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NO.J.11016/5/2016-DTE(EDN)
GOVERNMENT OF MIZORAM
SCHOOL EDUCATION DEPARTMENT

Dated Aizawl, the 29th August, 2017

To

The Director
Department of Information & Public Relation
Govt. of Mizoram, Aizawl

Subject: Classified Advertisement

Sir,

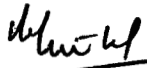
I have the honour to request you to kindly advertise the "Request for Proposal" in three (3) leading Local News Paper for three (3) consecutive issues starting from 31st August, 2017 as per sample given below. The advertisement size should not exceed 5 cms x 5 cms.

"Request for Proposal"

School Education Department, Government of Mizoram is intending to construct various buildings under NEDP. Government Empaneled Consultancy Firms may submit their Bid which will be received up to 20th September, 2017. RFP can be obtained from Directorate of School Education, Mc Donald Hill, Zarkawt, Aizawl on payment of Rs 400/- during Office hours and can also be downloaded from <http://schooleducation.mizoram.gov.in> and <http://tender.mizoram.gov.in>

Sd/- Director of School Education
Govt. of Mizoram"

Yours faithfully,


29/8/17
(K.LALTHAWMAWIA)
Director of School Education
Govt. of Mizoram, Aizawl

**GOVERNMENT OF MIZORAM
SCHOOL EDUCATION DEPARTMENT**

REQUEST FOR PROPOSALS (RFP)

FOR

**“CONSTRUCTION OF SCHOOL INFRASTRUCTURE UNDER
SCHOOL EDUCATION DEPARTMENT”**

**UNDER NEW ECONOMIC DEVELOPMENT PROGRAMME
(NEDP)**

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1. Introduction:

1.1 The Government of Mizoram represented by the Secretary to the Government of Mizoram, School Education Department, have been accorded and allocated, funds under New Economic Development Programme during 2016-17 for the Project entitled “Construction of School Infrastructure under School Education Department” with the following components:-

1) Construction of Additional Classrooms in 16 High School/Higher Sec. Schools	- Rs. 294.00 lakhs
2) Construction of Additional Classrooms, etc. in 10 Elementary Schools	- Rs. 196.00 lakhs
GRAND TOTAL	- Rs.490.00 lakhs

1.2 The School Education Department, Government of Mizoram has decided to execute the project /construction on Total turnkey basis as per approved design and estimate, within the approved project cost and has decided to carry out restricted bidding process from amongst the short listed empanelled consultancy firms notified by Finance Department in the State Government vide No. A.46011/1/2010-F.Est/431 Dated 7.8.2017 for selection of a private entity as the bidder to whom the Execution of *Civil Construction Work* may be awarded.

1.3 Financial Implications of the Project are as follow:

The Government of Mizoram under its New Economic Development Programme is providing 100% of the capital investment required.

2. Terms of Reference

Background: The project has been developed to address the huge infrastructure gap under School Education Department.

2.2 Objective: The project aims at establishing infrastructures which will provide a good environment for learning in order to have a quality education.

In view of the above, the objectives of the proposed construction of Additional Classrooms for 10 (ten) elementary Schools and 15 (fifteen) Higher Secondary Schools are as below:

- To implement quality education.
- To provide good environment for learning.
- To reduce drop-out rates.
- To improve retention rate.

2.3 Benefits: By improving the state of education, the Project will benefit the students, teachers and society as a whole.

2.4 Scope of Work: The scope of work to be performed by selected agency, herein after called the contractor, will include (but not limited to) the following tasks:

- a)
 - i) The contractor shall carry out the works as per Detailed Estimate and Drawing prepared enclosed for construction of Additional Classrooms, etc. in 10 (ten) Elementary Schools and 16 (fifteen) High/Higher Secondary Schools
 - ii) The contractor shall prepare PERT/CPM chart for project implementation.
- b) The contractor shall also get the work executed in accordance with the technical sanction and drawings, designs, and specification in the approved DPR and ensure completion of the project within the project cost and project period as specified in the Contract Document.
- c) In case the need for modification in design with respect to site condition arises, the employer shall have full authority to do so without altering the overall cost of the project.
- e) The contractor shall consult the employer before commencing the works against each site for construction.
- f) The total project costs are inclusive of civil construction and the items to be procured/construct are mentioned in the detail estimate & drawing.

3. INFORMATION TO BIDDERS

3.1 Introduction:

i) Additional Classroom for Higher Secondary Schools:-

The proposed construction of Additional Classroom in 15 Higher Secondary School Buildings will be construction of 1 to 3 additional Classroom (as Detailed estimate enclosed) each in selected Schools.

The list of Schools to be reconstructed is enclosed in Annexure-I

ii) Construction of Additional Classroom, etc. in Elementary Schools

The proposed works will include construction of additional Classrooms, Repairs, buiding reconstruction, fencing etc.. as reflected in the Detailed estimates.

The list of Schools is enclosed in Annexure-II

3.2 Brief Description of Works - The employer has received fund from Government of Mizoram under New Economic Development Programme during 2016-17 amounting to Rs. 490.00 lakhs for these Projects. All the works mentioned in the project constitute a single package and must be carried out by the contractor. Payment of bills for completed works will be subjected to satisfaction of employer after verification of work.

3.3 Brief Description of Bidding Process:- The employer has adopted a One-stage Two-part (two envelopes) bidding process for selection of the Bidder for award of the Project, selected from amongst the Firms empanelled by Finance Dept., Government of Mizoram vide No. A.46011/1/2010-F.Est/431 Dated 7.8.2017. The applicant must satisfy themselves that they are qualified to bid and should give an undertaking to this effect.

3.4 Schedule of the Bidding process:-

	<u>Event description</u>	<u>Date</u>
1.	Last date of submission of bids	20 th Sept, 2017 (Monday) up to 12:00 pm
2.	Opening of Bids	(Same date as Sl. No 1 at 1:00 pm)
3.	Letter of Award <i>(subject to the approval of competent Authority)</i>	Within 10 working days of Sl. No 1
4.	Signing of Contract Agreement. <i>(subject to the approval of competent Authority)</i>	Within 3 days of LOA

3.5 Name and Address of contact person:

Shri K. Lalthawmmawia
Director of School Education
School Education Department
Aizawl, Mizoram
Ph. No 0389-2341233
E-mail: dirsemz@gmail.com

3.6 Cost of Tender document:

- i) Tender document (hard copy) can be had from the office address given above on payment of Rs. 400/- on working days from 4th September, 2017 to 20th September, 2017
- ii) Tender documents will be available online on website <https://tender.mizoram.gov.in> and also at <https://schooleducation.mizoram.gov.in/>. Those contractors who download the tender documents from the website shall pay Rs. 400/- on submission of their bidding document.

4. GENERAL TERMS OF BIDDING.

4.1 Earnest Money :

An amount of Rs 9.8 lakh should be deposited as Earnest Money. The earnest money deposit shall be in favour of Director of School Education and shall be accepted in any of the following form:

- i) Treasury Challan.
- ii) Deposit at call receipt of a Scheduled Bank.
- iii) Banker's Cheque.
- iv) Demand Draft.
- v) FDR.
- vi) A part of earnest money is acceptable in the form of bank guarantee also. In such cases 50% of earnest money will have to be deposited in any of the shape prescribed above and the balance can be accepted in the form of bank Guarantee issued by a scheduled bank.

The following details are to be furnished that will form a part of the Bid documents:

A - For TECHNICAL BID :

4.1.1 The technical Bid should contain the following information:-

- i. Methodology,
- ii. Work Plan & Mobilization Schedule,
- iii. Site Organization,
- iv. Quality Control & Assurance,

v. Proposed Key personnel of the firm and their relevant experience of providing necessary services in this project,

- a) Architect,
- b) Structural Engineer,
- c) Civil Engineer,
- d) Other Services
- e) Valid electrical license contractor with minimum 5 years experience
- f) Supervisor with a valid licence holder (minimum 5 Years experience)
- g) Workman with a valid licence holder (minimum 5 Years experience)

Vi. List of key Plant & Equipment to be deployed on Contract work (Nos of plants as per site requirement)

- a) Dozer
- b) Steel Propping
- c) Tipper
- d) Generator
- e) Bar Cutting Machine
- f) Bar Bending Machine
- g) Welding Machine
- h) Plate Compactor
- i) Vibrator
- j) Concrete Mixer Machine
- k) Slump cone
- l) Earth tester
- m) Insulation tester
- n) Cutter

4.1.2 The following documents are to be furnished that will form a part of the Bid documents:

- a) Brief Profile of the Establishment.
- b) General profile of the Agency indicating core competence and area of specialization and services rendered in the field of Infrastructural Project Design and Planning.
- c) Value and size of the civil construction projects handled by the Agency since its inception (with completion certificate).

d) List of Professional/Technical staff in the firm with qualifications and experience of each staff.

e) Audited Financial Report by Chartered Accountant of the firm for the last 3 years (i.e 2013-14, 2014-15, 2015-16), indicating Turnover and Net Profit figures.

4.2 The bidders must have the following requisite Certificates in their own name:

a) **Firm Registration**

b) **GST Registration**

c) **Work Done Certificates**

4.3 The Bidder shall provide all the information sought under this RFP and any other relevant information as deemed fit by the Bidder. The Employer will evaluate only those Bids that are complete in all respects.

The Bid and other documents shall be typed, sealed & signed by the authorized signatory of the Bidder, whose Power of Attorney for signing the documents should be enclosed in the Bid documents.

4.4 The Bid should be sealed in an envelope and shall clearly bear the following identification-

“Technical Bid for Construction of School Infrastructure under School Education Department, Mizoram”

and shall clearly indicate the name and address of the Bidder.

4.5 Each envelope shall be addressed to:

Shri K. LALTHAWMMAWIA

Director of School Education

Directorate of School Education,

Mc Hill, Zarkawt, Aizawl, Mizoram

Ph. No 0389-2341233

4.6.1 If the envelopes are not sealed and marked as instructed above, the employer assumes no responsibility for the misplacement or premature opening of the contents of the Bid submitted and consequent losses, if any, suffered by the Bidder.

4.7 Bids received by the Employer after the specified time on the Bid due date shall not be eligible for consideration and shall be summarily rejected.

4.8 The Bidders shall be responsible for all the costs associated with the preparation of their Bids and their participation in the Bidding process. The Employer will not be responsible or in any way liable for such costs, regardless of the conduct or outcome of the Bidding process.

4.9 Bidders are encouraged to submit their respective Bids after visiting the Project site and ascertaining for themselves the site condition, traffic, location surroundings, climate, availability of power, water and other utilities for construction, access to site, handling and storage of materials, weather data, applicable laws & regulation and any other matter considered relevant by them.

4.10 Notwithstanding anything contained in this RFP, the Employer reserves the right to reject any bid and to annul the Bidding process and reject all Bids at any time without any liability or any obligation for such rejection or annulment, and without assigning any reasons thereof.

4.11 Information relating to examination, evaluation and recommendation for the Bidders shall not be disclosed to any person who is not officially concerned with the process or is not officially assisting the Employer concerning the Bidding Process. The Employer may not divulge any such information unless it is directed to do so by any statutory entity that has the power under law to require its disclosure or is to enforce or assert any right or privilege of the statutory entity and/or the Employer

B - For Financial BID :

4.12 The Bidder should quote his rates in percentage.

4.13 All duties, taxes, royalties and other levies payable by the bidder under the project shall be included in the total bid price submitted by the bidder

4.14 In this stage, each financial Proposal will be assigned as a Financial Score. The lowest financial proposal will be given a financial Score of 100.

4.15 The Bid should be sealed in an envelope and shall clearly bear the following identification-

“Financial Bid for Construction of School Infrastructure under School Education Department, Mizoram”

4.16 The Bid should be sealed in an envelope and shall be addressed to-

Shri K. LALTHAWMMAWIA

Director of School Education

Directorate of School Education,

Mc Hill, Zarkawt, Aizawl, Mizoram

Ph. No 0389-2341233

4.17 If the envelopes are not sealed and marked as instructed above, the employer assumes no responsibility for the misplacement or premature opening of the contents of the Bid submitted and consequent losses, if any, suffered by the Bidder.

4.18 Bids received by the Employer after the specified time on the Bid due date shall not be eligible for consideration and shall be summarily rejected.

4.19 Both the Technical and Financial Bids should be put in one big envelope and in the Enveloped and should bear the following details:-

- a) Name of Work - ***Bid for Construction of School Infrastructure (NEDP) under School Education Department, Mizoram***
- b) Address as at clause 4.16.
- c) Name of Bidder with detail Address.

4.20 Amendment of Bidding Documents-

4.20.1 Before the deadline for submission of bids, the employer may modify the bidding documents by issuing addenda.

4.20.2 Any addendum thus issued shall be part of the bidding documents and shall be notified.

4.20.3 To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the employers shall extend, as necessary, the deadline for submission of bids.

5. OPENING & EVALUATION OF BIDS

5.1 The Employer shall open the Bids at **13.00 hrs** on the **Bid Due Date** at the place specified in clause 4.5 and in the presence of the Bidders who choose to attend.

5.2 The Employer will subsequently examine and determine whether each Bid is responsive to the requirements of this RFP. A bid shall be considered responsive only if -

- a) It is received by the Bid due date including any extension thereof, if any.
- b) It is signed, sealed and marked as stipulated in clause 4.4.
- c) It contains all information (Complete in all respects) as requested in this RFP.
- d) It does not contain any condition or qualification.

5.3 The Employer reserves the right to reject any Bid which is non-responsive and no request for alteration, modification, substitution or withdrawal shall be entertained by the employer in respect of such Bids.

5.4 The Technical Bid submitted by the Firm shall be opened and evaluated. The Financial bid of only those bidders whose Technical Bids are substantially responsive will be considered for further evaluation.

5.5 The Financial Bid will be evaluated on the basis of rate submitted as mentioned in clause 4.13

5.6 The Technical Bid and Financial Bid shall be given weightage in the ratio of 40:60.

5.7 Subject to the provision of clause 4.10, the Bids adjudged as responsive in terms of clause 5.2, 5.5 & 5.6 shall be evaluated by the State level Consultancy Evaluation Committee (CEC) Constituted by the School Education Department.

The Technical Bid will be evaluated on the basis of the following evaluation criteria.

SI/No	Details	Max. Marks
1	Experience of the firm in preparation of DPR for Civil Infrastructure projects in the State (status of the project be mentioned)	10
2	Experience of the firm in execution of Construction projects in the State (status of the project be mentioned).	20
3	Consultant Resource Schedule, Methodology & Work Plan, Key equipment's, etc.	20
4	Suitability of Key personnel for the assignment	
	a) Qualification	10
	b) Relevant Experience	10
	c) No of Technical personnel with more than 10 years of experience	10
5	Financial Turnover Figures for last 3 years (as per audited by Registered Chartered Accountants)	5
6	Quality Assurance/Management Systems	15

After selection, a Letter of Award (the "LOA") shall be issued by the Employer to the Selected Bidder and the Selected Bidder shall, within 2(Two) days of the issue of the LOA, acknowledge receipt of the same indicating therein its acceptance or otherwise of the LOA and the assignment.

5.9 The Department reserves the right to review and modify the design at any stage, subject to mutual consultation and agreement with the selected bidder.

5.10 After acknowledgement of the LOA as aforesaid by the Selected Bidder, a Deed of Agreement shall be executed between the Employer and the Selected within the period prescribed in Clause 3.4

5.11 Any queries or request for additional information Concerning this RFP shall be submitted in writing or by email submitted to the officer designated in Clause 3.5

5.12 Bids shall be deemed to be under consideration immediately after they are opened and until such time the Employer makes official intimation of award to the Selected

Bidder, While Bids are under consideration, Bidder and/ or their representatives of other interested parties are advised to refrain, save and except as required under the Bidding Documents, from contacting by any means, the Employer on matters related to the Bids under consideration.

6. GENERAL TERMS AND CONDITIONS FOR TENDER AND CONTRACT

Bidders should read these conditions carefully and comply strictly while sending their bids.

6.1. Definitions:

For the purpose of clarity, the following words and expressions shall have the meanings hereby assigned to them:-

6.1.1 Approval - means approval in writing by the designated officer of the Employer.

6.1.2 Contractor - means the contractor or contractors or suppliers or agencies employed by the Executing Agency for the work or any connected work, including the Executing Agency itself in case any work is done directly by the Executing Agency.

6.1.3 Employer – means the School Education Department, Government of Mizoram represented by the Secretary, Govt. of Mizoram, School Education Department and shall also include its administrators, executors and assignees.

6.1.4 Executing Agency – also referred to as ‘Agency’, means an agency appointed by the employer for execution of the works under the project as may be defined in the agreement.

6.1.5 Letter of Award (LOA) – As defined in Clause 5.8

6.1.6 Project/Work - means **civil works pertaining to *Construction of School Infrastructure (NEDP) under School Education Department, Mizoram***

General:

6.2.1 All incidental charges including the work contract tax, service tax, GST and any other tax or cess as applicable on the execution of the project shall be incorporated in the bid price quoted by the bidder.

6.2.2 The following expenses will be borne from the Project Cost:

- i) Cost paid by the Employer to local government or any other statutory body or bodies for getting approvals for the project.
- ii) Cost of laboratory charges for testing of materials, etc. for the purpose of ensuring Quality Control

6.3 ROLE AND RESPONSIBILITIES OF THE CONTRACTOR:

6.3.1 Subsequent to the signing of the agreement and approval of the project, the Contractor shall forthwith take possession of the site from the Employer and shall nominate a qualified Engineer (s) for execution of the project under intimation to the Employer. In case the employer advised the Contractor for replacement of Site Engineer, the same will be duly considered by it and suitable replacement will be provided.

6.3.2 Contractor shall execute the works at approved cost as per approved technical designs and drawings.

6.3.3 The Contractor shall be wholly, solely and fully responsible for the timely completion of the project, the quality of works as per approved designs and also the structural safety during & after completion of the project.

6.3.4 The Employer or any person authorized by it can inspect and check the Construction work from time to time to see that the buildings are being constructed as per drawings & specifications. If any defects are found or deviation from the Plan without the written permission of the Employer noticed during the inspection, the same will be rectified by the Contractor.

6.3.5 During the various stages of execution, Contractor shall submit monthly progress reports with site photographs with minimum 6 site photographs of size 4"x6" with soft copy.

6.3.6 The Contractor shall be responsible for proper implementation in regards to the structure, design, specifications and workmanship.

6.3.7 Liability for all defects in respect of the different components of the project undertaken by the Contractor shall rest with them for a period as indicated at clause 6.13.2 from the date of its handing over site complete in all respect to the Employer. Contractor shall be responsible for satisfactory rectification of defects.

6.3.8 Any defects discovered and brought to the notice of the Contractor during the period aforesaid shall be rectified by Contractor forthwith at its own cost and expenses. In the event of the failure on the part of the Contractor to rectify the defects, the same may without prejudice to any other rights available to Employer in law can be got rectified by the employer for and on behalf of Contractor and at the cost and expense of the Contractor, after due notice of 30 days to the Contractor.

6.3.9 The Employer shall have the right to deduct or set off the expenses incurred by it in rectifying the defects as aforesaid from or against any amount due and payable or becoming due and payable by the Employer to the Contractor under this agreement or from any other amount due. The Employer shall be entitled to claim the balance due with interest and recover the same from the Contractor, if the amount claimed is not paid on demand.

6.3.10 The Contractor shall unless otherwise specified be fully responsible for procurement of all materials and services for the construction activity.

6.3.11 Contractor shall be fully responsible for acts or omissions committed by it.

6.3.12 The Contractor shall be fully responsible to defend any suits or arbitration cases arising in respect of the project in connection with the Work between the Contractor and its sub-agency/workers at its own cost.

6.3.13 The Contractor shall, wherever required, obtain in writing approval of the local bodies or statutory bodies for the planning, construction as contemplated in this agreement. However, the Employer shall render necessary support to the Contractor to the extent of writing letters to local bodies regarding getting such approvals.

6.3.14 The Contractor shall be fully responsible for observance of all labour laws and other laws applicable and shall indemnify and keep indemnified the Employer against effect of non-observance of any such laws by it or the sub-agency.

Further, Employer shall not be responsible in any manner whatsoever, for Damages/compensation under Workmen Compensation Act or any other law or in torts or in civil law to the employees of Contractor and/or Contractor(s) and/or labourer employed.

6.3.15 The Contractor shall send completion report with as-built drawings and maintenance schedules for all the services to the office of the Employer in writing within 15 days of completion of work.

6.3.16 Responsibility to obtain Completion Certificate and Occupancy Certificate rests with the Contractor, and the project shall be deemed to have been completed and at the stage of handing over only when these are obtained from the local body (ies).

6.3.17 Report and other documents prepared by the Contractor in performing the Services shall become and remain the property of the Employer, and the Contractor shall, not later than upon termination or expiration of this Agreement, deliver all such documents to the Employer, together with a detail inventory thereof. The Contractor may retain a copy of such documents.

6.3.18 The Contractor, their Sub Agency/Third Party and the personnel of either of them shall not, either during the term or within two (2) years and 6 (six) months after the expiration of the Contract period, disclose any proprietary or confidential information relation to the project, the Services, the Contract or the Employer's business or operation without the prior written consent of the Employer.

6.4 RESPONSIBILITIES OF THE EMPLOYER:

6.4.1 The Employer shall make available the site for the work to the Contractor.

6.4.2 Employer will not be responsible to the contractors/suppliers of the items required for execution of contract.

6.4.3 Employer shall make payment due under this agreement to the Contractor. However, the Employer may levy compensation upon the Contractor due to non-fulfillment of any clause of the contract or for bad work or deficiency in services or any other reasons whatsoever deemed appropriate under relevant rules and regulations.

6.5 COMPLETION OF THE PROJECT

6.5.1 The work shall be completed in all respect within a period of 8 months from the date of issue of work order.

6.5.2 Contractor shall be required to complete the construction work within the stipulated period. In case of delay, which may occur due to the reasons beyond the control of Contractor, Contractor would approach the Employer with full details for

extension in time limit for completion of the works. In case of delay due to sole default on part of Contractor, or its contractors / subcontractors the Contractor shall be liable to pay to the Employer compensation (not amounting to penalty) at the rate of not exceeding ¼ % (One quarter percent) of the total anticipated Execution Agency charges per week of delay subject to maximum of 10% (Ten percent) of the total agency charges. However, the employer may reduce the same at its sole discretion

6.6 ASSIGNMENT OF THE AGREEMENT:

The Contractor shall not assign or transfer or part with any of the rights, duties of obligations, wholly or in part, under this agreement to any other party without the previous consent in writing of the Employer, except as provided under the agreement.

6.7 PAYMENT & SCHEDULE OF PAYMENT:

6.7.1 A sum of 5% of the accepted value of the Tender shall be deposited by the successful bidder (hereinafter called the contractor when Tender is accepted) as security deposit with the owner for the faithful performance, completion and maintenance of the works in accordance with the contract documents and to the satisfaction of the Employer and assuring the payment of all obligations arising from the execution of the contract. This shall be deposited in one of the forms mentioned below:

- a. By a Demand Draft in the Aizawl Branch of any Scheduled Bank.
- b. A Fixed Deposit Receipt of a Schedule Bank duly endorsed in favour of the "DIRECTOR, SCHOOL EDUCATION DEPARTMENT, GOVERNMENT OF MIZORAM", Aizawl.
- c. Irrevocable and unconditional Bank Guarantee of Equivalent amount of any Scheduled Bank except Co-operative Bank.
- d. The Contractor may pay 1% of the value of works as initial security deposit and the balance 4% shall be recovered in instalments through deductions at the rate of 10 (ten) percent of the value of each Running Account Bill till the total security execution exceeds the accepted value of Tender because of allotment of further work, further recoveries towards security deposit shall be effected at 10% of the R A Bills to make up the five percent security deposit of the revised value of contract. **Alternatively, the Contractor may at his option deposit the full amount of 5 percent of security deposit within ten days of receipt by him of the notification accepting the Tender in the form as aforesaid.**

6.7.2 If the Contractor, sub-contractor or their employees shall break, deface or destroy any property belonging to the owner or other agency during the execution of the contract, the same shall be made good by the contractor at his own expense and in default thereof, the Employer may cause the same to be made good by other agencies and recover expense from the Contractor (for which the certificate of the Employer shall be final). This expense can be recovered from the security deposit if recovery from other sources is not possible. The amount as reduced in security deposit will be made good by deduction from the next RA Bill of the Contractor.

6.7.3 Mobilisation advances, secured advances and grant of advance for plants and machineries should be released to the contractor as per rules given in CPWD Manual 2014 only if the contractor request such releases from the department which will be adjusted in the running account bills.

6.7.4 The Contractor shall give the reimbursement bill along with their expenditure claim, copy of the expenditure statement duly certified by a representative of Contractor on the project, for reimbursement/adjustment of expenditure incurred from the funds advanced to the Contractor.

6.7.5 The remaining funds shall be released to the Contractor on actual execution basis based on on-site measurements.

6.7.6 On completion of work, the accounts of the work shall be closed and a final bill/expenditure statement shall be submitted for settlement.

6.7.7 Measurement must be taken and Measurement Book (MB) maintained by the contractor which will be checked and verified by the engineer in charge/monitoring team approved by the employer. Running bills shall be released only after approval of the Measurement Book by the employer.

6.8 MONITORING:

6.8.1 Effective monitoring shall be carried out by the contractor and the Employer to monitor the progress of the works in implementation of the project. To this end, the contractor shall furnish all the data and information, as may be prescribed by the employer from time to time, in the relevant format.

6.8.2 The contractor shall monitor the progress of the works by maintaining full information of contractors, contractor-wise status report of cost of work done and payments made, list of completed works and value of work done in the prescribed format.

6.9 QUALITY MONITORING:

6.9.1 The contractor shall ensure the best practices are applied for quality management of works. The first tier of quality control will be executed at the Contractor level. There shall be an Independent Quality Control System (IQCS).

6.9.2 Before awarding works, the Contractor shall intimate the employer of details of the Quality Control System operational at the contractor level.

6.9.3 A three tier set up envisage for Quality Assurance for project works will be put in place as bellow –

The first tier will be the Senior Engineer of the Contractor in charge of the work. The Contractor shall establish Quality Control laboratories and get the contractually stipulated tests conducted. The test results shall be recorded in the prescribed quality control registers. The second tier of Quality Control will be managed by Project Implementation Unit, by whatever name called duly formed by School Education Department. This tier will oversee and supervise the first tier quality control arrangement, and coordinate all Quality Control and Assurance Activities. The last tier will be Independent Quality Monitors appointed by the Employer.

6.10 ARBITRATION:

Every dispute, difference, or question which may at any time arise between the parties hereto or any person claiming under them, touching or arising out of or in respect of this agreement or the subject matter thereof shall first be endeavored to be amicably resolved at the Top Management level of the parties. However, in the event of such dispute, difference or question, etc., remaining unsolved, the same shall be referred to the arbitration by a sole arbitrator appointed by the Employer as per provisions of the Arbitration & Conciliation Act, 1996 as applicable. The place of such arbitration shall be at Aizawl, Mizoram.

6.11 FORCE MAJEURE:

The work(s) (whether fully completed or not) and all materials, machines, tools & plants, scaffolding, temporary buildings & other things connected therewith shall be at the risk of the Contractor until the Work has been delivered to the Monitoring Committee and a certificate from him to that effect obtained. In the event of the work of any materials properly brought to the Site for incorporation in the Work being damaged or destroyed in consequence of hostilities or war-like operations, Contractor shall, when ordered in writing by the Monitoring Committee, remove any debris from the Site, collect and properly remove or/and stack in store all serviceable materials salvaged from the damaged work & shall be paid at the Contract rates in accordance with the provisions of this Contract for the work of cleaning the site of debris, stacking removal of serviceable materials and for the reconstruction of all works ordered by the Monitoring Committee, such payment being in addition to compensation upto the value of the work originally executed before being damaged or destroyed and not paid for. In case of works damaged or destroyed but not already measured and paid for, the compensation shall be assessed by the Contractor and by the Employer. The Contractor shall be paid for the damage/destruction suffered and for restoring the material at the rates based on the analysis of rates tendered for in accordance with the provisions of the Contract. The certificate of the Monitoring Committee regarding the quality and quantity of materials and the purpose for which they were collected shall be final & binding on all parties to the Contract.

Provided always that no compensation shall be payable for any loss in consequence of hostilities or war-like operations.

- i) Unless the Contractor had taken all such precautions against Air raids as are deemed necessary by the A.R.P. Officers or the Monitoring Committee.
- ii) For any materials etc. not on the site of the work or for any tools and plant, machinery, scaffolding temporary buildings and other things not intended for the Work.

In the event of the Contractor having to carry out reconstruction as aforesaid, he shall be allowed such extension of time for its completion as is considered reasonable by the Monitoring Committee.

In the event of any loss or damage to the Work or any part thereof from any of the Excepted Risks, the following provisions shall have effect.

- i) The Contractor shall, as may be directed in writing by the Monitoring Committee, remove from the Site any debris of so much of the Work as shall have been damaged.
- ii) The Contractor shall, as may be directed in writing by the Monitoring Committee, proceed with the erection & completion of the Work under and in accordance with the provisions and conditions of the Contract. Payment for such additional works, if any, shall be made as per terms of the Contract.

Provided always that the Contractor shall not be entitled to payment under the above provisions in respect of such loss or damage as has been occasioned by any failure on his part to perform his obligations under the Contract or not taking precautions to prevent loss or damage.

6.12 TERMINATION OF THE CONTRACT:

6.12.1 If the Contractor finds it impracticable to continue operation owing to force majeure reasons or for any reasons beyond his control and/or the Owner finds it impossible to continue operation, then prompt notification in writing shall be given by the party affected to the other.

6.12.2 If the delay or difficulties so caused cannot be expected to cease or become unavoidable or if operations cannot be resumed within two (2) months then either party shall have the right to terminate the contract upon ten (10) days written notice to the other. In the event of such termination of the contract, payment to the Contractor will be made as follows:

6.12.2(1) The Contractor shall be paid for all works approved by the Employer and for any other legitimate expenses due to him.

6.12.2(2) If the Owner terminates the contract owing to Force Majeure or due to any cause beyond its control, the Contractor shall additionally be paid for any work done during the said two (2) months period including any financial commitment made for the proper performance of the contract and which are not reasonably defrayed by payments under (7.2.1) above.

6.12.2 (3) The Owner shall also release all bonds and guarantees at its disposal except in cases where the total amount of payment made to the Contractor exceeds the final amount due to him in which case the Contractor shall refund the excess amount within thirty (30) days after the termination and the Owner thereafter shall release all bonds and

guarantees. Should the Contractor fail to refund the amounts received in excess within the said period such amounts shall be deducted from the bonds or guarantees provided.

6.12.3 On termination of the contract for any cause the Contractor shall see the orderly suspension and termination of operations, with due consideration to the interests of the Owner with respect to completion, safeguarding of storing materials procured for the performance of the contract and the salvage and resale thereof.

6.13 Performance Guarantee and Security Deposit:

6.13.1 The successful bidder, hereafter referred to as the contractor, shall deposit an amount equal to 5% of the tendered and accepted value of the work (without limit) as performance guarantee in one of the following forms:

(i) Deposit at Call Receipt/Banker's Cheque/Demand Draft/Pay Order of a Scheduled Bank. (In case guarantee amount is less than Rs. 1,00,000/-)

(ii) Government securities.

