DAV S.C.B. MEDICAL PUBLIC SCHOOL

Affiliated to CBSE, New Delhi • Affiliation No.-1530396 • School No. - 16183

OMP SQUARE, CHAULIAGANJ, CUTTACK, ODISHA

TENDER NOTICE

Ref.No.:DAVSCB / CTC / 2212/2026 Date :23/11/2026

Sealed quotations are invited by the undersigned from PWD/CPWD/Railway/MES-approved contractors for the construction of a additional 3rd Floor over existing G+2 School building, Kataka , Odisha .Interested contractors may obtain the prescribed **Quotation Form** along with architectural drawings, structural drawings, service utility details, technical specifications, terms and conditions, etc., from the office of the undersigned on payment of ₹5,000/- (Rupees Five Thousand only) through a Bank Draft drawn in favour of **"Principal DAV S.C.B. Medical Public School "**, payable at Kataka. The documents may be obtained on all working days between 10:30 a.m. to 1:30 p.m. from **23.11.2026 to 07.12.2026.**The tender form can also be downloaded from the Institute's website: https://davscbmps.org The duly completed tender form must be submitted along with a Bank Draft of ₹5,000/- towards the cost of the tender documents. The terms and conditions, technical specifications and other details are subject to change depending on the site conditions; however, the general provisions shall remain broadly the same.

The bidders shall submit Earnest Money Deposit (EMD) of ₹5,00,000/- (Rupees Five Lakh only) in the shape of a Demand Draft drawn in favour of **"Principal DAV S.C.B. Medical Public School "**, payable at Kataka along with the quotation form in a sealed envelope, duly superscribed: **"QUOTATION FOR CONSTRUCTION OF ADDITIONAL 3RD FLOOR OVER EXISTING G+2 SCHOOL BUILDING, KATAKA, ODISHA"** The sealed quotation must reach the office of the undersigned on or before **07.12.2026 by 3:00 p.m**. The EMD of unsuccessful bidders shall be refunded within a fortnight from the date of opening of the quotations, without any interest. The EMD of the successful bidder shall be retained as Security Deposit and shall be refunded after completion of the Defect Liability Period.

The quoted rates should be inclusive of all admissible taxes and GST. Income Tax, as admissible under the prevailing rules, will be deducted from each bill submitted by the selected bidder. The Quotations (**Technical Bids)** shall be opened on **08-12-2026 at 11.00 a.m.** Bidders may remain present either personally or through their duly authorised representatives at the time of opening of the quotations.

There shall be no overwriting or corrections in the quotations. Any overwriting or correction, if unavoidable, must be duly signed by the bidder. In case of any discrepancy, the amount quoted in words shall be treated as final. Quotations received after the stipulated date and time or found incomplete in any respect shall not be considered. Quotations submitted without a valid GST Registration Number, valid Contractor's Licence and Labour Licence shall not be considered.

The undersigned does not bind himself/herself accept the lowest quotation and reserves the right to accept the quotation in whole or in part thereof.

The undersigned further reserves the right to cancel any or all quotations without assigning any reason thereof forfeiting the amount towards the quotation Form.

23/11/26

Principal

PRINCIPAL
DAV S.C.B.Medical Public School
Cuttack

Copy to:

1. The Heads of all DAV Institutions, Odisha, with a request to publish the Tender Notice on their respective school websites for the information of all concerned.
2. The concerned file for record.

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OMP SQUARE, CHAULIAGANJ, KATAKA

Tender Document

Construction of additional 3rd floor over existing G+2 School Building

Kataka, Odisha

Availability of Tender From	:	**23/11/2026 (10:30 a.m.)**
Last Date of Submission	:	**07/12/2026 by 3.00 PM**
Contact Details	:	**PRINCIPAL** **DAV S.C.B. MEDICAL PUBLIC SCHOOL** **OMP SQUARE, CHAULIAGANJ, KATAKA** PIN-753003, Odisha Phone – 0671-2414245 E-mail: davscbmps@gmail.com

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Special Conditions for Addition and Alteration Works

The following conditions shall apply to the execution of addition and alteration works within the functioning school campus.

- **Nature of the project.** The project comprises addition and alteration works to the existing and functioning G+2 school building.
- **Site inspection before tender submission.** All contractors and agencies are advised to visit the existing school premises before submitting their tenders and fully acquaint themselves with the scope of work, site constraints, and available facilities for alternative arrangements for the movement of materials and labour.
- **Continued use of existing areas and facilities.** No existing area or facility shall be closed, taken out of service, or rendered nonfunctional unless expressly permitted in writing by the School Authority.
- **Permitted working hours.** As the school campus will remain operational, the working hours and time restrictions applicable to construction activities shall be specified by the School Authority. The Contractor shall plan and execute the works accordingly.
- **Safety and separate construction access.** The safety of students and staff shall be the paramount priority. The Contractor shall provide additional temporary stair access and lifting arrangements to the upper floors for construction activities, without using the existing common staircase or lift.
- **Protective measures and safety compliance.** The Contractor shall provide and maintain safety barricading, safety nets, isolation of work areas, and warning signs in accordance with NBC 2016, Volume 2, Part 7, Construction Management, Practices and Safety, and the specific instructions of the School Authority.
- **External finishes.** All external finishes of the proposed addition shall match those of the existing building.
- **Temporary services.** Wherever necessary, the Contractor shall provide temporary service facilities and arrangements to ensure the uninterrupted functioning of the school throughout the execution of the works.

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OMP SQUARE, CHAULIAGANJ, KATAKA

Principal , DAV S.C.B. Medical Public School,Kataka invites sealed **Tenders** in Two-bid system from the enlisted Contractors for **Construction of additional one floor over existing G+2 School Building at Katak, Odisha** which includes Civil, Plumbing, Carpentry, Furnishing, Electrical, Retrofitting to existing structure wherever applicable and associated works in accordance with Institutes General Conditions of Contract, Special Terms & Conditions of Contract & Particular Terms & Conditions of Contract, Standard specifications, Extent of Work, Special Instructions to Bidders as appended on the subsequent page & Annexures.

a.	Name of work	**Construction of additional one floor over existing G+2 School Building at Katak, Odisha**
b.	Brief Description	**Construction of additional one floor over existing G+2 School Building on Square Foot Rate Contract Basis as per the schedule of works, specifications, terms & Conditions,** This tender pertains to the execution of works on Square Foot Rate Contract basis for the proposed school building project. The scope of work shall include the construction of the building, installation, testing, and commissioning of various services, complete in all respects. The contractor shall provide all internal services and utilities including civil, structural, electrical, plumbing, HVAC, fire-fighting, and allied installations. The contractor shall also make adequate provisions for necessary external service connections, such as electricity, water supply, sewerage, and data communication interfaces up to the designated connecting points. The Contractor shall acknowledge that the Works are to be executed within an operational school campus, with regular movement of students and staff across multiple floors and campus areas throughout the day. The Contractor shall plan, sequence and execute the Works to ensure the safe and uninterrupted conduct of school activities, including provision of appropriate barricading, controlled access, safe pedestrian routes, signage and other necessary protective measures. All such arrangements shall comply with applicable safety codes and statutory requirements, together with specific instructions issued by the School Authority from time to time. External works such as approach roads, boundary walls, stormwater drainage, landscaping, or other campus

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		infrastructure shall not form part of this tender's scope except for the portions of such work requiring repairing, reconnection, retrofitting or redevelopment etc. for the affected or damaged portions of the existing building and the campus during the execution process. The work shall be executed in accordance with CPWD specifications, relevant IS codes, and directions of the Engineer-in-Charge, ensuring that the building is delivered as a fully functional and operational facility.
b.	Postal address:	**DAV S.C.B. Medical Public School** **OMP Square, Katak – 753003**
	Revenue Address	**Plot No - 95, Khata No - 935,** **Mauza- Chauliaganj, Dist. - Cuttack.**
c.	Time of Completion	**400 Calander Days**
d.(i)	Earnest Money	**5,00,000 (Rupees Five Lakh only) by crossed Demand Draft/ Pay Order payable at Katak and drawn in favor of "Principal, DAV, S.C.B. Medical Public School" to be submitted with the Bid. (Tender without earnest money in proper form will be rejected)**
(ii)	Cost of Tender Document (Non-Refundable)	**5000/-(Rupees Five thousand only) by crossed demand draft payable at Kataka drawn in favour of Principal, DAV S.C.B Medical Public School. (Tender without tender Form fee will be rejected .**
e.	Retention money	5% of total certified bill amount
f.	Release of Retention	Retention money will be released after Defect Liability Period of 1 (One) year from the date of payment of the final bill after adjusting all dues, if any, from the contractor.
g.	Availability of Tender Document	Tender form has to be downloaded from the institutes website https://davscbmps.org (tender section). Application form available on website alone needs to be used. Tender forms will be available on Institutes website from **23/11/2026 till 07/12/2026 up to 3:00 p.m.**
h.	Date of Commencement	Either one week from the date of acceptance of work order or the day on which contractor is instructed to take possession of the site, whichever is later
i.	Time and date of Submission of tender	Up to **03.00 P.M. From 23-11-2026 to 07-12-2026**
j.	Time and date of Opening of Technical Bid	**At 11.00 A.M. on 08/12/2026**
k.	Venue of Opening Tenders	PRINCIPAL DAV S.C.B. MEDICAL PUBLIC SCHOOL OMP SQUARE, CHAULIAGANJ, KATAKA
l.	Tender to be addressed and submitted to	PRINCIPAL DAV S.C.B. MEDICAL PUBLIC SCHOOL OMP SQUARE, CHAULIAGANJ, KATAKA
m.	Clarification, if any to be obtained from	PRINCIPAL DAV S.C.B. MEDICAL PUBLIC SCHOOL OMP SQUARE, CHAULIAGANJ, KATAKA
n.	Validity of Tenders	6 (Six) calendar months from the last date of submission of Tender.
o.	Defects liability period	12 (twelve) months from the date of payment of the final

		bill.
p.	**Taxes**	**The Rate quoted shall be inclusive of all taxes & GST.**
q.	**Delay in submission**	Delay in submission of Tender arising due to postal or any other irregularities at any stage will not be considered. The Institute will not be responsible for any damage in transit in case of postal delivery / delivery through courier service
r.	All tenders in whom any of the prescribed conditions are not fulfilled or are incomplete in any respect are liable to be rejected.	
s.	The acceptance of tender will rest with Institute which does not bind itself to accept the lowest or any tender and reserves to itself the right to reject any or all the tenders received without assigning any reason/s thereof.	
t.	In case the date of opening of tenders is declared as a holiday, the tenders will be opened on the next working day	
u.	Conditional Tenders will be summarily rejected.	

Retention money: The Retention percentage (i. e. deduction for interim bill) shall be 5% of the gross value of each interim bills. The Retention Money will be released after 1(one) year (Defect Liability Period) from the date of payment of the final bill provided the contractor has satisfactorily carried out all the works and attended to all defects in accordance with the conditions of the contract, including site clearance.

Defects liability period shall be as per memorandum. It must be realized that this period is for exposure of "Latent Defects". The DLP commences from the date of payment of the final bill for a period of 12 months.

After opening the envelope containing the offer on the standardized conditions and opening of the pricedtender, no correspondence will be entertained.

Prior to opening of Financial Bid, Institute / Deputed Architect or Engineer, at their discretion may inspect the on - going/completed works of the Contractors as well as obtain confidential report from the concerned employers. The bids of tenders who do not fulfill the above criteria will summarily be rejected. The Institute also reserves to itself the right of accepting the whole or any Part of the tender and the tenderers shall be bound to perform the same at the rates quoted.

Pre-Qualification Criteria:

The firms having experience of successfully completed Civil & Furnishing Works during the last 7 years ending on 31st March, 2025

i) **3 (three)** "similar completed works" costing not less than **Rs. 2.5 Crores**

OR

ii) **2 (two)** "similar completed works" costing not less than **Rs. 3.0 Crores**

OR

iii) **1 (one)** "similar completed work" costing not less than Rs. 4.0 Crores

Minimum average turnover of the Bidder shall be **Rs. 7.5 Corers** during the last 3 (three) Financial years,testimonials to be mandatorily submitted along with Technical Bid, Part - I.

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The Tenderer should have at least min. **07 years'** experience of working with nature of works as briefly mentioned below:

a. Dismantling and retrofitting job including installation of safety measures for a operational campus.
b. RCC Frame Work in Column, Foundation, Roof Beam, Roof Slab including centering & shuttering / bar binding etc.
c. Brick work including plastering, Lintel & chajja works, making concealed conduiting for PH, Electrical works etc.
d. Fixing of Doors, windows, ventilators, grills etc.
e. All types of anti-termite and pest control treatment work.
f. All types of plumbing, sanitary works in the residential, Commercial, institutional complex including supply of plumbing and sanitary materials.
g. Installation, testing, commissioning of all electrical low tension [LT]works including electrical control panel, wiring, conducting, trunking.
h. Installation of fitting and fixture, switches, MCB's
i. Installation, Maintenance and repair of earthing system and lightning arrestors.
j. Flooring work using tiles, marble, granite slab etc.
k. Wall finishing including punning, putty & painting works.
l. Installation of stair, balcony handrail.
m. Roof Grading & waterproofing.
n. External development works including plinth protection, development of circulating area using paver block / chequered tile flooring, making service connections for water supply, sewerage lines etc.

"Similar completed works" means Composite nature of work comprising of Civil work, Carpentry work, Flooring work, Painting work, Sanitary & Plumbing work, Furniture work, Electrical work, and other associated works.

Sealed tender shall be submitted in three separate envelopes consisting of the following:

1. **Cover 1** : Part – I, Technical Bid including pre-qualification documents (Annexure – A)
2. **Cover 2** : Earnest Money Deposit (EMD)
3. **Cover 3** : Part – II, Price Bid

All the above 3 (three) sealed envelopes are to be submitted in a single Covering envelope, duly super-scribed as **"Tender For Construction of additional one floor over existing G+2 School Building at Katak, Odisha"** and submitted to the address mentioned in clause – k hereinabove.

NOTE:-

i) The agency will be fully responsible for correctness of all documents submitted along with the tender. False documents may lead to rejection of their bid.

ii) Institute does not bind itself to accept the lowest or any tender and reserves the right to accept or reject any or all tenders either in whole or in part, without assigning any reasons whatsoever.

iii) No conditions will be entertained. Conditional offers shall be summarily rejected. Disputes, if any, will be subject to KATAKA jurisdiction only.

iv) Canvassing in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.

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PART I – TECHNICAL BID (Cover 1)

ANNEXURE - A

Mandatory information required for Prequalification of the bidder

(To be furnished on the letterhead of the bidder)

Important Note:

1. Please type or handwrite in capital letters.
2. Attach copies of the supporting documents.
3. Attach extra sheets with Sr. No if the space found is insufficient.
4. Applications of those agencies who do not furnish below mentioned information, will be summarily rejected.

1	a) Name of the applicant / organization b) Address of the Registered Office c) Address of office at Bhubaneswar (Name of Contact Person Along with Phone Nos, Email ID)	
2	Year of establishment	
3	Type of the organization (Whether sole proprietorship, Partnership, Private Ltd. or Ltd. Co. etc.) (Enclose certified copies of documents as evidence)	
4	Name & qualification of the Proprietor / Partners / Directors of the Organization / Firm a) b) c) Enclose certified copies of document as evidence	
5	Details of registration – Whether Partnership firm, Company, etc. Name of Registering Authority, Date and Registration number. Enclose certified copies of document as evidence	
6	Whether registered with Government / Semi – Government / Municipal Authorities of any other Public Organization and if so, in which class and since when? (Enclose certified copies of document as evidence)	
7	a. No. of years of experience in the field and details of work in any other field. b. Whether ISO certified, furnish the details.	
8	Area of business activities other than construction, if any, and place of business.	
9	Registration of firm under Shop & Establishment Act 1948	
10	Address of Katak / Bhubaneswar office through which the proposed work of the Institute will be handled and the Name & Designation of officer-in-charge.	

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11	(a) Yearly turnover of the organization during last 3 years (year wise) (Avg. turnover of last 3 years should not be less than ..... **00 Lacs**) and furnish audited balance sheet and Profit & Loss A/c (Audited) for the last –3- years. (b) Average turnover in 2022 – 2023 2023 – 2024 2024 – 2025	
12	Name & Address of Bank (Solvency certificate from a Bank to be enclosed for indicating satisfactory financial capacity of the organization)	1. 2. 3.
13	Enclose copy of latest income tax clearance certificate.	
14	PAN No.	
15	GST Registration No. with Certificate	
16	Detailed description and value of works done (Proforma-1) and works on hand (Proforma-2)	
17	Empanelment with other Companies/PSUs	
18	Other infrastructural information to be used/ referred for this project. List of available plants, machineries equipment etc.	Attach a separate sheet if required.
19	Furnish the names of –3- responsible persons along with their designation, address, Tel. No. etc., for whose organization, you have completed the above-mentioned jobs and who will be in a position to certify about the performance of your organization.	1. 2. 3.
20	Whether any Civil Suit / litigation arisen in contracts executed / being executed during the last 10 years. If yes, please furnish the name of the project, employer, Nature of work, Contract value, work order and brief details of litigation. Give name of court, place, and status of pending litigation.	Attach a separate sheet if required.
21	Information relating to whether any litigation is pending before any Arbitrator for adjudication of any litigation or else any litigation was disposed off during the last ten years by an arbitrator. If so, the details of such litigation are required to be submitted.	
22	Have you been ever disqualified or levied penalty by the Institute in past for non-fulfillment of the contractual obligations. If yes, please provide details.	
23	Have you in past carried out any works for any DAV Group of Institutes? If yes, give details.	
24	**Details of on Going Projects and awarded projects of DAV Group of Institutes at various locations along with Name / Type of Contract / Stage of Progress / Unit Cost & Contract Value along with copies of Acceptance Letter**	

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PROFORMA – 1

LIST OF PROJECTS EXECUTED BY THE ORGANISATION DURING THE LAST 7 YEARS (Minimum Value of Work done not less than 2.5 Corers)

Sl No	Name of work/ Project with address.	Name & full postal address of the owner. Specify	Contract Amount (`)	Stipulated time of completion (Years)	Actual time of completion (years)	Any other relevant information. Actual amount of the Project, if increased, give reasons.	Enclose Client's certificate for satisfactory completion.
1	2	3	4	5	6	7	8

Note:

1. Information has to be filled up specifically in this format. Please do not write remark "As indicated in Brochure".
2. Date shall be reckoned from the date of publication of the Tender.
3. For certificates, the issuing authority shall not be less than an Executive In charge.

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PROFORMA - 2

LIST OF IMPORTANT WORKS IN HAND

(Minimum Value of Work done not less than 2.5 Crores)

Sl. No	Name of work/ project with address.	Name & full postal address of the owner. Specify whether Govt. undertaking along with name, address and contact nos. of -2- persons (Engineers or top officials of the organization)	Contract Amount (Rs.) with copy of Work Order & completion certificate from project in-charge.	Stipulated time of completion (Years)	Present status of the project	Any other relevant information
1	2	3	4	5	6	7

Note:

1. Information has to be filled up specifically in this format. Please do not write remark "As indicated in Brochure".
2. Date shall be reckoned from the date of publication of the Tender.
3. For certificates, the issuing authority shall not be less than an Executive In charge.



GENERAL CONDITIONS OF CONTRACT

1 Tenders shall remain open to acceptance by the Institute for a period of 180 days from the date of opening of Part-II of the tender which period may be extended by mutual agreement and the tenderer shall not cancel or withdraw the tender during this period.

2 The tenderer must use only the forms displayed on the Institute's website to fill in the rates. (Any addition/ alteration in the text of the tender form made by the tenderer shall not be valid and would be liable of rejection).

3 The tender form must be filled in English only and all entries must be made by hand and written in ink. The rate and amount should be in figures and words. If any of the documents is missing or unsigned, the tender may be considered invalid by the Institute Representative at its discretion.

4 Rates should be quoted both in figures and in words in columns specified. All erasures and alterations made while filling the tender must be attested by initials of the tenderer. Overwriting of figures is not permitted and failure to comply with either of these conditions will render the tender void at the Institute 's option. No advice of any change in rate or conditions after the opening of the tender will be entertained.

5 Each of the Tender documents should be signed by the person or persons submitting the tender in token of his/their having acquainted himself/themselves with the General Conditions of Contract, General Specifications, Special Conditions etc., as laid down. Any tender with any of the documents not so signed will be rejected.

6 The tender submitted on behalf of a firm shall be signed by all the partners of the firm or by a partner who has the necessary authority on behalf of the firm to enter into the proposed contract. Otherwise, the tender may be rejected by the Institute.

7 The Institute does not bind itself to accept the lowest or any tender and reserves to itself the right to accept or reject any or all the tenders, either in whole or in part, without assigning any reasons for doing so.

