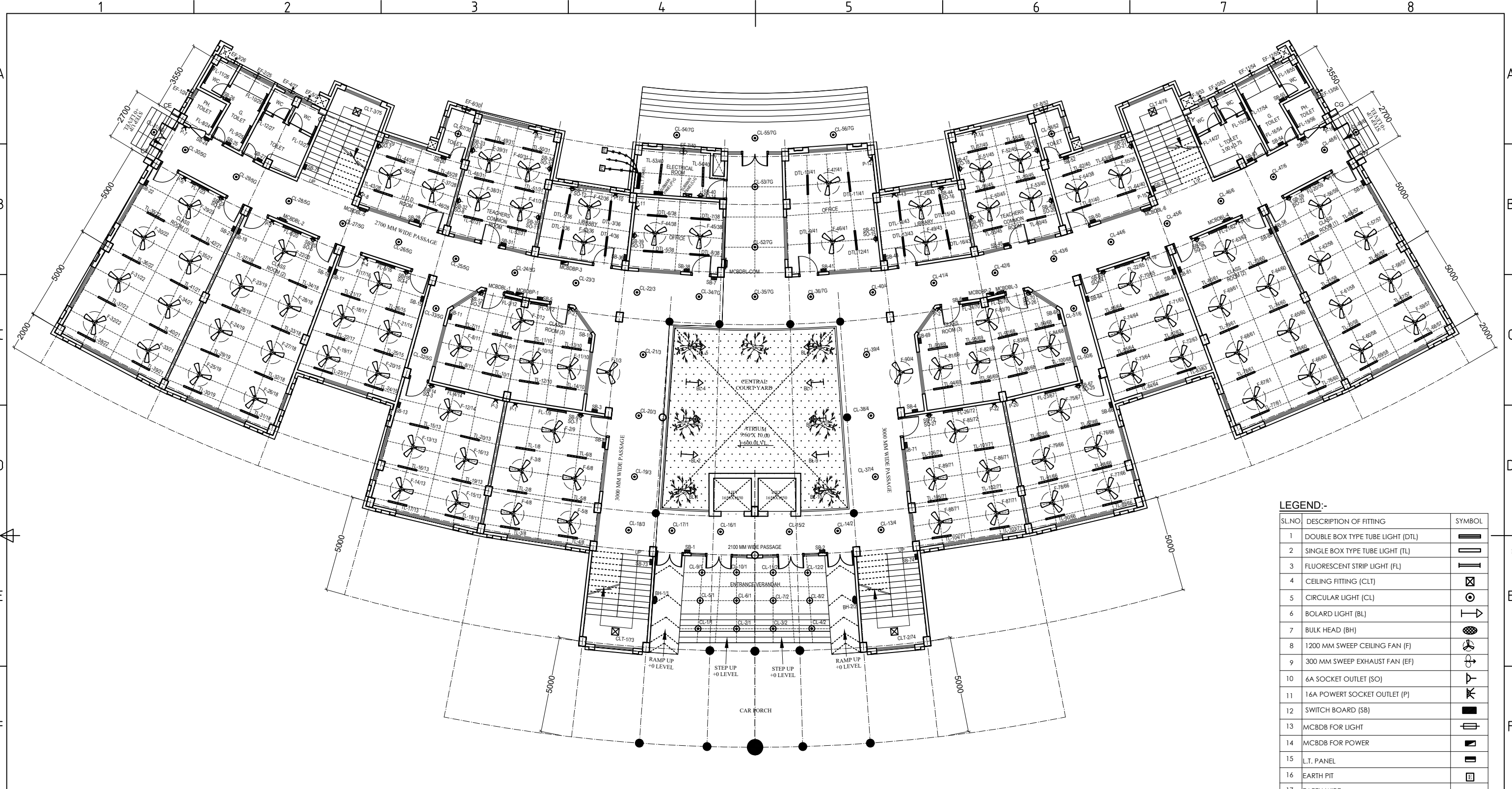
PROJECT ARCHITECT:-

INTEGRATED DESIGN FORUM

ARCHITECT, HRIDAI KR. NATH
COUNCIL OF ARCHITECTURE REGD. NO. CA/2013/24079
15, 2ND FLOOR, ABOVE MIRA MUSICAL MART, RAJGARH MAIN RODA,
CHANDMARI, GUWAHATI, ASSAM.
PHONE :- +91 78961 89205, +91 70024 02930
email id: hridai.dbpl@gmail.com