(iii) Fixed Deposit Receipt (FDR) of a Scheduled Bank.

(iv) An irrevocable bank guarantee bond of any scheduled bank or the State Bank of India in the prescribed form.

6.13.2 (i) The security deposit @ 2.5% of the gross amount of bill shall be collected by deductions from each running bill as well as final bill of the contractor. The security deposit can also be deposited in cash or in the form of Government Securities, Fixed Deposit Receipts etc.

(ii) Such deductions shall be made unless the contractor has deposited the amount of security at the rate mentioned in cash or Government securities or Fixed Deposit Receipts.

(iii) This is in addition to the performance guarantee that the contractor is required to deposit.

(iv) Security deposit can be released against bank guarantee issued by a scheduled bank on its accumulation to a minimum amount of Rs. 5 lakhs subject to the condition that amount of any bank guarantee except last one, shall not be less than Rs. 5 lakhs.

6.13.2 Security deposit shall be released within 4 (four) months to the contractor after having clearance from the department that no defect is found in the construction.

ANNEXURE – I

LIST OF SCHOOLS IDENTIFIED ELEMENTARY SCHOOLS FOR CONSTRUCTION OF DIFFERENT SCHOOL INFRASTRUCTURE

Sl. No.	School	Brief Description of works	Estimated Amount Rs. In lakhs
1	Govt. College Veng PS, Aizawl	Fencing, main gate, toilet, etc.	15.0
2	Govt. Chanmari PS, Aizawl	Reconstruction	34.0
3	Govt. Boys' PS, Aizawl	Reconstruction	30.0
4	Govt. Ramhlun 'N' P/S, Aizawl	Additional Classroom	13.0
5	UPS, Falkland, Aizawl	Reconstruction	20.0
6	Govt. Sialsuk MS-II	Reconstruction	30.0
7	Govt. Selchhunga PS, Saitual	Additional Classroom	12.0
8	Govt. Champhai P/S-II, Champhai	Addl. Classroom, Repair	20.0
9	Govt. Mamit P/S-V, Mamit	School Building repair, School Fencing, Furniture, Toilet renovate	8.0
10	Govt. Serchhip Vengchung P/S, Serchhip	Addl. Classroom, Kitchen Shed, School Fencing, Green Board 4' x 6' @ Rs. 6800 incinerator	14.0
	TOTAL		196.0

ANNEXURE – II

LIST OF SCHOOLS IDENTIFIED HIGH SCHOOL/HIGHER SECONDARY SCHOOLS FOR CONSTRUCTION OF DIFFERENT SCHOOL INFRASTRUCTURE

Sl. No.	School	Brief Description of Works	Estimated Amount Rs. In lakh
1	Govt. HSS, Zemabawk, Aizawl	Construction of 3 Addl. Classroom	30.0
2	Govt. Chaltlang HSS, Aizawl	Additional classroom (vertical extension)	20.0
3	Govt. Mizo HSS, Aizawl	Horizontal extension of Science Building	20.0
4	Govt. Mamawii HSS, Aizawl	Additional Classroom	22.0
5	Govt. K.M. HSS, Aizawl	Additional classroom	15.0
6	MICE, Aizawl	Additional classroom	15.0
7	Govt. Central HSS, Aizawl	Additional classroom	20.0
8	Govt. HSS, Lunglei	Additional classroom	35.0
9	Govt. Leitlangpui HSS, Lunglei	Additional classroom	20.0
10	Chanmari HS, Lunglei	Additional Classroom	15.0
11	Govt. HSS, Champhai	Additional classroom	20.0
12	Govt. HSS, Siaha	Additional classroom	15.0
13	Govt. HSS, Kawrthah	Additional classroom	7.0
14	CZ HSS, Kolasib	Additional classroom	10.0
15	Govt. HSS, Serchhip	Additional classroom	15.0
16	Govt. HSS, Lawngtlai	Additional classroom	15.0
	TOTAL		294.0

ANNEXURE - III

ESTIMATE FOR CONSTRUCTION OF GOVT CENTRAL HIGHER SECONDARY SCHOOL

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/2.08	Earth work in excavation in foundation trenches...								
	(b) Hard Soil (Pick work)								
	Column Foundations								
	Main Column	6	1.50	1.50	1.50	cum	20.25		
	Verandah Column	3	1.20	1.20	1.20	cum	5.18		
					Total:	cum	25.43	327.20	8,322.00
2/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each deposited								
	Qty. BF from S.No.	1/2.08					25.43		
	Deduct from earthwork								
	Main Column	6	0.30	0.30	1.05	cum	-0.567		
	Verandah Column	3	0.25	0.25	1.05	cum	-0.197		
	Footing								
	Main Column Footing	6	1.50	1.50	0.35	cum	-4.725		
	Verandah Column Footing	3	1.50	1.50	0.35	cum	-2.363		
	Column Foundation								
	Main Column Foundation	6	1.50	1.50	0.10	cum	-1.350		
	Verandah Column	3	1.20	1.20	0.10	cum	-0.432		
					Total:	cum	15.80	90.30	1,426.80
3/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All								
	(a) 1: 3: 6								
	Main Column Foundation	6	1.50	1.50	0.100	cum	1.350		
	Verandah Column Foundation	3	1.20	1.20	0.100	cum	0.432		
	Retaining Wall	1	10.00	1.20	0.100	cum	1.200		
					Total	cum	2.982	5968.30	17,797.47
4/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and								
	(a) All work upto foundation &								
	Footing								
	Main Footing	6	1.50	1.50	0.350	cum	4.73		
	Verandah Footing	3	1.20	1.20	0.350	cum	1.51		
					Sub-	cum	6.24		
	Main Column	6	0.30	0.30	1.050	cum	0.57		
		3	0.25	0.25	1.050	cum	0.20		
					Sub-	cum	0.57		
					Total	cum	6.80	8847.30	60,197.03
	(b) All work above plinth level up to Floor V level								
	Ground Floor & First Floor								
	Main Column	6	0.30	0.30	6.600	cum	3.56		

	Verandah Column	3	0.25	0.25	6.300	cum	1.18		
					Sub Total	cum	4.75		
	Ground Floor Beam & First								
		8.000	4.450	0.250	0.400	cum	3.56		
		6.000	4.200	0.250	0.400	cum	2.52		
	Ground Floor Verandah Beam & First Floor Beam	4.000	4.450	0.200	0.400	cum	1.42		
		6.000	1.250	0.200	0.400	cum	0.60		
	Roof Top Beam								
		4.000	4.450	0.250	0.350	cum	1.56		
		3.000	4.200	0.250	0.350	cum	1.10		
	Roof Top Verandah Beam	2.000	4.450	0.200	0.350	cum	0.62		
		3.000	1.250	0.200	0.350	cum	0.26		
	Lintel Beam								
	First Floor	4.000	4.450	0.125	0.125	cum	0.28		
					Sub Total	cum	11.93		
	Gutter:								
	Bottom along the length	2.000	10.400	0.450	0.100	cum	0.94		
	Side along the length	2.000	10.400	0.300	0.100	cum	0.62		
	Bottom along the length	2.000	6.900	0.450	0.100	cum	0.62		
	Side along the length	2.000	6.900	0.300	0.100	cum	0.41		
	Slab								
		1.000	6.000	9.500	0.150	cum	8.55		
	Step	2.000	7.750	0.020		cum	0.31		
	Waist Slab	1.000	9.500	0.500	0.125	cum	0.59		
	Ramp up	1.000	4.500	0.500	0.125	cum	0.28		
					Sub Total	cum	12.33		
					GT::		31.06	9393.30	291.771.16
5/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.								
(f)	Thermo-Mechanically								
	Foundation	Quantity from 4/5	6.24	100Kg/r	kg	623.7			
	Column	Quantity from 4/5	5.31	310Kg/r	kg	1646.7975			
	Beam	Quantity from 4/5.3	11.93	270Kg/r	kg	3220.459			
	Slab + Gutter+Chajjas +	Quantity from 4/5	12.33	100Kg/r	kg	1233			
					Total::	kg	6723.956	83.70	562,795.14
3/5.11	Centering and shuttering including strutting, propping, etc.								
c)	Columns, pillars, piers, abutments, posts and struts.								
	300x300mm column	6	1.20	6.60		sqm	47.520		
	250x250mm column	3	1.00	6.60		sqm	19.800		
					Total:	sqm	67.320	506.30	34,084.12
d)	Lintels, beams, plinth beams, girders, bressumers								
	Beams.								
	200x400 mm beam	2	15.8	0.10	sqm	3.160			
	250x400mm beam	2	40	1.05	sqm	84.000			

						Total:	sqm	87.16	400.10	34,872.72
e)	Suspended floors, roofs, landings, shelves and their									
	Slab									
	Floor	1	5.00		9.50	sqm	57.00			
	Gutter	1	34.60		0.75	sqm	25.95			
					Total:	sqm	82.95	536.30	44,486.09	
f)	Staircases (except spiral staircase) excluding landings.									
	Waist Slab	1	9.50		0.50	sqm	4.75			
	Step	2	8.50		0.20	sqm	3.40			
					Total:	sqm	8.15	442.30	3,604.75	
7/6.06	Half brick masonry with first class brick in superstructure above plinth level up to floor V									
(b)	in cement mortar 1 : 4 (1 cement : 4 fine sand)									
	First Floor	4	4.45	0.60		sqm	10.680			
		2	4.20	0.60		sqm	5.040			
	Deduction									
	Main Door	1	0.60	1.20		sqm	-0.720			
	Emergency Door	1	0.60	1.20		sqm	-0.720			
	Side drain									
	Bottom	1	10.40	0.30		sqm	3.120			
	Side	2	10.40	0.20		sqm	4.160			
					Total:	sqm	21.560	1032.90	22,269.32	
8/8.09	7.5cm thick brick masonry with first class brick in super structure above plinth level upto floor two level including eudne									
(b)	In cement mortar 1:4(1 cement: 4 coarse sand)									
	Ground Floor	4	4.45	2.30		sqm	40.940			
		2	4.20	2.30		sqm	19.320			
	Deduction									
	Window+Ventilation	8	1.65	0.90		sqm	-11.880			
	Main Door	1	1.50	1.20		sqm	-1.800			
	Emergency Door	1	1.50	1.20		sqm	-1.800			
					Total:	sqm	44.780	631.40	28,274.09	
9/9.06	Providing 1st class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.									
	Main door	2	1.20	0.075	0.10	cum	0.018			
		2	2.10	0.075	0.10	cum	0.032			
	Emergency Exit	2	1.20	0.075	0.10	cum	0.018			
		2	2.10	0.075	0.10	cum	0.032			
					Total =	cum	0.099	43660.30	4,322.37	

10/9.3 7	Providing and fixing 30mm thick panelled door shutter comprising of styles and rails of seasoned teak wood with panels of phenol formaldehyde synthetic resin bonded particle board 19mm thick with both sides teak								
	main door	1		1.20	2.10	sqm	2.52		
	emergency exit	1		1.20	2.10	sqm	2.52		
					Total =	sqm	5.04	6427.60	32,395.10
11/10. 11	Providing and fixing prefabricated M.S. equal angle in chaukhat for doors, windows and clerestory windows including fixing with 40 x 5mm M.S holdfast 40cm long at required spacing and applying priming (b) Using 50 x 50 x 6mm M.S.								
	Window + Ventilation	8	6.00			rm	48.00		
					Total =	rm	48.00	708.60	34,012.80
12/10. 05	Providing and fixing steel glazed doors, windows, ventilators of standard rolled steel sections, joints, mitered and welded with 15x3mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm size of 1:3:6 (1 cement : 3 coarse sand : 6 stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of glass panes with glazing clips and special metal sash nutty of (b) 4mm thick glass pane	8	1.65	0.90		sqm	11.88		
					Total =	sqm	11.88	3738.20	44,409.82
13/21. 07	12mm cement plaster 1 : 4 (1 cement : 3 fine sand).								
	Qty. B.F from S.					sqm	43.120		
	Qty. B.F from S.					sqm	89.560		
	Column								
	Main Column	6	3.60	1.20		sqm	25.920		
	Verandah Column								
		3	3.30	1.00		sqm	9.900		
	200x400 mm beam	1	11.50	0.85		sqm	9.775		
	250x400mm beam	1	30.40	1.05		sqm	31.920		
	250x400mm beam side first	1	21.50	0.40		sqm	8.600		
	Slab	1	6.00	9.50		sqm	57.000		
	Gutter	1	34.600	0.75		sqm	25.95		
	Ramp up	1	9.50	0.50		sqm	4.75		
	Side Drain	1	10.40	0.70		sqm	7.28		
				Total::		sqm	181.10	190.40	34,480.49

14/21.61	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and pthwood complete								
(a)	Ready mix pink/grey primer.								
	Chaukhat for								
	Main door	2	1.20		0.30	sqm	0.720		
		2	2.10		0.30	sqm	1.260		
	Emergency Exit	2	1.20		0.30	sqm	0.720		
		2	2.10		0.30	sqm	1.260		
	Qty. BF from S/No.	10/9.37	2.00	5.04		m ²	10.080		
	Qty. BF from S/No.	11/10.11	2.00	48.00		m ²	96.000		
				Total::		m ²	110.04	45.00	4,951.80
15/21.92	Painting with synthetic enamel paint of approved brand and manufacture in all shade on new								
(a)	General quality	Qty. BF from S/Nr 14/21.61				m ²	110.04	81.50	8,968.26
16/21.60	Applying one coat of cement primer of approved brand and manufacture on wall surface								
	Qty. BF from S/No.	13/21.07				m ²	181.10		
	Ceiling of First Floor	1	6.00	9.50		sqm	57.00		
	Total						238.10	53.80	12,809.51
17/14.08	Providing and fixing M.S. pull bolts lock conforming with IS :7534 bright finished with								
						Nos	8.00	34.30	274.40
18/14.07	Providing and fixing M.S. Tower bolts (socket bolts) bright finished with necessary screws								
(a)	300 mm					Nos	1.00	110.200	110.20
(d)	150 mm					Nos	1.00	64.100	64.10
19/14.10	Providing and fixing M.S. handles with necessary screws,								
(a)	150mm								
						Nos	8.00	73.200	585.60
20/16.13	Providing Trapezoidal Polyester Coated Galvanised Steel Sheets Roofing of any colour of 1.06m width at all levels including fitting and fixing ridging with self drilling, self tapping screws, EPDM washers etc. complete								
(i)	For 0.50 mm thick :								
		2	10.4	2.85		sqm	59.280		
		1	10.4	1.8		sqm	18.720		
				Total::		sqm	78.000	1015.70	79,224.60
21/18.9	Providing and fixing of pre-coated Galvanized Steel Sheet of any colour ridges, gutters or valleys 50 cm overall width, 0.50 mm thick with 150 mmm overlapping fixed with Self Drilling & Tapping with EPDM								
		1	19.80			rm	19.800		
				Total::		rm	19.800	909.30	18,004.14

[illegible]

	pipes including jointing with rubber lubricant for easy removal								
	(a) 110mm dia.					Rm	6.600	383.80	2,533.08
31/2.0 6	Earthwork in excavation over areas (exceeding 30cm in depth, 1.5m in width as well as 10sqm on plan) including disposal of excavated earth, lead								
	a) Ordinary and hard soil	0.5	9.50	3.20	3.10	cum	47.12		
					Total:	cum	47.12	284.30	13,396.22
								Total	1,777,818.22

Adding 7.5% for Electrification

Rs: 133,336.37

Adding 5% for Furniture

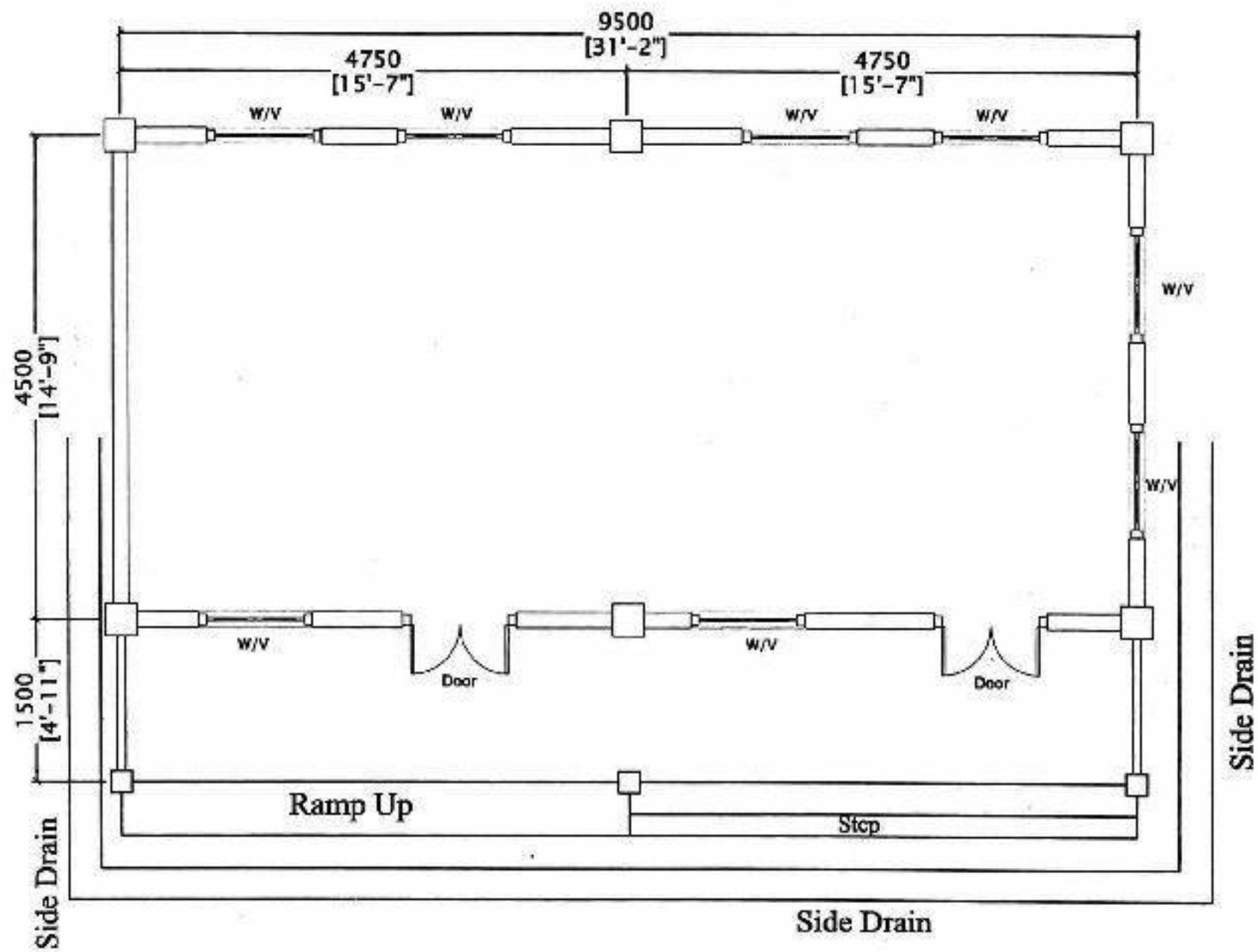
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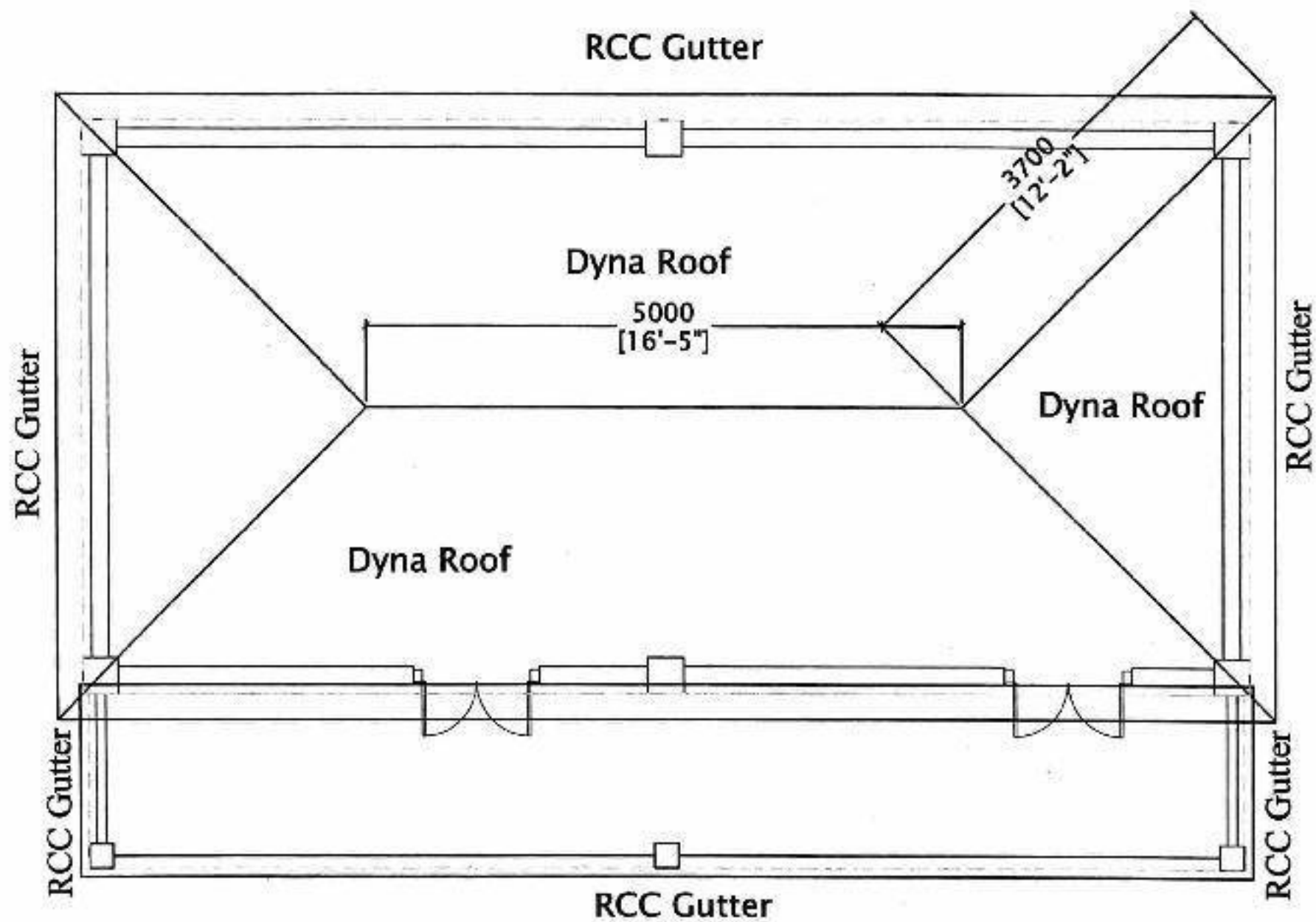
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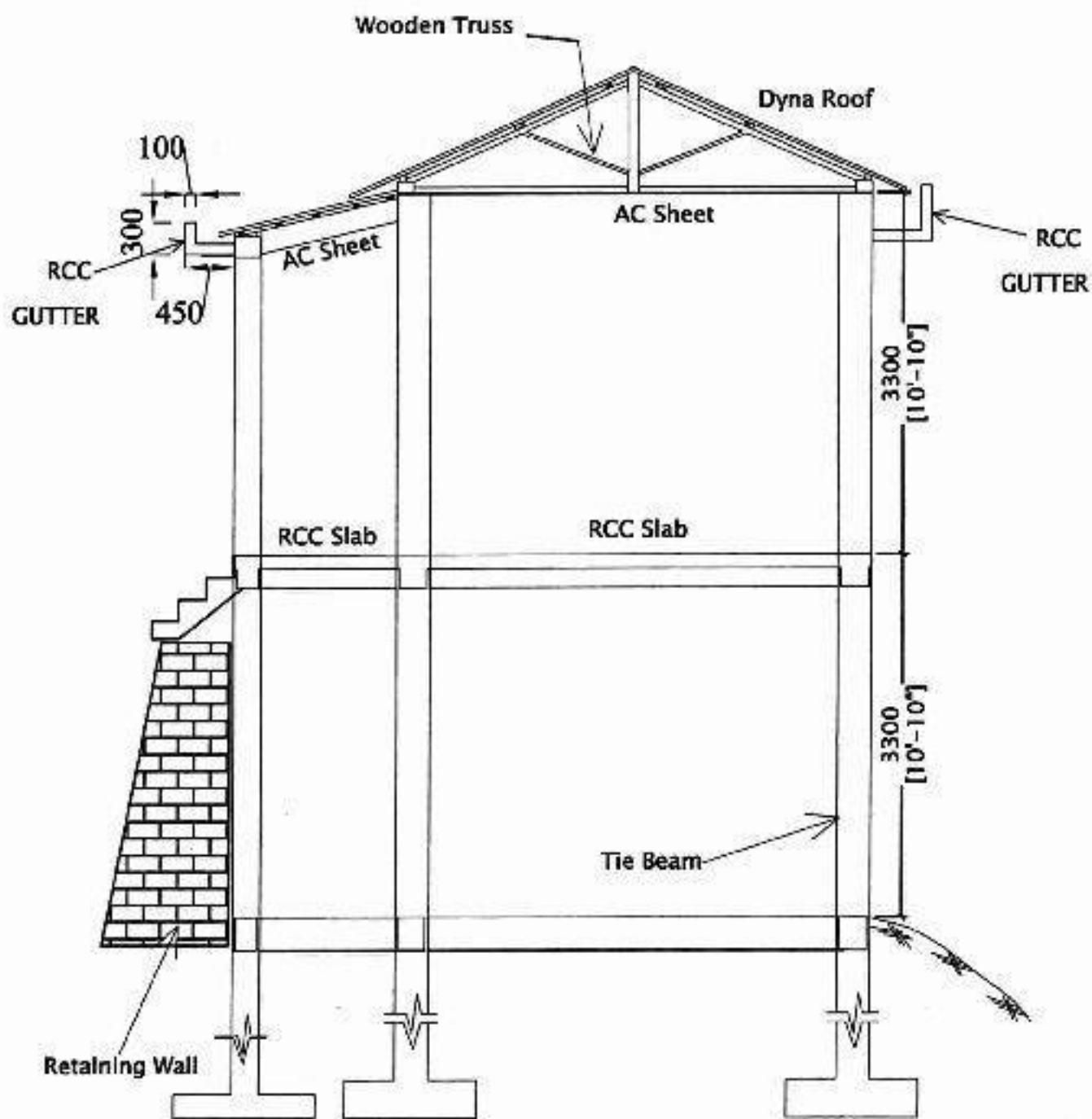
Say,

Rs: 2,000,000.00

(Rupees twenty lakh) only.