8 Intending tenderers shall pay an interest free Earnest Money Deposit for a sum of Rs 5,00,000/- (Rupees Five Lakh only) by a demand draft / Banker's Cheque in favor of Principal , DAV S.C.B. Medical Public School payable at KATAKA. Tender not accompanied by earnest money deposit will not be considered. The earnest money deposit of unsuccessful bidders shall be refunded after the work order is issued to selected bidder. Under no circumstances earnest money deposit will be accepted in the form of fixed deposit receipt or Bank or Insurance guarantee or Cheque.

9 The Earnest Money Deposit of Rs.5,00,000/- paid by the successful tenderer shall be held by the Institute as security for the execution and due fulfillment of the contract. No interest shall be paid on the said deposit.

10 On receipt of intimation from the Employer of the acceptance of his/their tender, the successful tenderer shall be bound to implement the contract agreement within Fourteen days thereof. The successful tenderer shall sign the agreement in accordance with the draft agreement and the schedule of conditions but the written acceptance by the Institute of a tender will constitute a binding contract between Institute and the person so tendering, whether such formal agreement is subsequently executed or not. The cost of necessary stamp paper for execution of the agreement shall be borne by successful tenderer.

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11. In addition to the Earnest Money Deposit, successful tenderer shall further deposit 1% of accepted tender value. Thus, Institute will keep 2% of accepted tender value as initial security deposit. Total 5% of the accepted tender value may be kept as retention money which includes security deposit and retention money.

12. All compensation or other sums of money payable by the contractor to the Employer under the terms of this contract may be deducted from his earnest money and security deposit if the amount so permits and the contractor shall, unless such deposit has become otherwise payable within ten days after such deductions make good in cash the amount so deducted.

12. The Contractor shall not without the written consent of the Institute, assign this Contract, and shall not without the written consent of the Institute (which consent shall not be unreasonably withheld to the prejudice of the Contractor) sublet any portion of the work. Institute may serve a notice in writing on the Contractor rescinding the contract, whereupon the security deposit shall stand forfeited to the Employer, without prejudice to his/other remedies against the Contractor.

13. The Contractor shall carry out all the work strictly in accordance with drawings, details and instructions of Institute 's Architect & Engineer. If in the opinion of the Institute Representative, changes have to be made in the design and with the prior approval in writing of the Institute 's Representative, they desire the Contractor to carry out the same, the Contractor shall carry out the same without any extra charge.

14. A schedule of Probable Quantities in respect of each work and Specifications accompany these Special Conditions. The Schedule of Probable Quantities is liable to alterations by omissions, deductions or additions at the discretion of the Institute. Each tender should contain not only the rates but also the value of each item of work entered in a separate column and all the amounts quoted against various items should be totaled in order to show the aggregate value of the entire tender.

15. The tenderer must obtain for himself on his own responsibility and at his own expense all the information which may be necessary for the purpose of making a tender and for entering into a contract and must examine the Drawings, inspect the site of the work, acquaint himself with all local conditions, means of access of the work, nature of the work and all matters pertaining thereof.

16. The rates quoted in the tender shall include all charges for clearing of site before commencement as well as after completion, water, electric consumption, meters, double scaffolding, centering, boxing, staging, planking, timbering and pumping out water including bailing, fencing, hoarding, plant and equipment, storage sheds, watching and lighting by night as well as day including Sundays and Holidays, temporary plumbing and electric supply, protection of the public and safety of adjacent roads, streets. The rates quoted shall be deemed to be for the finished work to be measured at site. The rates shall also be firm and shall not be subject to exchange variations, Labour conditions, fluctuations in railway freights or any conditions whatsoever. **The quoted rates shall include applicable GST and all other applicable taxes.**

17. The Contractor should note that unless otherwise stated this tender is strictly on square foot rate basis for the complete finished job for the items of work detailed in the specification and his attention is drawn to the fact that rate quoted should be correct, workable and self-supporting. The quantities in the Schedule of Quantities approximately indicate the total extent of work but may vary to any extent and may even be omitted thus altering the aggregate value of the Contract.

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18. Time allowed for carrying out the work as mentioned in the Memorandum shall be strictly observed by the tenderer and it shall be reckoned from the tenth day after written order to commence the work is issued. The work shall throughout the stipulated period of the Contract be proceeded with all due diligence and if the Contractor fails to complete all the work within the specified period, he shall be liable to pay compensation of the Conditions of Contract/ work contract. The tenderer shall before commence work prepare a detailed work program which shall be approved by the Employer. Contractors have to pay Liquidated damages against delay of the work @ 1 % per week of delay of the estimated amount shown in the tender or contract amount whichever is higher per week. Maximum liquidated damages will be 10 % of the accepted contract sum.

19. Tenders will be considered only from recognized Bonafide contractors in trade concerned. Each tenderer shall submit with his tender a list of large works of a like nature he has executed giving details as to their magnitude and cost of the proportion of work done by the Contractor in it and the time within which the works were completed.

20. The Contractor shall not be entitled to any compensation for any loss suffered by him on account of delays in commencing or executing the work, whatever the cause of delays may be, including delays arising out of modification to the work entrusted to him.

21. The successful tenderer is bound to carry out any or all items of work necessary for the completion of the job even though such items are not included in the quantities and rates. Schedule of instructions in respect of such additional items and their quantities will be issued in writing by Institute.

22. The successful tenderer must co-operate with the other contractors appointed by the Employer so that the work shall proceed smoothly with the least possible delay and to the satisfaction of the Institute.

23. The contractor must bear in mind that all the work shall be carried out strictly in accordance with the specifications made by the Institute and also in compliance of the requirements of the local public authorities and no deviation on any account will be permitted.

24. The tenderer shall have to use materials of the makes/manufacturers specified in the list of material approved brand and/or manufacture contained in this tender form.

25. The Contractor shall strictly adhere to the rules laid down by the Housing Society for carrying out repair & renovation works in the premises. Any penalty/ fine imposed by the Society due to non-adherence of laid down rules has to be borne by the Contractor.

26. The contractor shall strictly comply with the provision of safety code annexed hereto.

27. I.S. Code numbers wherever mentioned in the tender shall be the latest version of I.S. codes as on the date of opening of Tenders.

28. The security deposit of the successful tenderer will be forfeited if he fails to comply with any of the conditions of the Contract.

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29. All disputes and differences of any kind whatever arising out of or in connection with the contract or the carrying out of the works (whether during the progress of the works or within 12 months from the date of virtual completion of the work and whether before or within 12 months of determination abandonment or breach of the contract) shall be referred to giving inter-alia full details of the matter under dispute like quantities, rates, amount claimed and the reason thereto and settled by the Institute who shall state his The Arbitrator shall have power to open up, review and revise any Certificate, opinion, decision requisition or notice, save in regard to the excepted matters, referred to in the preceding Clause and to determine all matters in dispute which shall be submitted to arbitration and of which notice shall have been given as aforesaid. The Arbitrator shall make his award within one year (or such further extended time as may be decided by him or them as the case may be with the consent of the parties) from the date of entering on the reference. In case during the arbitration proceedings the parties mutually settle, compromise or compound their dispute or difference, the reference to arbitration, the reference to arbitration and the appointment of the Arbitrator shall be deemed to have been revoked and the arbitration proceedings shall stand withdrawn or terminated, with effect from the date on which the parties file a joint memorandum of settlement thereof; with the Arbitrator or the Arbitrators as the case may be. The submission shall be deemed to be a submission to arbitration within the meaning of the Arbitration & Conciliation Act, 1996 or any statutory modification thereof. It is agreed that the Contractor shall not delay the carrying out of the works by reason of any such matter, question or dispute being referred to arbitration, but shall proceed with the works with all due diligence and shall, until the decision of the Arbitrator or Arbitrators as the case may be, is given.

30. **CONTRACTOR TO INFORM HIMSELF FULLY:**

The contractor shall be deemed to have carefully examined the work and sited conditions including Labour, the general and special conditions, the specifications, schedules and drawings and shall be deemed to have visited the site of work, to have fully informed himself regarding the local conditions and carried out his own investigations to arrive at the rates quoted in the tender. In this regard he will be given necessary information available with the department but without any guarantee about its accuracy.

If the contractor shall have any doubt as to the meaning of any portion of the general conditions, or the special conditions or the scope of the work or the specifications and drawings or any other matter concerning the contract he shall in good time, before submitting his tender, put forth the particulars thereof and submit them to the Institute, in writing in order that such doubts may be clarified authoritatively in writing before tendering. Once a tender is submitted, the matter will be decided according to tender conditions in the absence of such authentic pre-clarification.

I/We hereby declare that I/We have read and understood the above instructions for the guidance of tenderers.

Signature of Bidder with Seal

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SPECIAL CONDITIONS OF THE CONTRACT

1. Brief description of contract

Construction of additional one floor over existing G+2 School Building at Katak, Odisha in accordance with drawing issued by the Architect as per Clause No - 3 - Scope of work, and drawings as per directions & instructions given by the Client time to time including all Cost for Materials, all Cost of Manpower, Cost all Machineries, Tools and Plants, Contractor's Profit and Overhead.

2. Mode of Measurement:

a) Super-Structure : Floor Built-up Area including any elevational projections at slab level.

b) Above Roof : Plan Area of Mumty, LMR, OHT & Lift machine Room.

3. Approximate Measurable Built-Up Area

a) Third Floor	:	**2021.50**	**Sq.M.**
b) Head Room (Stair & LHR)	:	**147.25**	**Sq.M.**

4. Taxes & duties covered in Schedule of rates :

Schedule of rates shall be deemed to include and cover for all taxes, cess, levies, etc., including but not limited to E.S.I., WCT & P.F. for Labour, all types of education cess, transport charges, entry tax, Octroi, Toll Tax, stamp duties etc. including GST & Labour Cess,

Any Statutory Variation in taxes and duties during the validity period or complete execution of the scope of work, like increase or decrease on taxes, duties, government levies, in the present taxation structure or introduction of additional taxes by the State / Central / Local Authorities, shall be in the scope of Contractor.

5. Scope of Work:

The Contractor hereby agrees to execute and complete the Construction of Finished Structure in ready to use condition with complete services & installation except for those which are listed as **"owners scope"** and to do and perform all other acts and things as necessary to complete the Project in accordance with the specification and terms and conditions stipulated in the WO/Contract and Annexures attached hereto.

Contractor warrants that specification of material and equipment in the scope of contractor will pass on to the Client for approval and will be used after acceptance of Client.

Contractor shall be required to execute the work in co-ordination with the other contractors (if any) appointed by Client and work according to the instructions of Client on all matters pertaining to this Project.

The following will be in the scope of Contractor:

a. Dismantling works:

i) Dismantling of various existing terrace structure including stair and lift, Head room, column, extension above terrace parapet etc .and removing the unserviceable martial form the side premises up to the point of final disposal as per requirement in various phases of construction.

ii) Removal of existing grading and repair to the existing mother slab, whenever applicable.

iii) Erection and installation of temporary stairs and /or lifting platforms.

iv) Provision and maintenance of m safety barricading around work areas.

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v) Provision of temporary arrangement for existing services, including water supply, power supply, and firefighting systems, to maintain uninterrupted operation to the premises throughout the works.

b. **Sub-Structure:**
   i. Excavation and Dewatering including Dressing and Compaction of soil base as required,
   ii. Sand filling & PCC below foundation
   iii. All RCC work including Scaffolding & form work, placement of Reinforcement, Fly ash Brick work in foundation (wherever required) etc.
   iv. Proper curing of all concrete work & de-shuttering
   v. Backfilling around the periphery and disposal of surplus earth
   vi. External Plaster (wherever required)

c. **Super-Structure:**
   i. All RCC Framed Structure work including Scaffolding & form work, placement of Reinforcement etc.
   ii. Proper curing of all concrete work & de-shuttering
   iii. Fly Ash brick work with 2 No.s RCC bands in 100 mm thk. wall with mullion / bed block for door frames.
   iv. All RCC upstand parapet, Lintel, all elevational projections
   v. Installation of Door Frames
   vi. Internal Plaster in wall and ceiling including providing Chicken/fiber Mesh, at joint of brick work with RCC surface.
   vii. All above terrace structures, LMR, OHT
   viii. External Plaster along with making good of the damages caused to the existing structure.
   ix. Integral Water proofing to Terrace RCC Slab.
   x. Terrace Grading along with rainwater disposal arrangement.

d. **Finishing Works:**
   i. Supplying & Fixing of MS Grills as per the detailed drawings.
   ii. Installation of door & windows along with all accessories.
   iii. Internal wall finishing works including putty, primer & painting works as per the finishing schedule.
   iv. Exterior wall finishing at all levels including primer & painting works.
   v. Terrace slab water proofing & grading.
   vi. Flooring works as per specification using vitrified tiles, ceramic tiles, granite, paver blocks & chequered tiles in specified areas including skirting & wall cladding in toilet / kitchen walls etc. as per detail drawings.
   vii. Polishing of wood works wherever provided.
   viii. Kitchen & pantry platform wherever indicated.
   ix. Plinth protection around the building as per the details.
   x. Cladding of brick patten dry cladding of approved make & existing shade & texture with company specified adhesive.
   xi. Provisioning existing type of duct covering in the elevation work.
   xii. Making good of the damages caused to the existing structures due to various construction activities.

e. **Service Installation:**
   i. Making provisions for un-disturbed operation of the existing premises during construction period.
   ii. Provisioning all internal electrical LT works including concealed or surface conduiting,

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wiring to points, installation of Electrical Panel, BDBs, Circuit Breakers, light/ power & fan fixtures etc.

iii. Provisioning suitable number of earthing points.
iv. Power supply provision for AC points.
v. Integrating the power system with power supply main including all wires & cables.
vi. Provision for integrating the existing / new solar power system / power backup system with main power supply system (Cost of solar power Installation / DG/ UPS etc. shall be in client's scope.)
vii. Providing all water supply & plumbing system including overhead tank, connecting main from Borewell / UGR, all supply main, branch distribution, controllers & valves, point termination etc. (Cost of UGR / Borewell etc. shall be in client's scope.)
viii. Providing complete sewerage disposal system comprising of soil waste & waste water line including all branches & downcomers, manhole & inspection chambers, connection to existing manhole for final disposal etc.
ix. Providing of rainwater harvesting / handling system including all downcomers, surface drains, etc. as per detailed drawings. (Cost of Recharge Pits. shall be in client's scope.)
x. Providing of all toilet fittings including traps, WCs, Basins, faucets, Showers, towel rails / rings, soap case holders, mirrors trap etc.
xi. Complete water supply & sewerage disposal system for kitchen, other wash areas etc.
xiii. capacity augmentation as necessitated for the complete structures as a whole.
xiv. Making good of the damages caused to the existing services.

6. Finishing Schedule

S. No	Designation	Finishing	
1.	Common for all Rooms	Room Door Frame	WPC / Painted Pressed Steel
		Windows	Glazed uPVC Window
		Class Room Door Leaf	Laminated 32 mm thk. Flush doors
		Toilet Door frame	WPC Door Frame
		Toilet Door	Factory finished WPC door
		All Toilet Wall	Tile cladding upto 2250 Hight
2.	Staircase	a. Kota stone flooring in both Tread, Riser and Landing b. Wall Finish – Two or More Coats of Weather coat over Primer Coat c. Ceiling- Two or More Coats Acrylic Distemper over Primer Coat d. Hand Rail-SS 202 grade Hand Rail as per design	
3.	Class Rooms / Labs / Lobbies	a. Polished Kota stone flooring of approved shed b. Wall Finish – Two or More Coats of acrylic emulsion paint over Primer Coat c. Ceiling- Two or More Coats Acrylic Emulsion Paints over Primer Coat	
4.	Lift	a. Granite Cladding on Front Face & Door Sill	
5.	Common Toilet	a. Floor Finish – Un Polished Vitrified Tile-600 x 600 b. Wall Finish – Tile cladding upto 2250mm Hight & rest Two or More Coats of acrylic emulsion over Primer Coat. c. Ceiling- Two or More Coats Acrylic distemper over Primer Coat Counter Basin with cantilever slab & granite top.	

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		d. Modular Toilet partition up to 1950 mm Hight minimum (as per site requirement)

7. List of Makes / Brands

Sl.no.	Materials	Make
1.	RMC – (As per Grade Specified)	Ultratech, ACC Using PSC / PPC cement
2.	PPC/PSC	Nuvoco, Ultratech, JSW
3.	White Portland Cement	Birla white, JK white
4.	Reinforcement bar /(only primary Producer) structural steel (as per is 1786)	Tata/JSW CRS HYSD Captain Steel Epoxy Coated (**IS 13620:1993**)
5.	Shuttering Ply	Green Ply (Min. 12 mm Thick) Confirming To IS- 4990:2024
6.	Distemper	ICI-AkzoNobel / Asian Paints
7.	Waterproof cement paint	Asian Paints / Snowcem India Ltd. / Tata Cemplus
8.	Wall Putty	JK / Birla
9.	Synthetic enamel paint	Asian paints / ICI-AkzoNobel
10.	Weather coat	Asian paints / ICI-AkzoNobel
11.	Ceramic tiles / Vitrified Tiles	Somany / Johnson / Kajaria
12.	White glazed tiles	Somany / Johnson / Kajaria
13.	Granite	Approved shade Min. 18mm Thick
14.	Chequered Tile	Min. 25mm Thk. of Approved Make
15.	Kota Stone	Min. 20mm Thk. of Approved Shade
16.	Stair hand Rail	JSW SS – 304 Grade steel
17.	Pressed Steel Windows	TATA Pravesh / Approved make
18.	Door Hinges	SS 316 – Yale / Ozone
19.	UPVC door, windows, ventilators	Fenesta / Kommerling
20.	Floor spring for doors	Dorma / Godrej / Geze
21.	Locks	Godrej
22.	Door closer	Dorma / Godrej / Ozone
23.	Sheet glass for windows	Saint Gobin
24.	Float glass	Saint Gobin
25.	Polycarbonate sheeting	DPI / Palram
26.	Wooden Door Frame	1st Quality Sal Wood
27.	WPC Door Frame	Green Ply Primo having minimum frame density of 850 kg/cum
28.	Wooden Doors	1st Quality Teak Wood
29.	Ply-Wood, Block Board.	Green Ply confirming to IS-5509
30.	Flush door	Green Gold confirming to IS-2202
31.	Decorative Laminate (Min 1.0 Thk.)	Merino Lam
32.	G.C.I. Sheet for roof	TATA, Jindal steel
33.	Gate valve / NRV	Zoloto / Gem
34.	Water tank (pvc)	Sintex / Oriplast
35.	UPVC Pipe	Oriplast / Ashirvad / Kothari
36.	CPVC Pipe	Supreme / Astral / Kothari
37.	CP Fittings	Jaquar
38.	Ceramic Fittings	Hindware
39.	GI pipe fittings	Tata / Jindal
40.	Electrical cable	Finolex / Havells / KEI

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41.	Wire	Finolex / Havells / KEI
42.	MCB / MCCB	Simens / Legrand / Havells
43.	Junction box	Legrand / Havells
44.	BLDC Fans	Havells / Orient Crompton
45.	Switches / Plugs / Power outlets	Legrand / Havells
46.	Light	Philips / Wipro / Havells
47.	Epoxy Waterproofing Compound	SIKA
48.	Modular Toilet Partition	Merino makes and S.S fittings
For any item not specifically mentioned in this list, the same shall be approved from the institute / Architect, prior to procurement & execution.		

8. **Scope of Owner**

a) Providing open space for establishment of stock yard, fabrication yard, office, machinery Inside the premises excluding cost of any development cost of such spaces.

b) Providing temporary power outlet at existing power mains on monthly bill payment by the contractor.

c) Providing temporary Water outlet at existing tapping main line with provision of sump to be provisioned by agency.

d) To execute the Work which are related to scope of work of Contractor by appointing separate agencies for

i. Anti-termite Works
ii. Fire Fighting Works including fire sump & OHT
iii. Solar PV installation Works.
iv. Solar boiler / hot water generator (Except all plumbing works)
v. High tenson power / substation works.
vi. Installation of DG
vii. Drilling Bore well
viii. Works related to STP, WTP & UGR
ix. Construction of garbage collection pits & Micro-compost units
x. Rain water harvesting system & Recharge Pits (excluding terrace downcomer & connection IC)
xi. Site Development beyond building footprint.
xii. Compound Wall Works.
xiii. Development of Internal Roads & Pathways.
xiv. Campus & Periphery Lighting
xv. Hardscaping & Landscaping Works
xvi. Any local/ Govt. issues, etc. will be handled and managed by client / owner.

9. **Terms of Payment:**

a. Payments shall be made by the institute on achievement of following milestones (on pro-rata basis) as per Terms & Conditions as mentioned hereunder.