DRAWN	CHECKED	DATE	SCALE	DRG NO
RIJUMONI	AR. HRIDAI	10-07-2022	SCALE TO FIT	IDF/AD-21

REV-00



GROUND FLOOR ELECTRICAL LAYOUT PLAN

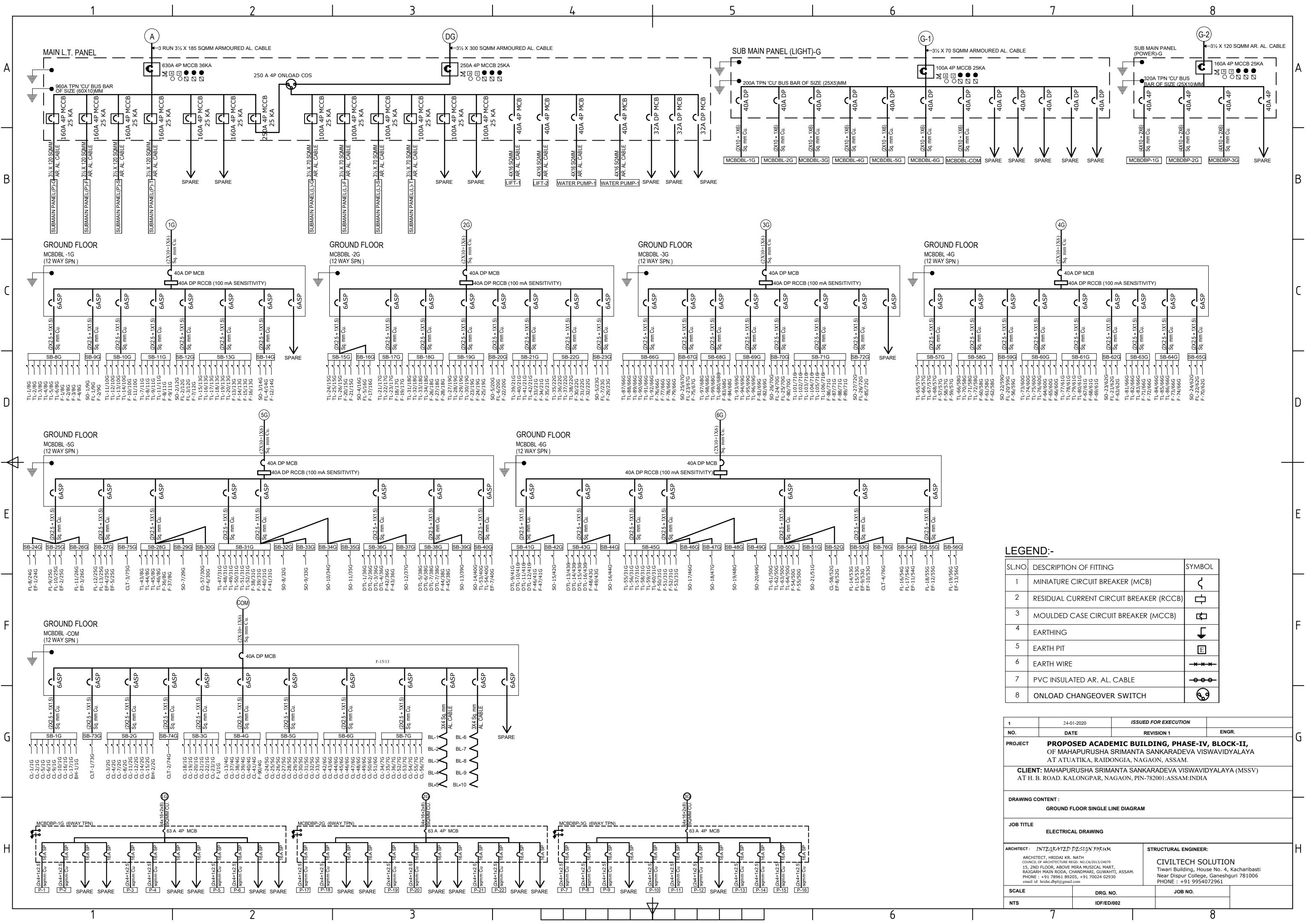
BUILT UP AREA = 1330.00 SQ.M

LEGEND:-

SL.NO	DESCRIPTION OF FITTING	SYMBOL
1	DOUBLE BOX TYPE TUBE LIGHT (DTL)	[Symbol]
2	SINGLE BOX TYPE TUBE LIGHT (TL)	[Symbol]
3	FLOURESCENT STRIP LIGHT (FL)	[Symbol]
4	CEILING FITTING (CLT)	[Symbol]
5	CIRCULAR LIGHT (CL)	[Symbol]
6	BOLARD LIGHT (BL)	[Symbol]
7	BULK HEAD (BH)	[Symbol]
8	1200 MM SWEEP CEILING FAN (F)	[Symbol]
9	300 MM SWEEP EXHAUST FAN (EF)	[Symbol]
10	6A SOCKET OUTLET (SO)	[Symbol]
11	16A POWER SOCKET OUTLET (P)	[Symbol]
12	SWITCH BOARD (SB)	[Symbol]
13	MCBDB FOR LIGHT	[Symbol]
14	MCBDB FOR POWER	[Symbol]
15	L.T. PANEL	[Symbol]
16	EARTH PIT	[Symbol]
17	EARTH WIRE	[Symbol]
18	PVC INSULATED AR. AL. CABLE	[Symbol]

1	24-01-2020	ISSUED FOR EXECUTION	