ESTIMATE FOR CONSTRUCTION OF ADDITIONAL CLASS ROOM AT GOVT.ZEMABAWK HSS									
Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/2.08	Earth work in excavation in foundation trenches...								
	(b) Hard Soil (Pick work)								
	Foundation for main column	18	1.20	1.20	1.50	cum	38.88		
	Foundation for verandah column	7	1.20	1.20	1.50	cum	15.12		
					Total:	cum	54.00	327.20	17,668.80
2/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each deposited layer by ramming and watering and lead upto 50 m and lift upto 1.50 meters.								
	Qty. BF from S.No.	1/2.08					54.00		
	Deduct from								
	Main Column	18	0.35	0.35	1.05	cum	-2.315		
	Verandah column	7	0.30	0.30	1.05	cum	-0.662		
	Footing	25	1.20	1.20	0.35	cum	-12.600		
	Column Foundation	25	1.20	1.20	0.10	cum	-3.600		
					Total:	cum	34.82	90.30	3,144.54
3/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth level :								
	(a) 1: 3: 6								
	Column Foundation	25	1.20	1.20	0.100	cum	3.600		
	Floor	1	18.00	8.000	0.100	cum	14.40		
	Ramp up	3	1.00	1.20	0.100	cum	0.360		
	Side drain								
	Bottom	1	60.00	0.30	0.125	sqm	2.250		
	Side	2	60.00	0.20	0.125	sqm	3.000		
					Total	cum	23.610	5968.30	140,911.56
4/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
	(a) All work upto								
	Footing	25	1.20	1.20	0.35	cum	12.600		
	Main Column	18	0.35	0.35	1.35	cum	2.98		
	Verandah column	7	0.30	0.30	1.35	cum	0.85		
					Total	cum	16.43	8847.30	145,336.81

	(b)	All work above plinth level up to Floor V											
		Main column	18	0.35	0.35	3.150	cum	6.948					
		Verandah column	7	0.30	0.30	3.150	cum	1.985					
						Total	cum	8.930					
		Plinth Beam											
			4	6.98	0.25	0.35	cum	2.441					
			2	15.90	0.25	0.35	cum	2.783					
			2	16.20	0.25	0.35	cum	2.835					
		Roof Beam	4	6.98	0.25	0.40	cum	2.790					
			2	15.90	0.25	0.40	cum	3.180					
			2	16.20	0.25	0.40	cum	3.240					
			1	16.95	0.30	0.50	cum	2.543					
			3	5.35	0.30	0.50	cum	2.408					
						Total	cum	22.219					
		Slab	1	18.35	8.33	0.125	cum	19.095					
						Total	cum	19.095					
						GT::		50.244	9393.30			471,961.37	
5/5.21		Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all											
	(f)	Thermo-Mechanically											
		Foundation	Qty. Bf from S.No.4/5.35		(a)	cum		16.43					
		@ 100 Kg/cum				Kg		1642.725					
		Column	Qty. Bf from S.No.4/5.35		(b)	cum		8.930					
		@ 310 Kg/cum				Kg		2768.378					
		Beam	Qty. Bf from S.No.4/5.35		(b)	cum		22.219					
		@ 270 Kg/cum				Kg		5999.063					
		Slab & Gutter	Qty. Bf from S.No.4/5.35		(b)	cum		19.095					
		@ 100 Kg/cum				Kg		1909.547					
					GT	Kg		#####	83.70			1,031,159.88	
6/5.11		Centering and shuttering											
	c)	Columns, pillars, piers, abutments, posts and struts.											
		Column											
		350x350mm column	1	81.00		1.40	sqm	113.400					
		300x300 mm column	1	31.50		1.20	sqm	37.800					
						Total:	sqm	151.200	506.30			76,552.56	
	d)	Lintels, beams, plinth beams, girders, Beams.											
		250X350 mm beam	1	92.100		1.05	sqm	96.705					
		250X400 mm beam	1	92.100		1.05	sqm	96.705					
		300x500 mm beam	1	33.000		1.30	sqm	42.900					
						Total:	sqm	236.31	400.10			94,547.63	
	e)	Suspended floors, roofs, landings, shelves and their support, balconies											
		Slab	1	18.35		8.33	sqm	152.76					
						Total:	sqm	152.76	536.30			81,927.20	

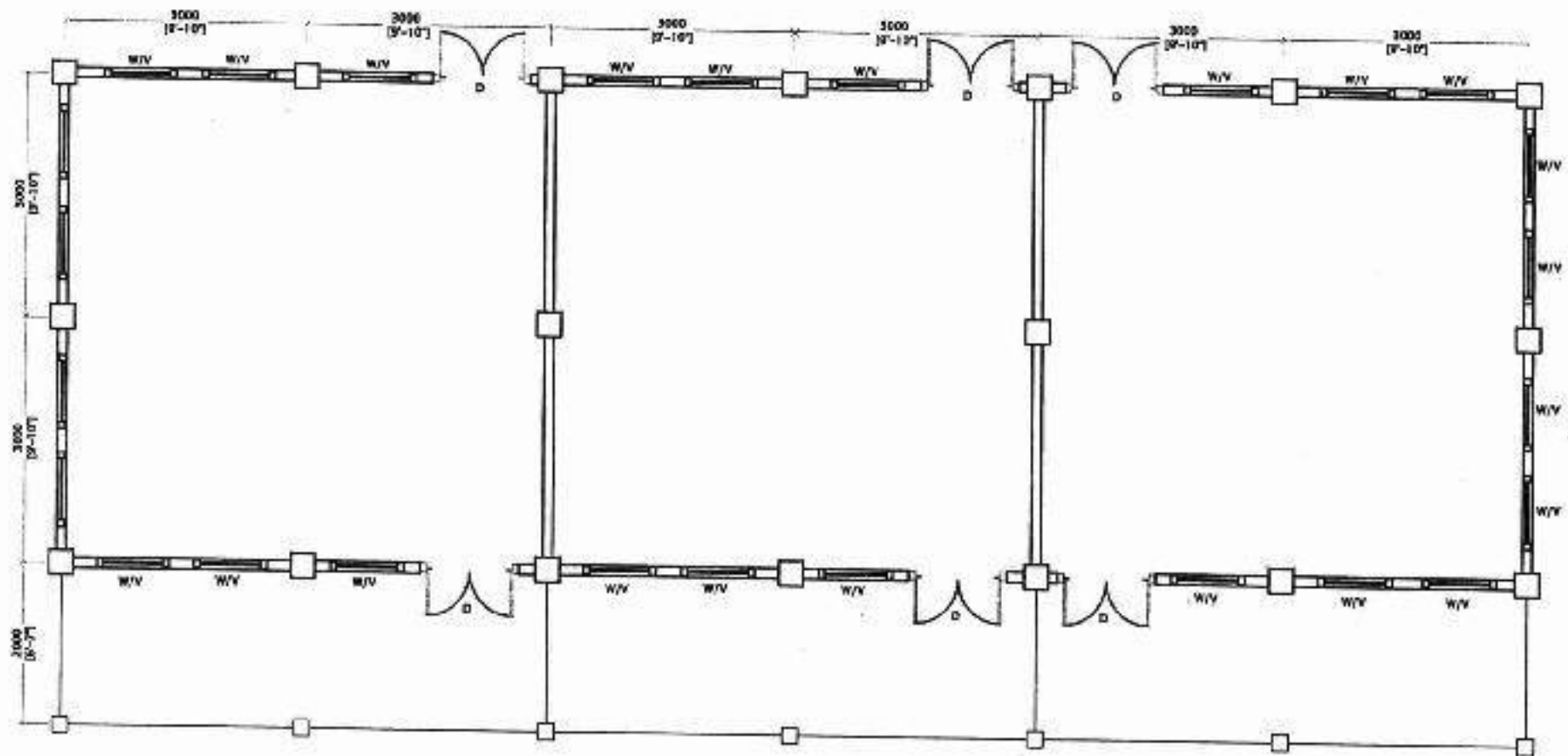
7/6.06	Half brick masonry with first class brick in superstructure above plinth level up to floor V								
(b)	in cement mortar 1 : 4 (1 cement : 4 fine								
	Skirting	1	42.75	0.60		sqm	25.650		
	Deduction								
	Main Door	3	0.60	1.20		sqm	-2.160		
	Emergency Door	3	0.60	0.90		sqm	-1.620		
					Total	sqm	21.870	1032.90	22,589.52
8/8.09	7.5 cm thick brick masonry with first class brick in superstructure above plinth level upto floor two level including								
(b)	in cement mortar 1 : 4 (1 cement : 4 fine								
	Wall above Skirting	1	42.75	2.15		sqm	91.913		
	Partition wall	2	5.48	2.75		sqm	30.113		
	Deduction								
	Window+Ventilation	28	1.55	0.90		sqm	-38.610		
	Main Door	3	1.50	1.20		sqm	-5.400		
	Emergency Door	3	1.50	0.90		sqm	-4.050		
					Total	sqm	73.985	831.40	46,701.50
9/9.06	Providing 1st class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.								
	Main door	3	1.20	0.075	0.10	cum	0.027		
		6	2.10	0.075	0.10	cum	0.095		
	Windows &	52	1.65	0.075	0.10	cum	0.644		
		78	0.90	0.075	0.10	cum	0.527		
					Total =	cum	1.292	43660.30	56,387.28
10/9.3	Providing and fixing 30mm thick panelled door shutter comprising of styles and rails of seasoned teak wood with panels of phenol formaldehyde synthetic resin bonded particle board 19mm thick with								
7									
	main door	3		1.20	2.10	sqm	7.56		
	Emergency door	3		0.90	2.10	sqm	5.67		
					Total =	sqm	13.23	6427.60	85,037.15
11/9.1	Providing and fixing 1st								
©	30mm thick								
	Windows &	26	1.65	0.90		sqm	38.61		
					Total =	sqm	38.61	2140.10	82,629.28

12/21.07	12mm cement plaster 1 : (1 cement : 3 fine sand).								
	Qty. B.F from S.	2	21.87			sqm	43.740		
	Qty. B.F from S.	2	73.97			sqm	147.930		
	Main Column	18	3.15	1.40		sqm	79.380		
	Verandah Column	7	3.16	1.20		sqm	26.510		
	Roof beam	1	92.10	1.05		sqm	96.705		
		1	33.00	1.30		sqm	42.90		
	Ceiling	1	18.00	8.00		sqm	144.00		
					Total::	sqm	581.17	190.40	110,653.89
13/12.01	1:2:4(1cement:2 sand:4 well graded stone aggregate 20mm nominal)								
	(a) 40mm thick	1	18	8.00		sqm	144.00		
					Total	sqm	144.00	432.80	62,323.20
14/21.61	Applying priming coat with ready mixed primer of approved brand and								
	(a) Ready mix pink/grey								
	Chaukhat for								
	Main door	3	1.20		0.30	sqm	1.080		
		6	2.10		0.30	sqm	3.780		
	Emergency door	3	0.90		0.30	sqm	0.810		
		6	2.10		0.30	sqm	3.780		
					Total::	sqm	9.45	45.00	425.25
15/21.92	Painting with synthetic enamel paint of approved								
	a) General quality	Qty. BF from	14/21.61			sqm	9.45		
		Qty. BF from	10/9.37	(both sides)		sqm	26.46		
				Total	sqm	35.91	81.50	2,926.67	
16/21.81	Finishing walls with water proofing cement paint of approved brand and manufactured and of								
	(b) Premium exterior emulsion like								
	Qty. BF from S/No.	12/21.07				sqm	581.17		
					Total::	sqm	581.17	93.00	54,048.38
17/21.60	Applying one coat of cement primer of								
	Qty. BF from S/No.	16/21.81				sqm	581.17	53.80	31,266.70
18/14.07	Providing and fixing M.S. Tower bolts (socket bolts) bright finished with								
	(a) 300 mm					Nos	3.00	110.200	330.80
19/14.10	Providing and fixing M.S. handles with necessary screws, etc. complete								
	(d) 150mm						102.000	84.100	6,538.20
20/14.05	pull bolt lock conforming IS:7534....								
						No	3.000	34.30	102.90

21/7.01	masonry with hard stone in foundation upto one storey above and below ground level including curing etc. complete.								
	⊗ (1 cement 6 fine								
	Plinth Protection	1	11.10	0.60	0.75	cum	4.995		
					Total	cum	4.995	4422.80	22,091.89
								Sub-Total	2,647,262.74
	Add 7.5% for internal								198,544.71
	Add 5% for Furniture								132,363.14
								Total	3,000,262.47
								Say,	3000000.00

(Rupees thirty lakh) only.

Zemabawk



ESTIMATE FOR CONSTRUCTION OF ADDITIONAL CLASS ROOM AT GOVT. CHALTANG HSS

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/2.08	Earth work in excavation in foundation trenches...								
	(b) Hard Soil (Pick work)								
	Foundation for Step column	2	1.20	1.20	1.20	cum	3.46		
					Total:	cum	3.46	327.20	1,130.80
2/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each deposited layer by ramming and watering and lead upto 50 m and lift upto 1.50 meters.								
	Qty. BF from S.No.	1/2.08					3.46		
	Deduct from earthwork								
	Step Column	2	0.35	0.35	0.75	cum	-0.184		
	Footing	2	1.20	1.20	0.35	cum	-1.006		
	Column Foundation	2	1.20	1.20	0.10	cum	-0.288		
					Total:	cum	1.98	90.30	178.48
3/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth level ;								
	(a) 1: 3: 6								
	Column Foundation	2	1.20	1.20	0.100	cum	0.288		
					Total	cum	0.288	5988.30	1,718.87
4/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
	(a) All work upto foundation & plinth level.								
	Footing	2	1.20	1.20	0.35	cum	1.008		
					Total	cum	1.01	8947.30	8,918.08
	(b) All work above plinth level up to Floor V level								
	Step Column	2	0.20	0.20	1.200	cum	0.096		
	Main column	16	0.30	0.30	3.150	cum	4.536		
	Verandah column	7	0.25	0.25	2.850	cum	1.247		
					Total	cum	5.879		
	Roof Beam	2	18.90	0.25	0.40	cum	3.780		
		1	19.25	0.25	0.40	cum	1.925		
		2	6.63	0.25	0.40	cum	1.325		
		6	1.23	0.25	0.40	cum	0.738		
		6	5.40	0.25	0.45	cum	3.645		
					Total	cum	11.413		
	Slab	1	21.00	7.50	0.125	cum	19.688		
					Total	cum	19.688		
	Steps	21	1.50	0.30	0.075	cum	0.709		
	Waist Slab	1	7.04	1.50	0.150	cum	1.584		
					Total	cum	2.293		
					GT::		39.272	9393.30	368,894.85
5/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete								
	(f) Thermo-Mechanically Treated Bars								
	Foundation	Qty. BF from S.No.4/5.35	(a)			cum	1.01		
		@ 100 Kg/cum				Kg	100.800		
	Column	Qty. BF from S.No.4/5.35	(b)			cum	5.879		
		@ 310 Kg/cum				Kg	1822.451		
	Beam	Qty. BF from S.No.4/5.35	(c)			cum	11.413		
		@ 270 Kg/cum				Kg	3081.510		
	Slab & Gutter	Qty. BF from S.No.4/5.35	(b)			cum	19.688		

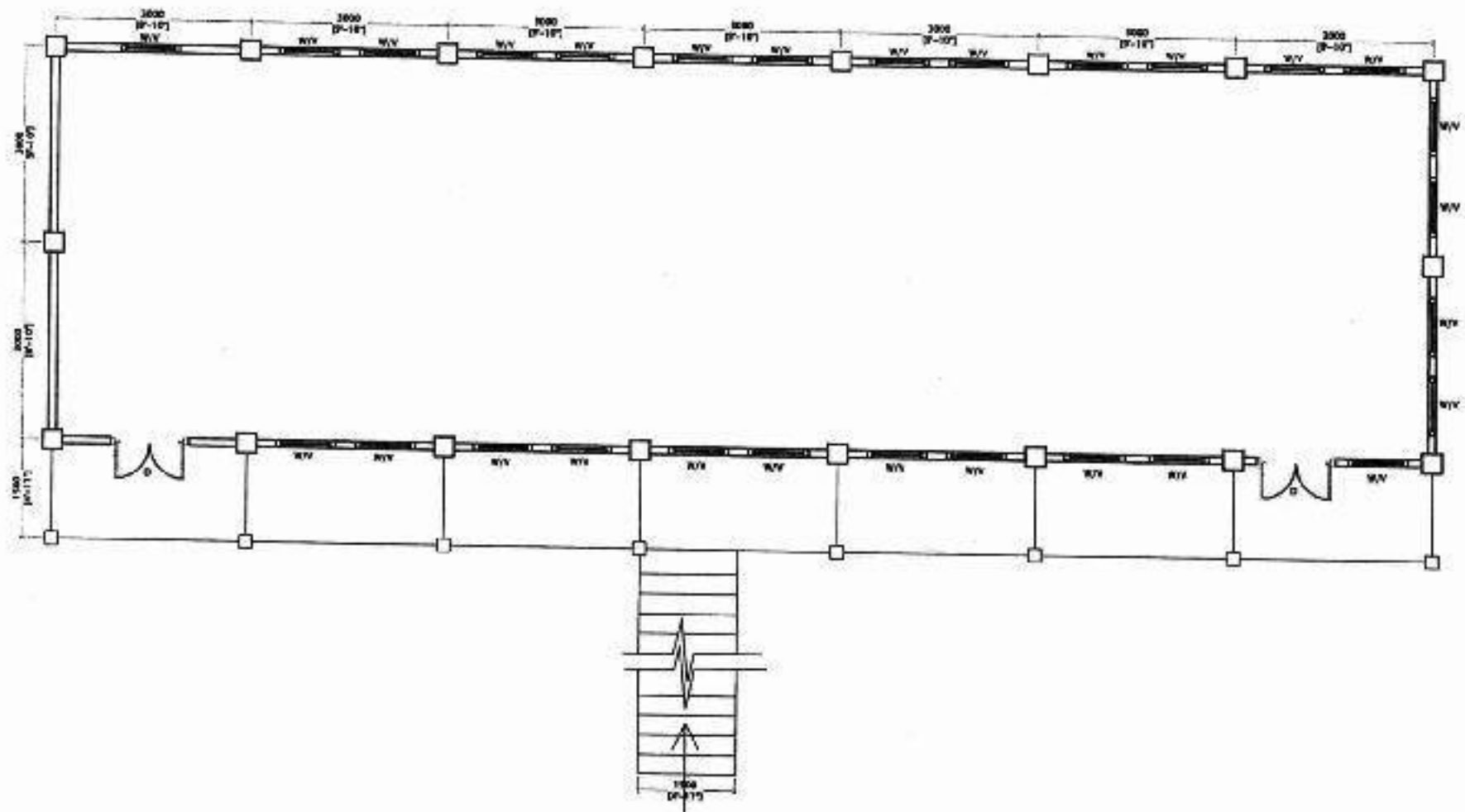
Sl. No.	Particulars	Unit	Qty	Rate	Amount
1	100 Kg/cum	Kg	1958.750		1958.750
2	Step				
3	Only Bt from S.No.4/5.35				
4	120 Kg/cum	Kg	275.130		275.130
5	6/5.11	GT	7245.641		7245.641
6	Centering and shuttering including strutting, propping, etc. and removal of form works in -				
7	(c) Columns, piers, piers, abutments, posts and struts.				
8	Column				
9	300x300 mm column	sqm	79.380		79.380
10	250x250 mm column	sqm	31.820		31.820
11	Total	sqm	111.200		508.30
12	58.351.19				
13	(d) Lintel, beams, pith beams, girders, pressure and cantilevers, etc.				
14	Beams.				
15	250x400 mm beam	sqm	81.664		81.664
16	250x450 mm beam	sqm	37.280		37.280
17	Total	sqm	118.944		400.10
18	47.561.48				
19	(e) Suspended floors, roofs, landings, shelves and steel support, balconies and external etc.				
20	Shb				
21	21.00	sqm	157.50		157.50
22	1.90	sqm	10.56		10.56
23	0.15	sqm	4.73		4.73
24	0.15	sqm	0.95		0.95
25	Total	sqm	173.73		536.30
26	93.171.40				
27	7/5.06				
28	Halt brick masonry with first class brick in level				
29	(b) In cement mortar 1 : 4 (1 cement : 4 fine sand)				
30	Skirting				
31	48.60	sqm	29.160		29.160
32	Deduction				
33	Main Door				
34	2	sqm	-1.440		-1.440
35	Total	sqm	27.720		1032.90
36	28.631.59				
37	8/6.09				
38	7.5 cm thick brick masonry with first class brick in superstructure above pith level upto floor				
39	(b) In cement mortar 1 : 4 (1 cement : 4 fine sand)				
40	Wall above Skirting				
41	48.60	sqm	104.490		104.490
42	Deduction				
43	Window-Ventilation				
44	28	sqm	-41.580		-41.580
45	1.50	sqm	-3.600		-3.600
46	Total	sqm	59.310		631.40
47	37.448.33				
48	8/9.06				
49	Providing 1st class local wood dressed in frames of chakat for doors, windows, doorway windows fixed in position.				
50	Main door				
51	2	sqm	1.20		1.20
52	0.80	sqm	-3.600		-3.600
53	Total =	sqm	0.00		0.00
54	0.10	cum	0.016		0.016
55	0.10	cum	0.063		0.063
56	0.10	cum	0.683		0.683
57	0.10	cum	0.587		0.587
58	Total =	cum	1.341		43880.30
59	55.545.46				
60	10/9.3				
61	Providing and fixing 30mm thick paneled door shutter comprising of styles and rails of seasoned teak wood with panels of phenol formaldehyde synthetic resin bonded particle board 15mm thick with both sides teak ply veneering on both faces...				
62	2	sqm	1.20		1.20
63	2.10	sqm	2.10		2.10
64	Total =	sqm	5.04		5.04
65	6427.60				
66	32.385.10				

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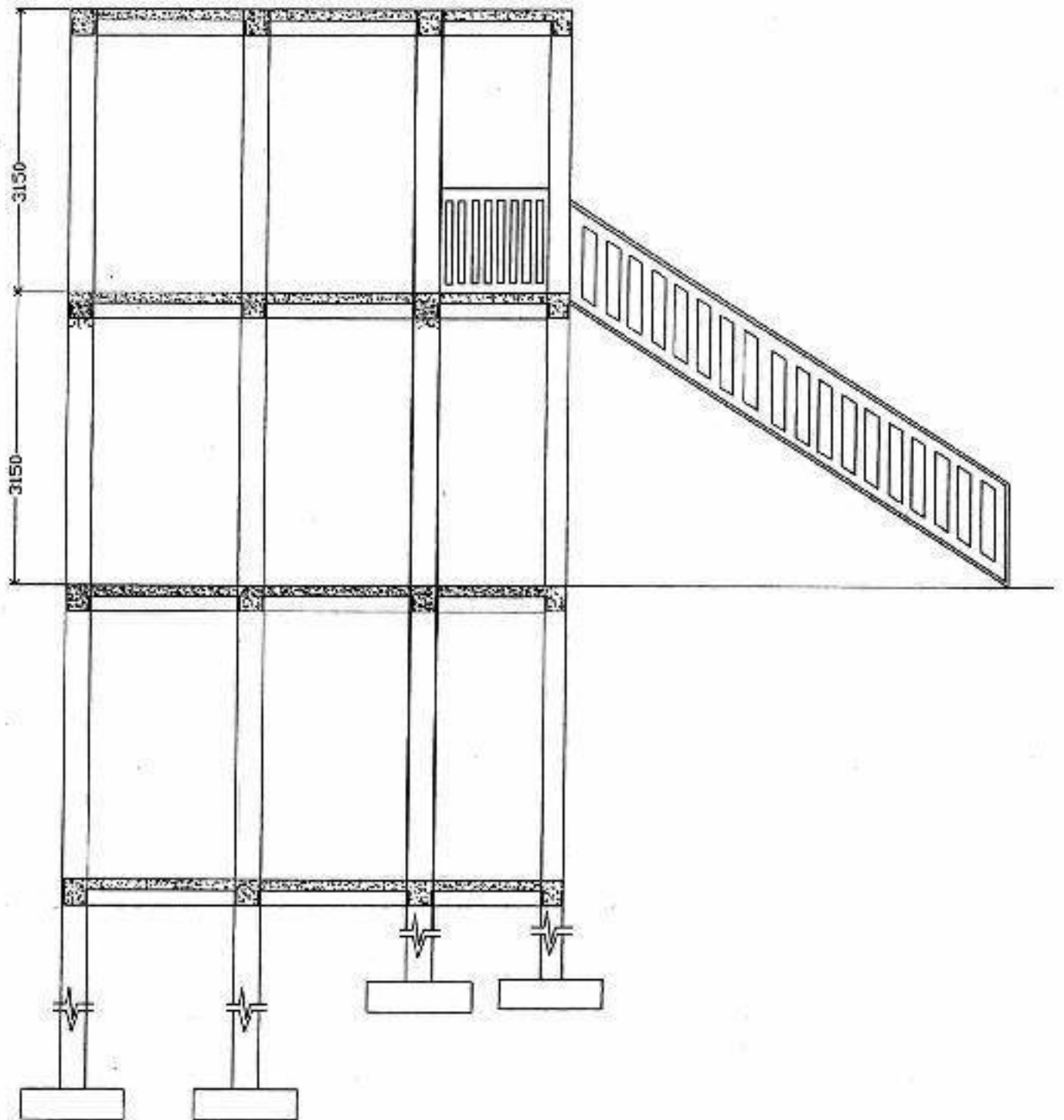
25/10/06	Supplying and fixing MS decorative railing 80 cm high in staircase..... including cost of polishing the wooden rails.					Rm	36.580	1708.00	82,478.64
								Sub-Total	1,778,123.80
	Add 7.5% for Internal electrification								133,359.28
	Add 5% for Furniture								88,906.19
								Total	2,000,389.27
								Say,	2000000.00

(Rupees twenty lakh) only.

Chaltlang HSS



chafferny HSS



ESTIMATE FOR CONSTRUCTION OF MAMAWI GOVT HIGHER SECONDARY SCHOOL

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/2.08	Earth work in excavation in foundation trenches...								
	(b) Hard Soil (Pick work)								
	Column Foundations								
	Main Column	8	1.50	1.50	1.50	cum	27.00		
	Verandah Column	4	1.20	1.20	1.20	cum	6.91		
					Total:	cum	33.91	327.20	11,096.01
2/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each deposited layer by ramming and								
	Qty. BF from S.No.	1/2.08					33.91		
	Deduct from earthwork								
	Main Column	8	0.30	0.30	1.05	cum	-0.756		
	Verandah Column	4	0.25	0.25	1.05	cum	-0.263		
	Footling								
	Main Column Footing	8	1.50	1.50	0.35	cum	-6.300		
	Verandah Column Footing	4	1.50	1.50	0.35	cum	-3.150		
	Column Foundation								
	Main Column Foundation	8	1.50	1.50	0.10	cum	-1.800		
	Verandah Column Foundation	4	1.20	1.20	0.10	cum	-0.676		
					Total:	cum	21.07	90.30	1,902.40
3/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth								
	(a) 1: 3: 6								
	Main Column Foundation	8	1.50	1.50	0.100	cum	1.800		
	Verandah Column Foundation	4	1.20	1.20	0.100	cum	0.576		
	Retaining Wall	1	13.50	0.30	0.100	cum	0.405		
					Total	cum	2.781	5668.30	16,597.54
4/5.38	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and								
	(a) All work upto foundation & plinth								
	Footling								
	Main Footling	8	1.50	1.50	0.350	cum	6.30		
	Verandah Footling	4	1.20	1.20	0.350	cum	2.02		
					Sub-Total	cum	8.32		
	Main Column	8	0.30	0.30	1.050	cum	0.76		
		4	0.25	0.25	1.050	cum	0.26		
					Sub-Total	cum	1.02		
					Total	cum	9.33	8847.30	82,585.12
	(b) All work above plinth level up to Floor V level								
	Ground Floor								
	Main Column	8	0.30	0.30	3.300	cum	2.38		
	Verandah Column	4	0.25	0.25	3.000	cum	0.75		
	Last Row	4	0.30	0.30	2.100	cum	0.76		
	Middle Row	4	0.30	0.30	0.500	cum	0.18		
					Sub Total	cum	4.06		
	Ground Floor Beam								
		10.000	4.200	0.250	0.400	cum	4.20		
	Ground Floor Verandah Beam	3.000	4.300	0.200	0.400	cum	1.03		
		4.000	1.550	0.200	0.400	cum	0.50		
	Roof Top Beam								
		10.000	4.200	0.250	0.350	cum	3.68		
	Roof Top Verandah Beam	3.000	4.300	0.200	0.350	cum	0.90		
		4.000	1.550	0.200	0.350	cum	0.43		
	Lintel Beam								
	First Floor	8.000	4.200	0.125	0.125	cum	0.53		
					Sub Total	cum	11.27		

	Gutter								
	Bottom along the length	2.000	14.400	0.450	0.100	cum	1.30		
	Side along the length	2.000	14.400	0.300	0.100	cum	0.86		
	Bottom along the length	2.000	7.200	0.450	0.100	cum	0.65		
	Side along the length	2.000	7.200	0.300	0.100	cum	0.43		
	Slab								
		1.000	7.200	13.500	0.125	cum	12.15		
	Step	2.000	9.000	0.020		cum	0.36		
	Waist Slab	1.000	9.000	0.500	0.125	cum	0.58		
	Ramp up	1.000	4.500	0.500	0.125	cum	0.28		
					Sub Total	cum	16.59		
					GT:-		37.19	9393.30	349,367.36
5/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and								
	(f) Thermo-Mechanically Treated								
	Foundation	Quantity from 4/5.3	8.32	100Kg/m	kg		831.6		
	Column	Quantity from 4/5.3	5.08	310Kg/m	kg		1574.955		
	Beam	Quantity from 4/5.3	11.27	270Kg/m	kg		3041.550		
	Slab + Gutter+Chajjas + Step	Quantity from 4/5.3	16.59	100Kg/m	kg		1659.375		
				Total::	kg		7107.480	83.70	594,896.08
6/5.11	Centering and shuttering including strutting, propping, etc. and removal								
	(c) Columns, pillars, piers, abutments, posts and struts								
	300x300mm column	8	1.20	3.30	sqm		31.680		
	250x250mm column	4	1.00	3.00	sqm		12.000		
				Total:	sqm		43.680	508.30	22,115.18
	(d) Lintels, beams, plinth beams, girders, bressumers and Beams								
	200x400 mm beam	2	15.8	0.10	sqm		3.160		
	250x400mm beam	2	36.8	1.05	sqm		77.280		
				Total:	sqm		80.44	400.10	32,184.04
	(e) Suspended floors, roofs, landings, shelves and their Slab								
	Floor	1	7.20	13.50	sqm		97.20		
	Gutter	1	43.20	0.75	sqm		32.40		
				Total:	sqm		129.60	536.30	69,504.48
	(f) Staircases (except spiral staircase) excluding landings								
	Waist Slab	1	13.50	0.50	sqm		6.75		
	Step	2	9.00	0.15	sqm		2.70		
				Total:	sqm		9.45	442.30	4,179.74
7/5.06	Half brick masonry with first class brick in superstructure above plinth level up to floor V level								
	(b) in cement mortar 1 : 4 (1 cement : 4 fine sand)								
	First Floor	8	4.20	0.60	sqm		20.160		
	Deduction								
	Main Door	2	0.60	1.20	sqm		-1.440		
	Emergency Door	1	0.60	1.20	sqm		-0.720		
	Side drains								
	Bottom	1	23.40	0.30	sqm		7.020		
	Side	2	23.40	0.20	sqm		9.360		
				Total:	sqm		34.380	1032.90	35,511.10
8/5.09	7.5cm thick brick masonry with first class brick in super structure above plinth level upto floor two level								
	(b) in cement mortar 1:4(1 cement: 4 coarse sand)								
	Ground Floor	8	4.20	2.30	sqm		77.280		
	Deduction								
	Window+Ventilation	11	1.65	0.90	sqm		-18.335		
	Main Door	2	1.50	1.20	sqm		-3.600		
	Emergency Door	1	1.50	1.20	sqm		-1.800		
				Total:	sqm		55.545	631.40	35,071.11

9/9.06	Providing 1st class local wood dressed in frames of chaukhat for doors, windows, clerestory windows fixed in position								
	Main door	4	1.20	0.075	0.10	cum	0.036		
		4	2.10	0.075	0.10	cum	0.063		
	Emergency Exit	2	1.20	0.075	0.10	cum	0.018		
		2	2.10	0.075	0.10	cum	0.032		
					Total =	cum	0.149	43660.30	6,483.55
10/9.37	Providing and fixing 30mm thick paneled door shutter comprising of styles and rails of seasoned teak wood with panels of phenol formaldehyde synthetic resin bonded particle board 19mm thick with both sides finished with glass paper								
	main door	2		1.20	2.10	sqm	6.04		
	emergency exit	1		1.20	2.10	sqm	2.52		
					Total =	sqm	7.66	6427.80	48,592.66
11/10.1 1	Providing and fixing prefabricated M.S. equal angle in chaukhat for doors, windows and clerestory windows including fixing with 40 x 5mm M.S holdfast 40cm long at required spacing and applying primer coat with approved steel								
	(b) Using 50 x 50 x 6mm M.S. angle.								
	Window + Ventilation	11	6.00			m	66.00		
					Total =	m	66.00	708.60	46,767.80
12/10.0 5	Providing and fixing steel glazed doors, windows, ventilators of standard rolled steel sections, joints, mitered and welded with 15x3mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm size of 1:3:6 (1 cement : 3 coarse sand : 6 stone aggregate 20mm nominal size) or with wooden plugs and screws or real plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of glass panes with glazing clips and special metal sash putty of approved make complete including								
	(b) 4mm thick glass pane	11	1.65	0.90		sqm	16.34		
					Total =	sqm	16.34	3738.20	61,063.50
13/21.0 7	12mm cement plaster 1 : 4 (1 cement : 3 fine sand).								
	Qty. B.F from S.					sqm	68.760		
	Qty. B.F from S.					sqm	111.090		
	Column								
	Main Column	8	3.30	1.20		sqm	31.680		
	Verandah Column								
		4	3.00	1.00		sqm	12.000		
	200x400 mm beam	1	12.00	0.85		sqm	10.200		
	250x400mm beam	10	4.20	1.05		sqm	44.100		
	Slab	1	7.20	13.60		sqm	97.200		
	Gutter	1	43.200	0.75		sqm	32.40		
	Ramp up	1	13.50	0.50		sqm	6.75		
					Total:	sqm	234.33	190.40	44,618.43
14/21.61	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and aluminium components								
	(a) Ready mix pink/grey primer								
	Chaukhat for								
	Main door	4	1.20		0.30	sqm	1.440		
		4	2.10		0.30	sqm	2.520		
	Emergency Exit	2	1.20		0.30	sqm	0.720		
		2	2.10		0.30	sqm	1.260		
	Qty. BF from S/No.	10/9.37	2.00	7.56		m ²	15.120		
	Qty. BF from S/No.	11/10.11	2.00	66.00		m ²	132.000		
					Total::	m ²	153.06	45.00	6,887.70

[illegible]