Mile Stone - 1	On Completion of Dismantling Work, Removal of grading and repairs to existing mother slab where ever applicable, erection installation of temporary stair / lifting platform, safety barricading and utility shifting as per practical requirement for execution of work at site.	05 % of contact Value
Mile Stone - 2	On Completion of RCC Work (all Columns, Slab & Beams, Elevational	35 % of contact Value

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	projections)	
Mile Stone - 3	On Completion of Brick Work & internal Plaster including all concealing works	10 % of contact Value
Mile Stone - 4	On Completion of External plaster work	5 % of contact Value
Mile Stone - 5	On Completion of Flooring & painting Works	10 % of contact Value
Mile Stone - 6	On Completion Doors / Window installation	05 % of contact Value
Mile Stone - 7	On Completion Service Installations including shifting and existing utility service reconnection to all utility item as per practical requirement.	10 % of contact Value
Mile Stone - 8	On Completion of Façade works & External Painting	05% of contact Value
Mile Stone - 9	After Snagging, De-snagging & Handover	05 % of contact Value

b. Detailed scheduled of payment based on the above mile stones, further subdivided to detailed activity is to be worked out upon finalization of the tender & will be a part of the final agreement.

c. The above Mile stone payments are indicative and actual payment are to be made proportionally to the extents of works actually executed at site after due certified joint measurement.

d. The final payment, with respect to the above payments terms shall be made after deducting stipulated Mobilization advance and retention money, adjustment of Secured Material Advance (if any) and any other deductions to be made from every Running Bill on a pro-rate basis.

e. All invoices shall be submitted to the institute for approval and processing the release of payment.

10. Retention Money:

5% of the gross value of the Certified work done shall be deducted from the interim and final bills certified work done value. Retention Money can be released on successful completion of Defect Liability Period, provided the Works are free from defects and the contractor has rectified all defects identified by the Project Manager/ Client's representative during Defect Liability Period.

11. Running Bill Certification:

The Contractor shall prepare measured bills as directed by the Client (detailed measurement, abstract sheet, MTC, purchase bills, deviation statement for ongoing and completed work, materials reconciliation statement and any specific instructions which may be given in this regard by the Client and other supporting documents (as applicable). The bills in duplicate shall be submitted to the Client along with all supporting documents. GST amount has to be clearly mentioned in the Tax invoice submitted along with the Running Bill.

The Contractor shall submit all bills in the format approved (Hard & soft copies) by the client duly supported by detailed verified Measurements (as per IS code) /documents etc. If the bills are not submitted along with the required documents, then the last date on which submission is complete shall be considered as the date of submission of the bill. The contractor shall be entitled to receive payment proportionate to the part of work executed on submission of running account bills as per the terms stipulated in this WO / contract.

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Ad-hoc of up to 70% Payment of RA Bill value as estimated by Client after preliminary scrutiny shall be released within 10 days of receiving the correct Interim invoice / RA Bill (including amongst others but not limited to all certified measurement sheets, proof of all compliances, deposits pertaining to labour cess, insurance, ESI, PF, etc.) after the Project Manager's / Client's approval. Such Ad-hoc payments shall be fully recovered from the payment due against the same RA Bill after Final scrutiny. Balance amount shall be released after certification (in 30 days of receipt of RA Bill with complete information) of the Project Manager/ Client In case the Contractor feels that the certain Works for which payment due has not been certified in any monthly bill, the Contractor has to notify Project manager, in writing, the said omission in the certificate within 10 days. The Contractor should include the said Works in his next R.A. Bill.

12. Completion Period:

The duration for completing the entire Project will be 400 (Four Hundred) Calander days including mobilization from the date of issue of work order / signing of agreement.

13. Extra Item:

Extra items shall be derived from the available contract items, wherever applicable, however for the items not available in the contract the rates for Extra Item / Non-Tendered Item shall be determined on the basis of actual / theoretical consumption of materials, and actual / theoretical use of labour, plant and machinery, as detailed below; consideration of actual or theoretical consumption shall be at sole discretion of the Project Manager / Client.

a. Cost of materials actually used by the Contractor and /or by theoretical analysis of consumption of materials at Work, at no more than prevailing market rates, actually incorporated in the Work.
b. Cost of labour actually used at the Site and /or by theoretical analysis of labour utilization on the Work at prevailing Labour Rate.
c. Cost for the use of any plant and machinery dedicatedly for this item at the Site, on actual basis.
d. 15% of the costs in respect of (a), (b) and (c) above, towards Contractor's establishment and all other costs like cost towards Power, Water & Tools/Tackles etc., and overhead and profit plus taxes as applicable except GST & Labour Cess (which will be paid extra). Contractor's overheads and profit shall not be allowed on free issue items.
e. All applicable taxes (GST) and duties (Labour Cess) in respect of (a), (b), (c) & (d) above.

For this purpose, the Contractor shall submit to the Client detailed analysis of the rate proposed by the Contractor supported by relevant vouchers along with the estimated quantity of work item involved.

Rates for the extra items shall be preferably settled prior to commencement of these works but not later than 10 days after its commencement by the Contractor. However, if not settled prior to commencement of work, the assessment made by client shall be binding and accepted by contractor.

14. Project milestone and Work Breakdown Schedule:

Contractor shall have to submitted the documents stating date of commencement and date of finish indicating detailed activities milestones which is attached to the WO/Contract as Annexure - 2 and contractor will be updating the status of the same periodically and submitting to the Client in a weekly/ monthly report, as per Client demand.

15. Validity of the Order:

Prices are firm and fixed for the entire duration of project work completion and handover and shall remain valid till completion of the project as per completion schedule. There is no

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escalation of any kind applicable for the original scope since the applicable escalation charges have already been built into the rates agreed.

16. **Defect Liability Period:**
12 (Twelve) Months after completion of rectification of all defects to the satisfaction of the Client and date of issue of completion certified by the Client, including clearing of snag list and handover to the Client. This also include any period extended as a result of rectification of the work/change orders, between the Completion of original scope of work and completion of any extra items/ additional Works as might be included in the scope of Works during the scope of Contract; and during which period the Contractor shall be bound to replace and/or rectify and make good all defective materials, equipment and/or workmanship which arise in the Works or come to notice subsequent to the Completion of the Works and prior to the Final Completion of the Works without requiring the Client to bear any additional charges whatsoever.

17. **Release of Drawings:**
Two copies of Working Architectural/ Structural drawings marked 'Good for Construction' and duly signed by the Architect / Consultants shall be issued by the Project Manager / Client from time to time during the contract period, based on which the contractor shall prepare 'Shop drawings', 'Bar Bending Schedules', etc. as required for approval of the Project Manager / Client and proceed with construction work. Working drawings are diagrammatic but shall be followed as closely as actual construction permits. Any deviations made shall be in conformity with the direction of the Project Manager / Client and with the prior approval of the Project Manager / Client
a. Architectural drawings shall take precedence over Structural drawings, which in turn shall take precedence over services drawings in regard to all dimensions.
b. The Contractor shall verify all dimensions at the Site and bring to the notice of the Project Manager / Client discrepancies if any, the Project Manager / Client's decision in this respect shall be final.

18. **Site Directive & Instruction:**
Project Manager / Client /Architect may, at his absolute discretion and from time to time, issue further drawings and/ or verbal/ written instructions, details, directions, & explanations, which are hereafter collectively referred to " Site Directive/ Site Instruction" in regard to:

a. Variation or modification of the design, quality or quantity of Works or the addition or omission or substitution of any work.
b. Any discrepancy in the drawings or between the Schedule of Quantities and/or drawings and/or Specifications.
c. Removal from the Site of any materials brought therein by Contractor and the substitution of any other material, therefore.
d. Removal and/or re-execution of any work executed by Contractor.
e. Dismissal from the Works of any persons employed therein.
f. Opening up for inspection of any work covered up.
g. Amending and making good of any defects.

Contractor shall forthwith comply with and duly execute any work comprised in such " SITE DIRECTIVE/ SITE INSTRUCTION" provided always that verbal instructions, directions and explanations given to contractor or his representative upon the Works by Project Manager / Client shall, if involving a variation, be confirmed in writing by the contractor from the Project Manager / Client within seven days.

The Contractor shall maintain a Site Directive/ Site Instruction file at the Site office. All

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instructions received from the Project Manager / Client/ Architect relating to the Work shall be retained in the file with sign and date. All costs pertaining to Extra Works done at site due to the changes as recorded in the instruction register, if has to be paid to the contractor, the bill shall be substantiated with copies of approval recorded in the book.

19. Co-ordination of Work:

At the commencement of the Work, and from time to time, the Contractor shall co-operate with other Contractors, Sub- Contractors, persons engaged on separate Contracts in connection with the Project, Vendors, the Project Manager, the Client and the Architect for the purpose of the co-ordination and execution of various parts / phases of the Project. The Contractor shall determine and ascertain from the Vendors and persons engaged on separate Contracts, in connection with the Project, the extent of all chasings, cutting and forming of all openings, holes, details of all inserts, sleeves, etc. that are required to accommodate the various services.

The Contractor shall determine and ascertain the routes of all services and positions of all floor and wall openings, outlets, traps, the details of all inserts, equipment and services and shall carry out the construction and making good of all Works in accordance with and as shown, described and/or measured in the drawings, Specifications, and other Contract Documents. Also, the Contractor shall ensure that all required services, inserts, sleeves, embedment etc. are in place/position before he proceeds with his Work. Should the Contractor fail to comply with these requirements and the consequence of such failure necessitates the breaking, re-doing and making good of any Work, then the cost of all such breaking, re-doing and making good of any Work shall be to the account of the Contractor and shall be borne by him. No breaking and cutting of completed Work shall be done unless specifically authorized in writing by the Project Manager / Client. No Work shall be done over broken or patched Work without first ascertaining that the broken surface is adequately prepared and reinforced to receive and hold further Work, as determined by the Project Manager / Client

In order to ensure proper co-ordination is being undertaken, weekly meetings, chaired by the Project Manager / Client, will be held with the various Contractors and Architect/ Consultants, at which co-ordination will be discussed and minutes of actions proposed circulated.

20. Documents:

All document should be accompanied with the signed original documents i.e. Tax invoices, Challans, Test Certificates etc. All the documents and communications should have the WO reference.

21. Transit Insurance up to the site:

Transit Insurance or any other insurance as may be required for handling & delivery of supply to site shall be taken by the Contractor / Vendor and nothing extra shall be paid on this account.

22. Insurance Policies:

All insurances pertaining to manufacturing/ fabrication/ transportation/ installation related to the scope of work this WO shall be borne by the vendor.

23. Statutory Permissions:

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The Contractor shall be responsible for obtaining all necessary statutory approvals in relation to the Scope of Work. All statutory approvals concerning execution of works (movement of men, material, vehicles and equipment etc., installation of batching plant, water/ sewage disposal, etc.) shall be obtained by Contractor immediately upon issue of WO and make sure that the approvals are obtained on time and prior to the scheduled start date of Client operations.

Obtaining statutory approvals wherever applicable and liaison with concerned departments limited to the construction activities shall be Contractor's responsibility. Contractor shall also produce all required documents as and when required by the authorities and Client for inspection and do liaisoning for all audits with government authorities.

24. Liability for Defects in Material, Design and Workmanship:

Upon written request by Client, Vendor shall replace within a reasonable period any parts of the supply which, before the expiry of the warranty period, are proved to be defective or unusable due to defective material, faulty design or poor workmanship, provided that Client has notified Supplier in writing of the defects during the warranty period and immediately after discovery. Client shall give Supplier sufficient opportunity to carry out such replacement works. Replaced parts shall become Vendor's property. Vendor shall bear the costs of remedying the defective parts at its premises

25. Liability for Warranted Qualities:

The warranted qualities of the supply are only those qualities which have been expressly specified as such in the WO such warranties are valid until the expiry of the warranty period. Evidence of the warranted qualities shall be provided by any possible acceptance test. If the warranted qualities are not achieved or only partially achieved, Client may initially only require the Vendor to carry out the necessary remedial works. Client shall give Vendor the necessary time and opportunity to do so. If such remedial works fail completely or in part, Client may do reasonable reduction in price. If however, the defects are so major that they cannot be remedied within a reasonable time and provided the supply cannot be used for its specified purpose, or if such use is considerably impaired, Client may refuse acceptance of the defective part of the supplier, if partial acceptance is economically not justifiable, terminate the WO / Contract in such event. Vendor shall be liable for reimbursement of the sums paid to it for the parts of the supply affected by the termination.

25. Quality:

Quality is of paramount importance Contractor shall carry out work to highest quality matching with international standards as approved by Client with strict compliance to all required IS Standards/ Codes referring to the details as provided in the BOQ / list of make / Specifications In case of any discrepancy observed by the Client in the work done by the vendor will rectified / replaced immediately without any extra cost to Client

Technical Conformance: The scope of work executed shall be in strict conformity with the Technical Specifications specified in the WO / quote submitted and subsequent agreements between the Parties

Codes and Standards: All required codes & standards detailed in the specification are to be adhered to. The work shall be completely furnished in all respects in accordance with the technical specification as per the acceptable codes & standards

26. Unloading:

Contractor shall be responsible for unloading, stacking, storage of client supplied material at site as per the direction and entire satisfaction of Client And the cost of unloading and

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security of both client & contractor supplied materials are included in the quoted price. Contractor will do necessary arrangement to unload the material safely and secure storage.

27. Accommodation & Material Storage:

Client will provide the land for Labour accommodations and the contractor will be responsible for making all arrangement in the designated land to build Labour hutment. Institute will give the space for material storages / site office, Contractor shall be responsible for making it lockable and Security for the same till handover. The store/ office can be shift from place to place during the course of execution as per the site requirement on the instruction of Client The cost for the same shall be part of the quoted rates/ contract amount

28. Electricity & Water:

Electricity for illumination of site, labour hutment premises and for running of equipment and machinery for construction purposes and water for consumption of labour and for construction to be provided by Client on monthly payment basis at one point within the site premises to the contractor. Contractor shall be responsible to make all necessary arrangements for further distribution from the source to the work front

If due to any reason Electricity is not be available, then Contractor has to arrange the same for lighting & testing purpose. At no circumstance work should not hamper due to lack of electricity

29. EHS (Environment, Health & Safety):

Contractor shall follow the EHS requirements strictly. Contractor shall be required to maintain the site and surroundings in a neat and orderly manner free from debris and unwanted material. Construction debris, slush and unwanted material to be disposed off from site on daily basis without accumulating at site and not to cause hindrance to other scope of works. Location and neighborhood specific interventions, as outlines have to be implemented from the start

Minimum PPE such as safety helmet, safety shoe / gumboot, reflective jackets should be used by every person working at site. The site must be a no smoking, no tobacco zone.

The Contractor shall at all the times carry out Works in clean and tidy manner. Contractor shall keep all the materials properly stacked and organized. The Contractor shall keep the site free of slush and without any stagnation/ ponding of water. The site shall be kept in a continuous dewatered state with the agreed infrastructure of pumps for dewatering mobilized from the start of works and made/ kept operational at all times along with back-up equipment, as per directions of Client. On completion of the Works, Contractor shall properly clean the Site and its surroundings.

30. CAR Policy:

The Contractor shall take out Contractors' All Risk (CAR) Insurance Policy and other necessary policies in the name of the contractor beneficiary DAV S.C.B MEDICAL PUBLIC SCHOOL, Katak. The original policies shall be deposited with the Client within 10 days of execution of the Contract The policies shall cover the clauses as under.

Contractor's All Risk Insurance Policy to cover the following:

30.a. The minimum value of CAR Policy shall be
   i. the Contract Value plus 10% of the Contract Value

30.b. Coverage of the policy should include, amongst others, force majeure or any

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other disturbances which could cause an impact on the Project/ execution of Works.

30.c. All Plant, machinery and infrastructure owned and provided by the Contractor for the Project.

30.d. Damage insurance against loss or damage by fire or any other disaster

30.e. The insurance should cover cost of all material free supplied by Client.

31. Third Party Insurance including Cross Liability:

Third Party Insurance including Cross Liability to cover for any damages to third party, to a limit of not less than Rs.10,00,000 /- (Rs. Ten Lacs only) in each accident and to a limit of not less than Rs.25,000,000 (Rs. Two-fifty Lacs only) for all accidents. The Policy shall be valid up to the end of the Defects Liability Period, including any extensions granted and shall include any damage to the properties including surrounding and adjacent properties and/or injury including death to the persons of the general public and anyone else deemed to be third party. Provided that the limits specified above shall operate only as a specification of minimum limits for insurance purposes, but shall not in any way limit the Contractor's liability to terms of this clause to the limit(s) specified.

Period of policies: All Insurance covers mentioned above shall be kept valid during the completion period of Contract plus the defects liability period. Copies of said Insurance Policies, in format approved by the Client, shall be lodged with the Client, or Client's authorized representative prior to Contractors start of Work on site.

32. Workmen's compensation Insurance:

Workmen's compensation Insurance to the limit to which compensation may be payable under the laws of the Republic of India [Policy to cover Contractor's liability under Workmen's Compensation Act 1923, Minimum Wages Act 1948, Contract Labour (Regulation and Abolition) Act 1970 and other relevant Acts listed elsewhere to cover the Contractors liability under the applicable labour laws. This shall be for the period up to Final Completion of the Work. The Contractor's liability under this policy shall also include the Sub-Contractors liability under the applicable labour laws.

33. Failure to insure:

If the Contractor fails to comply with the terms of this clause, the Client may effect the insurance and deduct the expenses made for insurance from the amount payable to the Contractor or may, at his option, refuse payment of any amount payable to the Contractor until the Contractor complies with this condition.

34. Indemnity & Insurance:

The contractor for this contract shall perpetually keep the institute indemnified against all losses, defects, action, claims, cause of action on any account whatsoever, and shall insure the constructed works against failure, fire, riots, civil commotion and natural calamity till such time the work is continuing. Workmen's compensation and third-party Insurance shall be made by the contractor & submitted along with every RA Bill.

35.Termination by Client:

Client shall be entitled to terminate the WO with and/or without cause. If Client terminates the WO with 'Cause' then Client shall be entitled to seek refund of the advance amounts paid to Contractor in terms hereof. The termination is without prejudice to any rights or claims which may have accrued to Client prior to the date of termination.

In the event of termination without cause, Client shall pay to the Contractor vices any part of the Contractor remuneration which has accrued prior to the termination that has not been paid (including any unbilled fees for services provided or reimbursable expenses).

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Contractor agrees that, at such time as Contractor is no longer providing services to Client in terms hereof, or at the expiration of this WO, whichever shall first occur, Contractor will deliver to Client (and will not keep in possession, recreate or deliver to anyone else) any and all devices, records, data, software, notes, reports, proposals, lists, correspondence, specifications, materials, equipment, other documents or property, or reproductions of any afore mentioned items developed by Contractor pursuant to this WO or otherwise belonging to Client.

36. Termination by Contractor:

Termination by Contractor shall not be entitled to terminate the WO without cause and shall be required to give at least 30 days prior written notice before termination.

37. Non-Assignability:

Contractor shall not assign its rights and obligations under this WO without the prior approval of Client

38. Settlement of Disputes & Arbitration:

Decisions, directions, clarifications, measurements, drawings and certificates with respect to any matter the decision for which is specially provided for by these or other special conditions to be given and made by the Client's Representative or by the Project Manager are matters which are referred to hereinafter as exempted matters and shall be final and binding upon the Contractor
and shall not be set aside on account of non-observance of any formality, any omission, delay or error in proceeding in or about the same or on any other ground or for any reason and shall be without appeal. They shall be specifically excluded from the scope of arbitration proceedings hereinafter referred to

Subject to the aforesaid in the event of any dispute or difference between the parties hereto as to the construction or operation of this Contract, or the respective rights and liabilities of the parties on any matter in question, dispute or difference on any account or as to the withholding by the Client of any certificate to which the Contractor may claim to be and entitled to or if the Client fails to make a decision within the aforesaid time, then and in any such case, but except in any of the exempted matters referred to in the above clause, the Contractor after 90 days of its presenting final claim on the disputed matters, may demand in writing that the dispute or difference be referred to and settled by a sole arbitrator mutually acceptable to the Client and the Contractor. In the event the parties fail to appoint a mutually acceptable arbitrator, the parties shall approach the appropriate court for appointment of the sole arbitrator. The award of the Arbitrator, shall be final and binding on both the parties. The provision as per the Arbitration and Conciliation Act 1996 shall apply to such arbitration. The arbitration venue shall be at Bhubaneshwar, Odisha. The procedure for the arbitration shall be determined by the arbitrator. Costs of such arbitration shall be equally shared between the Client and the Contractor

The Contractor shall not, except with the consent in writing of the Client, in any way delay the carrying out of the Work by reason of such matter, question or dispute being referred to arbitration, but shall proceed with the work with all due diligence and shall, until the decision of the arbitrator is given, abide by the decision of the Client and no award of the arbitrator shall relieve the Contractor of its obligations to adhere strictly to the Client, the Client's Representative's or the Project Manager's instructions with regard to the actual carrying out of the Work except as specifically affected by such award.