NO.	DATE	REVISION 1	ENGR.
PROJECT	PROPOSED ACADEMIC BUILDING, PHASE-IV, BLOCK-II, OF MAHAPURUSHA SRIMANTA SANKARADEVA VISWAVIDYALAYA AT ATUATIKA, RAIDONGIA, NAGAON, ASSAM.		
CLIENT:	MAHAPURUSHA SRIMANTA SANKARADEVA VISWAVIDYALAYA (MSSV) AT H. B. ROAD, KALONGPAR, NAGAON, PIN-782001:ASSAM:INDIA		
DRAWING CONTENT :	GROUND FLOOR ELECTRICAL LAYOUT PLAN		
JOB TITLE	ELECTRICAL DRAWING	ELECTRICAL ENGINEER: PINAHPANI CHAKRAVARTY	
ARCHITECT :	INTEGRATED DESIGN FORUM ARCHITECT, HRIDAI KR. NATH COUNCIL OF ARCHITECTURE REGD. NO. CA/2013/24079 15, 2ND FLOOR, ABOVE MIRA MUSICAL MART, RAJGARH MAIN RODA, CHANDMARI, GUWAHATI, ASSAM. PHONE : +91 78961 89205, +91 70024 02930 email id: hridai_dpf@gmail.com	STRUCTURAL ENGINEER: CIVILTECH SOLUTION Tiwar Building, House No. - 4, Kacharibasti Near Dispur College, Ganeshguri 781006 PHONE : +91 9954072961	
SCALE	DRG. NO.	JOB NO.	
NTS	IDF/ED/001		