25/10.0	Supplying and fixing MS decorative railing 80 cm high in staircase consisting of 25 mm aluminium square sections inserted into 20 mm dia MS bars @ 30 cm centres 60x60x4mm thick plate at the base fixed with wooden wedge by IN								
9									
						Rm	3.200	1708.00	5,465.60
26/21.88	Finishing walls with regular exterior emulsion of required shade on new works(three or more coats) to give an even shade								
	(a) Regular exterior emulsion like super coats, walmasta etc.								
	Qty BF from S.No	1821.6				sqm	331.530	352.69	116,927.32
27/21.84	paint of approved brand and manufacture on new works(two or more coats).								
	(a) General quality								
	Qty BF from S.No	1821.6				sqm	331.530		
						Total	sqm	331.530	52.10
									17,272.71
30/17.49	Providing and fixing on wall face SWRPVC soil, waste and vent pipes including jointing with rubber								
	(a) 110mm dia.					Rm	4.000	383.80	1,535.20
								Total	1,966,824.09

Adding 7.5% for Electrification

Adding 5% for Furniture

Rs: 146,671.81

Rs: 97,781.20

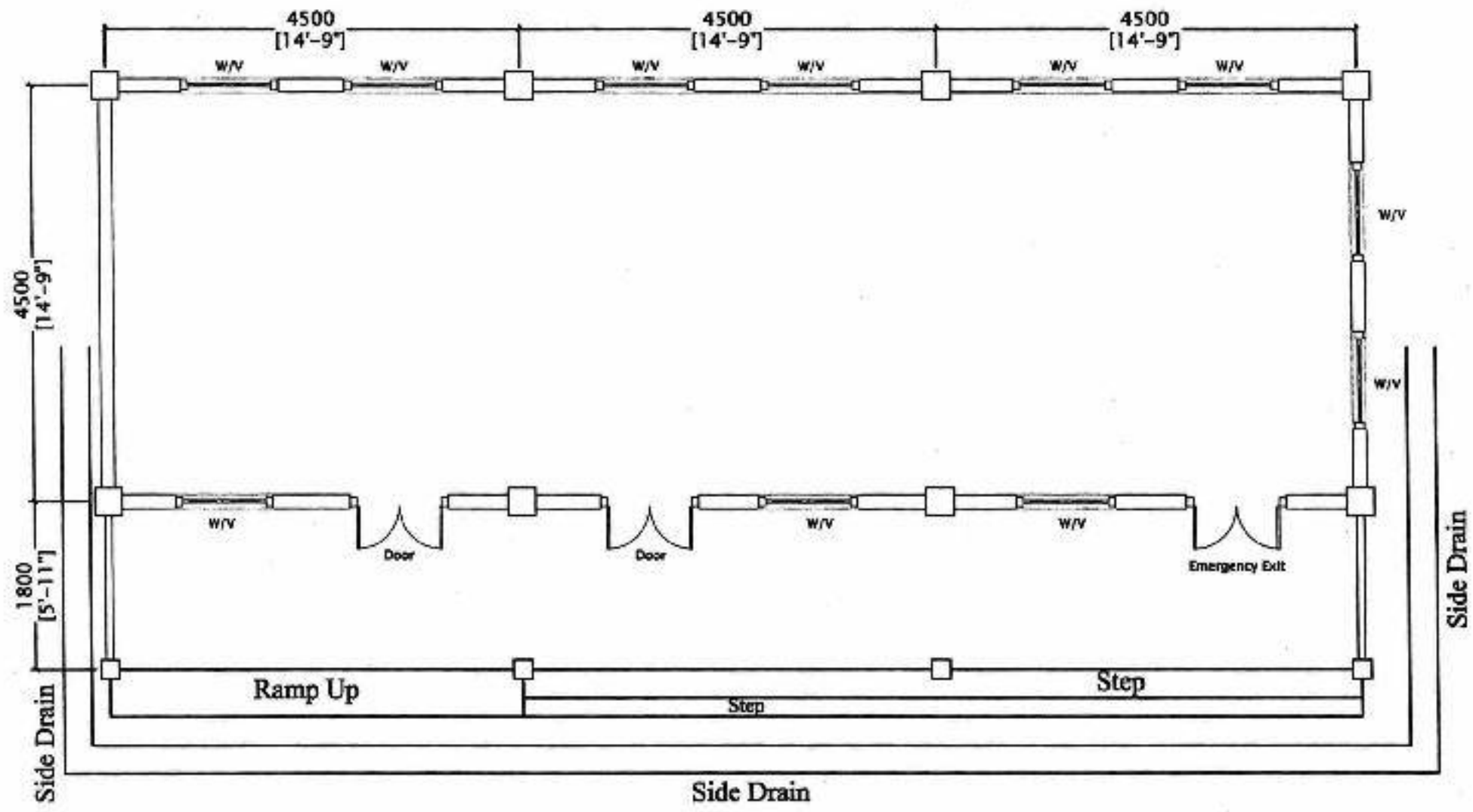
Rs: 2,200,077.10

Rs: 2,200,000.00

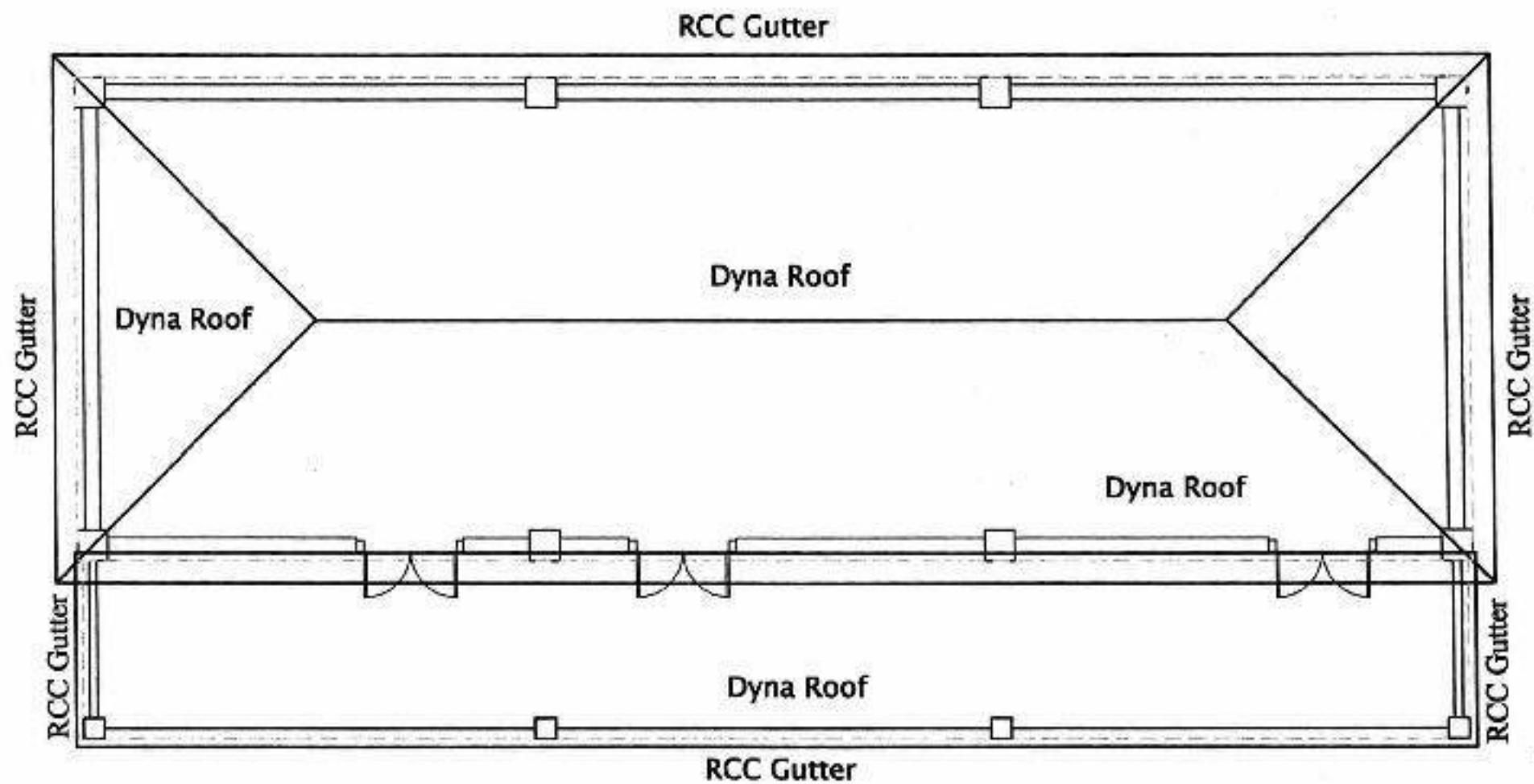
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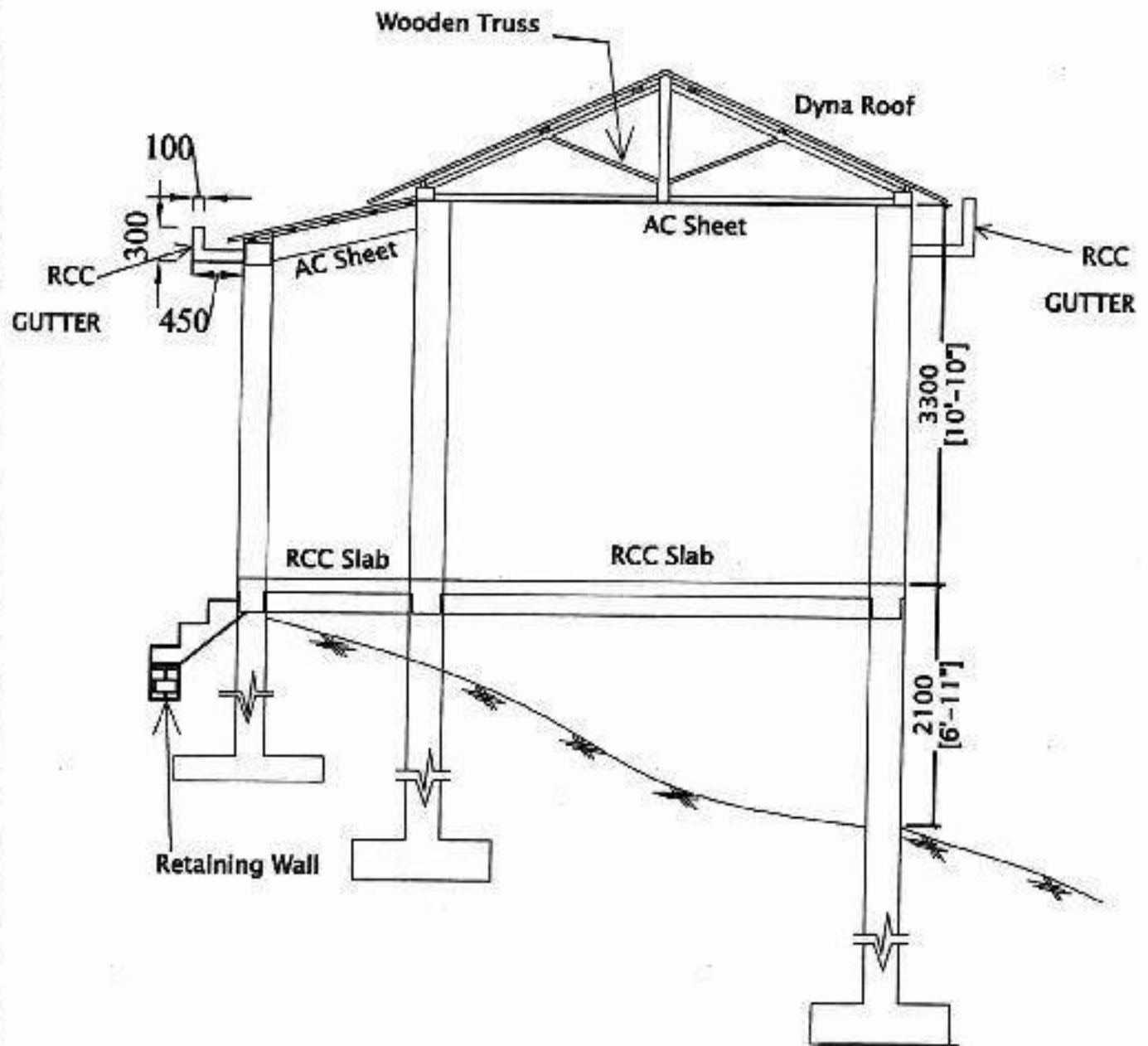
(Rupees twenty two lakh) only.

Mauwa 001 #SS



Memorandum HSS





ESTIMATE FOR CONSTRUCTION OF ADDITIONAL CLASSROOM AT KM HSS, AIZAWL

S.No	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
	(b) All work above plinth level up to Floor V level								
	Column								
	C1	10	0.35	0.35	4.500	cum	5.51		
	Beam								
		2	13.40	0.25	0.35	cum	2.41		
		5	7.20	0.25	0.35	cum	3.24		
		4	3.60	0.25	0.35	cum	1.30		
	Slab								
		1	13.40	7.20	0.150	cum	14.47		
		1	3.60	3.60	0.150	cum	1.84		
	Stairs	2	3.30	1.20	0.200	cum	1.58		
	Landing	1	1.20	1.20	0.200	cum	0.29		
						GT::	30.75	9393.30	285,629.89
2/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete								
	(f) Thermo-Mechanically Treated Bars								
	Column Quantity from	1/5.35	5.51	310	Kg/cum	kg	1708.875		
	Beam Quantity from	1/5.35	6.95	270	Kg/cum	kg	1875.960		
	Slab Quantity from	1/5.35	16.42	100	Kg/cum	kg	1641.6		
	Stairs (incl landing) Quantity from	1/5.35	1.87	120	Kg/cum	kg	224.64		
					Total:	kg	5451.075	83.70	458,254.98
3/5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in -								
	(c) Columns, pillars, piers, abutments, posts and struts.								
	Column								
	C1	10	1.40		4.50	sqm	83.000		
					Total:	sqm	83.000	506.30	31,896.90
	(d) Lintels, beams, plinth beams, girders, breasumers and cantilevers, etc.								
	Beams.	2	13.40		0.97	sqm	25.886		
		5	7.20		0.97	sqm	34.920		
		4	3.60		0.97	sqm	13.868		
					Total:	sqm	74.68	536.30	40,160.29
	(e) Suspended floors, roofs, landings, shelves and their support, balconies and chajja, etc.								
	Slab	1	13.400		7.20	sqm	96.480		
		2	13.400		0.15	sqm	4.020		
		2	7.200		0.15	sqm	2.160		
		1	3.600		3.60	sqm	12.960		
		2	3.600		0.15	sqm	1.080		
		2	3.600		0.15	sqm	1.080		
	Landing	1	1.200		1.20	sqm	1.44		
		2	1.20		0.20	sqm	0.48		
		2	1.20		0.20	sqm	17.52		
					Total:	sqm	137.22	536.30	73,591.09
	(f) Staircases (except spiral staircase) excluding landings.								
		2	3.30		1.20	sqm	7.92		
		4	3.30		0.20	sqm	2.64		
					Total:	sqm	10.56	442.30	4,670.89
4/5.09	7.5 cm thick brick masonry with first class brick in superstructure above plinth level upto floor two level including curing, etc. complete.								
	(b) in cement mortar 1 : 3 (1 cement : 3 fine sand)								
		2	11.10	3.30		sqm	73.260		
		2	5.80	3.30		sqm	38.940		
	Deduction								
	Main Door	1	1.20	2.10		sqm	-2.520		
	Windows	10	0.90	1.65		sqm	-14.850		
					Total:	sqm	94.830	658.10	62,217.98
5/9.06	Providing let class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.								
	Main door	2	1.20	0.100	0.10	cum	0.024		
		2	2.10	0.075	0.10	cum	0.032		
					Total =	cum	0.056	43660.30	2,423.15
6/9.37	Providing and fixing 30mm thick panelled door shutter comprising of styles and rails of seasoned								
	main door	1		1.20	2.10	sqm	2.52		
					Total =	sqm	2.52	6427.60	16,197.55
7/10.1	Providing and fixing prefabricated M.S. equal angle in chaukat for doors, windows and								
1									

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
	clerestory windows including fixing with 40 x 5mm M.S. holdfast 40cm long at required spacing and applying priming coat with approved steel primer etc. complete.								
	(a) Using 60 x 60 x 5mm M.S. angle.								
	Window + Ventilation	10	2.70	4.95		m	133.55		
					Total =	m	133.55	838.40	85,322.16
8/10.0 5	Providing and fixing steel glazed doors, windows, ventilators of standard rolled steel sections, joints.								
	(a) 3mm thick glass pane	10	1.65	0.90		sqm	14.85		
					Total =	sqm	14.85	3604.40	53,525.34
9/10.0 7	Providing and fixing M.S. Grills with 18mm flats M.S. of desired sections, fixed and welded in position in the pre-fabricated steel framed windows etc. including applying priming coat etc. complete.								
	(a) Using 3mm thick section.								
		10	1.65	0.90		sqm	14.85		
					Total =	sqm	14.85	1084.60	16,100.31
10/21. 10	15mm cement plaster 1 : 3 (1 cement : 3 fine sand).								
	Qty. B.F from S. No.	4/8.09				sqm	94.830		
	both sides						189.660		
	Ceiling	1	13.40		7.20	sqm	96.480		
	Stairs	2	3.3		1.2	sqm	7.920		
					Total::	sqm	294.06	242.20	71,221.33
11/21. 61	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.								
	(a) Ready mix pink/grey primer.								
	Chaukhat for								
	Main door	2	1.20		0.30	sqm	0.720		
		2	2.10		0.30	sqm	1.260		
	Door panel (both sides)	2	1.20		2.10	sqm	5.040		
					Total::	m ²	7.02	45.00	315.90
12/21. 92	Painting with synthetic enamel paint of approved brand and manufacture in all shade on new work								
	(a) General quality	Qty. B.F from S/No 11/21.61				m ²	7.02	81.50	572.13
13/21. 81	Finishing walls with water proofing cement paint of approved brand and manufactured and of required shade on new work (three or more coats) to give an even shade.								
	(b) Premium exterior emulsion like weathercoote, weather shield etc.								
	Qty. B.F from S/No.	10/21.10		294.06		m ²	294.06		
					Total::	m ²	294.06	93.00	27,347.58
14/21. 60	Applying one coat of cement primer of approved brand and manufacture on wall surface.								
	Qty. B.F from S/No.	10/21.10				m ²	294.06		
	Total						294.06	53.80	15,820.43
15/14. 07	Providing and fixing M.S. Tower bolts (socket bolts) bright finished with necessary screws etc. complete.								
	(a) 300 mm					Nos	4.00	110.200	440.80
16/14. 10	Providing and fixing M.S. handles with necessary screws, etc. complete								
	(a) 150mm					Nos	4.00	73.200	292.80
17/10. 09	Supplying and fixing MS decorative railing 80 cm high in staircase consisting of 25 mm aluminium square sections inserted into 20 mm dia MS bars @ 30 cm centres 80x60x4mm thick plate at the base fixed with wooden wedge by IW screws to receive the wooden handrails 12.5cmx10cm including cost of polishing the wooden rail								
	Step					Rm	13.600	1708.00	23,228.80
18/12. 01	Cement concrete flooring 1:2:4 (1 cement : 2 sand : 4 well graded stone aggregate 20mm size) finished with a floating coat neat cement including cement slurry etc. complete but excluding the cost of nosing of steps etc.								
	For floor	1	13.40	7.20		m ²	96.48		
		1	3.60	3.60		m ²	12.96		
					Total::	m ²	109.44	432.80	47,365.63

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
18/20.	Applying double coated cement slurry with water proofing chemical (SUPER latex chemical) in proportion 1 : 4 : 7 (1 latex : 4 water : 7 cement) including cleaning the treated surfaces with brushes etc. @ 0.15kg/sqm								
17									
	For floor (Qty bf from Item No.)	18/12.01				m ²	109.44		
						Total::	m ²	109.44	148.50
									18,251.84
								G.T.::	1,334,053.54

Add 7.5% for Internal Electrification as well as installations, complete

Add 5% for Furniture

G.T:

100,054.02

66,702.68

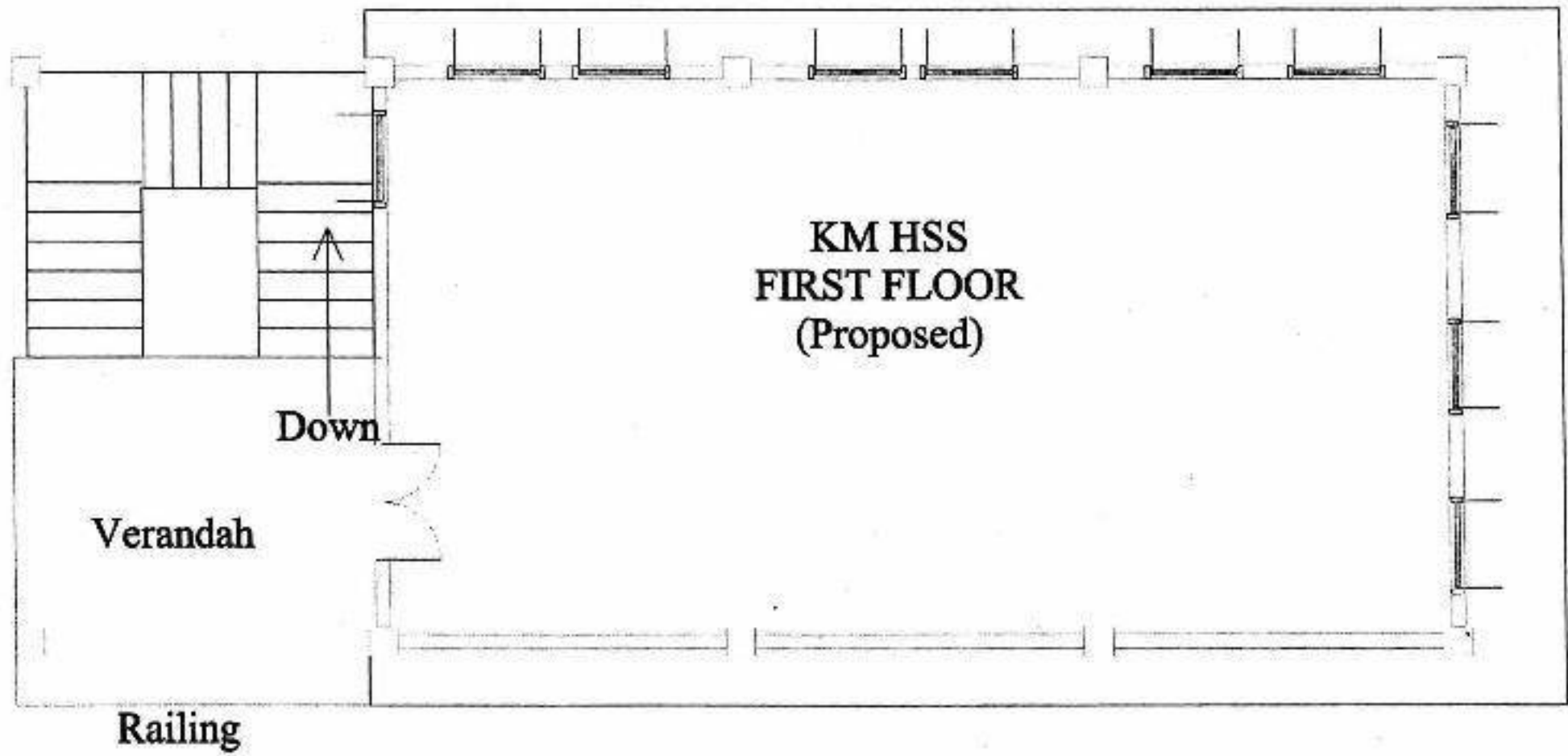
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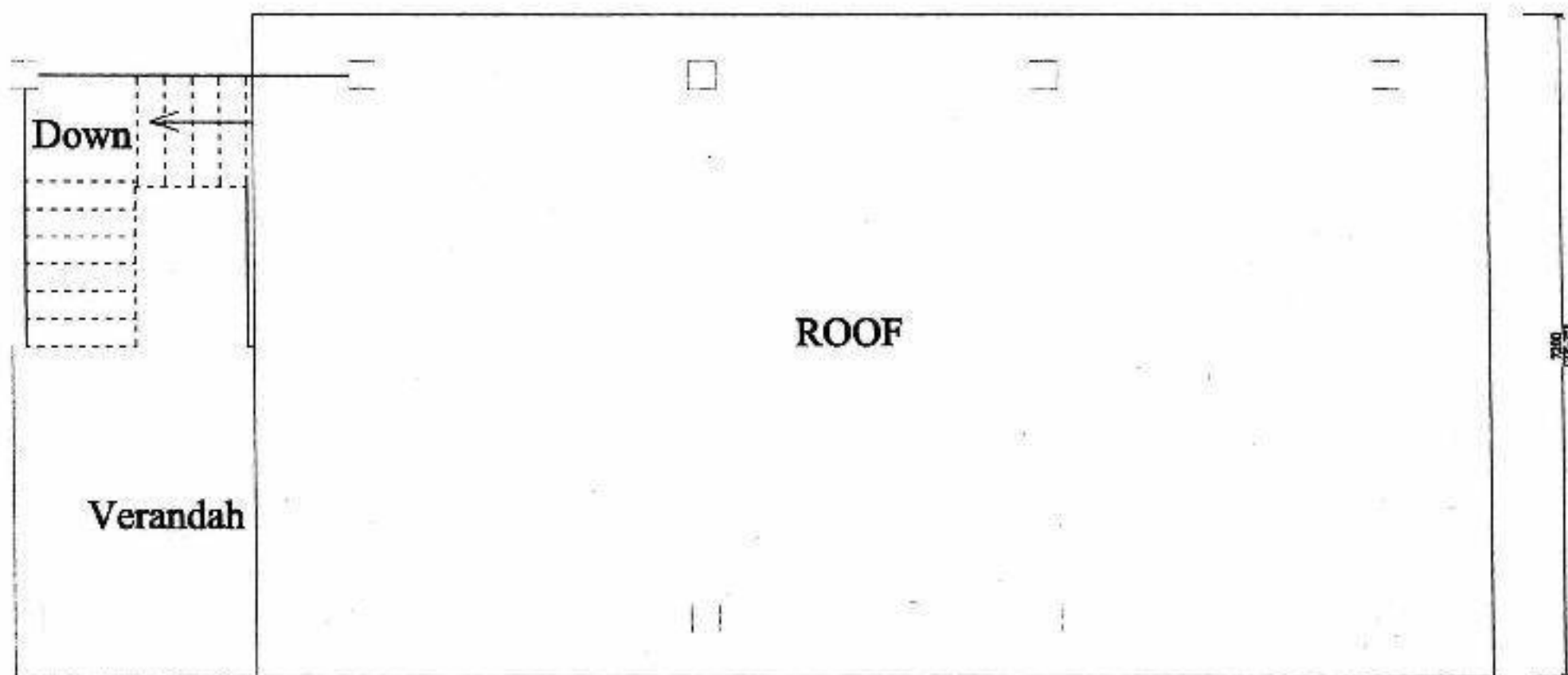
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(Rupees fifteen lakh) only.