Contractor indemnifies and shall keep the Client indemnified from any claim, demand, action or proceedings of any kind, against Client in respect of loss, injury or damage to

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property or person (including anything caused by the contractor's employees or equipment or machinery deployed/ kept at site) ,injury or damage to property or person (Client's property, neighbour's property or person) arises out of any negligent act, error or omission by the contractor, its workers, agents or employees

39. Statutory Requirements (Policies & Insurance) (as applicable):

In carrying out its obligations under this Contract, including the performance of Work, Contractor shall at all times comply with all applicable state/central government and municipal laws, regulations, standards, and codes. Contractor shall obtain all applicable permits, licenses, exemptions, consents and approvals required for the Contractor to manufacture and deliver the

Goods and perform the Services. at their own cost and submit the relevant documents to Client from time to time along with the RA Bill or as and when required by Client. The documents as per government norms such as specified below but not limited to,

i. Labour registration in Odisha
ii. Employees State Insurance
iii. Provident Fund for workers
iv. Medical / health insurance (if required)
v. Third party Insurance Policy / CAR (Contractors' All Risk) Policy
vi. Workmen Compensation Policy

40. Submittals by Contractor:

The following documents shall be submitted by Contractor within 15 (fifteen) days from the date of issue of WO/ Contract.

i. Copy of all Policies, Insurance and other applicable documents as per WO / Contract.
ii. Bar Chart & PERT chart before commencement of work and the progress chart during the course of work.

41. Notices:

All notices demands or other communications required to be given or made hereunder shall be in English language, in writing and shall be sent to the representatives of respective Party by email to be followed by courier of international repute or registered post to be addressed to the intended recipient thereof at its address given in this WO or to such address as any Party may, from time to time, notify to the other Party in writing.

42. Special Notes:

a) The contractor shall take the prior approval from Institute 's Engineer/ Architect for subletting the job even if the same is to a specialized agency.
b) In case Institute 's Engineer/ Architect rejects a particular work the tenderer shall remove the same within two days and no payment shall be made for such work.
c) The electrical installation works are to be carried out by engaging licensed electrical contractor. The successful tenderer shall submit the photocopy of Electrical Contractor's license at the time of execution of work. The copy of license of Electrical Supervisor and electricians also are to be submitted.
d) The contractor shall submit the single line drawing of electrical installations/wiring of completed work along with the final bill.
e) The contractor shall submit the Test Certificate of the Electrical installations carried out by him as per requirement of local Electrical supply Authority, Indian Electricity Rules, and Indian Electricity Act.
f) Being an operational school campus, the Contractor shall ensure that there shall not be any problem, disturbance in classes/ offices/other areas/floors as the work is to be executed in working school.

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g) The Contractor shall depute one electrician and one helper during office hours to avoid any electrical breakdown in electrical installation.

h) The contractor has to carry out the job strictly as per specification spelt out in the bill of quantities, the drawings, instructions that may be issued by the Engineer-in-charge and the specification of the Bureau of Indian Standards, National Building Code etc.

i) In case of any discrepancy between the specifications and the drawings, the details mentioned in the specifications / Bill of quantities may be taken as final.

j) The work will be awarded to the Agency that has given the lowest rate (L-1).

Additionally, the L2 Bidder will be asked to confirm if he can do the work at the lowest rates quoted by L1. If the L2 gives a letter confirming that he is ready to carry out the work at the lowest rate (L1), then it can be considered to award the work to him also. The condition of this award of work to L2 on the rates of L1 will be as under:

i. When L1 denies in writing that he does not have capacity to do the work.
ii. When it is observed by Institute 's Engineer/ Architect, that L1 has not completed more than 3 sites in time.
iii. When defects are found in the work of L1.
iv. When L1 does not take up the work as assigned within the stipulated time period as mentioned in the work order.

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FORM OF TENDER

To,

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Dear Sir,

Re: "Tender for Construction of additional 3rd floor over existing G+2 School Building Katak, Odisha."

Having examined the plans/ specifications and schedule of quantities, and satisfying ourselves as to various conditions stated, I/we hereby offer to execute the above works at the mentioned rates which I/we have quoted for the items in the Schedule of Quantities.

I/ we enclose demand draft/ Bankers's cheque for ...../- (Rupees ..... only) towards Earnest Money deposit for the execution of the works at my/ our tendered rates, together with any variations at later stage, should the work be awarded to me/ us.

In the event of this tender being accepted, I/we agree to enter into and execute the necessary contract required by you. I/ We do hereby bind myself/ourselves to forfeit the aforesaid deposit of ...../- (Rupees ..... only) in the event of our refusal or delay in signing the Contract Agreement. I/we further agree to execute and complete the work within the time frame stipulated in the tender documents.

I/we agree to pay GST, Sales Tax, Works Contract Tax, Excise Tax, Octroi, VAT, Duties, all Royalties and all other applicable taxes prevailing and be levied from time to time on such items for which the same are Leviable and the rates quoted by me/us are inclusive of the same.

I/we understand that you are not bound to accept the lowest tender or bound to assign any reasons for rejecting our tender. I/we further understand that Institute may award Contracts to more than one Contractor and that I/ we shall make no claims whatsoever if Institute accept only a part of my/ our tender. We unconditionally agree to Institute preconditions as stipulated in the tender documents.

Institute reserves the right to terminate our contract and forfeit the Earnest money deposit paid by us in additions to recovery of all the dues to the Institute from the payment receivable by us. Further we may also be barred from tendering in future for the Institute and its subsidiaries.

Any Commercial disclosure in the Envelope No. 1 will disqualify me/ us without any further scrutiny.

I/we enclose herewith the completed tender documents duly signed in duplicate.

Yours truly,

[To be signed by the Authorized Representative of Tenderer holding Power of Attorney]

Place:

Date :

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Specification

Note:

a. These specifications are to be read in conjunction to relevant drawings & details.
b. All the item of works mentioned are to be complete in nature & without any additional payment for any of the fittings, fixtures, workmanship or missing item.
c. In case of any doubt or clarification, same may be referred to the consultant for any clarification.
d. All the items of work shall confirm to the specifications of **DSR – 2023** Latest edition.
e. For all Non– Schedule items, specifications needs to be approved from the architect in writing prior to execution at site.

Civil Work

SN	Item		Item Description
1	**Demolition**		
		a.	Demolishing cement concrete manually/mechanical means including disposal of material as per direction of Engineer - in - charge.
		b.	Demolishing brick work manually/mechanical means including stacking of serviceable material and disposal of unserviceable material as per direction of Engineer-in-charge.
2	**Earth Work**		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains, including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.
3	**Sand Filling**		Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.
4	**PCC**		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:3:6 (1 Cement: 3 coarse sand (zone-III) derived from natural sources: 6 graded stone aggregate 40 mm nominal size derived from natural sources)

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5	**Centering and shuttering**	Centering and shuttering of forms for placing the concrete shall be including strutting, propping etc. and removal of form for using Steel Shuttering / Cup-lock / Acro as prop & bracing and 18mm thick film faced shuttering ply (Green Ply Make) / steel plate as RCC form work. The type, shape, size quality and strength of all materials of which the forms are made shall be subject to the approval of the Engineer-in-charge, Forms shall be used wherever necessary to confine the concrete to shape it to the required lines or to ensure against contamination of the concrete by materials caving or sloughing in adjacent surfaces left by excavation. Forms shall have sufficient strength to with stand the pressure resulting from placement and vibration of concrete and shall be maintained rigidly in correct position. Forms shall be substantial and unyielding so that concrete placed in them confirm the design dimensions and contours Forms shall be sufficiently tight to prevent leakage of mortar from concrete. Additional forms ties shall be used as and when necessary and inclusive of necessary treatment or coating of forms. After the forms are erected before any concrete is placed, the forms shall be inspected for line, level and grade with respect to the structure, adequacy of bracing, free from dirt fixtures, Keyways and openings, etc.
6	**Concrete**	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete. Concrete of M35 grade as per mix-design.
7	**Brick Work**	a. Brick work with non-modular fly ash bricks conforming to 15:12894, class designation 10 average compressive strength in Cement mortar 1 :5 (1 cement: 5 Coarse sand) b. Half brick masonry with non-modular fly ash bricks conforming to 15:12894, class designation 10 average compressive strength in Cement mortar 1 :4 (1 cement: 4 Coarse sand)
8	**Internal Plastering**	15mm thick cement plaster 1:5 (1 cement: 5 fine sand) over the internal wall surface including cost of all materials labour and T&P etc complete
9	**External Plastering**	12mm thick cement plaster to Outside wall surface in 1:5 (1 cement: 5 fine sand) cement mortar over the wall surface including cost of all materials labour and T&P etc complete.
10	**Ceiling Plaster**	6mm thick cement plaster 1:3 over the RCC ceiling surface including cost of all materials labour and T&P etc complete.

11	**Putty Works** (Wherever Mentioned)	Providing and applying white cement-based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.
12	**Cement Primer**	Applying one coat of water thinkable cement primer of approved brand and manufacture on wall surface.
13	**Inside paint**	
	a. Acrylic emulsion (Wherever Mentioned)	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.
	b. Acrylic Distemper (Wherever Mentioned)	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour : two or more coats over and including water thinkable priming coat with cement
14	**Outside Painting**	Finishing walls with Acrylic Smooth exterior paint of required shade. Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm
15	**Enamel Paint**	Painting MS / Wood Work with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade (two or more coats) including a coat of approved steel primer.
16	**Flooring**	
	a. Vitrified Tile	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm 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., complete.
	b. Grouting (Wherever Mentioned)	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge
	c. Granite Flooring	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.(For Concourse / Veranda / Staircase). Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent
	d. Kota Stone Flooring	i) Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement: 4 coarse sand), 25 mm thick

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		ii) Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete
	e. Ceramic Floor Tile	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sq.m. including pointing the joints with white cement and matching pigments etc., complete.
	f. Ceramic Wall Tile	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.
17	**WPC Door Frame**	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) door Frames/ Chowkath comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibres (wood powder/ rice husk/wheat husk) and nontoxic additives (maximum toxicity index of 12 for 100 gms) fabricated with mitered joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/ cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm2, modulus of elasticity 900 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia. and length complete as per direction of Engineer-In- Charge. (M.S hold fast/lugs or SS dash fasteners shall be paid for separately). Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e. depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.
19	**Flush Door**	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 32 mm thick including ISI marked Stainless Steel butt hinges with necessary screws, hardware, locks, door closers etc. & lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters along with 1.0mm thick decorative veneer on both faces.

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21	**WPC Door Panels** (Wherever Mentioned)	Providing and fixing factory made single extruded 30.0 mm Thick WPC (Wood Polymer Composite) solid decorative type flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibres (wood powder/ rice husk/wheat husk) and nontoxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/ mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/ borer proof, water/moisture proof and fire retardant. WPC to be laminated with PVC foil of minimum 14 microns thick of approved design pasted with hot melt adhesive on both faces of shutter and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: The item includes stainless steel butt hinges, necessary S.S screws and all necessary hardware.)
22	**uPVC Window**	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge.
24	**MS Grill**	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.
25	**Staircase Handrail**	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in charge.
26	**Plinth Protection**	Making plinth protection 50mm thick of cement concrete 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) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.

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27	**Waterproofing Coat to terrace and toilet Slab**	Cleaning the surface and Applying Elastomeric Cementous Acrylic polymer-based **Glass Fibre Reinforced Waterproofing Membrane Coating system SIKA TOP SEAL 109hi** as per manufacturer's recommendation to the mother slab including all cost of labour material T & P Etc Complete and as the direction of Engineer In charge.
28	**Terrace Grading**	Grading roof for water proofing treatment with Screed concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12 mm nominal size) with minimum thickness of 50 mm.
	P.H. / Water Supply Work	
Sanitary Installations		
27	**Waste Water / Soil Waste Pipe**	Providing and fixing uPVC pipes of different dia as per IS class B (I.S.13592) in both horizontal & vertical stack & as per approved design, fixed by using approved bracket / lugs / Plugs / saddles/ Clamps etc. at regular intervals, including all bents, tees, sockets etc. & jointing with , adhesive, sealant, seal ring, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.
28	**Gully Trap**	Providing and fixing square-mouth FRP / GRC gully trap complete with grating & brick masonry chamber with water tight FRP cover with frame of 300 x300 mm size (inside), With Fly Ash (non-modular) bricks of class designation 10
29	**Manhole**	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 90x80 cm and 45 cm deep including FRP cover with frame 455x610 mm internal dimensions. With Fly Ash (non-modular) bricks of class designation 10
30	**Half stall urinal**	Providing and fixing white vitreous China flat back half stall urinal of size 580x380x350 mm with Concealed Stop Cock flushing arrangement cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required.
31	**Modesty Panel**	Providing and fixing of moulded Granite modesty panels of size 1200 X 400 mm with rounded corners, in between urinals & embedded within wall.
32	**WC**	Providing and fixing white vitreous China extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white PVC cistern with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete.

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33	Health Faucet	Providing and fixing of Hand Shower (Health Faucet) - Jaquar - ALD-573 with 8mm Dia, 1.2-Meter-Long Flexible Tube & Wall Hook etc. all complete including all materials, labours etc. complete as per direction of Engineer in charge.
34	Toilet Fixtures	SS soap Dish Holder / Mirrors at Basin Points as per details
35	Wash Basin	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: White Vitreous China Wash basin size 630x450 mm. Note- Arrangement for Counter top / Bottom shall be provisioned as per the details. SS bottle trap shall be provisioned for all basins
36	Towel Rail	Providing and fixing of Single Towel Rail Model - ACN-1111 SM, 600mm long Stainless Steel etc. all complete including all materials, labours etc. complete as per direction of Engineer in charge.
37	Shower Rose	Providing and fixing C.P. brass shower rose with 15- or 20-mm inlet 150 mm diameter (Jaquar Make)
38	Rain Water Pipe	Providing and fixing on wall face unplasticized Rigid PVC rain water pipes conforming to IS : 13592 Type A, along with uPVC pipe clips including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.
39	Rain Water Pipe	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) FRP cover with frame 455x610 mm internal dimensions, R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 fine sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design: Inside dimensions 455x610 mm and 45 cm deep for single pipe line, With fly ash (non-modular) bricks of class designation 10
Water Supply		
40	OHT	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.
41	CPVC Supply Line	
	a. Concealed Works	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes of various diameter, having thermal stability for hot & cold-water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge, including cutting chases and making good the walls etc.

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	b. CPVC Supply Line	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold-water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.
	Electrical Works	
42	**Wiring to Points**	
	a.	Recessed wiring light point/fan point/exhaust fan point / Call bell point in 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of isi marked with 20 mm. dia non-metallic PVC flexible conduct with 5 Amp,250V modular type switch ISI marked and ceiling rose ISI marked mounted on modular box having front modular cover of suitable size, modular box with 1.5 sq.mm. FR PVC insulated single core multistrand cupper conductor as earth wire including all accessories and connection as per direction of engineer in charge. (Make of wire Finolex/ L&T/ Anchor/ Havels/ HPL/ VGUARD)
	b.	Supply of all required materials and wiring to modular type 20 AMP plug socket points with 2 (1x4 sq.mm.) PVC insulated copper wire run inside 19mm dia PVC/polythene conduit pipe laid on surface of wall/ceiling along with 1 (1x 2.5 sq.mm.) PVC insulated copper wire as earth continuity conductor complete in all respect including making good to the damages caused and complete as per the direction of Consultant and Engineer-in-Charge.
	c.	Supply of all required materials and fixing to modular type 15A socket outlet with 16-20A DOL starter for AC with termination of 2 (1x4 sq.mm.) PVC insulated copper wire run inside 19mm dia PVC/polythene conduit pipe laid on surface of wall/ceiling along with 1 (1x 2.5 sq.mm.) PVC insulated copper wire as earth continuity conductor including making good to the damages caused and complete as per the direction of Consultant and Engineer-in-Charge.
		Supply and fixing of Modular metal box on surface or in recess with suitable size of modular cover in front including providing and fixing of 6Amp plug with 6Amp modular switches connection and 16Amp modular switches connection as per requirement.
		Supplying & fixing of modular switch / socket / Regulator / Call bell push, TV socket, Telephone socket etc

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43	**Distribution Box**	Supply, delivery, installation, testing and commissioning of L.T. indoor wall/floor mounted type distribution boards as per design made out of 2mm thick CR sheet metal duly acid treated, primered and painted with 2 coats of enamel paint of approved shade, having hinged door and compartmental arrangement for each equipment and busbar chamber on the top of the panel running horizontal throughout its length duly dust, damp and vermin proof having provision for cable/conduit entry, earthing stud as per specification mentioned below, duly factory wired conforming to the relevant ISS and as per special conditions of contract and making good the damages caused complete as per direction of Consultant or Engineer-in-charge.
44	**Submain Wiring**	
	a.	Recessed wiring to submain with 2X2.5 sq.mm., 1.1KV PVC insulated, single core multistrand copper wire of ISI marked conforming to IS-694 / 1990 in 20mm dia non - metalic flexible conduit heavy duty. Conforming to IS-6946 / 1973 and earth continuity with 1x1.5sq.mm. dia 1.1KV PVC insulated single core multistrand copper wire complete with all accessories and connections as per direction of Consultant or Engineer-in-charge. (from DB to SB)
	b.	Recessed wiring to submain with 2X4sq.mm. 1.1 KV PVC insulated, single core multistrand copper wire of ISI marked, conforming to IS - 694 /1990 in 20mm. Dia non-metallic flexible conduit heavy duty conforming to IS-6946 /1973 and earth continuity with 1x 2.5sq.mm. dia 1.1 K V PVC insulated single core multistrand copper wire complete with all accessories and connections as per direction of Consultant or Engineer-in-charge. (from MDB to AC points)
	c.	Recessed wiring to submain with 4 X 6 sq.mm. 1.1 KV PVC insulated, single core multistrand copper wire of ISI marked, conforming to IS - 694 /1990 in 20mm. Dia non-metallic flexible conduit heavy duty conforming to IS-6946 /1973 and earth continuity with 1x 4.0 sq.mm. dia 1.1 K V PVC insulated single core multistrand copper wire complete with all accessories and connections.
45	**Main Incoming**	Supply, delivery, laying and end termination of different sizes PVC insulated, PVC sheathed, armoured aluminium conductor cable of 1100 volt grade (4-Core / 2-Core) laid directly under ground/on surface of wall/column/existing RCC/ stoneware / through G.I. or Hume pipe as the case may be including excavation of earth in all kinds of soil and rock, sand cushioning, brick, protective covering , back filling the trench, end termination but excluding the cost of GI pipe / Hume pipe complete as per direction of engineer -in-charge or consultant.
46	**Outdoor Control**	Supply of all required material and mounting of the 8"x6" junction box duly painted with a separate waterproof encloser box mounted on RCC coupon/MS clamp having 1no 6 Amp SP MCB and 1 no neutral for controlling circuit for area lighting and complete with all respect as per the instruction of engineer-in-charge /consultant.
47	**Earthing**	
	a.	Supply of materials, laying underground / walls /floor, making end termination and testing of 25 x 3 mm GI strip to be laid from the main panel to subpanel /BDB as per direction of Engineer-in-charge or Consultant.

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	b.	Supply of all required materials installation of maintenance free earth electrode made out of 40 mm dia class 'B' G.I. Pipe of 3.0 meter long with arrangements for fitting / termination of G.I. Flat / Wire with soil, water pouring arrangements, brick masonry encloser on top with removal C.I. cover with chemical soil and complete with labour for excavation of pit conforming to I.S. : 3043/1987 and as per direction of Consultant or Engineer-in-charge.
48	**Data Networking**	
	a.	Supply and fixing of information out let box suitable for RJ 45 / dual type RJ-45 terminals including mounting box (MS / PVC) and top cover to be fixed in concealed manner in partition by necessary bolts & nuts or as directed at site (MAKE Digi-LINK/ AMP/ HCL)
	b.	Supply and laying of E-CAT 6 UTP Cable for the data through the existing PVC / MS conduit. Rate to include for termination on either end or as directed (Make D-LINK, HCL)
49	**Lightning Protection**	
	a.	Supply and fixing earthing with GI earth pipe 3mtr long 40 mm dia ISI marked including accessories and providing masonry enclosure with cover plate having looking arrangement and watering pipe etc. with charcoal and salt as per requirement & including standard earthing as per Govt. Specification & providing and fixing 30mm x 6mm GI strip
	b.	Providing and fixing of lightning conductor finial made 25mm dia 300 mm long, GI tube, having single prong at top, with85mm dia 6mm thick GI base plate including holes etc. complete as required.
	c.	P/ Providing and fixing of testing joint. Made of 20mm x 3mm thick GI strip, 125mm long with 4 no's of G I bolts, check nut and spring washer complete as required.
50	**FITTING & FIXTURES** (Internal Building)	
	a.	Supply, fixing of LED tube light (make Havells / Phillips)
	b.	Supply, Fixing of LED bulb on fitting with all connection (make Havells / Phillips)
	c.	Supply of Ceiling fan 1200mm sweep BLDC ceiling fans
	d.	Supply of 300mm exhaust fan with making hole on wall where ever required.