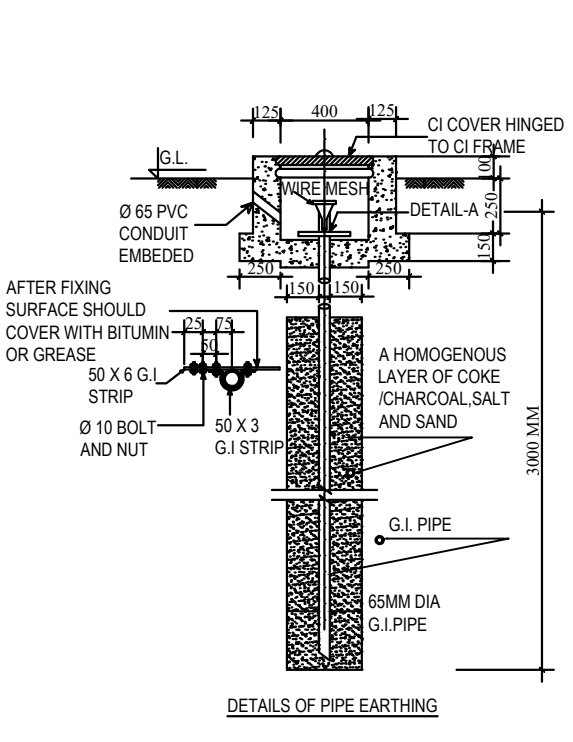
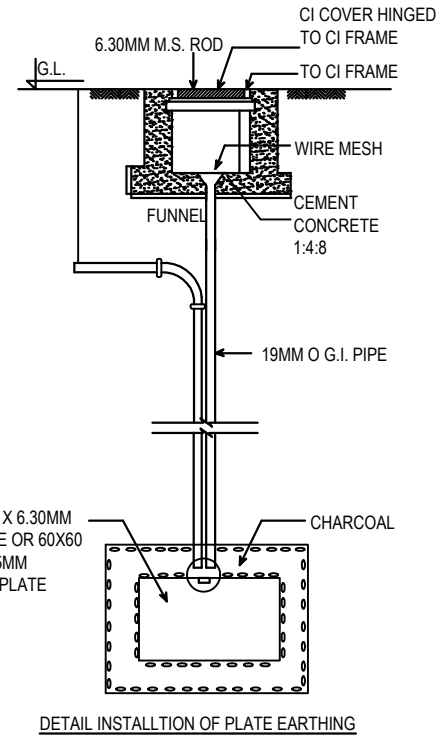
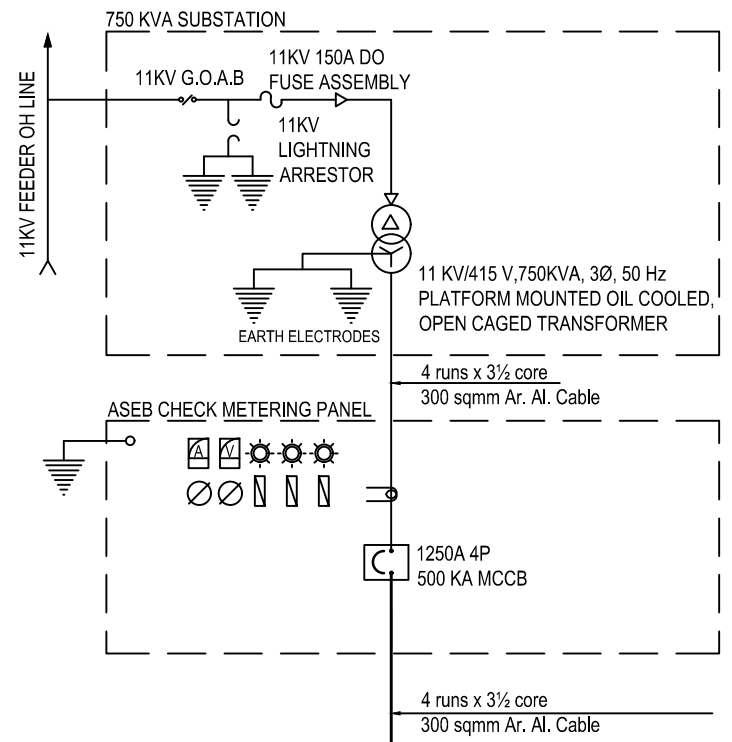
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