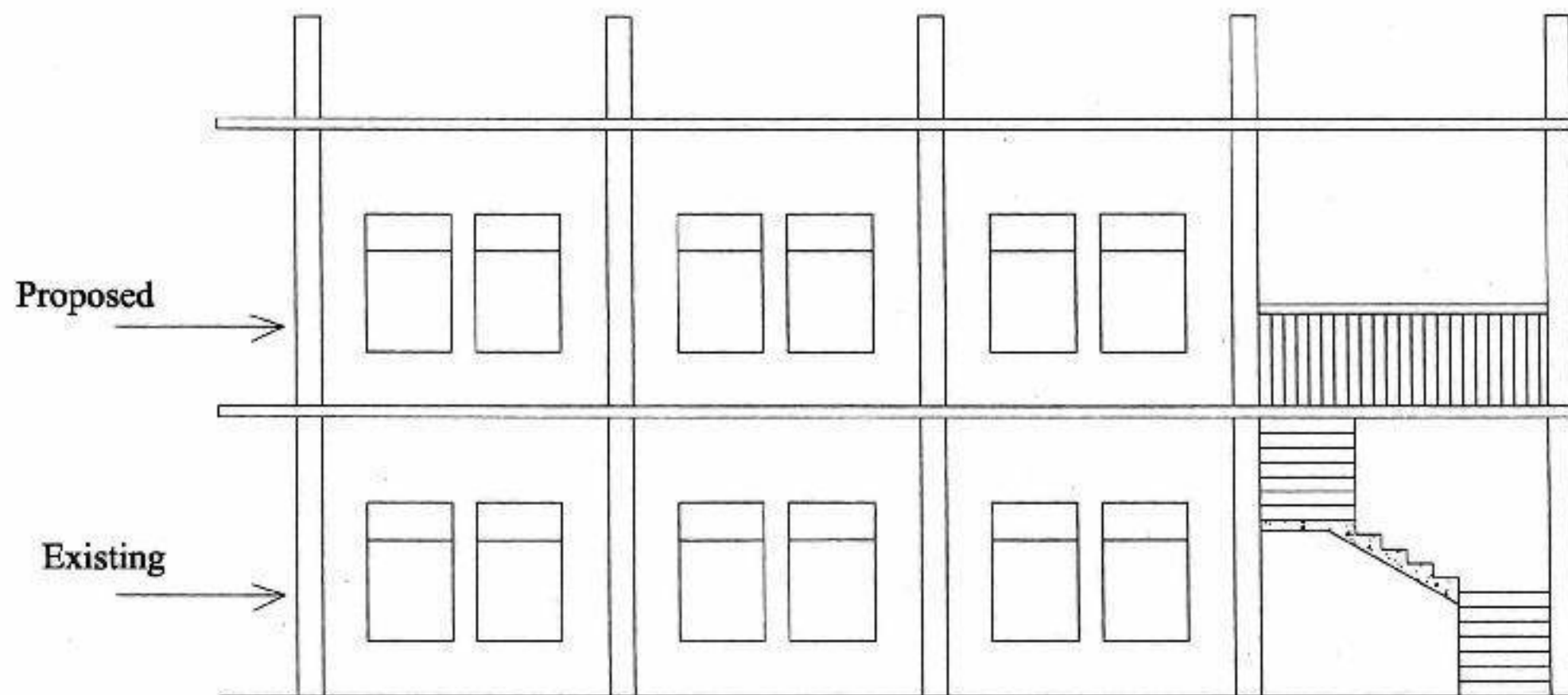
(AZARIA LALTINKIMA)
State Project Engineer
Mzoram RMSA



km 488



KM HSS

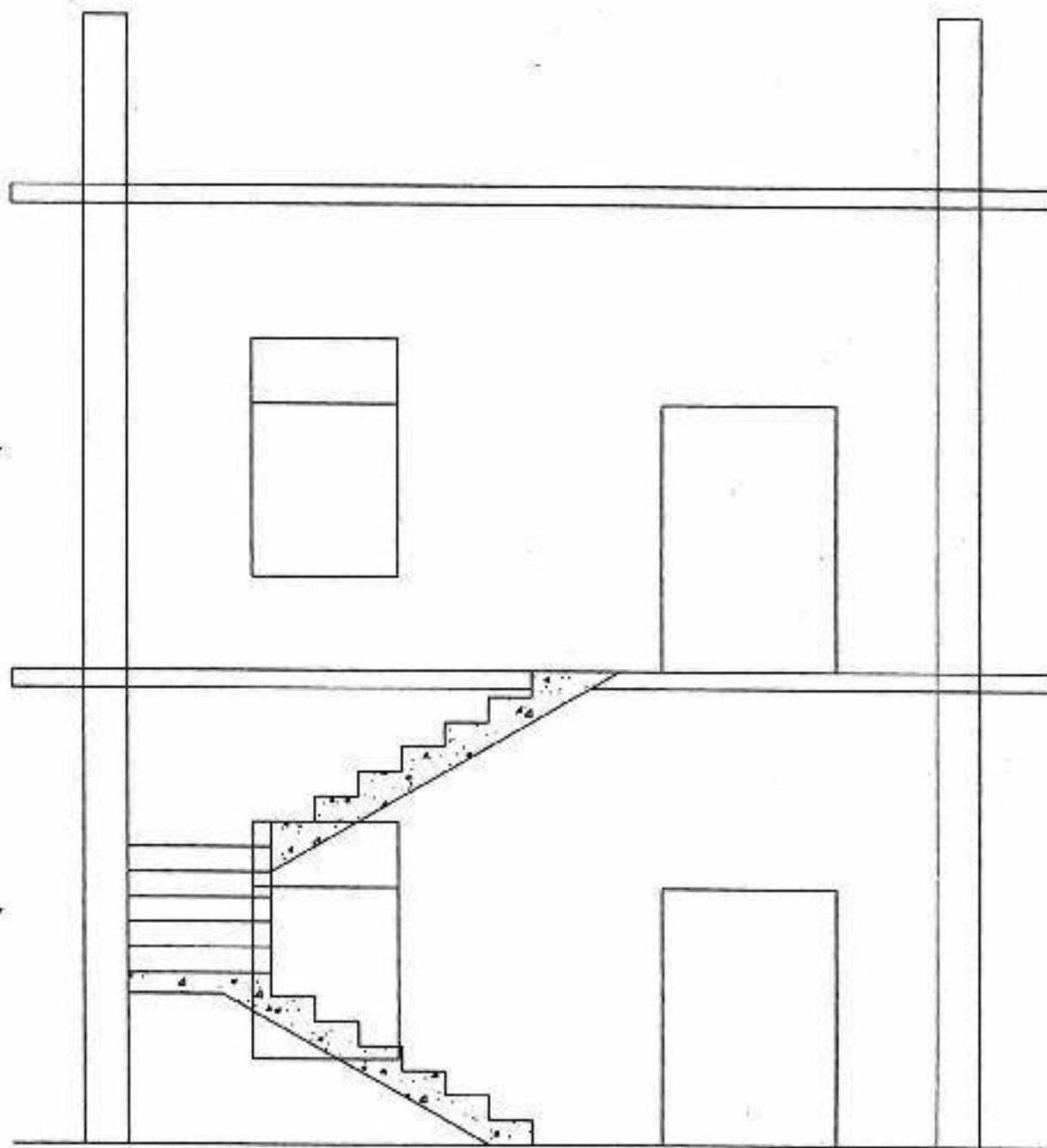


KM HSS

Proposed



Existing



ESTIMATE FOR CONSTRUCTION OF ADDITIONAL CLASSROOM AT KM HSS, AIZAWL

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
(b)	All work above plinth level up to Floor V level								
	Column								
	C1	10	0.35	0.35	4.500	cum	5.51		
	Beam								
		2	13.40	0.25	0.38	cum	2.41		
		5	7.20	0.28	0.35	cum	3.24		
		4	3.80	0.25	0.38	cum	1.30		
	Slab	1	13.40	7.20	0.150	cum	14.47		
		1	3.80	3.80	0.150	cum	1.84		
	Stairs	2	3.30	1.20	0.200	cum	1.58		
	Landing	1	1.20	1.20	0.200	cum	0.29		
						GT:	30.75	8393.30	288,829.89
2/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete								
(f)	Thermo-Mechanically Treated Bars								
	Column Quantity from	1/5.35	5.51	310	Kg/cum	kg	1708.875		
	Beam Quantity from	1/5.35	6.95	270	Kg/cum	kg	1875.960		
	Slab Quantity from	1/5.35	16.42	100	Kg/cum	kg	1641.5		
	Stairs (incl landing) Quantity from	1/5.35	1.87	120	Kg/cum	kg	224.64		
					Total::	kg	5451.075	83.70	456,254.86
3/5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in -								
(c)	Columns, pillars, piers, abutments, posts and struts.								
	Column								
	C1	10	1.40		4.50	sqm	83.000		
					Total:	sqm	83.000	506.30	31,898.90
(d)	Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc.								
	Beams	2	13.40		0.97	sqm	25.996		
		5	7.20		0.97	sqm	34.820		
		4	3.80		0.97	sqm	13.968		
					Total:	sqm	74.88	538.30	40,180.29
(e)	Suspended floors, roofs, landings, shelves and their support, balconies and chajaj, etc.								
	Slab	1	13.400		7.20	sqm	96.480		
		2	13.400		0.15	sqm	4.020		
		2	7.200		0.15	sqm	2.160		
		1	3.800		3.50	sqm	12.980		
		2	3.800		0.15	sqm	1.080		
		2	3.800		0.15	sqm	1.080		
	Landing	1	1.200		1.20	sqm	1.44		
		2	1.20		0.20	sqm	0.48		
		2	1.20		0.20	sqm	17.52		
					Total:	sqm	137.22	536.30	73,591.09
(f)	Staircases (except spiral staircase) excluding landings.								
		2	3.30		1.20	sqm	7.92		
		4	3.30		0.20	sqm	2.84		
					Total:	sqm	10.56	442.30	4,670.89
4/8.09	7.5 cm thick brick masonry with first class brick in superstructure above plinth level upto floor two level including curing, etc. complete.								
(b)	in cement mortar 1 : 3 (1 cement : 3 fine sand)								
		2	11.10	3.30		sqm	73.260		
		2	5.90	3.30		sqm	38.940		
	Deduction								
	Main Door	1	1.20	2.10		sqm	-2.520		
	Windows	10	0.90	1.65		sqm	-14.850		
					Total:	sqm	94.830	556.10	82,217.98
5/9.06	Providing 1st class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.								
	Main door	2	1.20	0.100	0.10	cum	0.024		
		2	2.10	0.075	0.10	cum	0.032		
					Total =	cum	0.056	43680.30	2,423.15
6/9.37	Providing and fixing 30mm thick panelled door shutter comprising of styles and rails of seasoned								
	main door	1		1.20	2.10	sqm	2.52		
					Total =	sqm	2.52	5427.60	16,197.55
7/10.1	Providing and fixing prefabricated M.S. equal angle in chaukat for doors, windows and								

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
	clerestory windows including fixing with 40 x 5mm M.S. holdfast 40cm long at required spacing and applying priming coat with approved steel primer etc. complete.								
	(a) Using 50 x 50 x 5mm M.S. angle.								
	Window + Ventilation	10	2.70	4.95		mm	133.85		
						Total =	mm	133.85	85,322.16
8/10.0	Providing and fixing steel glazed doors, windows, ventilators of standard rolled steel sections, joints,								
5	(a) 3mm thick glass pane	10	1.65	0.90		sqm	14.85		
						Total =	sqm	14.85	53,525.34
9/10.0	Providing and fixing M.S. Grills with 16mm flats M.S. of desired sections, fixed and welded in position in the pre-fabricated steel framed windows etc. including applying priming coat etc. complete.								
7	(a) Using 3mm thick section.	10	1.65	0.90		sqm	14.85		
						Total =	sqm	14.85	15,105.31
10/21.10	15mm cement plaster 1 : 3 (1 cement : 3 fine sand).								
	Qty. B.F from S. No.	4/5.08				sqm	94.830		
	both sides						189.660		
	Ceiling	1	13.40		7.20	sqm	98.480		
	Stairs	2	3.3		1.2	sqm	7.920		
						Total::	sqm	294.06	71,221.33
11/21.61	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.								
	(a) Ready mix pink/grey primer.								
	Chalkhat for								
	Main door	2	1.20		0.30	sqm	0.720		
		2	2.10		0.30	sqm	1.260		
	Door panel (both sides)	2	1.20		2.10	sqm	5.040		
						Total::	m ²	7.02	45.00
12/21.92	Painting with synthetic enamel paint of approved brand and manufacture in oil shade on new work								
	a) General quality	Qty. BF from S/No 11/21.61				m ²	7.02	81.60	572.13
13/21.81	Finishing walls with water proofing cement paint of approved brand and manufactured and of required shade on new work (three or more coats) to give an even shade.								
	(b) Premium exterior emulsion like weathercote, weather shield etc.								
	Qty. BF from S/No.	10/21.10		294.06		m ²	294.06		
						Total::	m ²	294.06	27,347.58
14/21.80	Applying one coat of cement primer of approved brand and manufacture on wall surface.								
	Qty. BF from S/No.	10/21.10				m ²	294.06		
	Total						294.06	53.80	15,620.43
15/14.07	Providing and fixing M.S. Tower bolts (socket bolts) bright finished with necessary screws etc. complete.								
	(a) 300 mm					Nos	4.00	110.200	440.80
16/14.10	Providing and fixing M.S. handles with necessary screws, etc. complete								
	(a) 150mm					Nos	4.00	73.200	292.80
17/10.09	Supplying and fixing MS decorative railing 80 cm high in staircase consisting of 25 mm aluminium square sections inserted into 20 mm dia MS bars @ 30 cm centres 80x80x4mm thick plate at the base fixed with wooden wedge by IV screws to receive the wooden handrails 12.5cmx10cm including cost of polishing the wooden rail								
	Step					Rm	13.600	1708.00	23,228.80
18/12.01	Cement concrete flooring 1:2:4 (1 cement : 2 sand : 4 well graded stone aggregate 20mm size) finished with a floating coat neat cement including cement slurry etc. complete but excluding the cost of nosing of steps etc.								
	For floor	1	13.40	7.20		m ²	96.48		
		1	3.60	3.60		m ²	12.96		
						Total::	m ²	109.44	432.80
									47,365.63

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
19/20.	Applying double coated cement slurry with water								
17	proofing chemical (SUPER latex chemical) in								
	proportion 1 : 4 : 7 (1 latex : 4 water : 7 cement)								
	including cleaning the treated surfaces with								
	brushes etc.@ 0.158kg/sqm								
	For floor (Qty bf from item No.)	18/12.01				m ²	109.44		
						Total	m ²	109.44	148.50
									16,251.84
								G.T.:	1,334,053.54

Add 7.5% for Internal Electrification as well as installations, complete

100,054.02

Add 5% for Furniture

66,702.68

G.T:

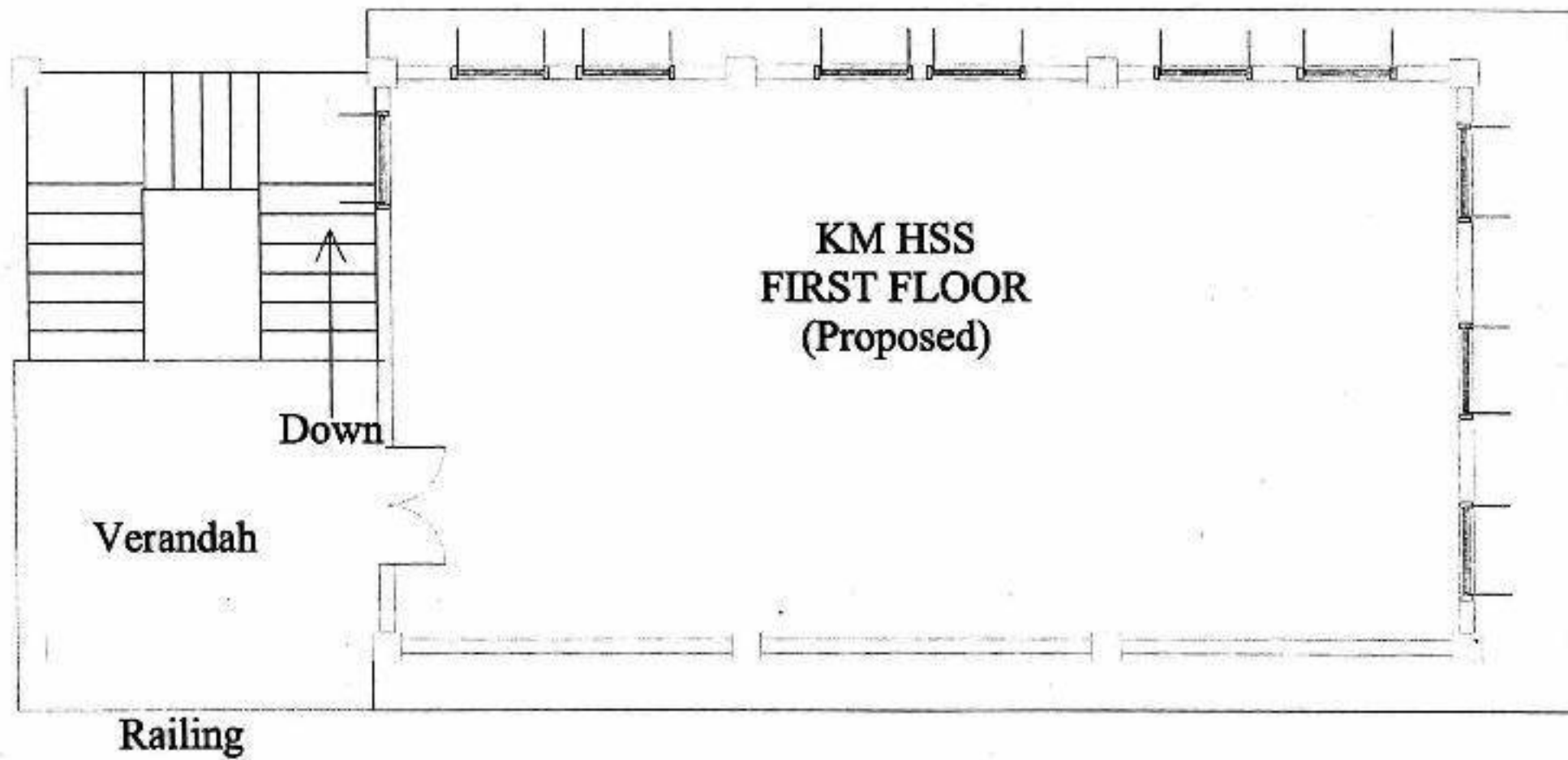
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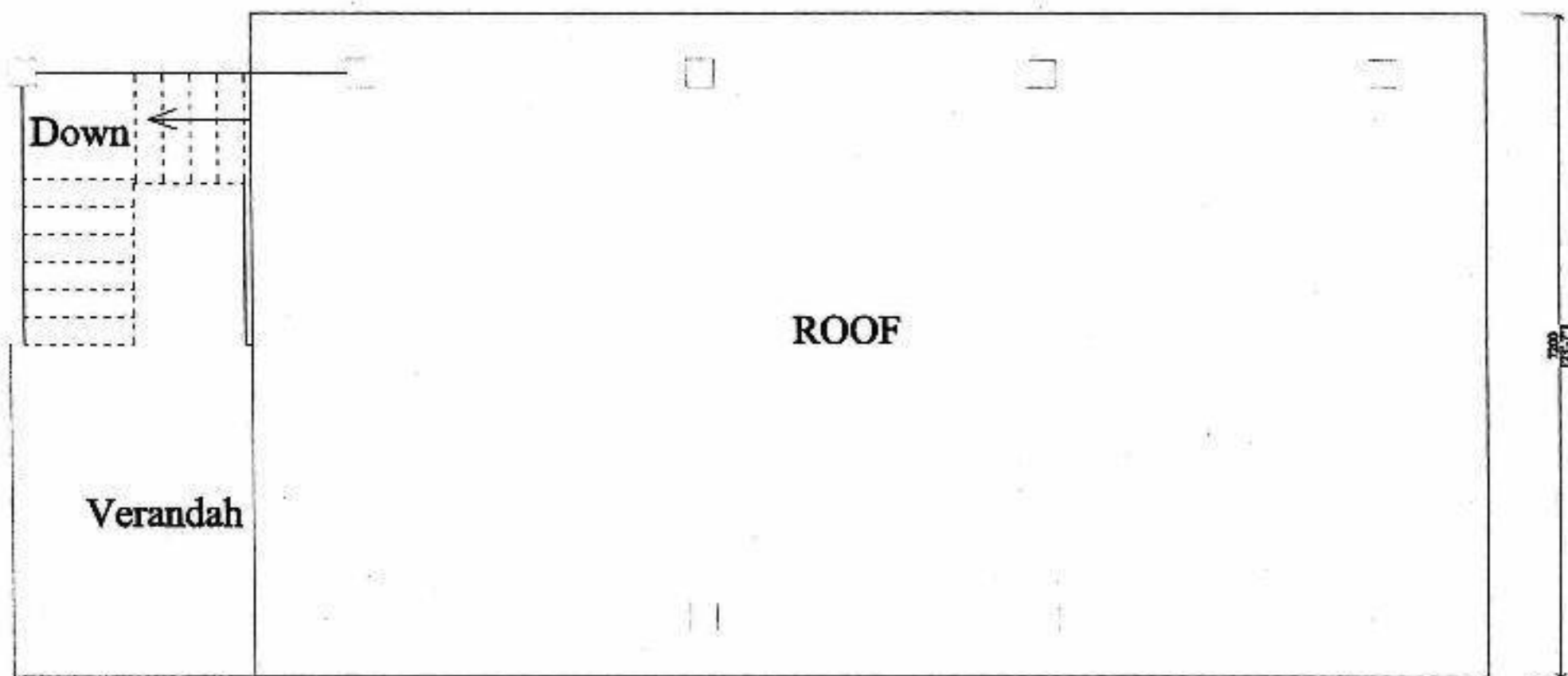
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(Rupees fifteen lakh) only.

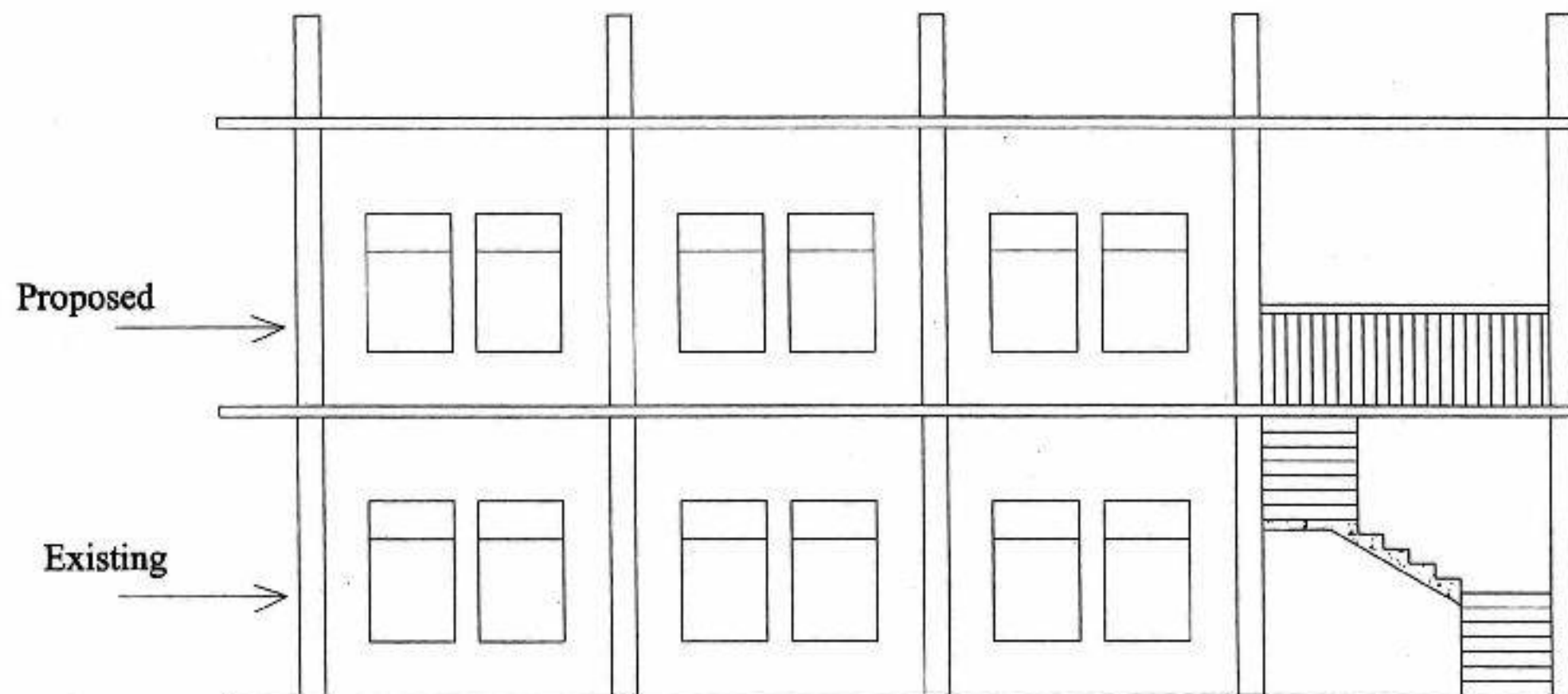
(AZARIA LALTINKIMA)
State Project Engineer
Mizoram RMSA



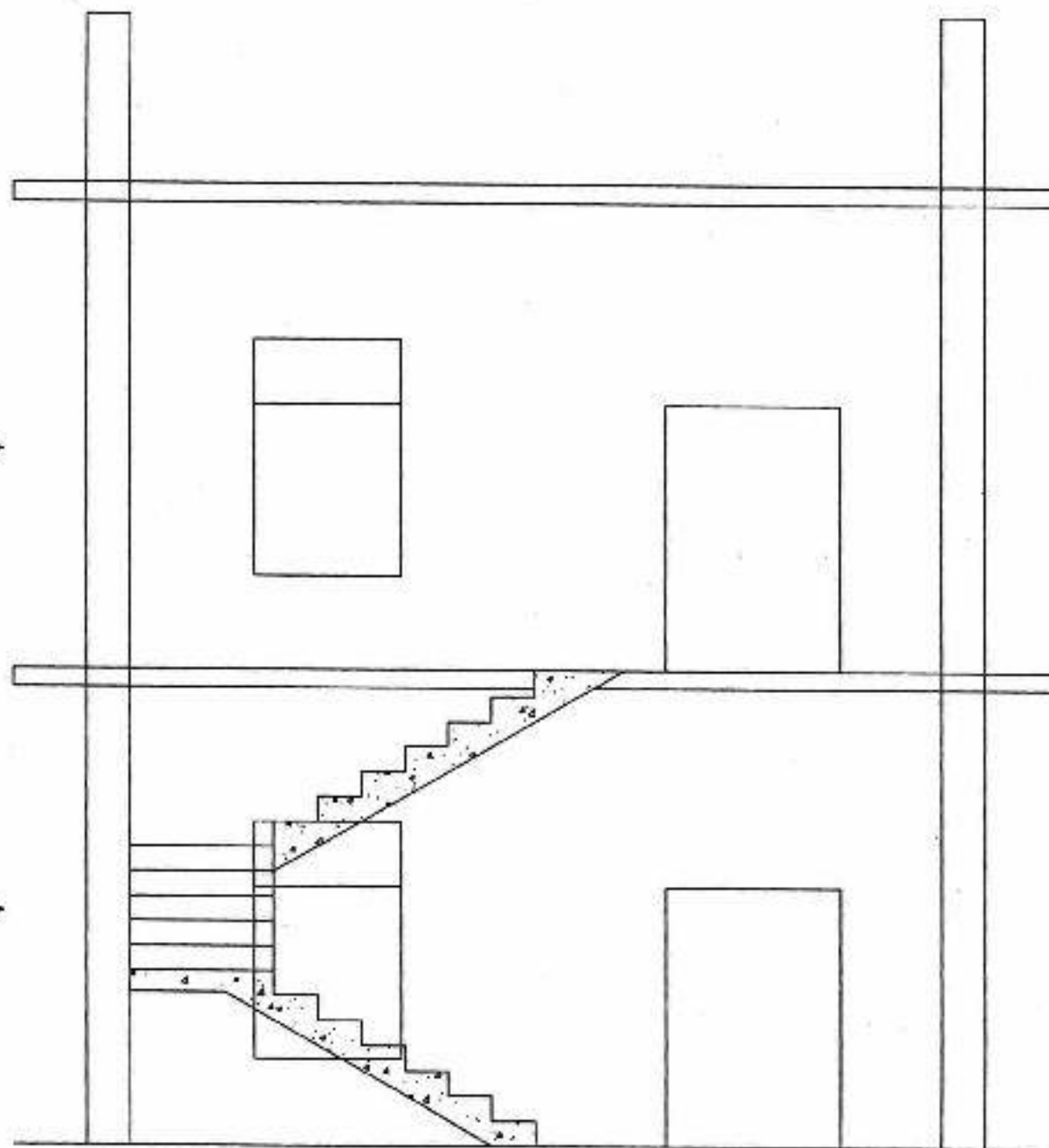
KM 455



KM HSS



Proposed



Existing



Detail Estimate for Higher Ssecondary school building improvement and extension

Name of School : GHSS Chanmari Lunglei

Item No.	Particulars of items and details of works	No.	L m	B m	H/D in m	Qty.	Unit	Rate	Amount
1/2.06	Earthwork in excavation over areas (exceeding 30cm in depth, 1.5m in width as well as 10sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.								
	(b) Soft Rock (blasting work).	1	12.80	5.49	3.91	274.73	cum	477.00	131,046.23
2/2.06	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling and compaction in 15cm layers as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.								
	(d) Soft Rock (blasting work).								
	Foundation F ₁	14	1.22	1.22	1.83	38.06			
	Foundation F ₂	8	0.91	0.91	1.22	8.16			
						46.21	cum	539.10	24,813.48
3/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.								
	2/3 of qty taken from	2/2.06				30.81			
	Filling for floor- Ground floor	1	12.80	5.49	0.25	17.84			
	Filling for floor- First floor	1	8.53	4.88	0.25	10.57			
						59.22	cum	90.30	5,347.56
4/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:								
	(a) 1:3:6 (1 cement : 3 coarse sand : 6 stone aggregate 20mm nominal size) :								
	Foundation F ₁	14	1.22	1.22	0.10	2.11			
	Foundation F ₂	8	0.91	0.91	0.10	0.68			
						2.79	cum	5968.30	16,675.01
5/5.01	Providing and laying in position reinforced cement concrete excluding cost of centering and shuttering , finishing and reinforcement in -All work upto plinth level.								
	(a) 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal								
	Foundation F ₁	14	1.22	1.22	0.25	5.20			
	Foundation F ₂	8	0.91	0.91	0.25	1.67			
	Column C ₁	14	0.25	0.30	1.48	1.60			
	Column C ₂	8	0.20	0.20	1.48	0.49			
						8.96	cum	7832.30	70,207.70

6/5.03	Reinforced cement concrete work in walls including attached pillars, columns, piers, posts, piers, abutments, return walls, retaining walls, struts, buttresses, string or lacing courses, fillets etc. upto floor five level excluding cost of centering shuttering etc complete.											
	(a) 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal)											
	Column C ₁ @ Ground floor	8	1	0.25	0.30	3.68	2.27					
	1st floor	14	1	0.25	0.30	3.05	3.30					
	2nd floor	10	1	0.25	0.30	3.05	2.38					
	Column C ₂ @ Ground floor	4	1	0.20	0.20	3.66	0.60					
	1st floor	8	1	0.20	0.20	3.05	1.01					
	2nd floor	4	1	0.20	0.20	3.05	0.50					
							10.04	cum	7847.20	78,809.76		
7/5.04	Reinforce cement concrete work in beams, suspended floors, roofs having slope upto 15° landings, balconies, shelves, chajjas, lintels, bands, window sills, stair cases, spiral stair cases, cantilevers upto floor five level excluding cost of centering shuttering etc complete. with 1:2:4(1cement : 2 coarse sand : 4 stone											
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal)											
	Slab -First floor	1		12.80	5.49	0.10	7.14					
	Slab -Second floor	1		12.80	7.62	0.10	9.91					
		1		7.32	4.88	0.10	3.62					
	Beam B ₁ (The Beam) Ground floor	1		47.55	0.20	0.25	2.45					
	Beam B ₂ (Top Beam) Ground floor	1		47.55	0.23	0.30	3.31					
	Beam B ₃ (The Beam) First floor	1		31.70	0.20	0.25	1.64					
	Beam B ₄ (Top Beam) First floor	1		90.83	0.23	0.30	6.33					
	Beam B ₅ (Top Beam) Second floor	1		67.67	0.23	0.30	4.71					
	Gutter	1		41.45	0.51	0.08	1.80					
	Chijah 1st floor Slab	1		13.41	0.20	0.05	0.14					
	Chijah 2nd floor Slab	1		48.77	0.20	0.05	0.50					
	Stairs Riser-6inches , Tread-12 inches	1		4.29	1.83	0.10	0.60					
							42.16	cum	7387.20	311,480.69		
8/10.10	Providing and fixing hand railing of 40mm nominal bore GI pipe with ballusters of 16mm dia HYSD bars placed at 10cm spacing welded together and a minimum height of 0.8m for staircase railing, balcony railing, parapet railing etc. including applying steel priming coat and electroplating complete.											
	Railing for masonry steps to 1st floor	2	2	4.29			51.51					
	Railing for masonry steps to 2nd floor	2	2	6.76			81.08					
	verandah Railing	1	2	18.59			111.56					
							244.14	Kg	146.10	35,669.56		

9/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.								
(f)	Thermo-Mechanically Treated bars.								
	Foundation Base-12mm								
	Foundation F ₁	14	16			364.13	Kg		
	Foundation F ₂	8	16			138.72	Kg		
	Column 16mm -4nos								
	Column C ₁ at ground floor	8	4			184.96	Kg		
	Column C ₁ at first floor	14	4			289.73	Kg		
	Column C ₁ at second floor	10	4			192.86	Kg		
	12 mm dia								
	Column C ₂ at ground floor	4	2			26.01	Kg		
	Column C ₂ at first floor	8	2			43.35	Kg		
	Column C ₂ at Second floor	4	2			21.67	Kg		
	Stirrups-8mm @100mm c-c								
	Column C ₁ at ground floor	8	25			42.90	Kg		
	Column C ₁ at first floor	14	21			63.06	Kg		
	Column C ₁ at second floor	10	21			45.04	Kg		
	Column C ₂ at ground floor	4	25			14.68	Kg		
	Column C ₂ at ground floor	8	21			24.65	Kg		
	Column C ₂ at ground floor	4	21			12.33	Kg		
	16 mm Dia -Beam								
	Beam B ₁ (The Beam) Ground floor	1	4			300.56	Kg		
	Beam B ₂ (Top Beam) Ground floor	1	5			375.69	Kg		
	Beam B ₃ (The Beam) First floor	1	4			200.37	Kg		
	Beam B ₄ (Top Beam) First floor	1	5			717.67	Kg		
	Beam B ₅ (Top Beam) Second floor	1	5			534.64	Kg		
	8mm stirrups for beams								
	Beam B ₁ (The Beam) Ground floor -Stirrup	1	313			53.00	Kg		
	Beam B ₂ (Top Beam) Ground floor Stirrup	1	313			63.60	Kg		
	Beam B ₃ (The Beam) First floor Stirrup	1	209			35.39	Kg		
	Beam B ₄ (Top Beam) First floor Stirrup	1	597			121.31	Kg		
	Beam B ₅ (Top Beam) Second floor Stirrup	1	445			90.42	Kg		
	slab-10mm dia								
	Slab -First floor								
	Lengthwise-Tensile	28		12.80		221.26	Kg		
	breadthwise	64			5.49	216.75	Kg		
	Lengthwise-Compression	28		12.80		221.26	Kg		
	Breadthwise	64			5.49	216.75	Kg		
	Slab -Second floor-Block 1								
	Lengthwise-Tensile	36		12.80		300.28	Kg		
	breadthwise	64			7.62	301.04	Kg		
	Lengthwise-Compression	36		12.80		300.28	Kg		
	Breadthwise	64			7.62	301.04	Kg		
	Slab -Second floor-Block 2								
	Lengthwise-Tensile	25		7.32		112.89	Kg		
	breadthwise	37			4.88	111.38	Kg		
	Lengthwise-Compression	25		7.32		112.89	Kg		
	Breadthwise	37			4.88	111.38	Kg		