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Annexure -1

(Itemized Rates of Various Items for execution of any items not mentioned in the scope of work)

Sl. No	Item	Unit	Rate
a	Excavation	CuM	
b	Sand Filling	CuM	
c	PCC (1:3:6)	CuM	
d	RCC (M-30) including shuttering & formwork	CuM	
e.	Reinforcement works	Qt.	
e	Brick Work with Fly Ash Brick in 1:6 Cement Mortar	CuM	
f	15mm thick Plaster in 1:6 Cement Mortar	Sq.M.	

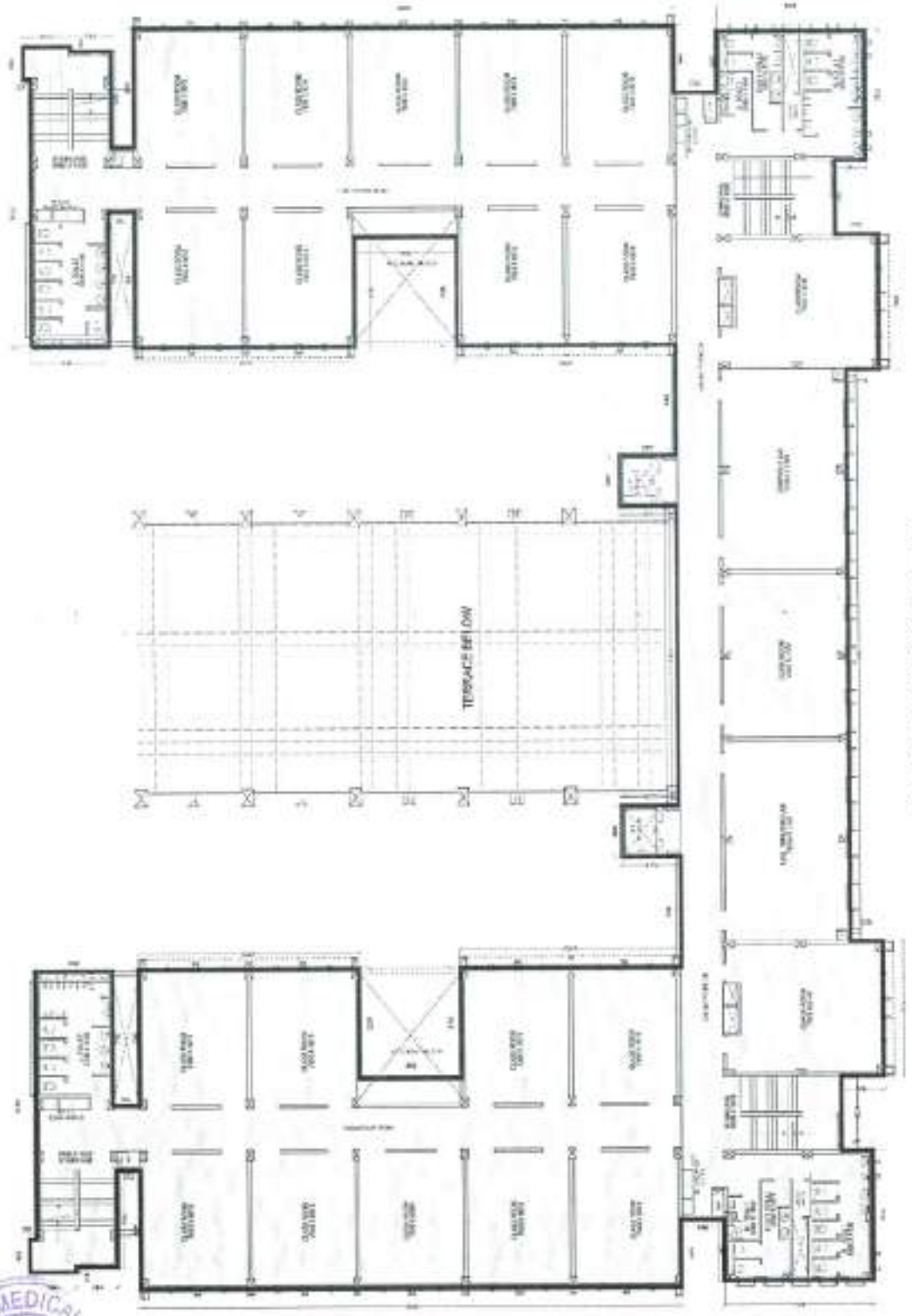
Signature of Bidder with Seal

DAV S.C.B. MED... PUBLIC SCHOOL

By-41

Annexure -2

(Indicative Area of Construction)

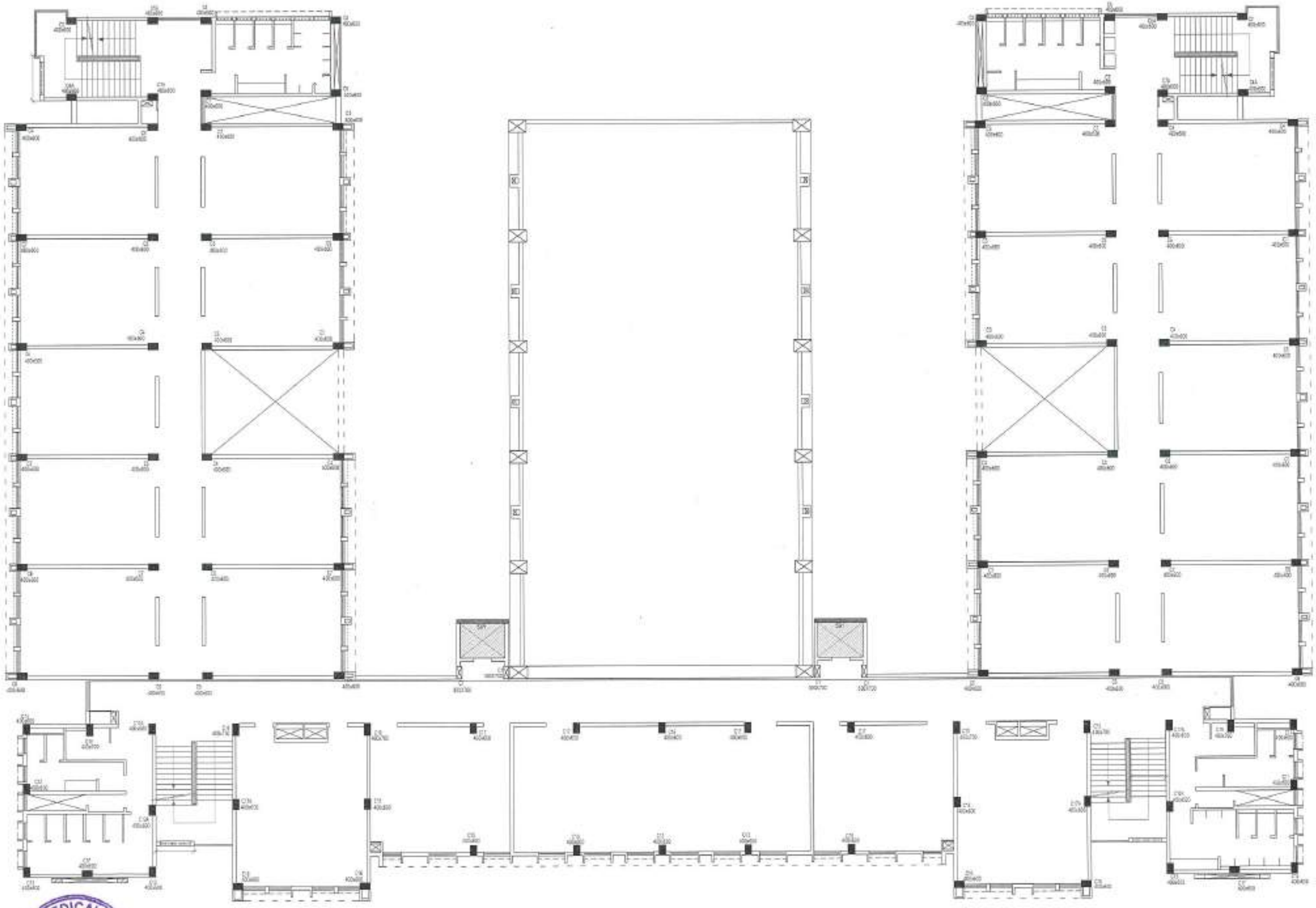


THIRD FLOOR PLAN

THE BLUE LINE BOUNDARY DENOTES THE AREAS TO BE CONSIDERED IN THE CALCULATION OF THE BUILT UP AREA FOR ALL CALCULATION PURPOSE

DAV S.C.B MEDICAL PUBLIC SCHOOL

Pg-42



NOTES

1. All dimensions are in mm unless otherwise noted.
2. Electrical connections must comply with the design norms of the requirements of IS 456-2000.
3. All authority shall be to IS 1200 Final size and fittings as requirements of IS : 1786.
4. Site has been designed to take seismic values in a degree occupancy zones, Zone III, considering 10MM reduction as per IS 1893:2016.
5. Wind load as calculated as per IS 875 (Part 3)-2015.
6. Live load of floor & roof as per considered as per IS 875 (Part 2)-1987 (R-2008) for design of structure.
7. Suitable damping shall be provided as per IS 1893:2016.
8. Clear cover to all reinforcement shall be as per the following:
   i. Column – 40mm.
   ii. Beam & Staircase main bar – 30mm.
   iii. Floor, wall slab – 15mm.
9. Minimum development length, Ld shall be 1.6 x 40 Ø for all bars in tension. (Ø = dia. of bar).
10. End anchorage 45mm reinforcement in seismic and for 90Ø of bar.
11. Lap length and bend point shall be as per IS 456-2000 for clear to Mud.
12. Where a main beam supports a secondary beam, the opening of shear reinforcement shall not be more than 150mm within the support width of the main beam.
13. The concrete & mortar mix shall be strictly as per the approved drawing.



14. Hold dimension to floor level marked.

PROJECT
PROPOSED ADDITION OF 3RD FLOOR TO EXISTING G+2 SCHOOL BUILDING OF DAV PUBLIC SCHOOL, CUTTACK

CLIENT
DAV PUBLIC SCHOOL CHANDRASEKHARPUR

DRAWN BY	STATUS
PRANATI	FOR TENDERING
CHECKED BY: ANSHUMAN	
DATE: 06.07.2026	NORTH
SCALE: 1:100	

DRAWING TITLE
STRUCTURAL DETAILS-1
(4TH SLAB ROOF BEAM LAY OUT PLAN)

DRG. NO: CI/SCB-DAV/AD/STRL/01/2026

STRUCTURAL ENGINEER
ER. SANTOSH SAHOO

ARCHITECT
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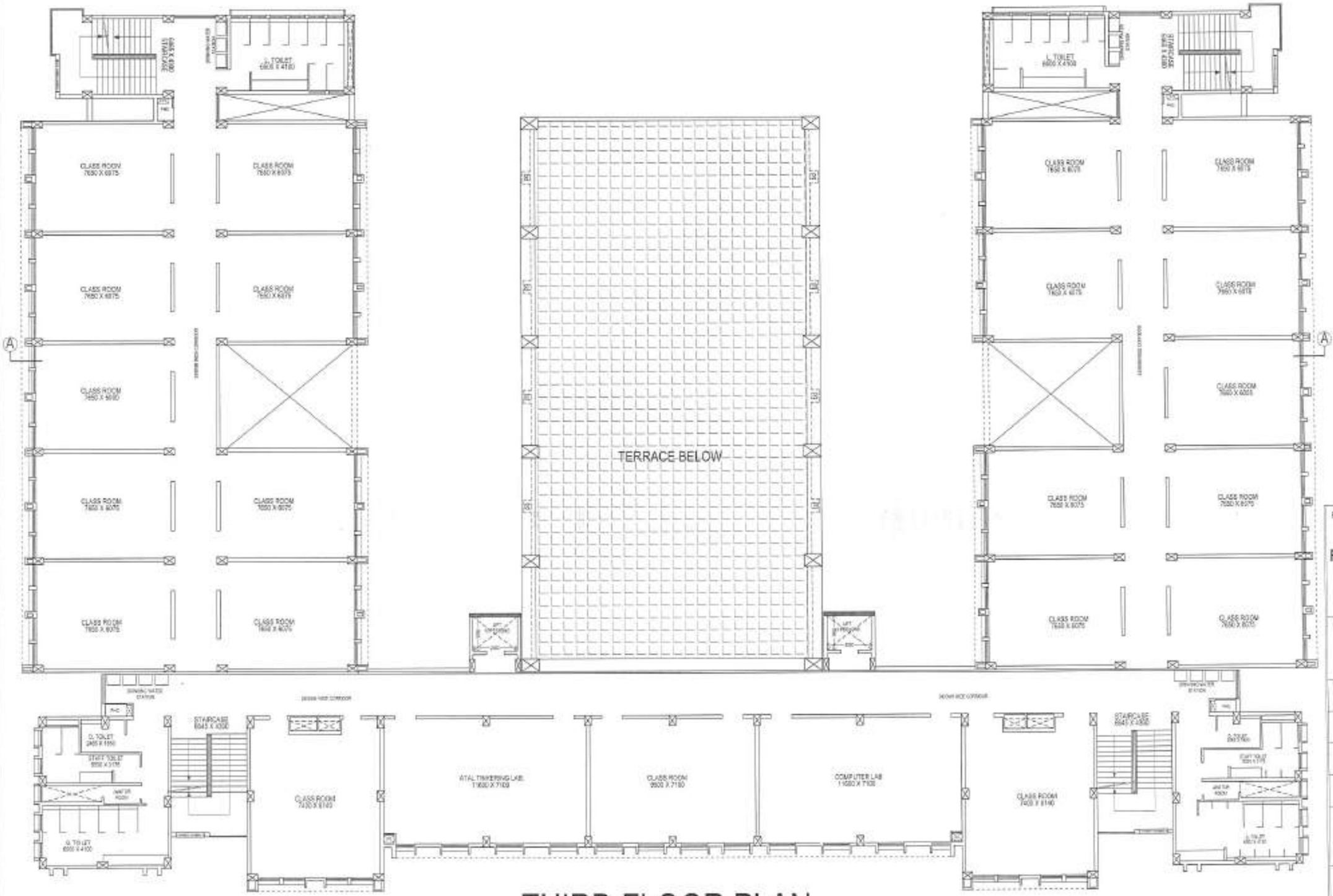
DAV S.C.B. MEDICAL PUBLIC SCHOOL

EXISTING 2ND FLOOR COLUMN DETAILS



THIRD FLOOR PLAN

DAV S.C.B. MEDICAL PUBLIC SCHOOL

PROJECT

PROPOSED ADDITION OF 3RD FLOOR TO EXISTING G+2 SCHOOL BUILDING OF DAV PUBLIC SCHOOL, CUTTACK

CLIENT

DAV PUBLIC SCHOOL CHANDRASEKHARPUR

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DRAWING TITLE

THIRD FLOOR PLAN

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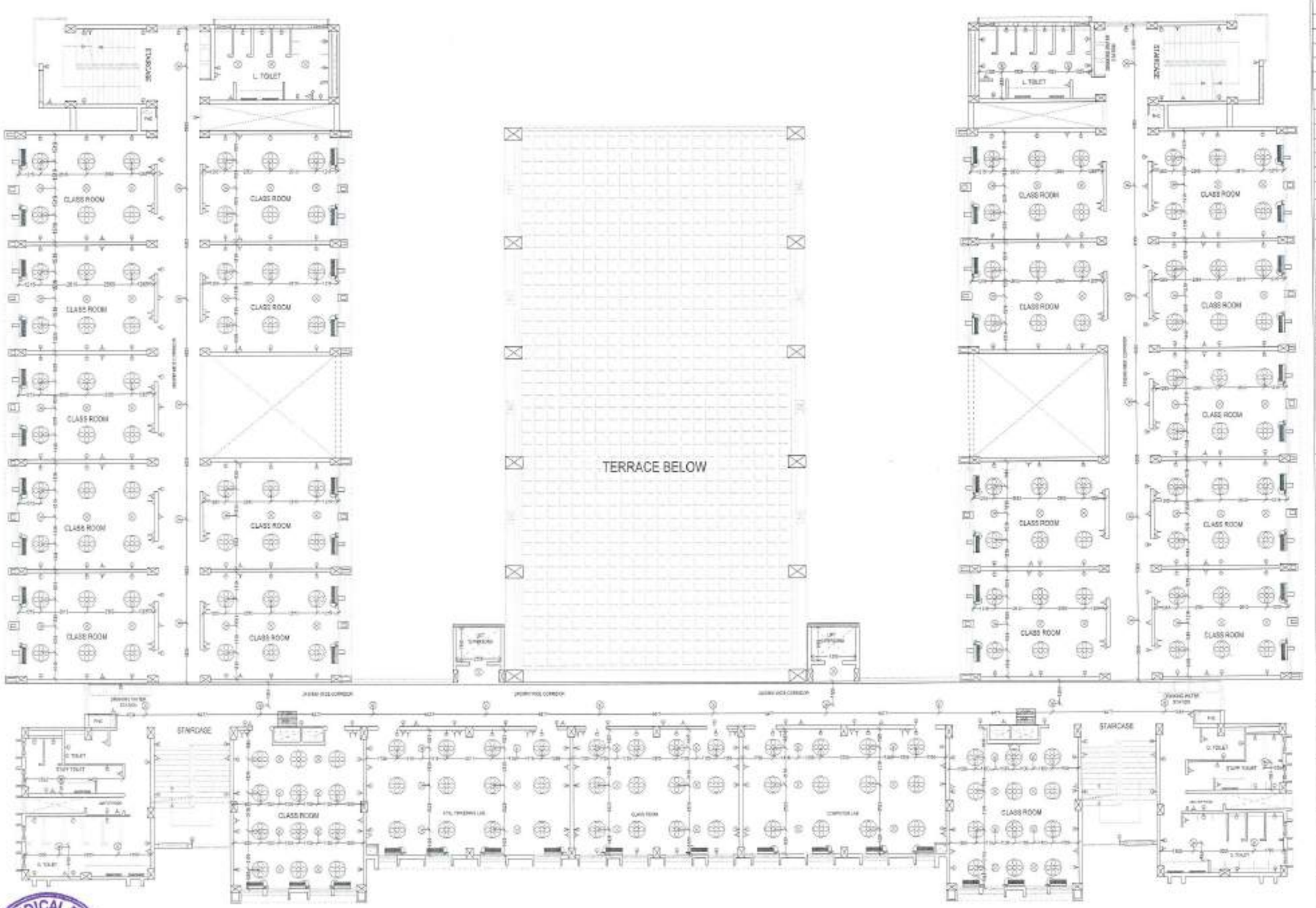

THIRD FLOOR ELECTRICAL FIXTURE LAYOUT PLAN

LEGENDS

SYMBOL	DESCRIPTION	HEIGHT
	CEILING FAN	-
	CEILING LIGHT	-
	SWITCH BOARD WITH 5 AMP SOCKET	1000
	AIR CONDITIONER OUTSIDE POWER OUTLET	750 2000
	COMPUTER POINT (RJ-45 / CAT-6a)	400
	TELEPHONE SOCKET	400
	BRACKET LIGHT	2500
	ANTENNA SOCKET	400
	5 AMP SOCKET SEPERATELY	1000
	MIRROR LIGHT	2100
	BELL PUSH	1000
	EXHAUST FAN	-
	15 AMP SOCKET	TOILET 1000 KITCHEN 1000
	C.O.B. CORRESPONDING AS MENTIONED	2200
	MAIN PANEL BOARD	-
	SWITCH BOARD	-
	M.S. CEILING HOOK	-
	WALL MOUNT FAN	2000
	5 AMP DOUBLE SOCKET MOBILE CHARGING SOCKET	-

NOTES

1. ALL DIMENSIONS ARE IN METERS & IN LIMITS UNLESS OTHERWISE STATED.
2. ALL HEIGHTS MENTIONED ARE FROM FFL TO BOTTOM OF FIXTURE.
3. ALL CIRCUIT DIMENSIONS ARE TO BE APPROVED FOR APPROPRIATE TYPE SIZE & MATTAGE PRIOR TO EXECUTION OF VALUE CEILING WORK.
4. ALL COMPUTER POINTS SHOULD BE PROVIDED FOR 2 NOS 6X SOCKETS CONTROLLED BY 1 SWITCH & 1 NO FLUSH SOCKET OR SEPARATE BOARD.
5. POSITION OF FIXTURES ARE INDICATIVE ONLY. LOCAL ADJUSTMENTS MAY BE ADOPTED AS PER SITE CONDITION.
6. POSITION OF MAIN PANEL IS TO BE DECIDED AT SITE CONSIDERING THE SUITABILITY PROXIMITY OF EXISTING POWER CIRCUIT.