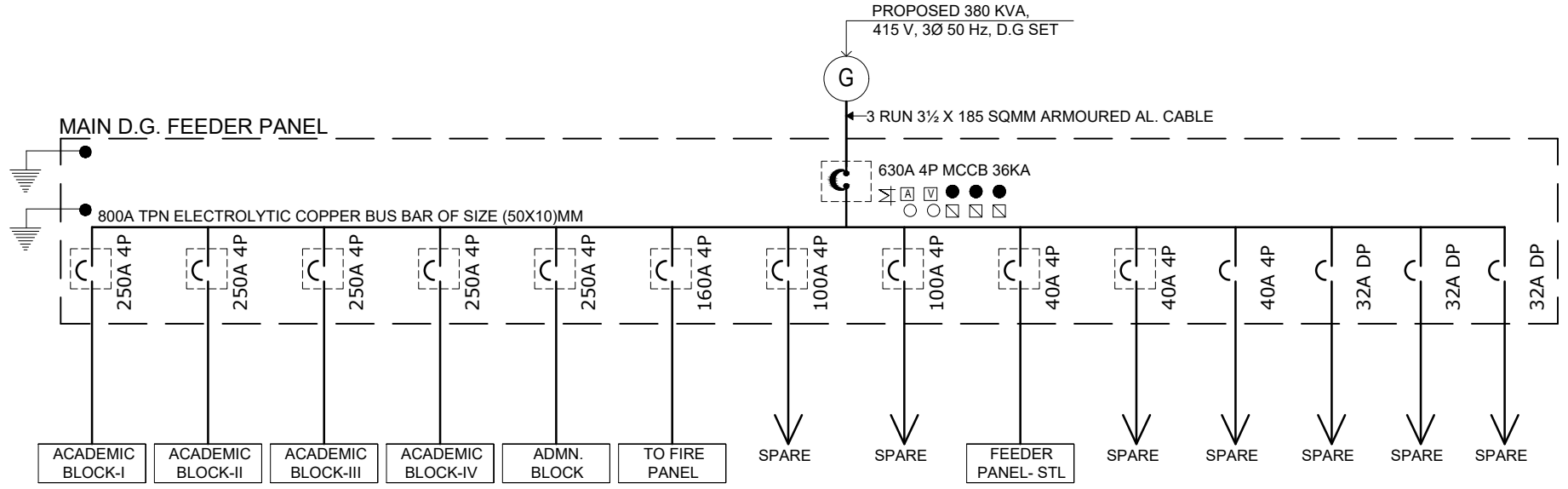
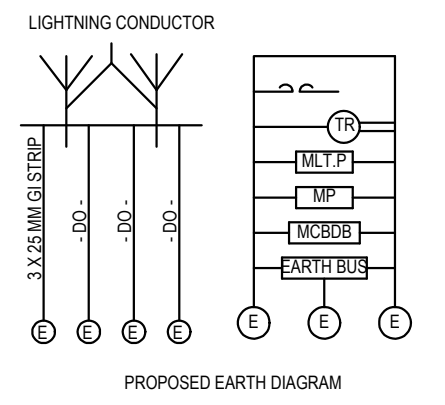
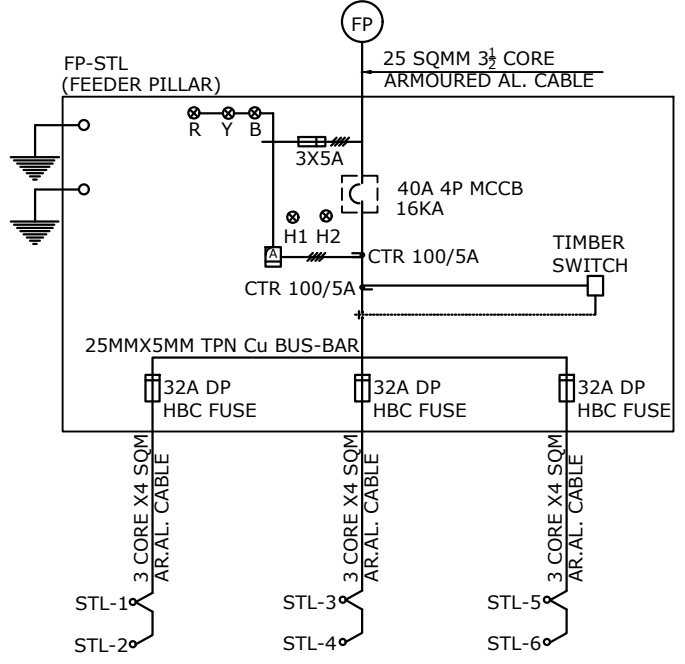
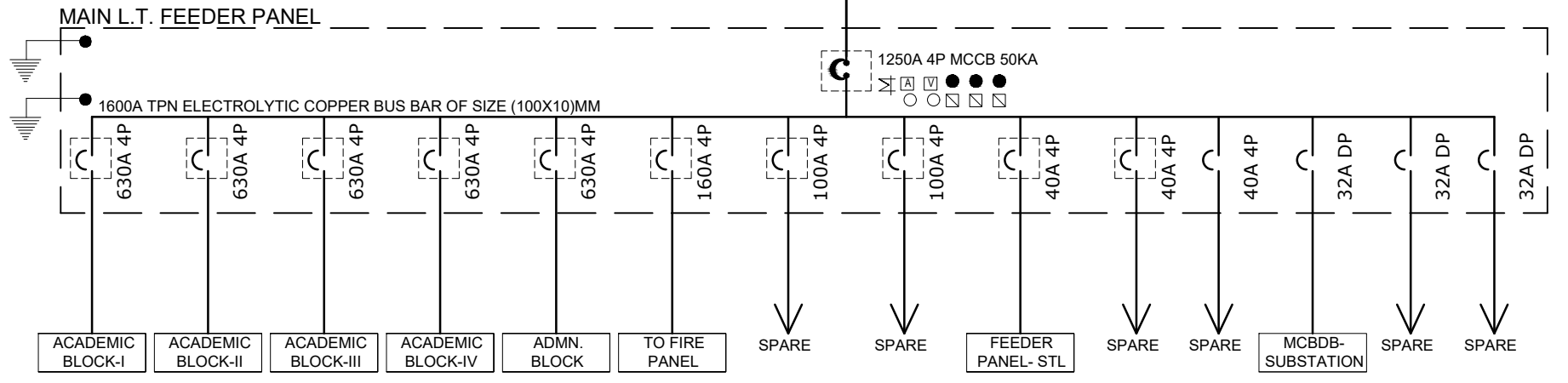
LEGEND:-