		Gutter											
		Lengthwise-	4		41.45			19.97	Kg				
		breadthwise	138			0.51		15.35	Kg				
		Chijah -First floor											
		Lengthwise-	3		13.41			4.84	Kg				
		breadthwise	14			0.20		0.63	Kg				
		Chijah -Second floor											
		Lengthwise-	3		48.77			17.82	Kg				
		breadthwise	160			0.20		7.22	Kg				
		Stairs											
		Lengthwise-Tensile	13		4.29			34.45	Kg				
		breadthwise	29			1.83		32.74	Kg				
		Lengthwise-Compression	13		4.29			34.45	Kg				
		Breadthwise	29			1.83		32.74	Kg				
								Total :	6663.77				
								Add 5% wastage	333.19				
								Total Weight	6996.96	Kg	83.70	585,645.24	
10/5.11		Centering and shuttering including strutting, propping, etc. and removal of form works in -											
	(a)	Foundations, footings, bases of columns etc. for mass concrete.											
		Foundation F ₁	14	4	1.22		0.10	6.83					
								6.83	sqm	299.70	2,046.21		
	(c)	Columns, pillars, piers, abutments, posts and struts.											
		Column C ₁	8	4	3.66	0.25		29.73					
			14	4	3.05	0.30		52.03					
			10	4	3.05	0.25		30.97					
		Column C ₂	4	4	3.66	0.20		11.89					
			8	4	3.05	0.20		18.82					
			4	4	3.05	0.20		9.91					
								154.34	sqm	506.30	78,143.82		
	(d)	Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc.											
		Beam B ₁ (Top Beam) Ground floor		2	47.55	0.20		19.32					
		Beam B ₂ (Top Beam) Ground floor	1		47.55	0.25		12.08					
				2	47.55		0.30	28.99					
		Beam B ₃ (Top Beam) First floor	1		31.70	0.20		6.44					
				2	31.70		0.25	16.10					
		Beam B ₄ (Top Beam) First floor	1		90.83	0.25		23.07					
			1	2	90.83		0.30	55.37					
		Beam B ₅ (Top Beam) Second floor	1		67.87	0.25		17.19					
				2	67.87		0.30	41.25					
								219.81	sqm	400.10	87,945.42		

	e)	Suspended floors, roofs, landings, shelves and their support, balconies and											
		Slab -First floor	1		12.80	5.49		70.23					
		Slab -Second floor	1		12.80	7.62		97.55					
			1		7.32	4.88		35.67					
		Gutter	1		41.45	0.51		21.06					
		Chijah 1st floor Slab	1		13.41	0.20		2.73					
		Chijah 2nd floor Slab	1		48.77	0.20		9.91					
		Stairs Riser-6inches , Tread-12 inches	1		4.29	1.83		7.85					
								245.001	sqm	538.30	131,393.93		
11/8.09		7.5 cm thick brick masonry with first class brick in superstructure above plinth level upto floor two level including curing, etc. complete											
	a)	in cement mortar 1:3 (1 cement : 3 fine sand)											
		Wall , Ground floor	1		47.55		3.66	173.91					
		Wall , First floor	1		81.38		3.05	248.05					
		Wall , Second floor	1		42.06		3.05	128.21					
								550.17					
		Deduct for openings											
		Door D ₁	7		0.91		1.83	11.71					
		Rolling Shutter	3		3.05		2.13	19.51					
		Windows W ₁	35		0.91		1.22	39.02					
								70.23					
								479.94	sqm	858.10	314,866.73		
12/7.08		Coursed masonry with rectangular sized hard stone in foundation upto one storey above and below ground level including curing, etc.											
	a)	in cement mortar 1:3 (1 cement : 3 fine sand)											
		Entrance to first floor	1		3.51	1.52	1.52	8.14					
		Retainingwall	1		12.80	0.30	3.05	11.71					
								19.85	cum	6675.30	132,483.85		
13/9.05		Providing 1st class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.											
		Door D ₁	7		5.18	0.10	0.08	0.28					
		Windows W ₁	35		3.96	0.10	0.08	1.07					
								1.35	cum	43660.30	59,137.40		
14/9.11		Providing and fixing 1st class local wood panelled shutters for doors etc. including M.S. butt hinges with necessary screws, etc.											
	(a)	40 mm thick.											
		Door D ₁	7			0.76	1.66	8.94					
								8.94	sqm	2631.50	23,530.66		

15/9.13	Providing and fixing 1st class local wood panelled and glazed shutters using 3mm thick plate sheet glass for doors and windows etc. including M.S. butt hinges with necessary										
	(a) 40 mm thick.										
	Windows W ₁	35			0.76	1.07	28.45				
							28.45	sqm	2593.10	73,777.73	
16/15.24	Providing and fixing 1st class local wood frame works for ceiling consisting of battens 50x25mm fixed over wood plugs embedded in wall with necessary nails or screws, etc. including cost of wood plugs complete.										
	Ceiling for second floor	1			8.53	4.88	41.62				
		1			7.62	4.27	32.52				
							74.14	sqm	238.20	22,107.54	
17/15.18	Supplying, fitting and fixing 3.20mm thick decoral asbestos board ceiling with necessary screws etc. complete excluding frame work of										
	Ceiling for second floor	1			8.53	4.88	41.62				
		1			7.62	4.27	32.52				
							74.14	sqm	852.00	63,184.41	
18/21.06	12mm cement plaster 1 : 3 (1 cement : 3 fine										
	External & Internal wall										
	Qty BF from 11/8.09	1	2				959.87				
							959.87	sqm	210.00	201,573.58	
19/12.01	Cement concrete flooring 1:2:4 (1 cement : 2 sand : 4 well graded stone aggregate 20mm size) finished with a floating coat neat cement including cement slurry etc. complete but excluding										
	(a) 40 mm thick										
	Ground floor	1			12.80	5.49	70.23				
	First floor	1			12.80	2.13	27.31				
	Second floor	1			8.53	4.88	41.62				
							139.17	sqm	432.80	60,232.24	
20/14.29	Providing and fixing Brass Tower Bolts(Socket Bolts) bright finished with necessary screws etc. complete.										
	(a) 300 mm										
	Door D ₁	7	6				42				
	Windows W ₁	35	4				140				
							182	nos.	334.30	60,642.60	
21/14.32	Providing and fixing brass handles with necessary screws, etc. complete										
	(a) 150 mm										
	Door D ₁	7	4				28				
							28	nos.	238.10	8,666.60	
	(a) 125 mm										
	Windows W ₁	35	2				70				
							70	nos.	226.40	15,848.00	

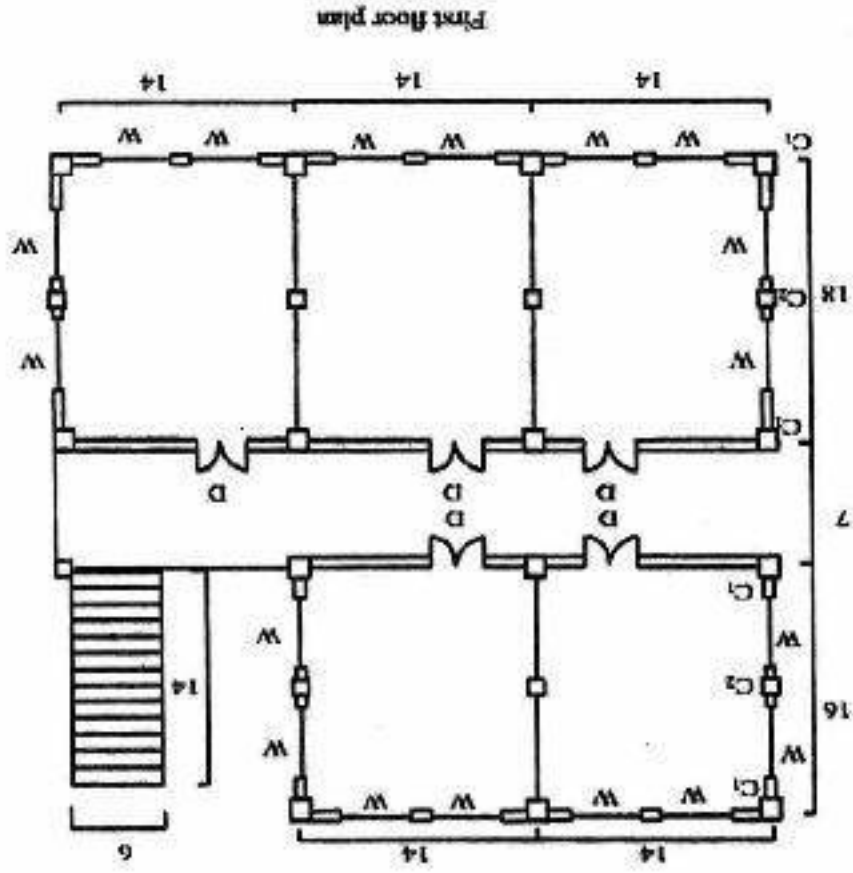
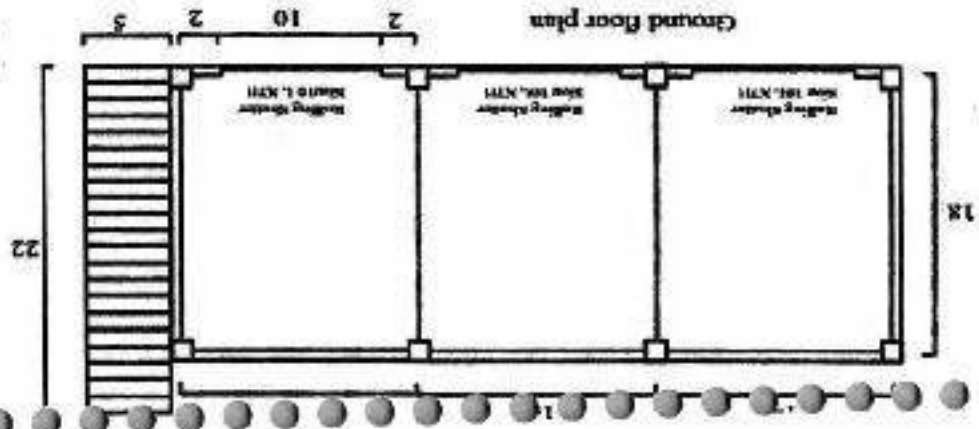
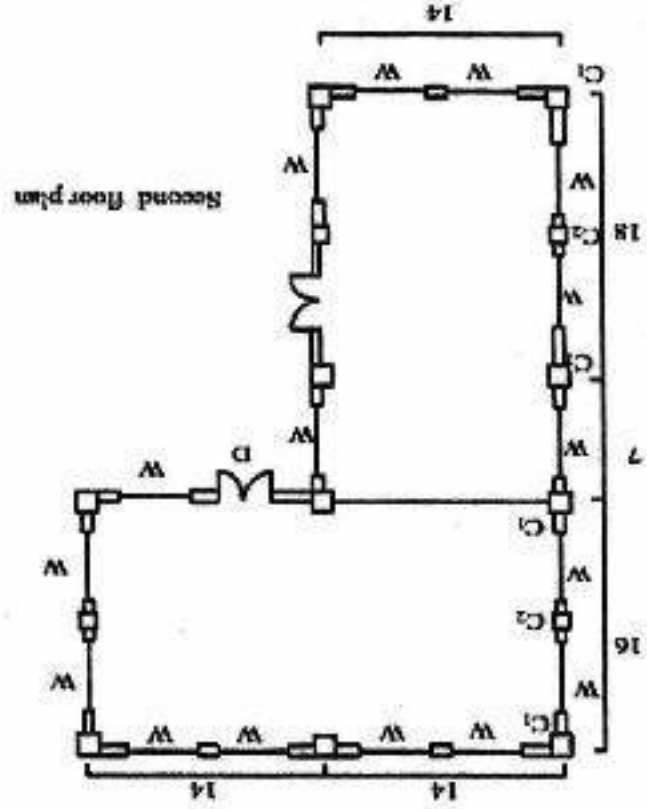
22/14.33	Providing and fixing bright finished brass two lever mortise door lock with necessary screws, etc. complete.												
	(a) Union type						7	nos	1361.00	9,667.00			
23/9.08	Providing 1st class local wood in trusses etc. including hoisting fixing in position supplying necessary fittings such as spikes bolts and nuts, nails etc and applying wood preservative for unexposed surface etc. complete.												
	(i) Rafter	7	2	3.05	0.10	0.08	0.33						
		3	2	3.35	0.10	0.08	0.16						
	Hip Rafter	2		3.20	0.10	0.08	0.05						
		3		3.51	0.10	0.08	0.08						
	Valley rafter	1		3.96	0.10	0.08	0.03						
	End Rafter	1		4.88	0.10	0.08	0.04						
		1		5.49	0.10	0.08	0.04						
	Purlin-lengthwise	5	2	10.52	0.05	0.08	0.41						
		4	2	10.36	0.05	0.08	0.32						
	Purlin -breadthwise	1		2.44	0.05	0.08	0.01						
		1		2.13	0.05	0.08	0.01						
							Total	1.47					
	Add 20% extra for wastages and others							0.29					
							Total	1.77	cum	38740.90	68,508.91		
24/15.37	Providing Trapezoidal Polyester Coated Galvanised Steel Sheets Roofing of any colour of 1.06m width at all levels including fitting and fixing ridging with self drilling, self tapping screws, EPDM washers etc. complete excluding the cost of purlin, rafter and trusses.												
	(i) For 0.5mm thick :												
	2nd floor roof	1		12.50	4.27		53.33						
		1		4.27	4.68		20.81						
							Total	74.14					
	Add 50% of School Floor Area							37.07					
								111.20	sqm	1015.70	112,950.86		
25/16.65	Providing and fixing of Polyester Coated Galvanised Steel Sheets of any colour ridges, gutters or valleys 50cm overall width 0.50mm thick with 150 mm overlapping fixed with Self Drilling & Tapping Screws with EPDM washer but excluding the cost of base frame.												
	(i) For 0.5 mm thick :	1					25.48	m	486.40	12,391.62			
26/21.82	Painting with synthetic enamel paint of approved brand and manufacture in all shades on new work (two or more coats).												
	(a) General quality						109.80	sqm	81.50	8,948.37			
27/21.77	Distemping with oil bound washable distemper of approved brand and manufacture and of required shade and colour to give an even shade on new work (two or more coats).												
							1537.18	sqm	71.00	109,136.23			

Proposed extension
of GHSS channamari

Name of School : Government
Channamari Lunlei

All dimensions are in ft. Dimensions shall be
read out and not to be scaled out.

Countersigned by:



Name of School : Government Lettland Higher Secondary School

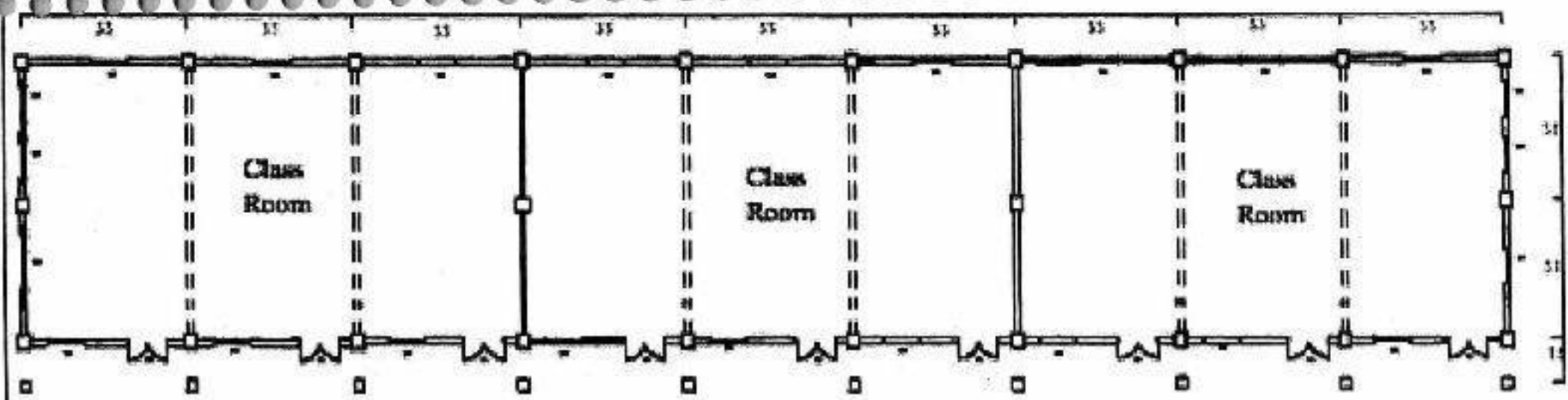
Item No.	Particulars of items and details of work	No.	L m	B m	H/D In m	Qty.	Unit	Rate	Amount
1/5.03	Reinforced cement concrete work in walls including attached pillars, columns, piers, posts, piers, abutments, return walls, retaining walls, struts, buttresses, string or lacing courses, fillets etc. upto floor five level excluding cost of centering shuttering etc complete.								
	(a) 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)								
	Column C ₁ (Column-2nd floor)	30	0.25	0.30	3.05	7.26			
	Column C ₂ (Verandah column-2nd floor)	10	0.20	0.20	2.44	1.01			
	Column C ₃ (Replacement of existing timber verandah column to RCC)	10	0.20	0.20	3.20	1.32			
						9.41	cum	7847.20	73,821.13
2/5.04	Reinforced cement concrete work in walls including attached pillars, columns, piers, posts, piers, abutments, return walls, retaining walls, struts, buttresses, string or lacing courses, fillets etc. upto floor five level excluding cost of centering shuttering etc complete.								
	(b) 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)								
	Stairs Slab	1	1.52	3.88	0.13	0.71			
	Slab	1	29.70	0.20	0.10	18.71			
	Beam B _{1(Top beam)} 1st floor missing top beam	6	6.20	0.25	0.41	3.84			
	Beam B _{2(Top beam)} 2nd floor top beam	4	6.20	0.25	0.30	1.92			
	Gutter	1	69.80	0.51	0.10	3.59			
						29.77	cum	7387.20	212,520.77
3/10.10	Providing and fixing hand railing of 40mm nominal bore GI pipe with balustrades of 16mm dia HYSD bars placed at 10cm spacing welded together and a minimum height of 0.8m for staircase railing, balcony railing, parapet railing etc. including applying steel priming coat and steel painting complete.								
	Stairs & 2nd floor verandah Railing	2	1	39.10	4.27	330.74	Kg	146.10	48,198.83
4/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.								
	(f) Thermo-Mechanically Treated bars.								
	Column 16mm -4 nos								
	Column C ₁	30	4			605.31	Kg		
	Column C ₂ (Verandah column 2nd floor)	10	4			96.70	Kg		
	Column C ₃ (Replacement of existing timber verandah column to RCC)	10	4			113.75	Kg		
	Stirrups-8mm @150mm c/c								
	Column C ₁	30	22			261.67	Kg		
	Column C ₂	10	17			44.35	Kg		
	Column C ₃	10	22			57.40	Kg		
	Beams-16mm dia								
	Beam B _{1(Top beam)} 1st floor missing top beam	8	9			529.07	Kg		
	Beam B _{2(Top beam)} 2nd floor top beam-Longitudinal	4	7			105.95	Kg		
	Beam B _{3(Top beam)} 2nd floor top beam-Breadthwise	2	7			489.33	Kg		
	Stirrups-8mm @150mm c-c for beams								
	Beam B _{1(Top beam)} 1st floor missing top beam	6	42			116.32	Kg		
	Beam B _{2(Top beam)} 2nd floor top beam-Longitudinal	4	42			64.06	Kg		
	Beam B _{3(Top beam)} 2nd floor top beam-Breadthwise	2	196			149.47	Kg		
	slab-16mm dia								
	Block I								
	Lengthwise-Tension	31	29.70			588.33	Kg		
	broadwise	146		6.20		170.31	Kg		
	Lengthwise-Compression	31	29.70			588.33	Kg		
	Breadthwise	146		6.20		170.31	Kg		
	Gutter								
	Lengthwise-	457	69.80			27.06	Kg		
	broadwise	4		0.51		1.59	Kg		
	Total :					4197.74			
	Add 5% wastage					209.89			
	Total Weight					4407.63	Kg	83.70	368,918.38

5/5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in -												
(c)	Columns, pillars, piers, abutments, posts and struts.												
	Column C ₁	30	2	3.05	0.25			48.45					
		30	2	3.05		0.30		55.74					
	Column C ₂ (Verandah column-2nd floor)	10	4	2.44	0.20			10.82					
	Column C ₂ (Replacement of existing timber verandah column to RCC)	10	4	3.05	0.20			24.77					
								146.78	sqm	508.30		74,518.18	
(d)	Lintels, beams, plinth beams, girders, underlugs and cantilevers, etc.												
	Beam B ₁ (mg beam-1st floor missing top beam)	6		8.20	0.25			9.45					
		8		8.20		0.41		15.12					
	Beam B ₂ (mg beam-2nd floor top beam)	4		8.20	0.25			6.90					
		4		8.20		0.30		7.56					
	Gutter	1		69.80	0.51			35.36					
								73.782	sqm	400.10		20,520.15	
6/6.09	7.5 cm thick brick masonry with first class bricks in superstructure above plinth level upto floor two level including curing, etc. complete												
(a)	in cement mortar (1 cement : 3 fine sand)	1:3											
	Brick above skirting												
	Wall ₁	2		29.70		3.05		181.25					
	Wall ₂	4		8.20		3.05		75.50					
								256.64					
	Deduct for openings												
	Door D ₁	0		0.81		1.83		10.03					
	Windows W ₁	21		0.81		1.22		23.41					
								33.45					
								228.20	sqm	656.10		148,430.23	
7/8.06	Providing 1st class local wood dressed in frames of chakral for doors, windows, decorative windows fixed in position.												
	Door D ₁	8		8.00	0.10	0.08		0.23					
	Windows W ₁	21		3.81	0.10	0.08		0.62					
								0.85	cum	43060.30		37,244.20	
8/9.11	Providing and fixing 1st class local wood panelled shutters for doors etc. including M.S. butt hinges with necessary screws, etc. complete.												
(a)	40 mm thick												
	Door D ₁	6			0.76	1.68		7.68					
								7.68	sqm	2831.50		20,169.13	
9/9.13	Providing and fixing 1st class local wood panelled and glazed shutters using 3mm thick plate sheet glass for doors and windows etc. including M.S. butt hinges with necessary screws, etc. complete.												
(a)	40 mm thick												
	Windows W ₁	21			0.76	1.07		17.07					
								17.07	sqm	2583.10		44,265.54	

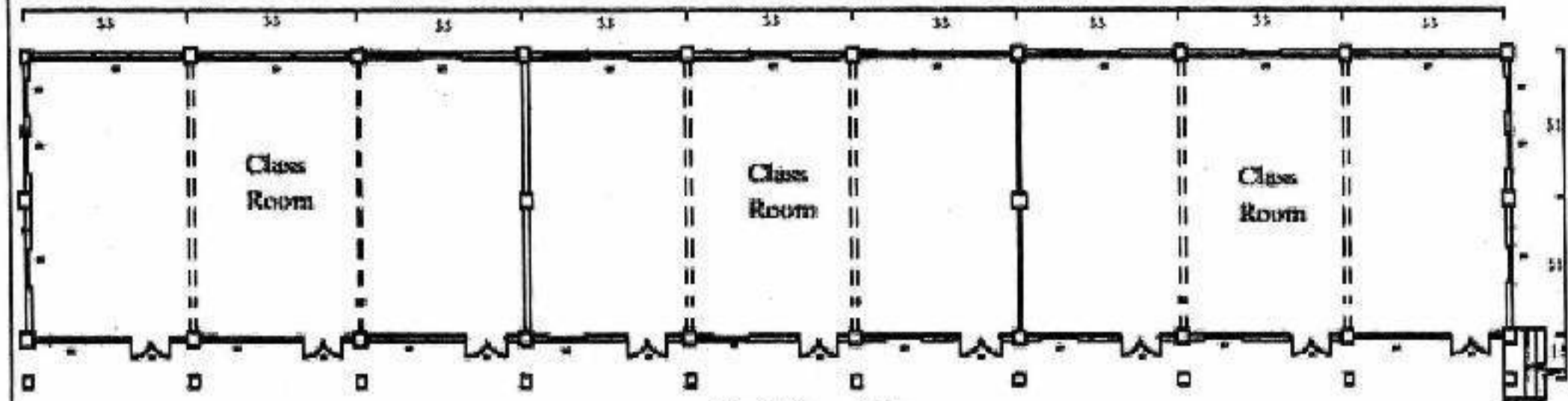
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In Words: Rapier (Twenty Lakh) Only.



1st Floor Plan



2nd Floor Plan

Proposed Vertical
extension of GLHSS

Name of School : Government
Leitang Higher Secondary
School

All dimensions are in m. Dimensions shall be
read out and not to be scaled out.

Countersigned by:

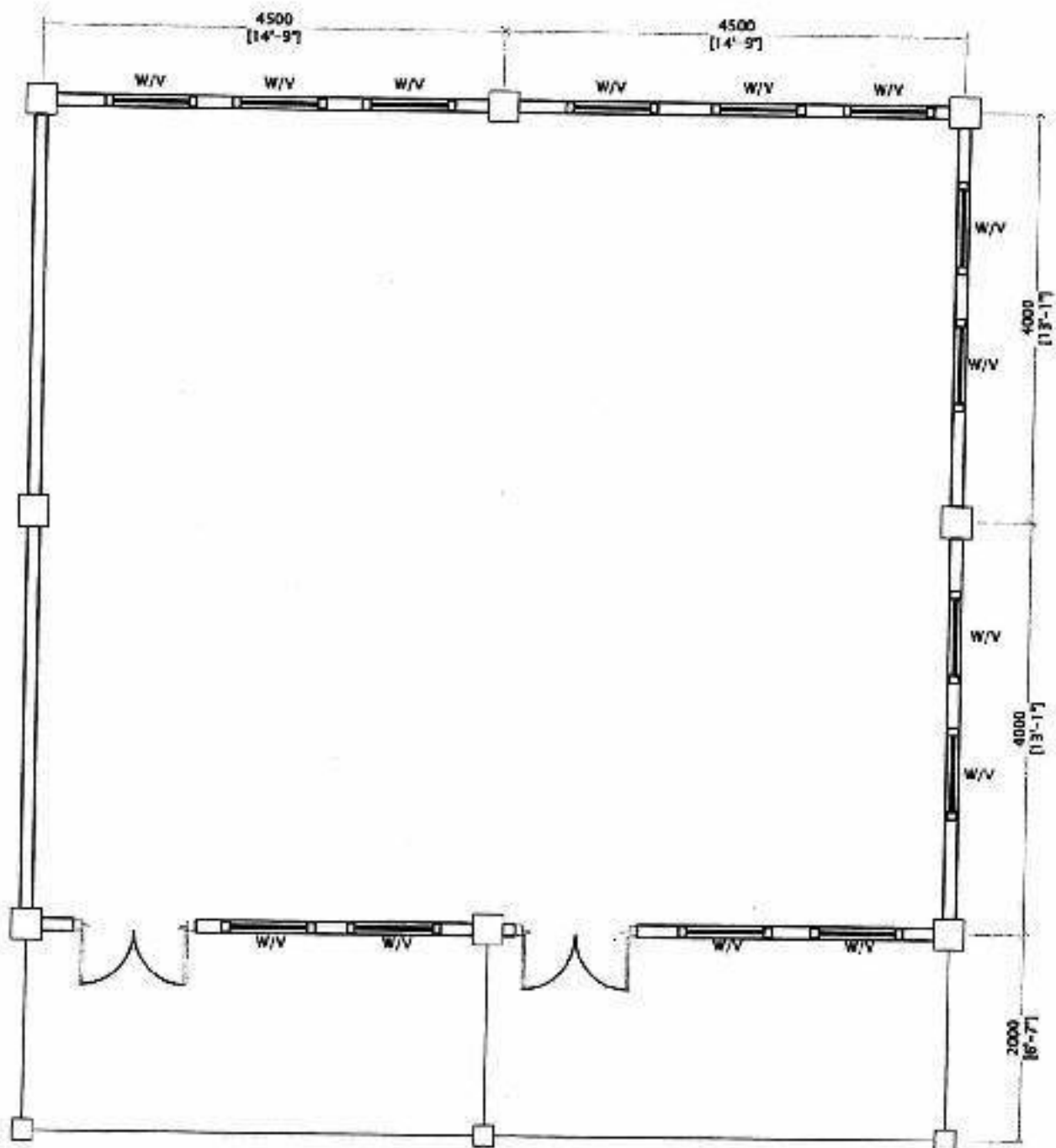
ESTIMATE FOR CONSTRUCTION OF ADDITIONAL CLASS ROOM AT GOVT. CHAMPAL HSS.