PROJECT

PROPOSED ADDITION OF 3RD FLOOR TO EXISTING G+2 SCHOOL BUILDING OF DAV PUBLIC SCHOOL, CUTTACK

CLIENT

DAV PUBLIC SCHOOL CHANDRASEKHARPUR

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DATE: 23.11.2026	NORTH
SCALE: 1:100	

DRAWING TITLE

ELECTRICAL FIXTURE ARRANGEMENT DETAILS

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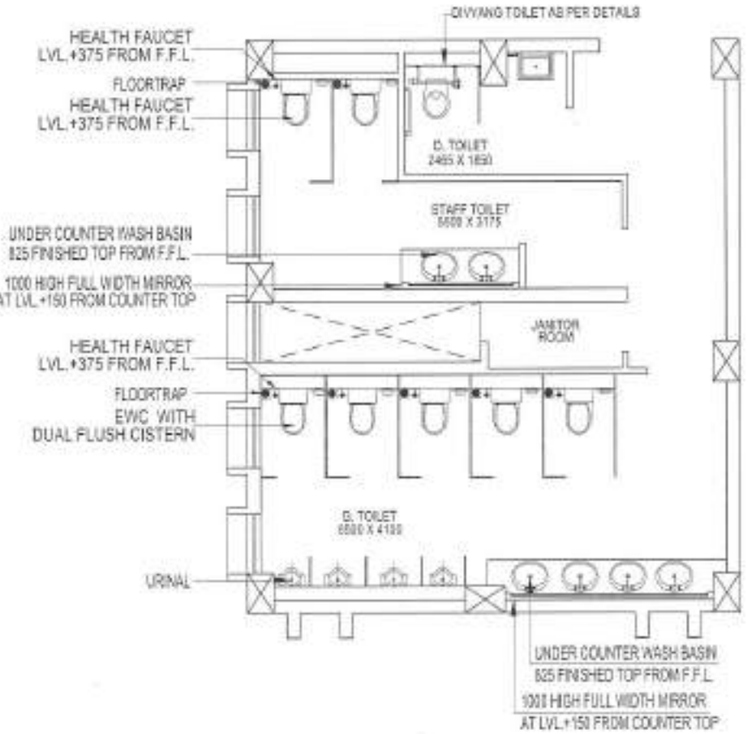
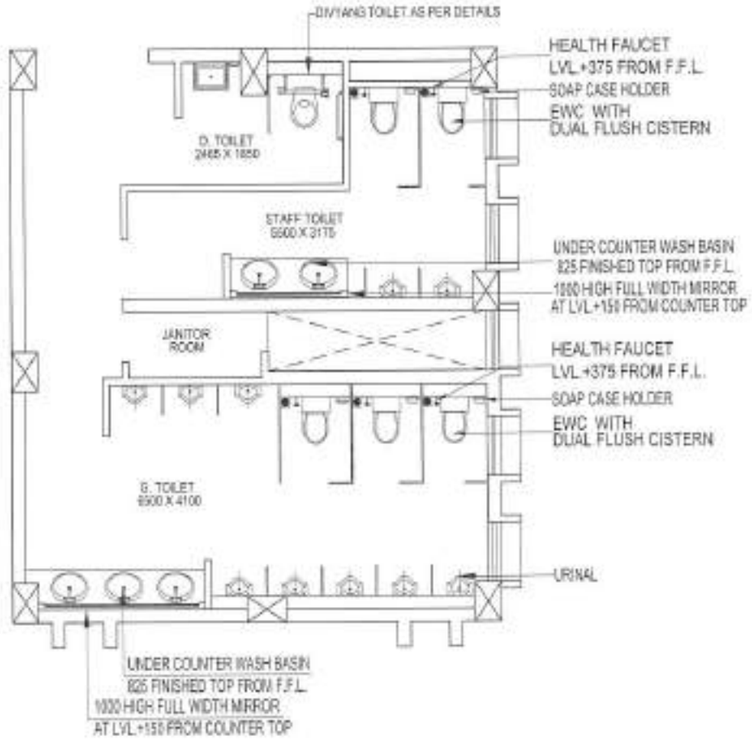
DAV S.C.B. MEDICAL PUBLIC SCHOOL CTC



TOILET FIXTURE ARRANGEMENT DRTAILS OF -T1



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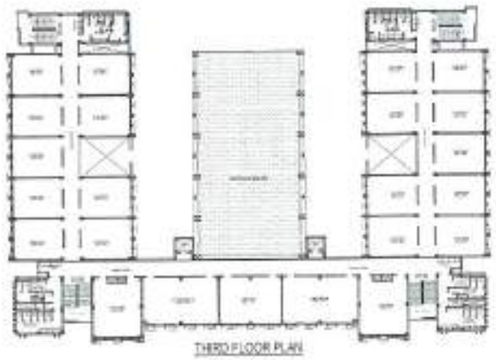

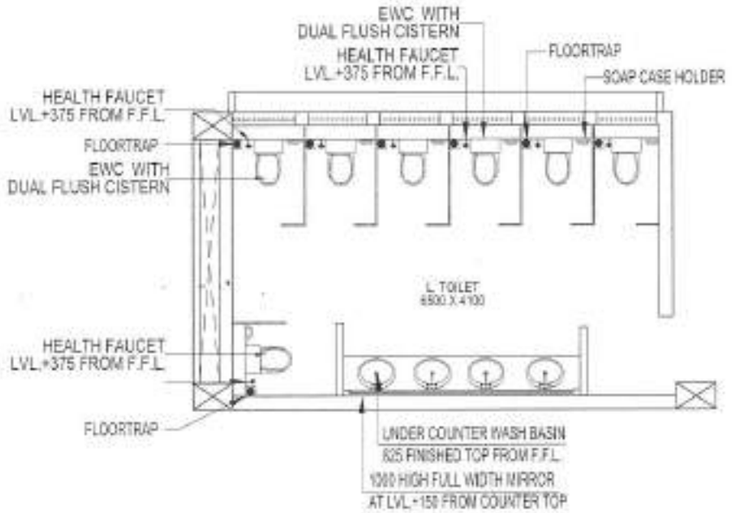

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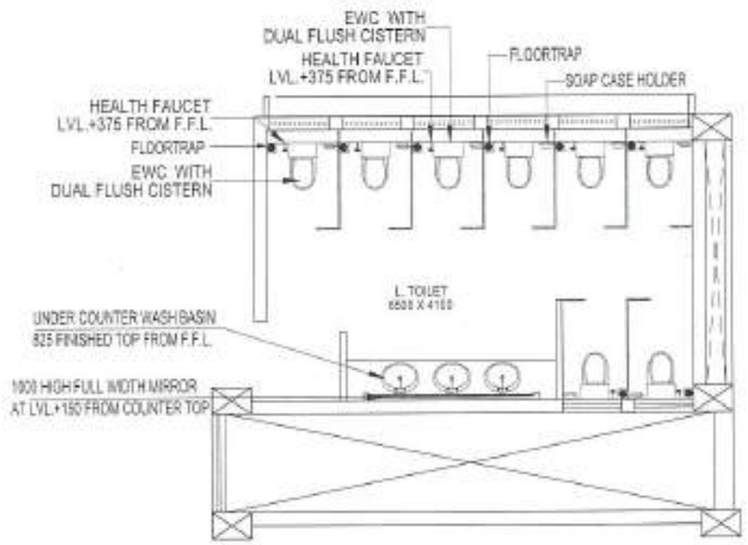

TOILET FIXTURE ARRANGEMENT DRTAILS OF -T4

DAV S.C.B. MEDICAL PUBLIC SCHOOL
CTC

PROJECT
PROPOSED ADDITION OF 3RD FLOOR TO EXISTING G+2 SCHOOL BUILDING OF DAV PUBLIC SCHOOL, CUTTACK

CLIENT
DAV PUBLIC SCHOOL CHANDRASEKHARPUR

DRAWN BY: PRANATI	STATUS: FOR TENDERING
CHECKED BY: ANSHUMAN	
DATE: 23.11.2020	NORTH
SCALE: 1:100	

DRAWING TITLE
TOILET FIXTURE ARRANGEMENT DETAILS

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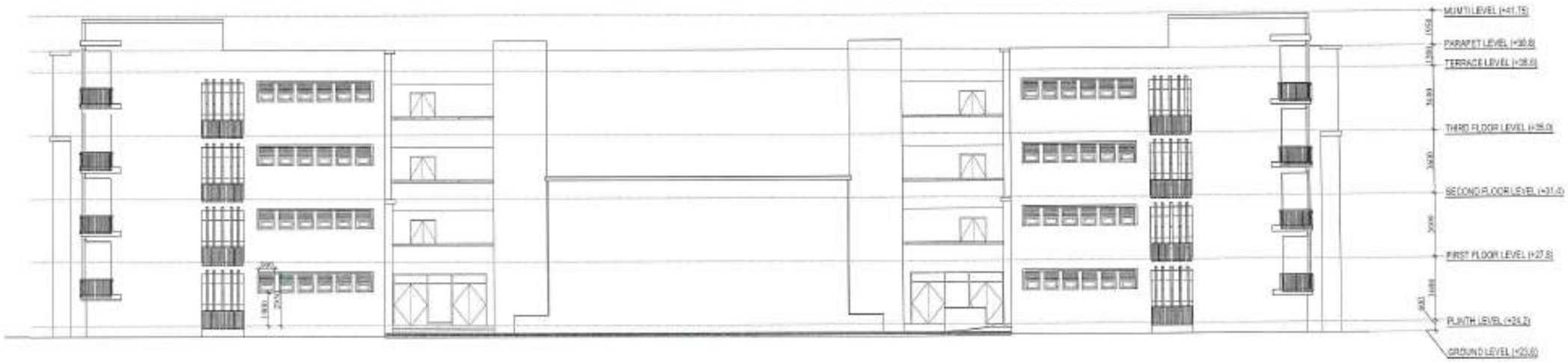

REAR ELEVATION G+3



FRONT ELEVATION (G+3)

DAV S.C.B. MEDICAL PUBLIC SCHOOL

PROJECT

PROPOSED ADDITION OF 3RD FLOOR TO EXISTING G+2 SCHOOL BUILDING OF DAV PUBLIC SCHOOL, CUTTACK

CLIENT

DAV PUBLIC SCHOOL CHANDRASEKHARPUR

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DATE: 23.11.2020	NORTH
SCALE: 1:100	

DRAWING TITLE

FRONT & REAR ELEVATION DETAILS

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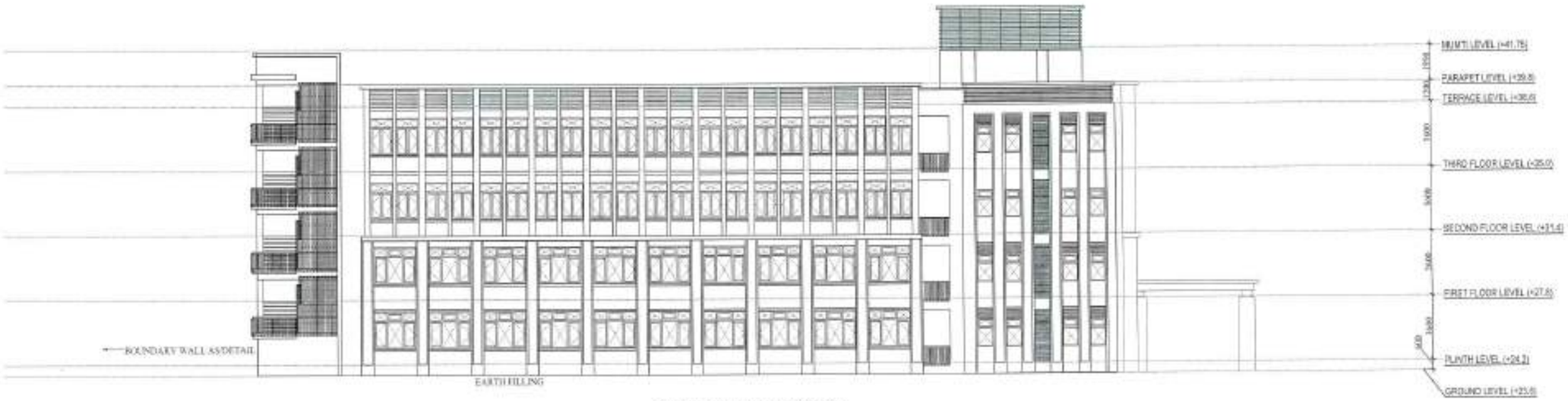
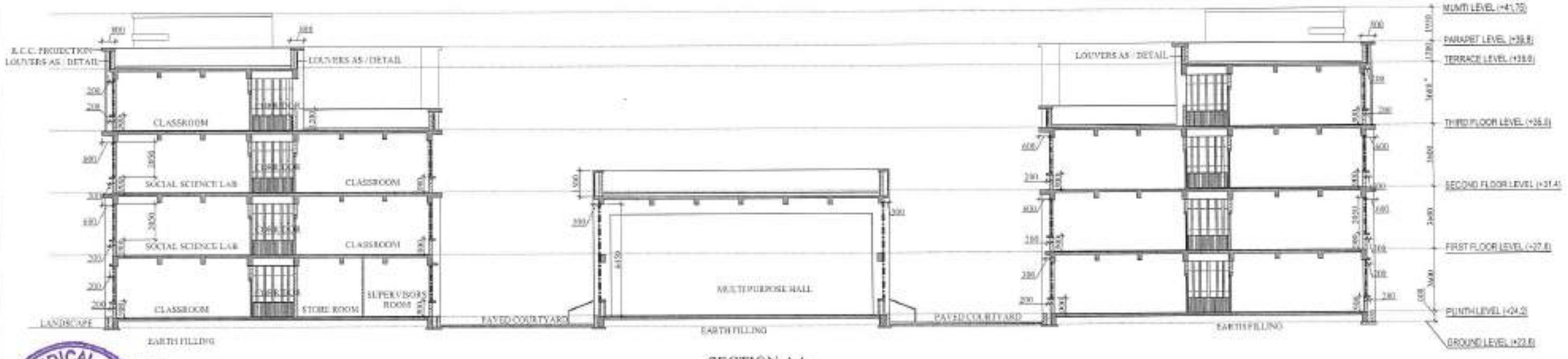


SIDE ELEVATION (G+3)



SECTION AA

DAV S.C.B. MEDICAL PUBLIC SCHOOL
CTC

PROJECT
PROPOSED ADDITION OF 3RD FLOOR TO EXISTING G+2 SCHOOL BUILDING OF DAV PUBLIC SCHOOL, CUTTACK

CLIENT
DAV PUBLIC SCHOOL CHANDRASEKHARPUR

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CHECKED BY: ANSHUMAN	
DATE: 23.11.2020	NORTH
SCALE: 1:100	

DRAWING TITLE
SIDE ELEVATION & SECTION DETAILS

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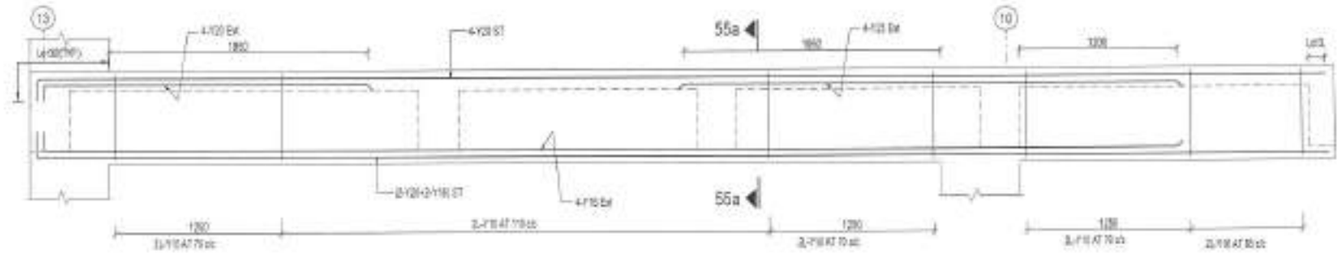
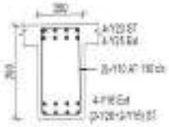
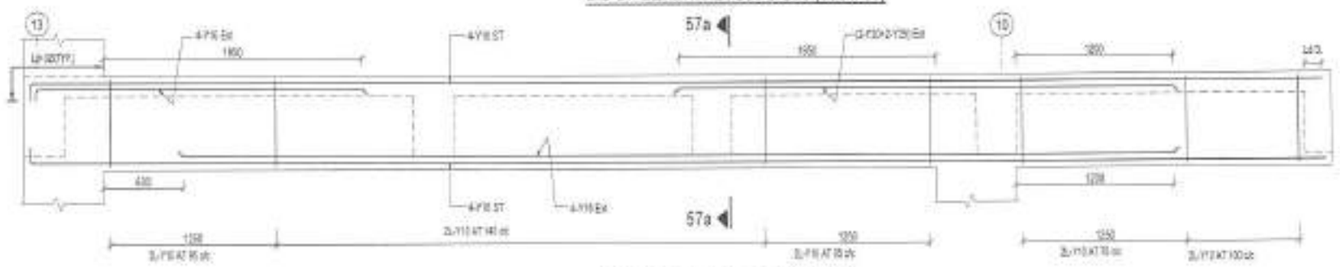
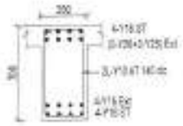




SEC :55a-55a

L.S OF BEAM MKD. B55 & B56 (350x700)





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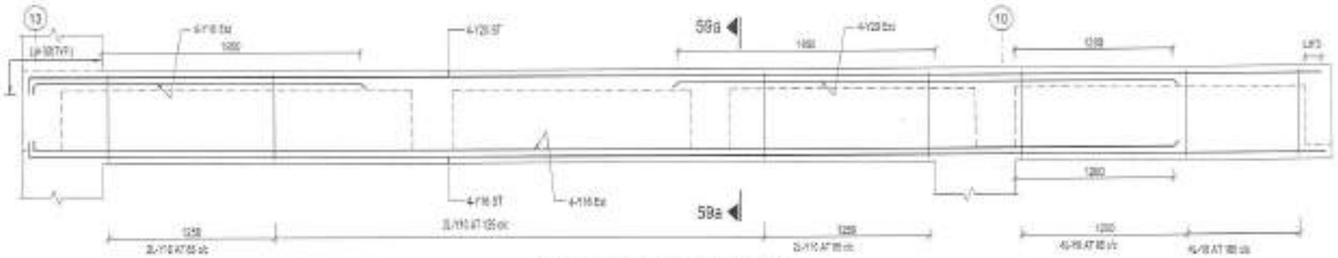

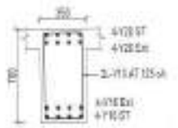

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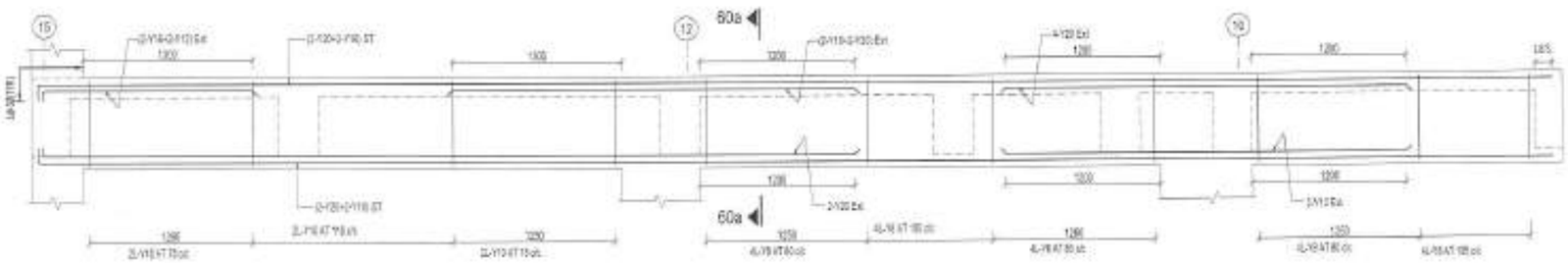
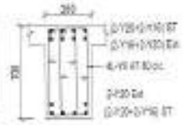
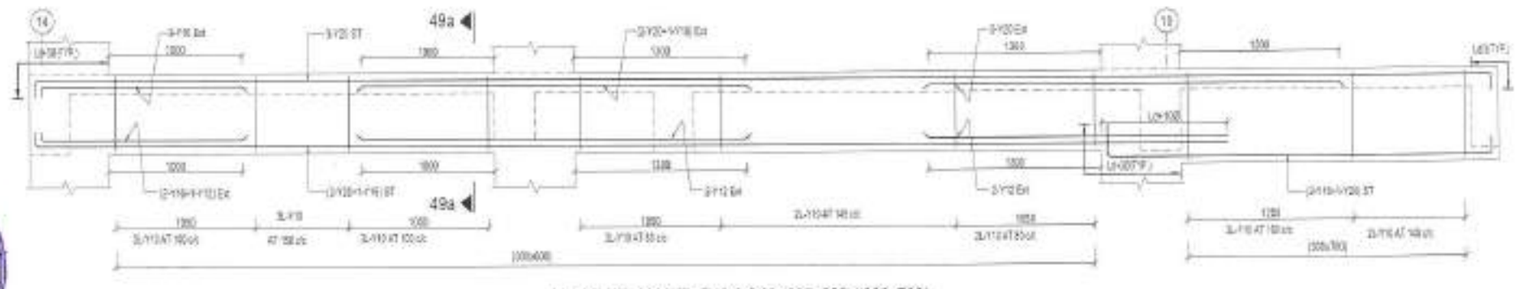
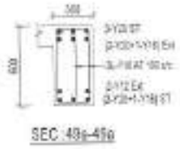




SEC :60a-60a

L.S OF BEAM MKD. B60 (350x700)





SEC :49a-49a

L.S OF BEAM MKD. B49 & B62 (300x600)/(300x700)

NOTES

1. All dimensions are in mm unless otherwise stated.
2. Reinforcement shall conform to IS 1786:2008 and design according to the requirements of IS 456:2000.
3. All working load shall be IS 875 (Part 2) and shall conform to the requirements of IS : 1893.
4. Structure has been designed for seismic zone as per IS 1893 (Part 1) 2002 and assigned to seismic Zone - III considering Soil Type - II. Importance factor as per IS 1893:2016.
5. All RCC work shall be done in accordance as per IS : 456-2000 (Latest).
6. Live load on floor & roof has been considered as per IS : 875 (Part 2) 1987 (Latest).
7. Design and structural drawings are to be read in conjunction with architectural drawings.
8. Specific reading shall govern in all cases.
9. Clear cover to reinforcement shall be as per the following:
   i. Column - 40mm
   ii. Beam & Staircase waist slab - 25mm.
   iii. Floor slab - 20mm.
10. Minimum development length shall be 50d for HYSD bars in tension and compression.
11. Splice length shall be 50d for HYSD bars in tension and compression.
12. End anchorage of main reinforcement in beam shall be 90 deg bend.
13. Lap length and development length in concrete shall be as per IS 456:2000.
14. Where a main beam crosses a secondary beam, the opening of main reinforcement shall not be more than 150mm with the consent with the structural consultant.
15. The position & size of openings shall be strictly as per the approved drawing.