SL.NO	DESCRIPTION OF FITTING	SYMBOL
1	MINIATURE CIRCUIT BREAKER (MCB)	
2	RESIDUAL CURRENT CIRCUIT BREAKER (RCCB)	
3	MOULDED CASE CIRCUIT BREAKER (MCCB)	
4	EARTHING	
5	EARTH PIT	
6	EARTH WIRE	
7	PVC INSULATED AR. AL. CABLE	
8	ONLOAD CHANGEOVER SWITCH	

1	24-01-2020	ISSUED FOR EXECUTION	
NO.	DATE	REVISION 1	ENGR.
PROJECT	PROPOSED ACADEMIC BUILDING, PHASE-IV, BLOCK-II, OF MAHAPURUSHA SRIMANTA SANKARADEVA VISWAVEDYALAYA AT ATUATIKA, RAIDONGIA, NAGAON, ASSAM.		
CLIENT:	MAHAPURUSHA SRIMANTA SANKARADEVA VISWAVEDYALAYA (MSSV) AT H. B. ROAD, KALONGPAR, NAGAON, PIN-782001:ASSAM:INDIA		
DRAWING CONTENT :	GROUND FLOOR SINGLE LINE DIAGRAM		
JOB TITLE	ELECTRICAL DRAWING		
ARCHITECT :	INTEGRATED DESIGN FORUM ARCHITECT, HRIDAI KR. NATH COUNCIL OF ARCHITECTURE REG. NO. CA/2013/24079 15, 2ND FLOOR, ABOVE MERA MUSICAL MART, RAIGARH MAIN RODA, CHANDMARI, GUWAHATI, ASSAM. PHONE : +91 78961 89205, +91 70024 02930 email id: hriddai_dpf@gmail.com	STRUCTURAL ENGINEER:	CIVILTECH SOLUTION Tiwari Building, House No. - 4, Kacharibasti Near Dispur College, Ganeshguri 781006 PHONE : +91 9954072961
SCALE	DRG. NO.	JOB NO.	
NTS	IDF/ED/002		



LEGEND	
	11 KV, GANG OPERATED AIR BREAKER (GOAB)
	11KV LIGHTNING ARRESTOR.
	11KV, DO FUSE ASSEMBLY
	11/0.415 KV, 750KVA, 50 Hz, 3Ø, OIL COOLED, ALLUMINIUM WOUND OPEN CAGED TRANSFORMER
	AMMETER
	VOLTMETER
	PHASE SELECTOR SWITCH
	INDICATING LAMPS
	SLIDING TYPE HBC FUSE UNITS
	CURRENT TRANSFORMER
	EARTH LEAD
	MINIATURE CIRCUIT BREAKER (MCB)
	MOULDED CASE CIRCUIT BREAKER (MCCB)
	L.T. PANEL / FEEDER PANEL
	EARTH WIRE
	PVC INSULATED AR. AL. CABLE
	STREET LIGHT (STL)



1	24-01-2020	ISSUED FOR EXECUTION	
NO.	DATE	REVISION 1	ENGR.
PROJECT: PROPOSED ACADEMIC BUILDING, PHASE-IV, BLOCK-II, OF MAHAPURUSHA SRIMANTA SANKARADEVA VISWAVIDYALAYA AT ATUATIKA, RAIDONGIA, NAGAON, ASSAM.			
CLIENT: MAHAPURUSHA SRIMANTA SANKARADEVA VISWAVIDYALAYA (MSSV) AT H. B. ROAD. KALONGPAR, NAGAON, PIN-782001:ASSAM:INDIA			
DRAWING CONTENT : MAIN SINGLE LINE DIAGRAM AND EARTHING DETAILS			
ARCHITECT: INTEGRATED DESIGN FORUM ARCHITECT, HRIDAI KR. NATH COUNCIL OF ARCHITECTURE REGD. NO.CA/2013/24079 15, 2ND FLOOR, ABOVE MIRA MUSICAL MART, RAJGARH MAIN RODA, CHANDMARI, GUWAHATI, ASSAM. PHONE : +91 78961 89205, +91 70024 02930 email id: hridai.dbpl@gmail.com		STRUCTURAL ENGINEER: CIVILTECH SOLUTION Tiwari Building, House No. 4, Kacharibasti Near Dispur College, Ganeshguri 781006 PHONE : +91 9954072961	
SCALE	DRG. NO.	JOB NO.	
NTS	GIA/DIA/002		