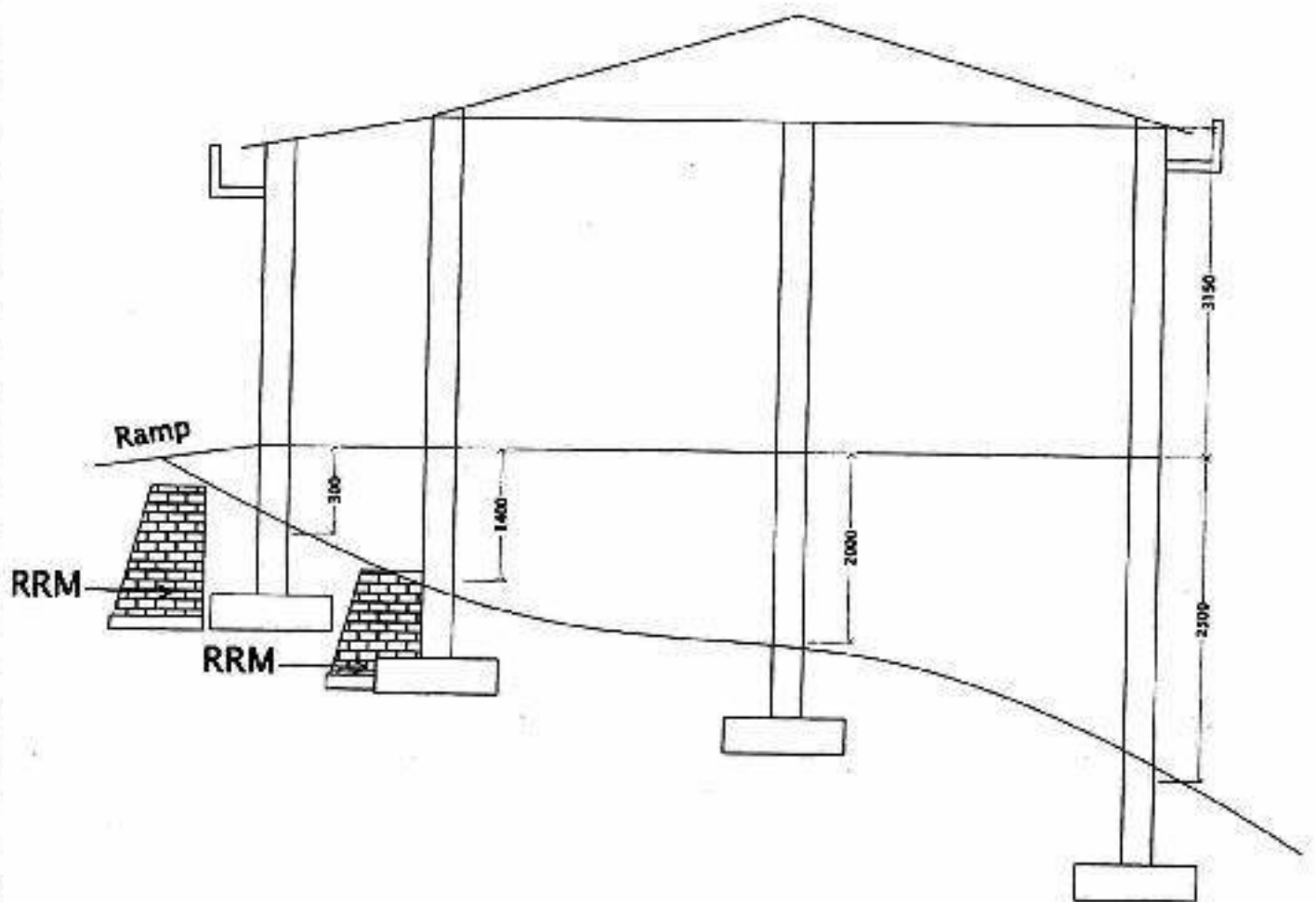
Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/2.08	Earth work in excavation in foundation trenches...								
	(b) Hard Soil (Pick work)								
	Foundation for main column	8	1.20	1.20	1.50	cum	18.44		
	Foundation for verandah column	3	1.20	1.20	1.50	cum	5.46		
					Total:	cum	23.92	327.20	5,481.02
2/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each deposited layer by ramming and watering and lead upto 50 m and lift upto 1.50 meters								
	Qty. BF from S.No.	1/2.08					23.92		
	Deduct from earthwork								
	Main Column	8	0.30	0.30	1.05	cum	0.951		
	Verandah column	3	0.25	0.25	1.05	cum	-0.197		
	Footing	12	1.20	1.20	0.30	cum	-5.184		
	Column Foundation	12	1.20	1.20	0.10	cum	-1.728		
	Filling for Verandah	1	9.00	2.00	1.00	cum	18.000		
					Total	cum	35.96	90.30	3,247.24
3/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth level:								
	(a) 1: 3: 6								
	Column Foundation	12	1.20	1.20	0.100	cum	1.728		
	Verandah Floor	1	9.00	2.000	0.100	cum	1.80		
	Ramp up	2	2.00	1.50	0.100	cum	0.600		
	Side drain								
	Bottom	1	33.20	0.30	0.125	sqm	1.245		
	Side	2	33.20	0.29	0.125	sqm	1.660		
	Base for Retaining wall(Verandah portion)	1	8.00	0.70	0.150	sqm	0.945		
		1	9.00	0.70	0.150	sqm	0.945		
		2	2.00	0.70	0.150	sqm	0.420		
					Total	cum	9.343	9968.20	55,781.80
4/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
	(a) All work upto foundation & plinth level.								
	Footing	12	1.20	1.20	0.35	cum	8.048		
	Main Column	8	0.30	0.30	3.95	cum	1.07		
		3	0.30	0.30	3.45	cum	0.93		
		3	0.30	0.30	2.85	cum	0.77		
	Verandah column	3	0.25	0.25	1.75	cum	0.33		
					Total	cum	9.14	8847.30	80,888.39
	(b) All work above plinth level up to Floor 'V' level								
	Main column	8	0.30	0.30	3.160	cum	2.27		
	Verandah column	3	0.25	0.25	2.850	cum	0.53		
					Total	cum	2.80		
	Plinth Beam/Slab beam								
		6	4.20	0.25	0.40	cum	2.52		
		2	4.25	0.25	0.40	cum	0.85		
		8	3.70	0.25	0.40	cum	2.22		
		3	1.73	0.25	0.40	cum	0.52		
	Roof Beam	6	4.20	0.25	0.40	cum	2.52		
		2	4.25	0.25	0.40	cum	0.85		
		6	3.70	0.25	0.40	cum	2.22		
		3	1.73	0.25	0.40	cum	0.52		
					Total	cum	12.22		

	Slab	1	9.00	8.00	3.125	cum	9.00		
	Gutter:								
	Bottom	1	40.80	0.30	0.10	cum	1.22		
	Side	1	40.80	0.40	0.10	cum	1.03		
					Total	cum	11.68		
					GT:		26.67	9953.30	252,428.57
5/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete								
	(f) Thermo-Mechanically Treated Bars								
	Foundation	Qty. Bf from S.No.4/5.35		(a)	cum	9.14			
		100	Kg/cum		Kg	914.363			
	Column	Qty. Bf from S.No.4/5.35		(a)	cum	2.892			
		310	Kg/cum		Kg	895.735			
	Beam	Qty. Bf from S.No.4/5.35		(b)	cum	12.215			
		270	Kg/cum		Kg	3298.050			
	Slab & Gutter	Qty. Bf from S.No.4/5.35		(b)	cum	11.858			
		100	Kg/cum		Kg	1185.800			
				GT:	Kg	8288.749	83.70		524,525.57
8/5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in :								
	(c) Columns, pillars, piers, abutments, posts and struts								
	Column								
	300x300 mm column	1	55.95	1.20	sqm	57.140			
	250x250 mm column	1	13.80	1.00	sqm	13.800			
				Total:	sqm	80.940	598.30		46,879.82
	(d) Unties, beams, plinth beams, girders, bressumers and cantilevers, etc.								
	Beams								
	250x400 mm beam	1	122.150	1.00	sqm	128.268			
				Total:	sqm	128.26	400.10		51,315.83
	(e) Suspended floors, roofs, landings, shelves and their support, balconies and chajja, etc								
	Gutter	1	40.80	0.80	sqm	32.64			
				Total:	sqm	32.64	536.30		17,534.69
7/8.08	Half brick masonry with first class brick in superstructure above plinth level up to floor V level								
	(b) in cement mortar 1 : 4 (1 cement : 4 fine sand)								
	Skirting	1	31.60	0.80	sqm	15.980			
	Deduction								
	Main Door	2	0.53	1.20	sqm	-1.440			
				Total:	sqm	17.520	1052.50		18,086.41
8/8.08	7.5 cm thick brick masonry with first class brick in superstructure above plinth level upto floor two level including curing, etc. complete .								
	(b) in cement mortar 1 : 4 (1 cement : 4 fine sand)								
	Wall above Skirting	1	31.80	2.15	sqm	57.940			
	Deduction								
	Window/Ventilation	13	1.85	0.90	sqm	-19.305			
	Main Door	2	1.50	1.20	sqm	-3.600			
				Total:	sqm	45.035	631.40		28,435.10

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CHAMPHAI HSS





ESTIMATE FOR CONSTRUCTION OF ADDITIONAL CLASSROOM AT SIAHA HSS, SIAHA

Sl.No	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/2.08	Earthwork in excavation over areas (exceeding 30cm in depth, 1.5m in width as well as 10sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.								
	a) Ordinary and hard soil	1	9.00	2.00	0.88	cum	15.84		
					Total:	cum	15.84	284.30	4,503.31
2/2.08	Earth work in excavation in foundation trenches								
	(b) Hard Soil (Pick work)								
	Column Foundations								
	C1	6	1.50	1.50	1.50	cum	20.25		
	C2	2	1.20	1.20	1.50	cum	4.32		
					Total:	cum	24.57	327.20	8,039.30
3/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each deposited layer by ramming and watering and lead upto 50 m and lift upto 1.50 meters.								
	Qty. BF from S.No.	2/2.08					24.57		
	Deduct from earthwork								
	Column								
	C1	6	0.35	0.35	1.05	cum	-0.772		
	C2	2	0.30	0.30	1.05	cum	-0.189		
	Footing								
	F1	6	1.50	1.50	0.35	cum	-4.725		
	F2	2	1.20	1.20	0.35	cum	-1.008		
	Column Foundation								
	f1	6	1.50	1.50	0.10	cum	-1.350		
	f2	2	1.20	1.20	0.10	cum	-0.288		
					Total:	cum	18.24	90.30	1,466.31
4/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth level :								
	(a) 1: 3: 6								
	Column Foundation								
	C1	6	1.50	1.50	0.10	cum	1.350		
	C2	2	1.20	1.20	0.10	cum	0.288		
	Floor	1	9.00	8.22	0.10	cum	7.388		
					Total:	cum	9.036	5969.30	53,929.56
1/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
	(b) All work above plinth level up to Floor V level								
	Column								
	C1	6	0.35	0.35	5.700	cum	4.19		
	C2	2	0.30	0.30	5.700	cum	1.03		
	Beam								
		4	9.00	0.25	0.40	cum	3.60		
		6	8.22	0.25	0.40	cum	4.93		
	Slab	1	9.00	8.22	0.135	cum	9.99		
					GT::		23.73	9393.30	222,946.10
2/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete								
	(f) Thermo-Mechanically Treated Bars								
	Column Quantity from	1/5.35	5.22	310	Kg/cum	kg	1616.805		
	Beam Quantity from	1/5.35	8.53	270	Kg/cum	kg	2303.640		
	Slab Quantity from	1/5.35	9.99	100	Kg/cum	kg	999.73		
					Total::	kg	4919.175	83.70	411,734.95
3/5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in -								
	c) Columns, pillars, piers, abutments, posts and struts.								
	Column								
	C1	6	1.40		5.70	sqm	47.880		
	C2	2	1.20		5.70	sqm	13.680		
					Total:	sqm	61.560	506.30	31,157.83
	d) Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc.								
	Beams	4	9.00		1.05	sqm	37.800		
		6	8.22		1.05	sqm	51.786		

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
					Total:	sqm	89.59	536.30	48,044.97
a)	Suspended floors, roofs, landings, shelves and their support, balconies and chajja, etc.								
	Slab	1	9.000		8.22	sqm	73.980		
		2	9.000		0.135	sqm	2.430		
		2	8.220		0.135	sqm	2.219		
					Total:	sqm	78.63	536.30	42,168.65
4/6.06	Half brick masonry with first class brick in superstructure above plinth level up to floor V level								
(b)	In cement mortar 1 : 4 (1 cement : 4 fine sand)								
		1	7.00	3.30		sqm	23.100		
		2	7.62	3.30		sqm	50.292		
	Deduction								
	Door	2	1.20	2.10		sqm	-5.040		
	Windows	6	0.90	1.85		sqm	-6.910		
					Total:	sqm	69.442	1032.90	81,397.64
5/9.06	Providing 1st class local wood dressed in frames of chajka for doors, windows, clerestory windows fixed in position.								
	Main door	4	1.20	0.100	0.10	cum	0.048		
		4	2.10	0.075	0.10	cum	0.063		
					Total =	cum	0.111	43660.30	4,846.29
6/9.37	Providing and fixing 30mm thick panelled door shutter comprising of styles and rails of seasoned teak wood with panels of phenol formaldehyde synthetic resin bonded particle board 19mm thick with both sides teak ply veneering on both faces...								
	main door	2		1.20	2.10	sqm	5.04		
					Total =	sqm	5.04	6427.60	32,395.10
7/10.1	Providing and fixing prefabricated M.S. equal angle in chajka for doors, windows and clerestory windows including fixing with 40 x 5mm M.S. holdfast 40cm long at required spacing and applying priming coat with approved steel primer etc. complete.								
(a)	Using 50 x 50 x 5mm M.S. angle.								
	Window + Ventilation	6	2.70	4.95		m	80.19		
					Total =	m	80.19	638.40	51,193.30
8/10.0	Providing and fixing steel glazed doors, windows, ventilators of standard rolled steel sections,								
5	(a) 3mm thick glass pane	6	1.65	0.90		sqm	8.91		
					Total =	sqm	8.91	3804.40	32,115.20
9/10.0	Providing and fixing M.S. Grills with 15mm flats M.S. of desired sections, fixed and welded in position in the pre-fabricated steel framed windows etc. including applying priming coat etc. complete.								
(a)	Using 3mm thick section.								
		6	1.65	0.90		sqm	8.91		
					Total =	sqm	8.91	1084.60	9,663.79
10/21.10	15mm cement plaster 1 : 3 (1 cement : 3 fine sand).								
	Qty. B.F from S. No.	4/8.06				sqm	58.442		
	both sides						118.884		
	Ceiling	1	9.00		8.22	sqm	73.980		
					Total::	sqm	162.85	242.20	46,711.65
11/21.81	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.								
(a)	Ready mix pink/grey primer.								
	Chajka for								
	Main door	4	1.20		0.30	sqm	1.440		
		4	2.10		0.30	sqm	2.520		
	Door panel (both sides)	2	1.20		2.10	sqm	5.040		
					Total::	m ²	9.00	45.00	405.00
12/21.92	Painting with synthetic enamel paint of approved brand and manufacture in all shade on new work								
a)	General quality	Qty. B.F from S/No 11/21.81				m ²	9.00	81.50	733.50

Sl.No	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
13/21.01	Finishing walls with water proofing cement paint of approved brand and manufactured and of required shade on new work (three or more coats) to give an even shade.								
	(a) Premium exterior emulsion like weathercote, weather shield etc.								
	Only BF from S.No.	10/21.10		182.06		m ²	182.86		
	Total:					m ²	182.86	82.00	17,836.35
14/21.00	Applying one coat of cement primer of approved brand and manufacture on wall surface								
	Only BF from S.No.	10/21.10				m ²	182.86		
	Total						182.86	53.80	10,376.09
15/14.07	Providing and fixing M.S. Tower bolts (socket bolts) bright finished with necessary screws etc. complete.								
	(a) 300 mm					Nos	4.00	110.200	440.80
16/14.10	Providing and fixing M.S. handles with necessary screws etc. complete								
	(a) 150mm					Nos	4.00	73.200	292.80
18/12.01	Cement concrete flooring 1:2:4 (1 cement : 2 sand : 4 well graded stone aggregate 20mm size) finished with a floating coat neat cement including cement slurry etc. complete but excluding the cost of nosing of steps etc.								
	For floor	1	9.00	5.22		m ²	73.98		
	Total:					m ²	73.98	432.00	32,018.54
19/20.17	Applying double coated cement slurry with water proofing chemical (SUPER latex chemical) in proportion 1 : 4 : 7 (1 latex : 4 water : 7 cement) including cleaning the treated surfaces with brushes etc. @ 0.158kg/sqm								
	For floor (Only bf from Item No.)	18/12.01				m ²	73.98		
	Total:					m ²	73.98	148.50	10,886.03
								G.T.	1,135,515.38

Add 7.5% for Internal Electrification as well as installations, complete

85,163.65

Add 5% for Furniture

56,775.77

Total

1,277,454.80

Add 17.43% cost index for Saha Division

222,660.37

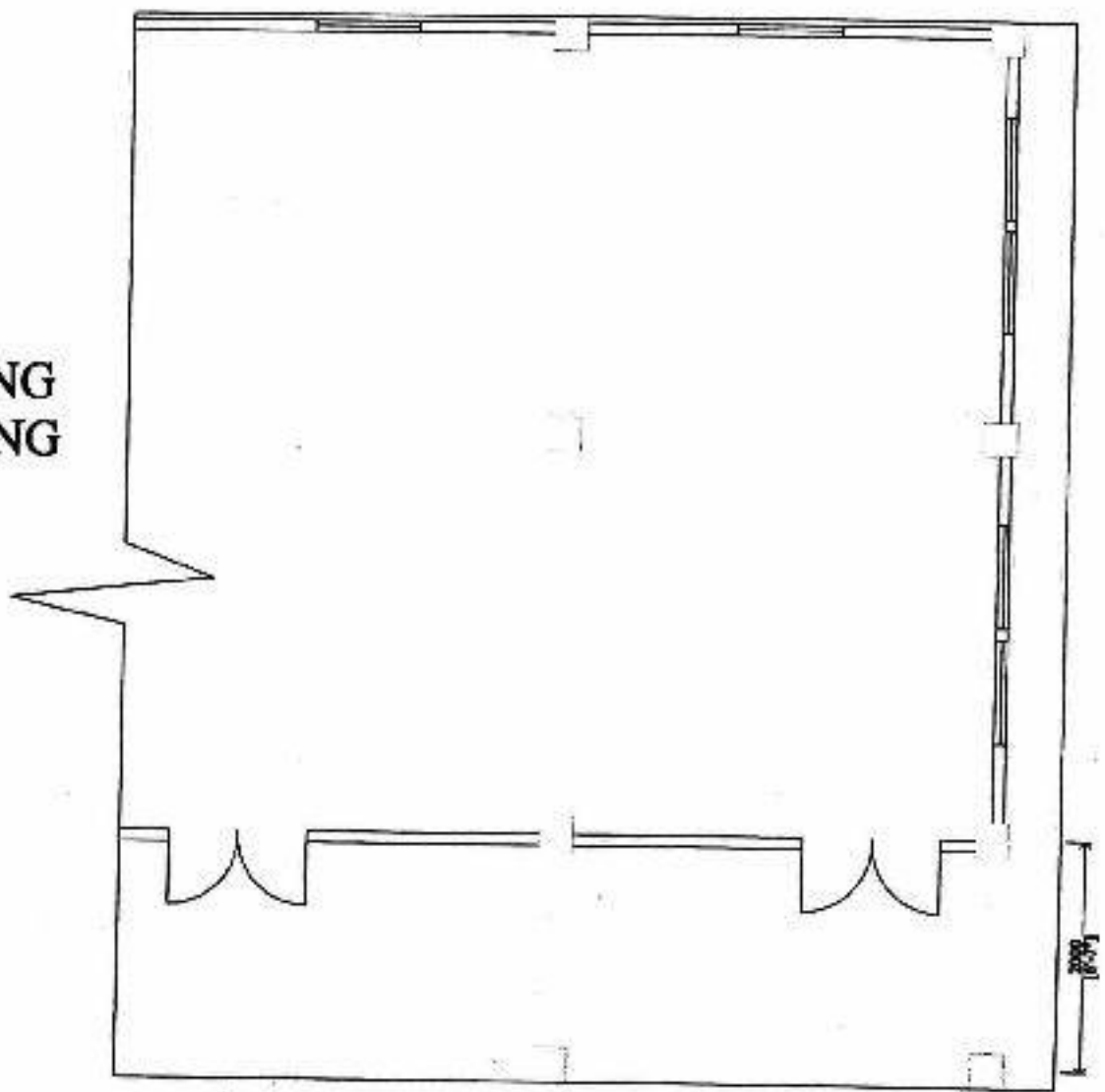
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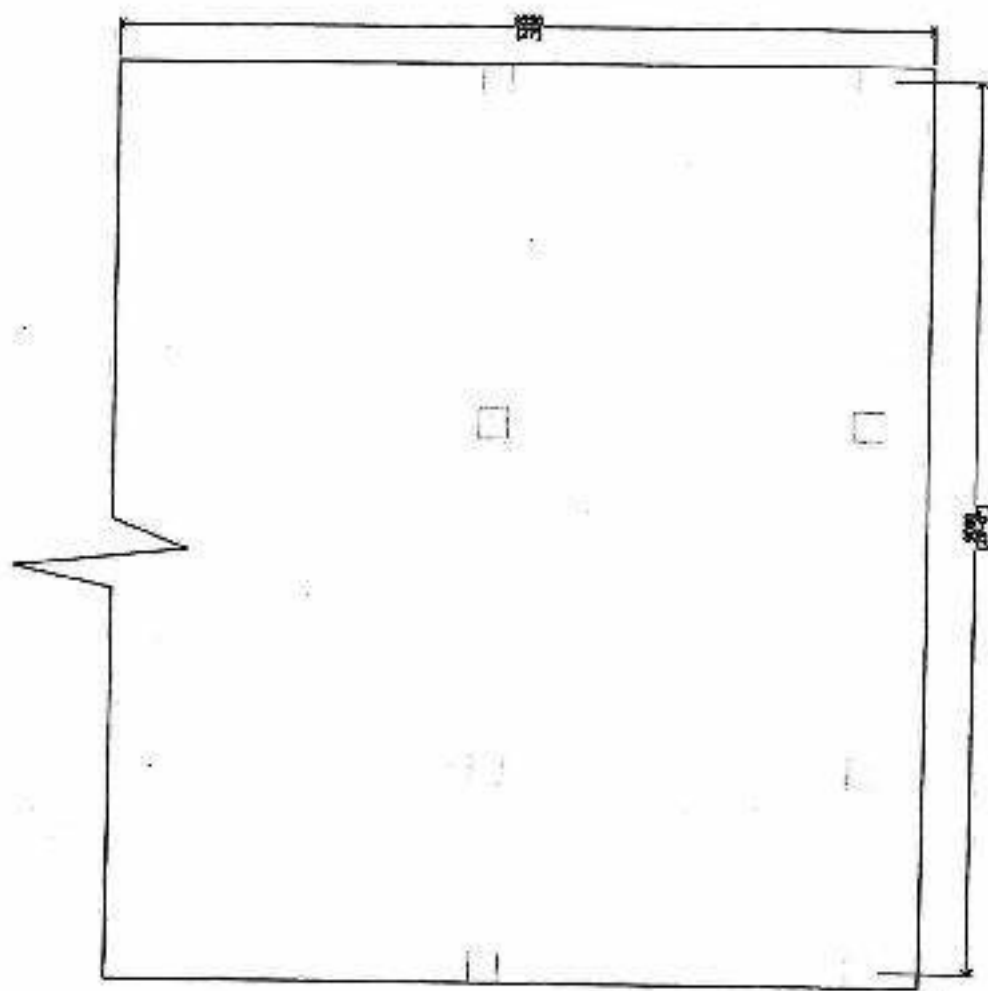
say 1,500,000.00

(Rupees fifteen lakh) only.

EXSITING
BUILDING

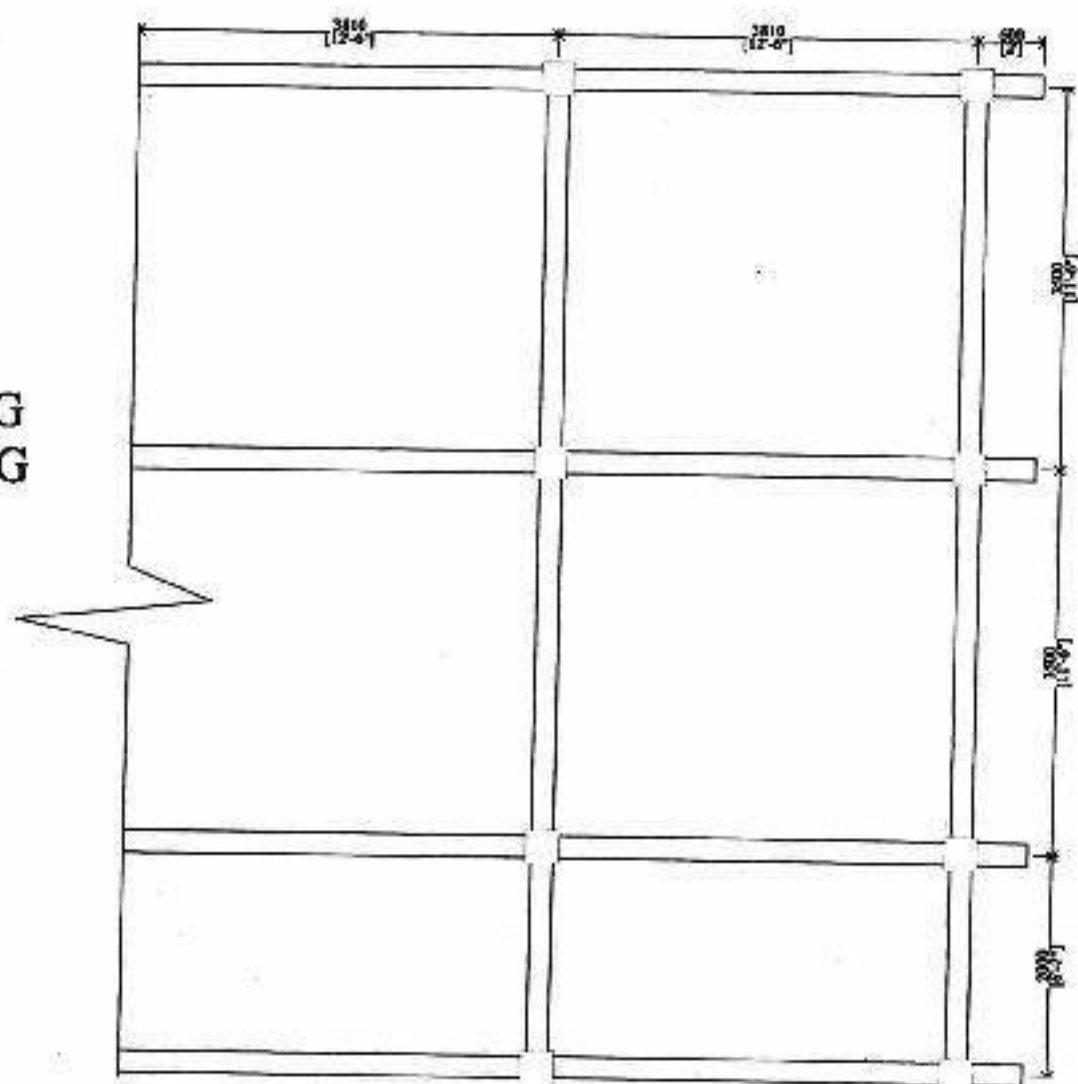


PLAN



EXISTING
BUILDING

SLAB AREA

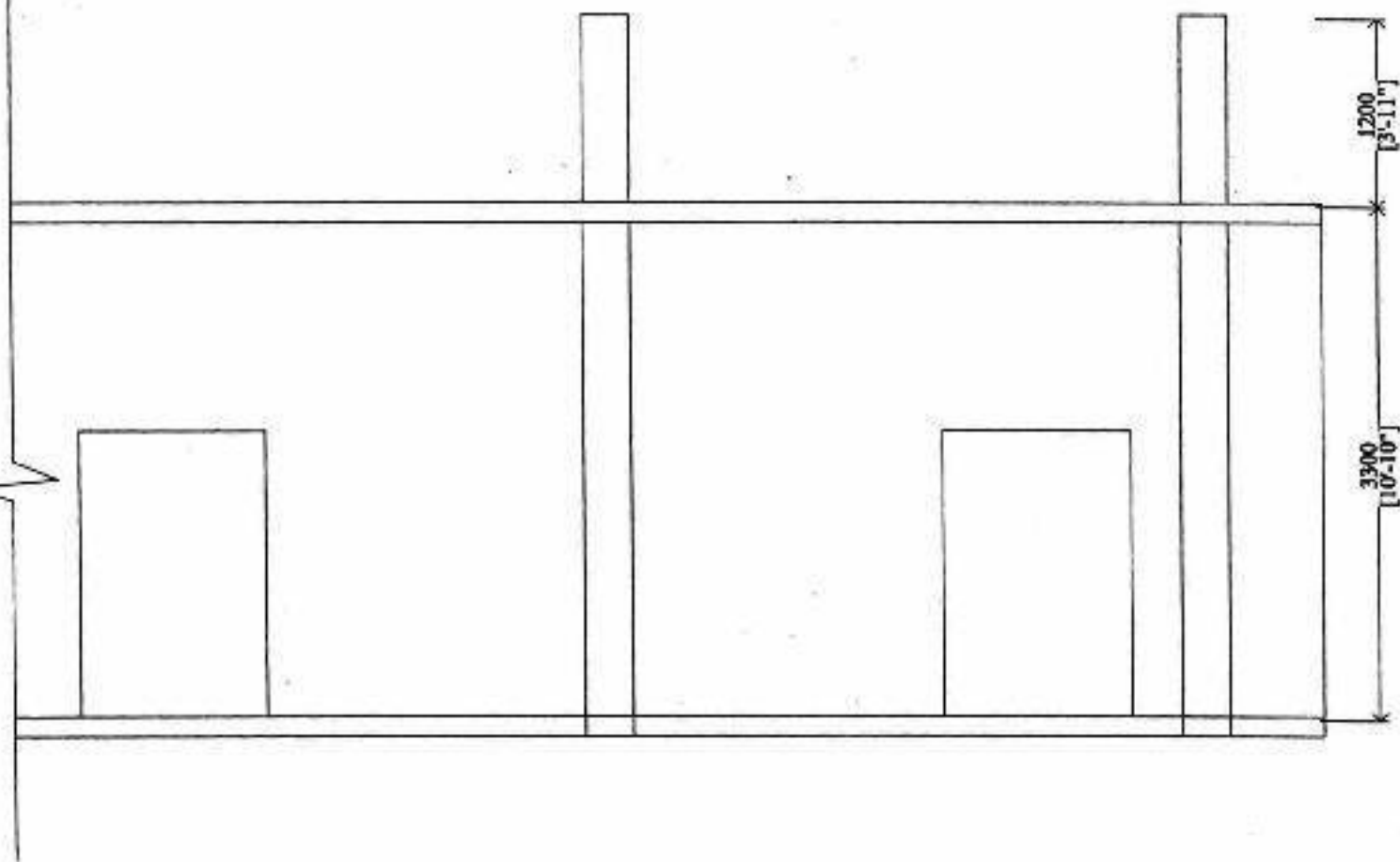


EXSITING
BUILDING

BEAM LAYOUT

Side View

EXISTING
BUILDING



FRONT ELEVATION

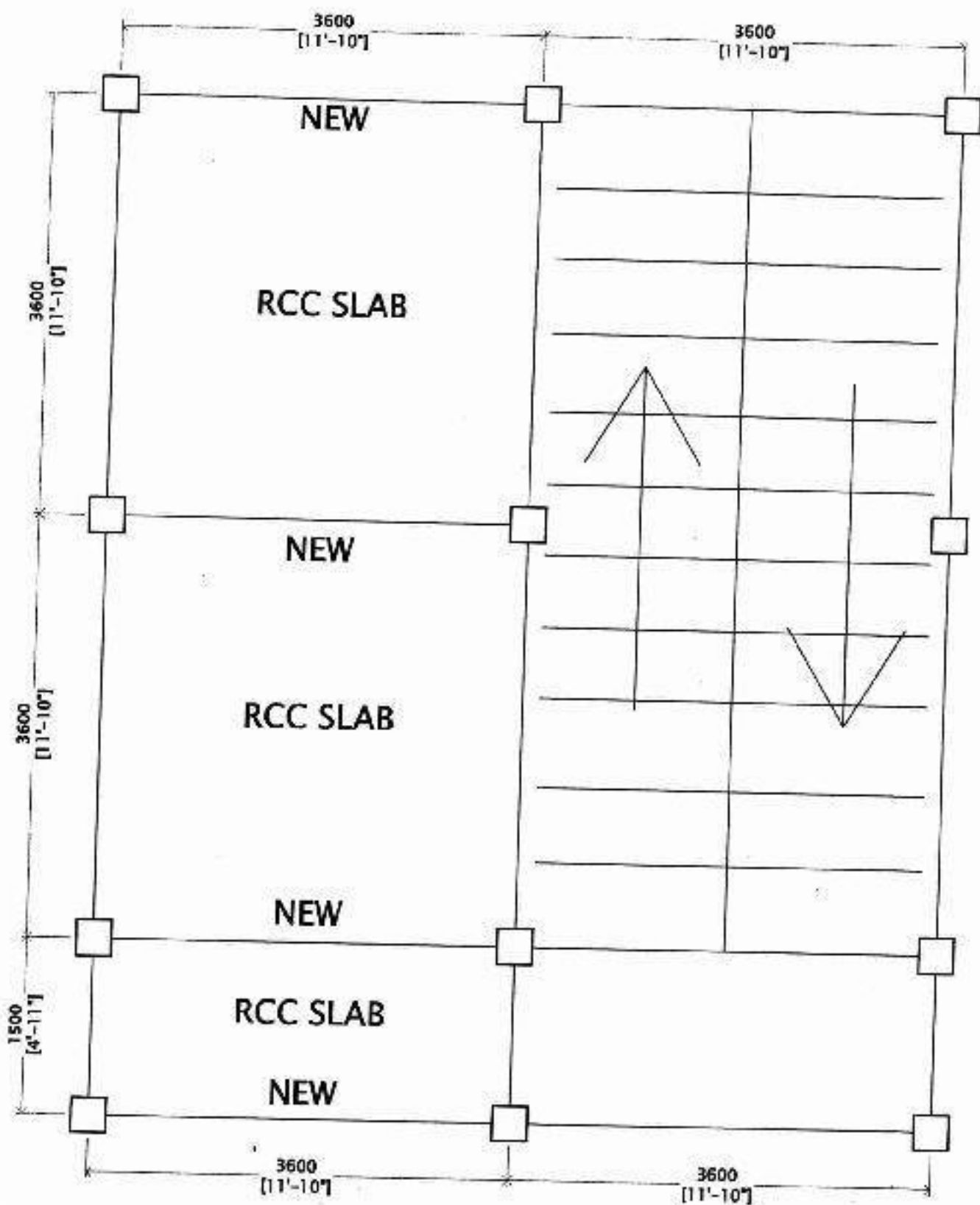
ESTIMATE FOR CONSTRUCTION OF ADDITIONAL CLASS ROOM AT GOVT. KAWRTHAH HSS.