PROJECT
PROPOSED ADDITION OF 3RD FLOOR TO EXISTING G+2 SCHOOL BUILDING OF DAV PUBLIC SCHOOL, CUTTACK

CLIENT
DAV PUBLIC SCHOOL CHANDRASEKHARPUR

DRAWN BY: PRANATI	STATUS: FOR TENDERING
CHECKED BY: ANSHUMAN	
DATE: 23.11.2025	NORTH
SCALE: 1:100	

DRAWING TITLE
STRUCTURAL DETAILS-III (4TH SLAB ROOF BEAM DETAILS)

DRG. NO
CI/SCB-DAV/WD/STRL/04/2025

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DAV S.C.B. MEDICAL PUBLIC SCHOOL CTC

L.S OF BEAM MKD. B36 (300x600)

L.S OF BEAM MKD. B36 (300x600)

SEC 39a-39a

L.S OF BEAM MKD. B40 (300x600)

L.S OF BEAM MKD. B36 (300x600)

SEC 40a-40a

L.S OF BEAM MKD.B40 (300x600)

L.S OF BEAM MKD. B40 (300x600)

SEC 50a-50a

L.S OF BEAM MKD. B50 & B61 (350x700)

SEC 52a-52a

L.S OF BEAM MKD. B53 (350x700)

SEC 54a-54a

L.S OF BEAM MKD. B54 (350x700)

NOTES

1. All dimensions are in mm and unless otherwise noted.
2. Reinforcement concrete shall be M30 mix design conforms to the requirements of IS 456:2000.
3. All reinforcing steel shall be Fe 500D high yield strength as per requirements of IS : 1786.
4. Standard hooks, bends, lapping of bars, cover to reinforcement, development length, lap splices etc. shall conform to IS 456:2000 and IS 13920:2016.
5. Nominal cover to all reinforcement shall be as per IS 456:2000.
6. Concrete mix design & proportioning shall be done as per IS 10262:2019 (latest revision).
7. Concrete shall be laid in continuous layers not exceeding 300 mm and shall be properly compacted by vibrators.
8. Clear cover to reinforcement shall be as follows:
   a. Column - 40mm.
   b. Beam & Slab (exposed face) - 25mm.
   c. Slab (soffit) - 20mm.
9. Minimum reinforcement in slab as per clause 26.5.2.1 of IS 456:2000.
10. Lap splices shall not be provided at points of maximum bending moment.
11. Lap length and development length shall be as per IS 456:2000.
12. Where unless otherwise specified, all beams shall be provided with 2 nos. 12mm dia hanger bars.
13. The position & thickness of walls shall be strictly as per the approved drawings.

PROJECT
PROPOSED ADDITION OF 3RD FLOOR TO EXISTING G+2 SCHOOL BUILDING OF DAV PUBLIC SCHOOL, CUTTACK

CLIENT
DAV PUBLIC SCHOOL CHANDRASEKHARPUR

DRAWN BY: PRANATI	STATUS: FOR TENDERING
CHECKED BY: ANSHUMAN	
DATE: 23.11.2025	NORTH:
SCALE: 1:100	

DRAWING TITLE
STRUCTURAL DETAILS-4e
(4TH SLAB ROOF BEAM DETAILS)

DRG. NO
CI/SCS-DAV/WD/STRL/04e/2025

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D.A.V. S.C.B. MEDICAL PUBLIC SCHOOL

L.S OF BEAM MKD. B24 (300x600)

L.S OF BEAM MKD. B26 (300x600)

L.S OF BEAM MKD. B28 (300x600)

L.S OF BEAM MKD. B30 (200x600)

L.S OF BEAM MKD. B30 (300x600)

L.S OF BEAM MKD. B31 (200x600)

L.S OF BEAM MKD. B31 (300x600)

L.S OF BEAM MKD. B31 (300x600)

L.S OF BEAM MKD. B31 (300x600)

L.S OF BEAM MKD. B31 (300x600)

L.S OF BEAM MKD. B27 (300x600)

SEC : 26a-26a

SEC : 30a-30a

SEC : 31a-31a

SEC : 27a-27a

NOTES

1. All dimensions are in mm unless otherwise noted.
2. Reinforcement and concrete shall be designed and detailed as per latest code IS 456:2000.
3. All reinforcing steel shall be Fe 500D conforming to the requirements of IS: 1786.
4. Stirrups shall be provided at even intervals and bent up at 45° or 90° as required to resist the shear. Closed U.D. stirrups @ 0.65d shall be provided at supports. Stirrups shall be provided as per IS:13920:2016.
5. Mild steel reinforcement shall be as per IS: 432 (Part I) 1982.
6. Lap length and development length of bars shall be as per IS:456:2000 (para 26.2.1 and 26.2.2.1).
7. Ductile detailing shall be as per IS:13920:2016.
8. Clear cover to all reinforcement shall be as per the following:
   a. Column - 40mm.
   b. Beam & Staircase waist slab - 25mm.
   c. Floor roof slab - 20mm.
9. Minimum development length/lap length shall be 50d, & not less than 45 dia. or smaller (in tension).
10. Only one lap of main reinforcement is to be allowed at the location where the bar is subjected to maximum stress.
11. Where a cross beam supports a Secondary beam, the spacing of cross reinforcement shall not exceed 4 nos. 10mm c/c at the support within the cross beam.
12. The position & thickness walls shall be strictly as per the approved drawing.



13. Type assessment for design and construction.

PROJECT

PROPOSED ADDITION OF 3RD FLOOR TO EXISTING G+2 SCHOOL BUILDING OF DAV PUBLIC SCHOOL, CUTTACK

CLIENT

DAV PUBLIC SCHOOL CHANDRASEKHARPUR

DRAWN BY: PRANATI	STATUS: FOR TENDERING
CHECKED BY: ANSHUMAN	
DATE: 23.11.2020	NORTH
SCALE: 1:100	

DRAWING TITLE

STRUCTURAL DETAILS-4c
(4TH SLAB ROOF BEAM DETAILS)

DRG.NO

CI/SCS-DAV/WD/STRL/04c/2020

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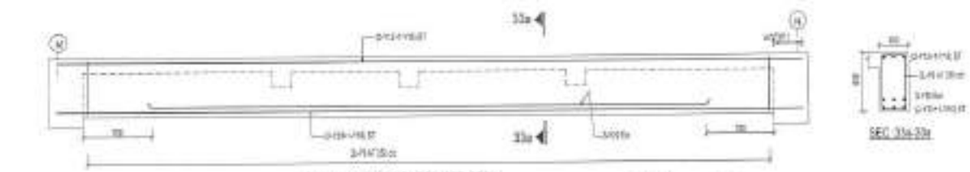
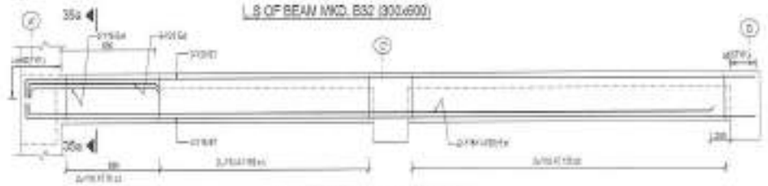
DAV S.C.B. MEDICAL PUBLIC SCHOOL



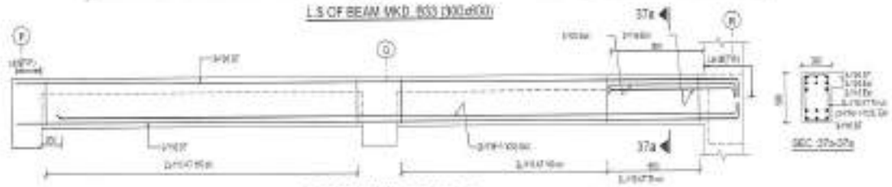
L.S OF BEAM MKD. B32 (300x600)



L.S OF BEAM MKD. B33 (300x600)



L.S OF BEAM MKD. B35 (300x500)



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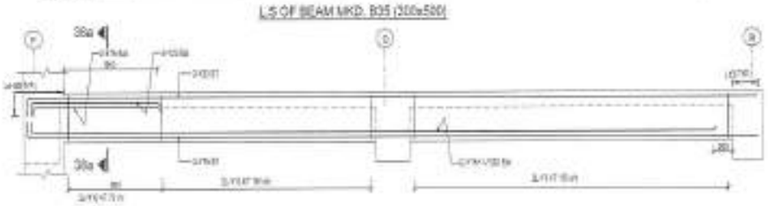
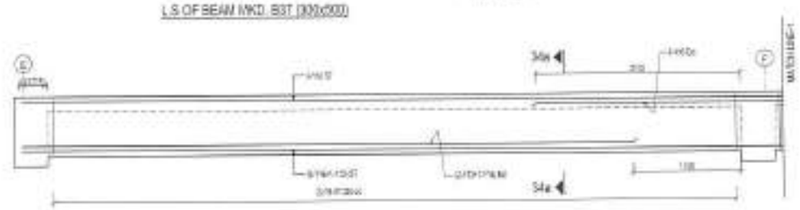
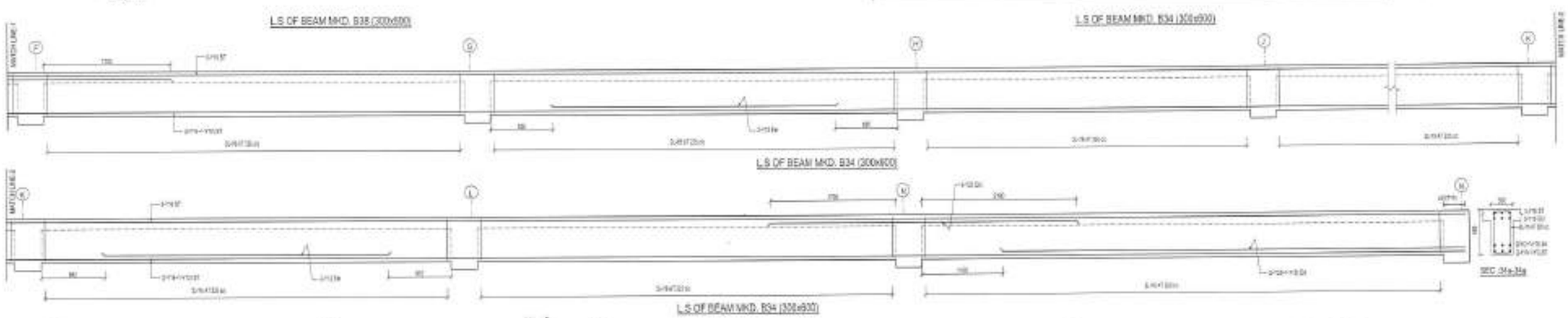


L.S OF BEAM MKD. B38 (300x600)



L.S OF BEAM MKD. B34 (300x600)



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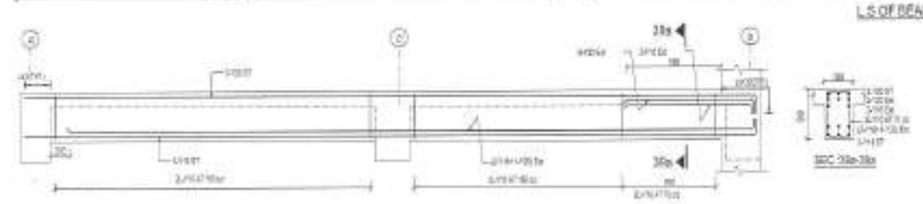
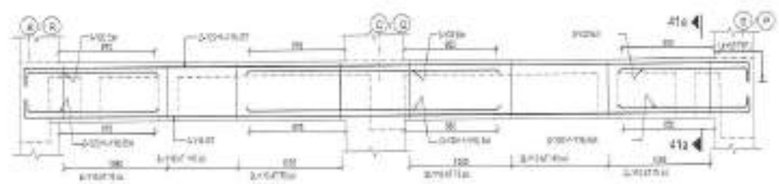
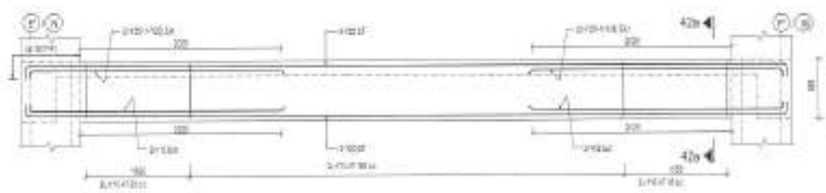


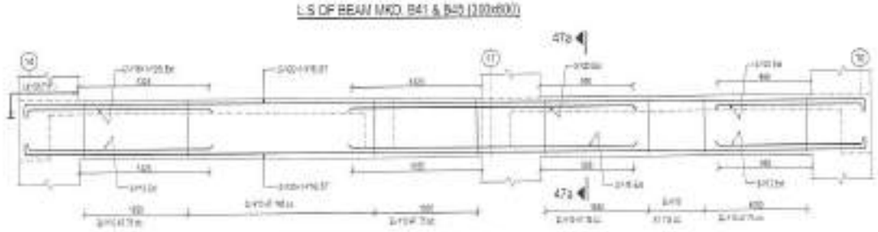
L.S OF BEAM MKD. B39 (300x600)



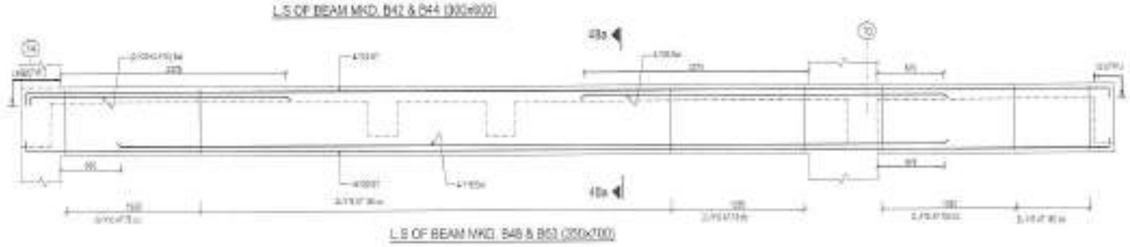
L.S OF BEAM MKD. B41 & B45 (300x600)



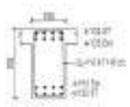
L.S OF BEAM MKD. B42 & B44 (300x600)



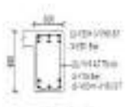
L.S OF BEAM MKD. B47 & B64 (300x600)



L.S OF BEAM MKD. B48 & B63 (250x700)



SEC 43a-43a



SEC 47a-47a



C.S. OF BEAM MKD. B10 & B20(SIMILAR)

NOTES

1. All dimensions are in mm and in mm unless otherwise noted.
2. Reinforced cement concrete shall be M25 (1:1.5:3) design mix as per requirements of IS 456:2000.
3. All reinforcing steel shall be Fe 500D grade as per IS 1786 & the requirements of IS : 2751.
4. Welding of reinforcement shall be in accordance with IS 9417 (latest revision) & all welders shall be qualified as per IS 7310 (Part I) 1974 & IS 7310 (Part II) 1974.
5. Structural steel shall conform to IS 2062 Gr. B.
6. Lap length and development length of bars in tension shall be as per IS 456:2000 & in compression 24 times the diameter of bar.
7. Ductile detailing shall confirm to IS 13920:1993.
8. Clear cover to all reinforcement shall be as per the following:
   a. Column = 40mm.
   b. Beam & Staircase waist slab = 25mm.
   c. Roof, portcabin = 20mm.
9. Minimum development length in tension lengths shall be : (i) 40 Ø dia. of bar. Where Ø = dia. of reinforcement bar.
10. Lap length and development length of beam shall be 50 Ø for all bars in tension & compression.
11. Lap length and development length of column to footing shall be 60 Ø for all bars in tension & compression.
12. Where a main beam supports a secondary beam, the stirrups of main beam shall be provided for the secondary beam reaction plus 100mm extra for support width of the main beam.
13. The section & thickness of walls, shall be provided as per the approved drawing.



14. Wind pressure for design and construction.

PROJECT

PROPOSED ADDITION OF 3RD FLOOR TO EXISTING G+2 SCHOOL BUILDING OF DAV PUBLIC SCHOOL, CUTTACK

CLIENT

DAV PUBLIC SCHOOL CHANDRASEKHARPUR

DRAWN BY: PRANATI	STATUS: FOR TENDERING
CHECKED BY: ANSHUMAN	
DATE: 23.11.2026	NORTH
SCALE: 1:100	

DRAWING TITLE

STRUCTURAL DETAILS-02
(4TH SLAB ROOF BEAM DETAILS)

DRG. NO

C:\SCB-DAV\WD\STRL\04d2026

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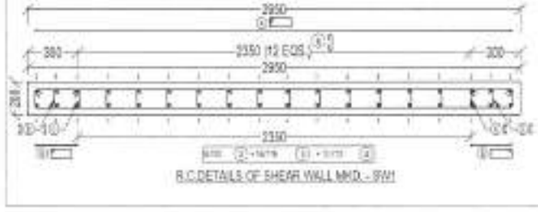
DAV S.C.B. MEDICAL PUBLIC SCHOOL

SCHEDULE OF COLUMNS

COLUMN MARKED	NO. OF COLUMN	COLUMN SIZE	REINFORCEMENT DETAILS	TIESUNKS DETAILS
C1	04	300x700	300, 2-Y25, 700, 2-Y25, 4-Y25 + 16-Y20	1-Nos + 6-Nos + 1-Nos
C2	02	400x600	400, 2-Y20, 600, 2-Y20, 4-Y20 + 16-Y20	1-Nos + 4-Nos + 2-Nos
C3	06	400x600	400, 600, 16-Y20	1-Nos + 4-Nos + 2-Nos
C4A	02	400x600	400, 600, 16-Y20	1-Nos + 4-Nos + 2-Nos
C4	10			
C13	06			
C5A	02	400x600	400, 3-Y25, 600, 3-Y25, 4-Y25 + 14-Y20	1-Nos + 4-Nos + 3-Nos
C5	18			
C6	06	400x600	400, 3-Y25, 600, 3-Y25, 4-Y25 + 14-Y20	1-Nos + 4-Nos + 3-Nos
C7A	02	400x600	400, 4-Y25, 600, 4-Y25, 8-Y25 + 10-Y20	1-Nos + 4-Nos + 3-Nos
C7	12			
C5	04	400x600	400, 5-Y25, 600, 5-Y25, 10-Y25 + 8-Y20	1-Nos + 4-Nos + 3-Nos

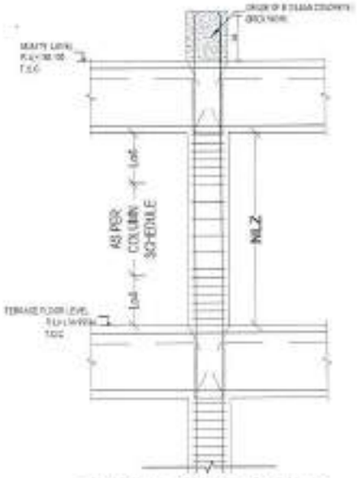
SCHEDULE OF COLUMNS

COLUMN MARKED	NO. OF COLUMN	COLUMN SIZE	REINFORCEMENT DETAILS	TIESUNKS DETAILS
C11	01	400x600	400, 4-Y20, 600, 4-Y20, 8-Y20 + 8-Y16	1-Nos + 4-Nos + 2-Nos
C12A	02	400x600	400, 4-Y16, 600, 12-Y20 + 4-Y16	1-Nos + 5-Nos + 2-Nos
C12	02			
C14	02	400x600	400, 600, 18-Y20	1-Nos + 5-Nos + 2-Nos
C15	05	400x600	400, 600, 18-Y20	1-Nos + 5-Nos + 2-Nos
C16	04	400x600	400, 4-Y20, 600, 6-Y25, 8-Y25 + 10-Y20	1-Nos + 5-Nos + 2-Nos
C17A	04	400x600	400, 4-Y25, 900, 2-Y25, 4-Y25, 16-Y25 + 8-Y20	1-Nos + 5-Nos + 2-Nos
C17	06			
C18	04	400x700	400, 2-Y25, 700, 2-Y25, 4-Y25 + 16-Y20	1-Nos + 6-Nos + 2-Nos
C19	02	400x700	400, 6-Y25, 700, 6-Y25, 12-Y25 + 8-Y20	1-Nos + 6-Nos + 2-Nos

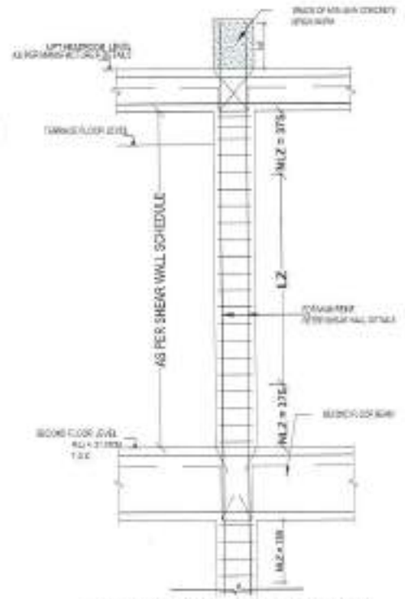


SCHEDULE FOR HORIZONTAL REINFORCEMENT FOR SHEAR WALLS

BAR MARK	DESCRIPTION	BAR SHAPE
A	16-#T 20c/c	
B	16-#T 20c/c	
C (CLOSING BAR)	16-#T 300 EQ	C
D	16-#T 150c/c	D
E	16-#T 20c/c	E



TYPICAL C/S OF COLUMN & BEAM ARRANGEMENT



TYPICAL C/S OF SHEAR WALL

NOTES

1. All dimensions are in mm unless otherwise stated.
2. Reinforced cement concrete shall be M 25 mix design elsewhere as the requirements of IS 456:2000.
3. All reinforcing steel shall be Fe 500D high tensile reinforcing bars conforming to IS 1786.
4. Structure has been designed for wind velocity assumed to a degree assigned to assume 2 nos 03 considering 10 M/S structure as per IS 875 (Part 3).
5. Plinth beam has been considered as per IS 875 (Part 3) (pm).
6. Live load on floor & roof has been considered as per IS 875 (Part 2) (m.s) + design of structure.
7. Durability detailing shall conform to IS 13920:2016.
8. Clear cover to all reinforcement shall be as per the following:
   a. Column - 40mm
   b. Beam & Slab (top) and (bot) - 30 mm
   c. Footing (top) and (bot) - 50 mm
9. Minimum development length for bars shall be - 47 dia of bar. Where ⊙ stands for dia bar.
10. End anchorage of main reinforcement in beam shall be 40dia of bar.
11. Lap length and development length in tension should be shall be 50dia.
12. Where a main beam supports a secondary beam, the spacing of shear reinforcement should be more than 100mm within the support width of the main beam.
13. The isolated & staircase walls shall be 400 thick as per the approval drawing.



14. Refer Architectural drawing for finishing and openings.

PROJECT

PROPOSED ADDITION OF 3RD FLOOR TO EXISTING G+2 SCHOOL BUILDING OF DAV PUBLIC SCHOOL, CUTTACK

CLIENT

DAV PUBLIC SCHOOL CHANDRASEKHARPUR

DRAWN BY	STATUS
PRANATI	FOR TENDERING
CHECKED BY: ANSHUMAN	
DATE: 23.11.2020	MONTH
SCALE: 1:100	

DRAWING TITLE

STRUCTURAL DETAILS-2 (COLUMN DETAILS)

DRG. NO: CI/SCB-DAV/WD/STRL/02/2020

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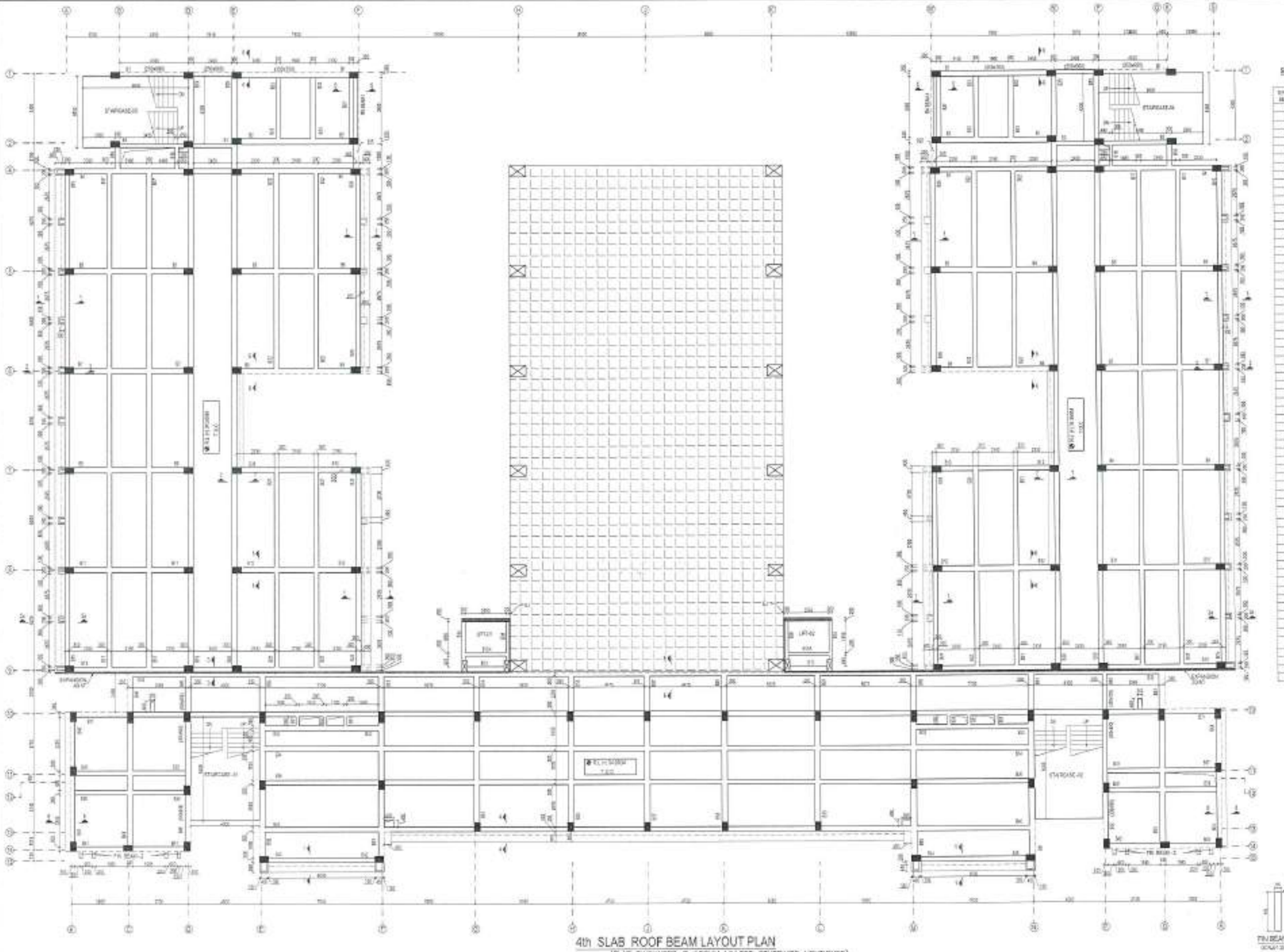
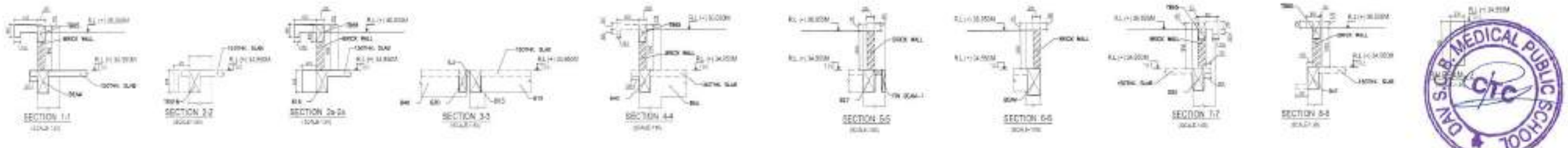
DAV S.C.B. MEDICAL PUBLIC SCHOOL



4th SLAB ROOF BEAM LAYOUT PLAN
(SLAB THICKNESS IS 150MM UNLESS OTHERWISE MENTIONED)



SCHEDULE OF TERRACE FLOOR BEAMS:

TERRACE FLOOR BEAM MARKED	TERRACE FLOOR BEAM SIZE
B1	300x600/300x750
B2	200x750
B3	250x600
B4	300x600
B5	300x750
B6	300x750
B7	200x750
B8	300x600
B9	300x700
B10	300x600
B11	300x750
B12	300x750
B12A	300x600
B14	200x600
B15	300x600
B16	200x600
B17	200x600
B18	200x300
B19	300x600
B20	300x600
B21	300x600
B24	300x600
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B34	300x450
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B37	300x600
B38	300x600
B39	300x600
B40	300x600
B41	300x600
B42	300x600
B43	300x600
B44	300x600
B45	300x600
B46	300x600
B47	300x600
B48	300x750
B49	300x600/300x750
B50	300x750
B51	300x750
B52	300x600/300x750
B53	300x750
B54	300x600
B55	230x600
FIN BEAM-1	230x600
FIN BEAM-2	230x600

NOTES

1. All dimensions are in millimetre unless otherwise stated.
2. All electrical layouts to be read with the latest architectural drawings.
3. All earthwork shall be in accordance with the requirements of IS:4081-2005.
4. All earthwork shall be in accordance with the requirements of IS : 1786.
5. Structure has been designed for wind loading, structure is considered assigned to Seismic Zone-III considering IS:1893 and shall be as per IS:1893-2002.
6. Structural steel work shall be as per IS: 800-2007 (part).
7. Low cost architect & Civil has been considered as per IS: 456-2000 (part) & design of structure.
8. Quality assurance plan confirm to IS:13935-2018.
9. Clear cover to all reinforcement shall be as per the following:
   a. Column - 40mm.
   b. Beam & Slab (slab depth 200) - 25mm.
   c. Retaining Wall - 25mm.
10. All beam should be provided with hanger bars of size 12mm dia. of M.S. Bars. (if not mentioned in drawing).
11. Size and length of each bar specified in the drawing are nominal. The bar should be bent accurately to the shape and dimensions shown on the drawings, before any concrete is placed. Bars should not be heated for bending.
12. Lap length of reinforcement bars shall be minimum 50 times the diameter of bar unless otherwise specified in the drawing.
13. All beams are taken equal to the column unless otherwise specified in the drawing.
14. Concrete mix for different grades of concrete shall be as per the following proportions by weight of cement.
    a. M20 - 1:1.5:3
    b. M25 - 1:1:2
15. Nominal maximum size of aggregate should not be more than one fourth of the minimum thickness of the member.
16. Water cement ratio shall not be more than 0.45.
17. Cement used in the work shall be 53 grade ordinary Portland cement conforming to IS:12269-1987.
18. Minimum grade of concrete used in the work shall be M20.
19. Reinforcement used in the work shall be of grade Fe 500 conforming to IS:1786-1985.
20. Admixture shall be used only with the approval of the Engineer-in-charge.
21. Mechanical vibrators shall be used for compaction of concrete.
22. Curing shall be done for a minimum period of 7 days.
23. Shuttering shall be removed only after the concrete has attained adequate strength as per direction of the Engineer-in-charge.
24. Construction joints shall be made only where shown on the drawings or as directed by the Engineer-in-charge.
25. Reinforcement shall be tied with 20 gauge annealed soft iron wire.
26. Bar bending schedule shall be submitted for approval before actual bending.
27. Bar bending schedule shall be submitted for approval before actual bending.
28. Bar bending schedule shall be submitted for approval before actual bending.
29. Bar bending schedule shall be submitted for approval before actual bending.
30. Bar bending schedule shall be submitted for approval before actual bending.

PROJECT
PROPOSED ADDITION OF 3RD FLOOR TO EXISTING G+2 SCHOOL BUILDING OF DAV PUBLIC SCHOOL, CUTTACK

CLIENT
DAV PUBLIC SCHOOL CHANDRASEKHARPUR

DRAWN BY: PRANATI	STATUS: FOR TENDERING
CHECKED BY: ANSHUMAN	
DATE: 23.11.2020	NORTH
SCALE: 1:100	

DRAWING TITLE
STRUCTURAL DETAILS-3
(4TH SLAB ROOF BEAM LAYOUT PLAN)

CI/SCB-DAV/ND/STR/03/2020
DRG.NO

STRUCTURAL ENGINEER
ER. SANTOSH SAHOO

ARCHITECT
AR. ANSHUMAN RATH

CONSULTANT
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DAV S.C.B. MEDICAL PUBLIC SCHOOL CTC

L.S OF BEAM MKD. B1 (250x600/350x700)

SEC : 1a-1a

TYPICAL CROSS SECTION DETAIL OF BEAM RESTING ON ANOTHER BEAM

TYPICAL CROSS SECTION DETAL OF BEAM RESTING ON ANOTHER BEAM

L.S OF BEAM MKD. B2 (250x700)

SEC : 2a-2a

L.S OF BEAM MKD. B3 (250x600)

SEC : 3a-3a

L.S OF BEAM MKD. B4 (300x600)

SEC : 4a-4a

L.S OF BEAM MKD. B5, B6 & B11 (350x700)

SEC : 5a-5a

L.S OF BEAM MKD. B7 & B9 (350x700)

SEC : 7a-7a

L.S OF BEAM MKD. B8 & B10 (300x600)

SEC : 8a-8a

L.S OF BEAM MKD. B12 (350x700)

SEC : 12a-12a

L.S OF BEAM MKD. B13 (300x600)

L.S OF BEAM MKD. B13 (300x600)

SEC : 13a-13a

C.S. OF BEAM MKD. SB13A(200x600)

L.S OF BEAM MKD. B14 & B28 (200x600)

SEC : 28a-28a

TYP. BEAM & COLUMN JUNCTION DETAIL (WITH OUT 90° BEND)

L.S OF BEAM MKD. B21 (300x600)

SEC : 21a-21a

L.S OF BEAM MKD. B23 (300x600)

SEC : 23a-23a

TYPICAL L/S SHOWING LAPPING LOCATIONS

TYP. BEAM & COLUMN JUNCTION DETAIL

NOTES

1. All dimensions are in mm & R.L unless otherwise stated.
2. Reinforced cement concrete shall be M25 mix design varifiable as per requirement of IS 456-2000.
3. All reinforcing steel shall be Fe 500D thermo mechanically treated bars conforming to the requirements of IS : 1786.
4. Structure has been designed in seismic zone-III, importance factor as per IS 1893-2016.
5. Effective span of beam considered as per IS 456:2000 Cl.22.2.
6. Live load on floor & roof has been considered as per IS : 875 (Part-2)-1987 (as per usage of structure).
7. Building drawing shall confirm to IS : 13920-2016.
8. Clear cover to all reinforcement shall be as under for following.
   a. Column - 40mm.
   b. Beam & Slab main steel (c/c) - 25mm.
   c. Slab steel (c/c) - 20mm.
9. Minimum concrete grade and steel reinforcement as per IS : 456-2000 (Cl. 6.1.1) for different RCC elements.
10. Development length of main reinforcement in beam shall be 47d in tension and 37d in compression.
11. Lap length of reinforcement at splice in beam shall be minimum 50d in tension and 37d in compression.
12. Where it is not shown in plan or elevation, the spacing of shear reinforcement shall not be more than 150mm within the support width in the beam.
13. The concrete of transverse walls shall be of C20 as per the approved drawing.



14. Refer drawings for loops in RCC work.

PROJECT

PROPOSED ADDITION OF 3RD FLOOR TO EXISTING G+2 SCHOOL BUILDING OF DAV PUBLIC SCHOOL, CUTTACK

CLIENT

DAV PUBLIC SCHOOL CHANDRASEKHARPUR

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CHECKED BY: ANSHUMAN	
DATE: 23.11.2020	NORTH
SCALE: 1:100	

DRAWING TITLE

STRUCTURAL DETAILS-4a (4TH SLAB ROOF BEAM DETAILS)

DRG. NO

CI/SCB-DAV/WD/STRL/04a/2020

STRUCTURAL ENGINEER

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L.S OF BEAM MKD. B14 (300x900)

L.S OF BEAM MKD. B15 (300x900)

SEC : 15a-15a

C.S. OF BEAM MKD. : B15(300x900)

C.S. OF BEAM MKD. : B16(300x900)

L.S OF BEAM MKD. B17 (300x500)

SEC : 17a-17a

L.S OF BEAM MKD. B17 (300x600)

L.S OF BEAM MKD. B19 (300x600)

SEC : 19a-19a

L.S OF BEAM MKD. B19 (300x900)

L.S OF BEAM MKD. B22 (300x500)

SEC : 22a-22a

L.S OF BEAM MKD. B25 (300x600)

SEC : 25a-25a

L.S OF BEAM MKD. B20 (300x600)

SEC : 20a-20a

L.S OF BEAM MKD. B20 (300x900)

NOTES

1. All dimensions are in mm unless otherwise stated.
2. Nominal cover to main reinforcement shall be 40 mm except where otherwise stated in the specifications of IS 456:2000.
3. All reinforcing steel shall be Fe 500D High tensile conforming to the requirements of IS : 1786.
4. Structure has been designed to resist seismic forces in Horizontal and Vertical Zone-V as per IS 1893:2016.
5. Wind load has been considered as per IS : 875(Part-III) of 2015.
6. Live load on floor & roof has been considered as per IS : 875 (Part 2) : 1987 (Amd. 1) designed whichever.
7. Ductility detailing shall conform to IS 13920:2016.
8. Clear cover to reinforcement shall be as per the following
   a. Column - 40mm.
   b. Beam & Slab (exposed) - 25mm.
   c. Floor (inside) - 25mm.
9. Minimum development length as per IS 456 : 2000 - 1.2m (M 20 & Fe 415) & 1.0m (M 25 & Fe 500) or 50 dia whichever is more.
10. Grade of concrete used shall be M 25 & Fe 500.
11. Lap length and development length is taken for 50 dia for 12 mm dia bar & 60 dia for 16 mm dia bar.
12. Where a main beam supports a secondary beam, the top of the secondary beam reinforcement shall be 50 mm less than the top of the main beam.
13. The position & thickness of all shafts shall be as per the approved drawing.



14. Typical detailing for hanger reinforcement.

PROJECT

PROPOSED ADDITION OF 3RD FLOOR TO EXISTING G+2 SCHOOL BUILDING OF DAV PUBLIC SCHOOL, CUTTACK

CLIENT

DAV PUBLIC SCHOOL CHANDRASEKHARPUR

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ANSHUMAN	
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22.11.2020	
SCALE	
1:100	

DRAWING TITLE

STRUCTURAL DETAILS-4b
(4TH SLAB ROOF BEAM DETAILS)

DRG. NO

CI/SCB-DAVVA/DISTRI/04b/2020

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