SLNo	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth level :								
	(a) 1: 3: 6								
	Side drain								
	Bottom	1	18.50	0.30	0.10	sqm	0.555		
	Side	2	18.50	0.20	0.10	sqm	0.740		
	Total					cum	1.295	5958.30	7,728.66
2/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
	(b) All work above plinth level up to Floor V level								
	Main column	3	0.30	0.30	3.150	cum	0.85		
	Verandah column	1	0.25	0.25	2.850	cum	0.12		
	Total					cum	1.03		
	Slab Beam	7	3.80	0.25	0.400	cum	2.31		
		1	1.23	0.25	0.400	cum	0.12		
	Roof Beam	7	3.30	0.25	0.400	cum	2.31		
		1	1.23	0.25	0.400	cum	0.12		
	Total					cum	4.87		
	Slab	1	8.70	3.80	0.125	cum	3.82		
	Gutter	1	17.00	0.30	0.100	cum	0.51		
		1	17.00	0.30	0.100	cum	0.51		
	Total					cum	4.94		
	GT::						10.83	9993.30	101,725.92
3/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete								
	(i) Thermo-Mechanically Treated Bars								
	Column	Qty. Bf from S.No.4/5.35				(b)	cum	1.029	
		310 Kg/cum					Kg	318.874	
	Beam	Qty. Bf from S.No.4/5.35				(b)	cum	4.965	
		270 Kg/cum					Kg	1313.820	
	Gutter	Qty. Bf from S.No.4/5.35				(b)	cum	4.935	
		100 Kg/cum					Kg	493.500	
	GT						Kg	2126.194	83.70
									177,982.42
4/5.11	Centering and shuttering including strutting,								
	(c) Columns, pillars, piers, abutments, posts and struts.								
	Column								
	250x250 column	1	2.45		1.00	sqm	2.850		
	300X300mm column	1	9.45		1.20	sqm	11.340		
	Total					sqm	14.190	508.30	7,184.40
	(d) Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc								
	Beams.								
	250x400mm beam	1	48.660		1.06	sqm	51.093		
	Total					sqm	51.08	400.10	20,442.31
	(e) Suspended floors, roofs, landings, shelves and their support, balconies and								
	Slab	1	8.70		3.80	sqm	31.32		
	Gutter	1	17.00		0.90	sqm	15.30		
	Total					sqm	46.62	538.30	25,002.31

5/6.06	Half brick masonry with first class brick in superstructure above plinth level up to floor V								
(b)	In cement mortar 1 : 4 (1 cement : 4 fine sand)								
	Skirting	1	13.80	0.50		sqm	11.880		
	Deduction								
	Main Door	1	0.50	1.20		sqm	-0.720		
	Emergency Door	1	0.90	0.90		sqm	-0.540		
					Total:	sqm	10.620	1032.90	10,969.40
6/6.06	Providing 1st class local wood dressed in frames of chaikat for doors, windows, clerestory windows fixed in position.								
	Main door	1	1.20	0.075	0.10	cum	0.009		
		2	2.10	0.075	0.10	cum	0.032		
	Emergency Exit	1	0.90	0.075	0.10	cum	0.007		
		2	2.10	0.075	0.10	cum	0.032		
	Windows & Ventilation	16	1.85	0.075	0.10	cum	0.188		
		24	0.90	0.075	0.10	cum	0.192		
					Total =	cum	0.439	43880.30	19,155.96
7/8.37	Providing and fixing 30mm thick panelled door shutter comprising of styles and rails of seasoned teak wood with panels of phenol formaldehyde synthetic resin bonded particle board 19mm thick with both sides teak ply veneering on both faces...								
	main door	1		1.20	2.10	sqm	2.52		
	emergency exit	1		0.90	2.10	sqm	1.89		
					Total =	sqm	4.41	8427.60	28,345.72
8/9.15	Providing and fixing 1st class local wood glazed shutters using 3mm thick plate sheet glass for doors, windows etc...								
	30mm thick								
	Windows & Ventilations	8	1.85	0.90		sqm	11.99		
					Total =	sqm	11.88	2140.10	25,421.38
9/8.08	7.5 cm thick brick masonry with first class brick in superstructure above plinth level upto								
(b)	In cement mortar 1 : 4 (1 cement : 4 fine sand)								
	Wall above Skirting	1	18.80	2.15		sqm	42.570		
	Deduction								
	Window+ Ventilation	8	1.85	0.90		sqm	-11.580		
	Main Door	1	1.50	1.20		sqm	-1.800		
	Emergency Door	1	1.50	0.90		sqm	-1.350		
					Total:	sqm	27.840	631.40	17,388.76
10/21.07	12mm cement plaster 1 : 4 (1 cement : 3 fine sand).								
	Qty. B.F from S. No. 8/6.06 (twice)	2	10.52			sqm	21.240		
	Qty. B.F from S. No. 12/8.08 (twice)	2	27.54			sqm	55.080		
	Main Column	3	3.15	1.20		sqm	11.340		
	Veranda Column	1	2.85	1.00		sqm	2.850		
	Roof beam	1	24.33	1.95		sqm	25.547		
					Total::	sqm	116.05	190.40	22,097.18
11/12.01	Cement concrete flooring 1:2:4(1cement:2 sand:4 well graded stone aggregate 20mm nominal size)								
	(a) 40mm thick	1	8.7	3.60		sqm	31.32		
					Total	sqm	31.32	492.80	13,555.90

(Ruppes seven half) only.

KAWRTHAH HSS



ESTIMATE FOR CONSTRUCTION OF ADDITIONAL CLASS ROOM AT GOVT. KAWRTHAH HSS.

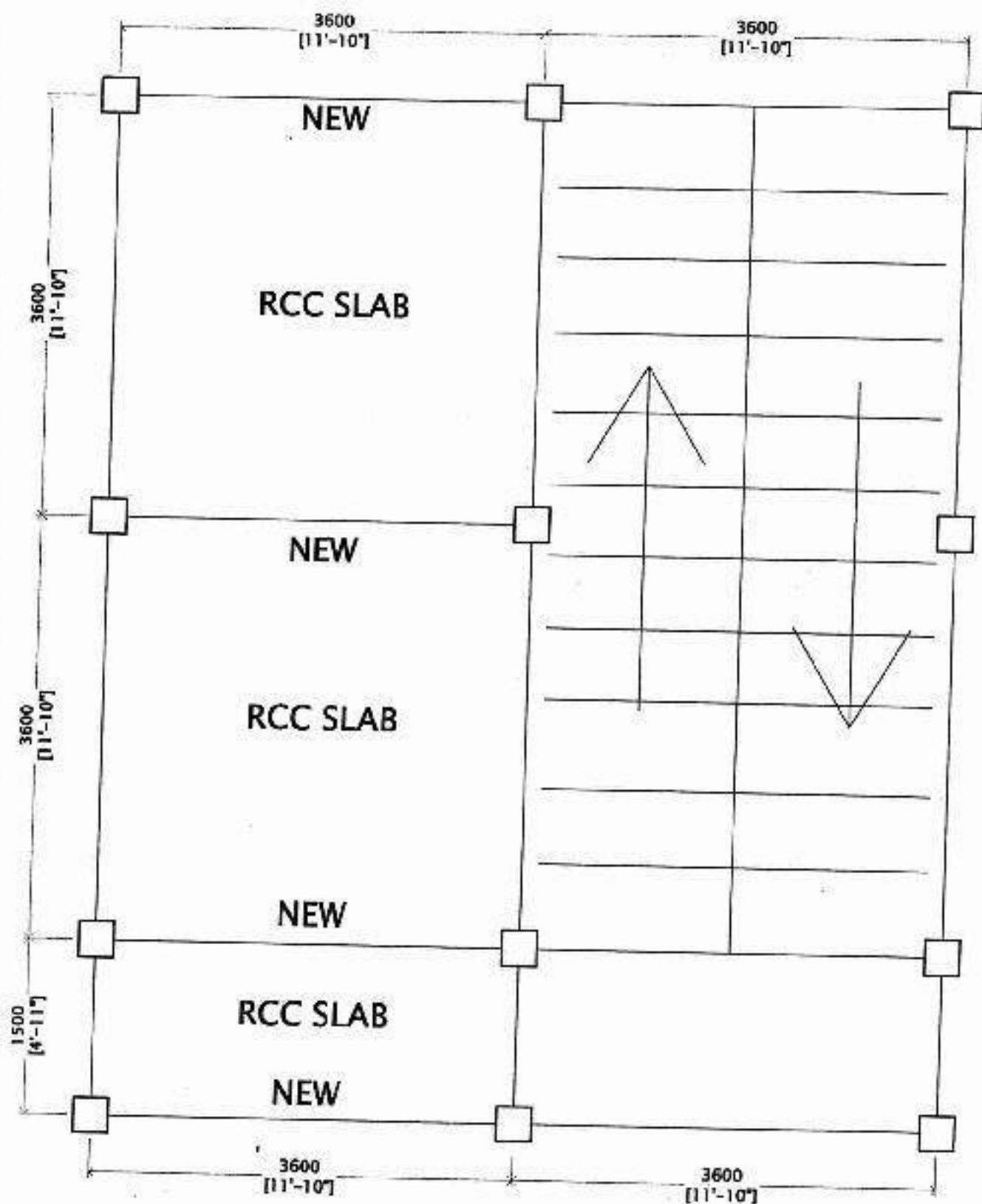
Sl.No	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth level :								
	(a) 1: 3: 6								
	Side drain								
	Bottom	1	18.50	0.30	0.10	sqm	0.555		
	Side	2	18.30	0.20	0.10	sqm	0.740		
	Total					cum	1.295	5858.30	7,728.85
2/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
	(b) All work above plinth level up to Floor V level								
	Main column	3	0.30	0.30	3.150	cum	0.85		
	Veranda column	1	0.25	0.25	2.850	cum	0.18		
	Total					cum	1.03		
	Slab Beam								
		7	3.30	0.25	0.400	cum	2.31		
		1	1.23	0.25	0.400	cum	0.12		
	Roof Beam								
		7	3.30	0.25	0.400	cum	2.31		
		1	1.23	0.25	0.400	cum	0.12		
	Total					cum	4.87		
	Slab	1	8.70	3.80	0.125	cum	3.92		
	Gutter	1	17.00	0.30	0.100	cum	0.51		
		1	17.00	0.30	0.100	cum	0.51		
	Total					cum	4.94		
	GT::						10.83	8393.30	101,725.92
3/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete								
	(f) Thermo-Mechanically Treated Bars								
	Column	Qty. Bt from S.No.4/5.35				(b)	cum	1.029	
		@ 310 Kg/cum					Kg	318.874	
	Beam	Qty. Bt from S.No.4/5.35				(b)	cum	4.666	
		@ 270 Kg/cum					Kg	1313.820	
	Gutter	Qty. Bt from S.No.4/5.35				(b)	cum	4.835	
		@ 180 Kg/cum					Kg	493.506	
	GT					Kg	2126.194	83.70	177,952.42
4/5.11	Centering and shuttering including strutting								
	c) Columns, pillars, piers, abutments, posts and struts.								
	Column								
	250x250 column	1	2.85		1.00	sqm	2.850		
	300x300mm column	1	8.45		1.20	sqm	11.340		
	Total					sqm	14.190	508.30	7,184.40
	d) Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc.								
	Beams.								
	250x400mm beam	1	48.593		1.05	sqm	51.093		
	Total					sqm	51.09	480.10	20,442.31
	e) Suspended floors, roofs, landings, shelves and their support, balconies and								
	Slab	1	8.70		3.60	sqm	31.32		
	Gutter	1	17.00		0.90	sqm	15.30		
	Total					sqm	46.62	536.30	25,002.31

5/5.05	Half brick masonry with first class brick in superstructure above plinth level up to floor V								
	(b) In cement mortar 1 : 4 (1 cement : 4 fine sand)								
	Skirting	1	19.80	0.60		sqm	11.850		
	Deduction								
	Main Door	1	0.60	1.20		sqm	-0.720		
	Emergency Door	1	0.60	0.90		sqm	-0.540		
					Total	sqm	10.620	1032.90	10,569.40
6/5.06	Providing 1st class local wood dressed in frames of chaupal for doors, windows, clerestory windows fixed in position.								
	Main door	1	1.20	0.075	0.10	cum	0.009		
		2	2.10	0.075	0.10	cum	0.032		
	Emergency Exit	1	0.90	0.075	0.10	cum	0.007		
		2	2.10	0.075	0.10	cum	0.032		
	Windows & Ventilation	16	1.55	0.075	0.10	cum	0.198		
		24	0.90	0.075	0.10	cum	0.162		
					Total =	cum	0.439	4369.30	19,155.96
7/5.37	Providing and fixing 30mm thick panelled door shutter comprising of styles and rails of seasoned teak wood with panels of phenol formaldehyde synthetic resin bonded particle board 18mm thick with both sides teak ply veneering on both faces. . .								
	main door	1		1.20	2.10	sqm	2.52		
	emergency exit	1		0.90	2.10	sqm	1.99		
					Total =	sqm	4.41	5427.90	26,345.72
8/5.15	Providing and fixing 1st class local wood glazed shutters using 3mm thick plate sheet glass for doors, windows etc.								
	30mm thick								
	Windows & Ventilations	8	1.65	0.90		sqm	11.88		
					Total =	sqm	11.88	2140.10	25,424.38
9/5.09	7.5 cm thick brick masonry with first class brick in superstructure above plinth level upto								
	(b) In cement mortar 1 : 4 (1 cement : 4 fine sand)								
	Wall above Skirting	1	19.80	2.15		sqm	42.570		
	Deduction								
	Window+Ventilation	8	1.55	0.50		sqm	-11.880		
	Main Door	1	1.50	1.20		sqm	-1.800		
	Emergency Door	1	1.50	0.90		sqm	-1.350		
					Total	sqm	27.540	931.40	17,355.76
10/21.07	12mm cement plaster 1 : 4 (1 cement : 3 fine sand).								
	Qty. B.F from S. No. 8/5.06(twice)	2	10.82			sqm	21.240		
	Qty. B.F from S. No. 12/5.09(twice)	2	27.54			sqm	55.080		
	Main Column	3	3.15	1.20		sqm	11.340		
	Veneered Column	1	2.85	1.00		sqm	2.850		
	Roof beam	1	24.33	1.05		sqm	25.547		
					Total::	sqm	116.06	190.40	22,087.16
11/12.21	Cement concrete flooring 1:2:4(1cement:2 sand:4 well graded stone aggregate 20mm nominal size).....								
	(a) 40mm thick	1	8.7	3.60		sqm	31.32		
					Total	sqm	31.32	432.80	13,555.30

21/15 07	Supplying, filling and fixing 4mm thick plain asbestos cement sheet ceiling with necessary nails complete excluding frame work of base and junction								
	Ceiling	1	5.70		3.5	m ²	31.320		
					Total:	m ²	31.320	378.10	11,842.08
22/14 08	conforming IS: 7534...					No	1,000	34.30	34.30
								Sub-Total	822,838.41
	Add 7.5% for internal electrification								46,712.88
	Add 5% for Furniture								31,141.92
								Total	700693.21
								Say, Rs	700000.00

(Rupees seven lakh) only.

KAWRTHAH HSS



**DETAILED ESTIMATE FOR THE CONSTRUCTION OF
ADDITIONAL CLASSROOM FOR CZ. HIGHER SEC. SCHOOL, KOLASIB**

SI No	SOR No	Name of Item	Nos		L	B	H	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12
1	2.08	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.									
		(a) Ordinary soil									
		Column 1		6	1.20	1.20	1.50	12.96			
		Column 2		6	1.00	1.00	1.20	7.20			
		Total						20.16	cum	218.10	4397.00
2	4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:									
		(a) 1:3:6 (1 cement : 3 coarse sand : 6 stone aggregate 20mm nominal size)									
		Column 1		6	1.50	1.20	0.1	1.08			
		Column 2		6	1.2	1.0	0.1	0.72			
		Total						1.80	cum	5968.30	10743.00
3	5.01	Providing and laying in position reinforced cement concrete excluding cost of centering and shuttering, finishing and reinforcement in - All work upto foundation & plinth level									
		(h) 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)									
		Column 1		6	1.5	1.2	0.10	1.08			
		Column 2		6	1.2	1.0	0.10	0.72			
		Total						1.80	cum	7101.00	12782.00
4	5.03	Reinforced cement concrete work in walls including attached pillars, columns, pillars, posts, piers, abutments, return walls, retaining walls, struts, buttresses, string or lacing courses, fillets etc. upto floor five level excluding cost of centering shuttering etc complete.									
		(b) 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)									
		below G. Floor		6	0.30	0.30	1.50	0.81			
				6	0.20	0.20	1.20	0.29			
		G. Floor level		6	0.30	0.30	3.00	1.62			

SI No	SOR No	Name of Item	Nos		L	B	H	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12
				6	0.20	0.20	2.50	0.6			
		Total						3.32	cum	7116.40	23612.00
5	5.04	Reinforce cement concrete work in beams, suspended floors, roofs having slope upto 15° landings, balconies, shelves, chajjas, lintels, bands, window sills, stair cases, spiral stair cases, cantilevers upto floor five level excluding cost of centering shuttering etc complete. with 1:2:4 (cement : 2 coarse sand : 4 stone aggregate)									
		Beam - 1	1	6	4.75	0.20	0.30	1.71			
			1	6	4.75	0.20	0.40	2.28			
		Beam - 2	1	6	2.75	0.20	0.30	0.99			
			1	6	2.75	0.20	0.40	1.32			
		Beam - 3	1	2	2.75	0.20	0.30	0.33			
			1	2	2.75	0.20	0.40	0.44			
		Beam - 4	1	3	1.50	0.20	0.30	0.27			
			1	3	1.50	0.20	0.40	0.36			
		Total						7.70	cum		
		Slab Gutter									
				2	12.30	0.50	0.10	1.23			
				2	8.05	0.50	0.10	0.81			
		Total						2.04	cum		
		Net Total						9.74	cum	7387.20	71914.00
6	5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in -									
		(c) Columns, posts and struts. etc									
		below G Floor	3	6		0.30	1.50	8.10			
			3	6		0.20	1.20	4.32			
		G. Floor level	3	6		0.30	3.00	16.20			
			3	6		0.20	2.50	9.00			
		Total						37.62	sqm	506.30	19047.00
		(d) Lintels, beams, plinth beams, etc.									
		Beam - 1	2	6		4.75	0.40	22.80			
			1	6		4.75	0.20	5.70			
		Beam - 2	2	6		2.75	0.40	13.20			
			1	6		2.75	0.20	3.30			
		Beam - 3	2	2		2.75	0.40	4.40			
			1	2		2.75	0.20	1.10			
		Beam - 4	2	3		1.50	0.40	3.60			
			1	3		1.50	0.20	0.90			
		Total						55.00	sqm	400.10	22006.00

Sl No	SOR No	Name of Item	Nos		L	B	H	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12
		(e) Suspended floors, roofs, landings, etc.									
		Slab Gutter		2	12.3	0.5		12.30			
				2	8.1	0.5		8.05			
				2	12.6	0.5		12.60			
				2	8.4	0.5		8.35			
		Total						41.30	sqm	535.30	22108.00
7	5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.									
		(f) Thermo-Mechanically Treated bars.									
		For Foundation		100	per	1.80	cum	180.00			
		For Column		310	per	3.32	cum	1028.58			
		For Beam		270	per	7.70	cum	2079			
		For Slab Gutter		100	per	2.04	cum	203.5			
		Total						3491.08	kg	83.70	292203.00
8	6.06	Half brick masonry with first class brick in superstructure above plinth level upto floor V level.									
		(a) in cement mortar 1:3 (1 cement : 3 coarse sand)									
		Wall Area		2	4.75	3.00		28.50			
				8	2.75	3.00		66.00			
		Total						94.50	sqm		
		Deduction for Opening									
		W		18	1.25	0.925		20.81			
		V		20	0.45	0.925		8.33			
		D1		2	2.00	1.22		4.88			
		Total						34.02	sqm		
		Net Total						60.48	sqm	1040.90	62956.00
9	9.08	Providing 1st class local wood in trusses etc. including hoisting fixing in position supplying necessary fittings such as spikes bolts and nuts, nails etc and applying wood preservative for unexposed surface etc. complete.									
		trusses		13	3.20	0.08	0.10	0.33			
				2	3.30	0.08	0.10	0.05			
				2	8.90	0.08	0.10	0.14			
				4	2.25	0.08	0.10	0.07			
				4	2.20	0.08	0.10	0.07			
				8	1.60	0.08	0.10	0.10			
				2	1.20	0.08	0.10	0.02			
				4	1.20	0.08	0.10	0.04			
				4	0.75	0.08	0.10	0.02			

SI No	SOR No	Name of Item	Nos		L	B	H	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12
		purlin		2	8.90	0.05	0.05	0.04			
				2	6.25	0.05	0.05	0.03			
				2	3.20	0.05	0.05	0.02			
				1	11.05	0.05	0.05	0.03			
				1	9.85	0.05	0.05	0.02			
				2	8.65	0.05	0.05	0.04			
				2	7.50	0.05	0.05	0.04			
				2	4.80	0.05	0.05	0.02			
				8	4.08	0.05	0.05	0.08			
				2	2.40	0.05	0.05	0.01			
				2	1.80	0.05	0.05	0.01			
				2	3.60	0.05	0.05	0.02			
				2	2.50	0.05	0.05	0.01			
				2	1.20	0.05	0.05	0.01			
		Total						1.219	cum	38740.90	47233.00
10	9.06	Providing 1st class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.									
		W - Vertical		36	1.25	0.10	0.10	0.450			
		W - Horz		36	0.93	0.10	0.10	0.333			
		V - Vertical		40	0.45	0.10	0.10	0.180			
		V - Horz		40	0.93	0.10	0.10	0.370			
		D1 - Vertical		4	2.00	0.10	0.10	0.080			
		D1 - Horz		2	1.22	0.10	0.10	0.024			
		Total						1.44	cum	43660.30	62757.00
11	9.11	Providing and fixing 1st class local wood <i>panelled</i> shutters for doors etc. including M.S. butt hinges with necessary screws, etc. complete.									
		(b) 35 mm thick.									
		D1		2	2.00	1.22		4.88	sqm	2515.80	12277.00
12	9.15	Providing and fixing 1st class local wood <i>glazed</i> shutters using 3mm thick plate sheet glass for doors, windows, etc. including M.S. butt hinges with necessary screws complete.									
		(b) 35 mm thick.									
		W		18	1.25	0.93		20.81			
		V		20	0.45	0.93		8.33			
		Total						29.14	sqm	2255.90	65731.00

SI No	SOR No	Name of Item	Nos		L	B	H	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12
13	12.01	Cement concrete flooring 40 mm thick with cement concrete 1:2:4 (1 cement : 2 sand : 4 well graded stone aggregate 20mm size) finished with a floating coat neat cement including cement slurry etc. complete but excluding the cost of nosing of steps etc.									
				1	11.00	6.25		68.75	sqm	432.80	29755.00
14	13.32	Providing and fixing 2nd class local wood frame works for wall lining consisting of battens 50x25mm fixed over wood plugs embedded in wall with necessary nails or screws, etc. including cost of wood plugs complete.									
		Framework for Partition wall		1	4.75	3.00		14.25	sqm	597.20	8510.00
15	13.19	Providing and fixing plywood plain lining with necessary screws complete -									
		(b) With commercial ply 3mm thick facing of approved manufacture									
		Partition wall	1	2	4.75	3.00		28.50	sqm		
		Deduct									
		D2		1	2.00	0.90		1.80	sqm		
		Net Total						26.70	sqm	690.00	18423.00
16	14.06	Providing and fixing M.S. sliding door bolts (aldrops) bright finished or/ and black enamelled with nuts and screws etc. complete.									
		(a) 300 x 16 mm						2	each	246.20	492.00
17	14.07	Providing and fixing M.S. tower bolts (socket bolts) bright finished with necessary screws etc. complete.									
		(c) 200 mm Doors						6	each	80.10	481.00
		(d) 150 mm Windows						36	each	64.10	2308.00
		(e) 100 mm Ventilation						20	each	49.00	980.00
18	14.10	Providing and fixing M.S. handles with necessary screws, etc. complete.									
		(a) 150 mm						64	each	73.20	4685.00
19	14.57	Providing and fixing M.S. hooks and eyes.									
		(a) 200 mm						56	each	38.00	2128.00

SI No	SOR No	Name of Item	Nos		L	B	H	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12
20	21.07	12mm cement plaster 1 : 4									
		Wall both side		2	60.48			120.97			
		Under Slab Gutter		1	20.35			20.35			
		Outer Slab Gutter		1	20.95			20.95			
		Total						162.27	sqm	190.40	30895.00
21	16.01	Providing Trapezoidal Polyester Coated Galvanised Steel Sheets Roofing of any colour of 1.06m width at all levels including fitting and fixing ridging with self drilling, self tapping screws, EPDM washers etc. complete excluding the cost of purlin, rafter and									
		(a) For 0.50mm thick :									
		(Qty taken from 13/12.01)						68.75	sqm	1015.70	69829.00
22	16.38	Providing and fixing of Polyester Coated Galvanised Steel Sheets of any colour ridges, gutters or valleys 50cm overall width 0.50mm thick with 150 mm overlapping fixed with Self Drilling & Tapping Screws with EPDM washer but excluding the cost of base frame.									
		Total Length + Overlapping at joint						33.90	m	486.40	16489.00
23	21.60	Applying one coat of cement primer of approved brand and manufacture on wall surface.									
		Wall both side		2	60.48			120.97			
		Under Slab Gutter		1	20.35			20.35			
		Outer Slab Gutter		1	20.95			20.95			
		Total						162.27	sqm	53.80	8730.00
24	21.77	Distempering with oil bound washable distemper of approved brand and manufacture and of required shade and colour to give an even shade on new work (two or more coats).									
		Wall inside area						60.48	sqm	71.00	4294.00
25	21.81	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade on new work (three or more coats) to give an even shade.									
		Wall outside area						60.48	sqm		
		Column Outside area						11.80	sqm		
		Slab Gutter (Qty from 23/21.60)						41.30	sqm		
		Total						113.58	sqm	93.00	10563.00

SI No	SOR No	Name of Item	Nos		L	B	H	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12
26	21.61	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.									
		(a) Ready mix white primer.									
		Door		2	4.88	(Both side)		9.76			
		Windows		2	20.81	(Both side)		41.63			
		Ventilation		2	8.33	(Both side)		16.65			
		Chaukats	3	36	1.25	0.10		13.50			
			3	36	0.93	0.10		9.99			
			3	40	0.45	0.10		5.40			
			3	40	0.93	0.10		11.10			
			3	4	2.00	0.10		2.40			
			3	2	1.22	0.10		0.73			
		Total						111.16	sqm	45.00	5002.00
27	21.92	Painting with synthetic enamel paint of approved brand and manufacture in all shade on new work (two or more coats).									
		(a) General quality									
		Door , Windows panelled and chaukats						111.16	sqm	81.50	9059.00

Total **Rs.** 952389.00
 Add 5% for internal electrification on cost of Building **Rs.** 47619.45
G.Total **Rs.** 1000008.45
Say **Rs.** 1,000,000.00

(Rupees Ten Lakh only)

Prepared by-

(R.MALSAWMTHANGA)

Project Engineer

SSA Mission, Kolastib District

The person preparing this drawing
will not bear any responsibility,
if any or a part of
the Drawing Details/Specifications
are not fully followed.

Remarks, if any:

Name of Work:

CONSTRUCTION OF
ADDITIONAL CLASSROOM

Name of School:

C.ZAKHUMA HR. SEC. SCHOOL,
KOLASIB.

Total Sheets : 05

Year: 2016

Countersign:

Drawn by:

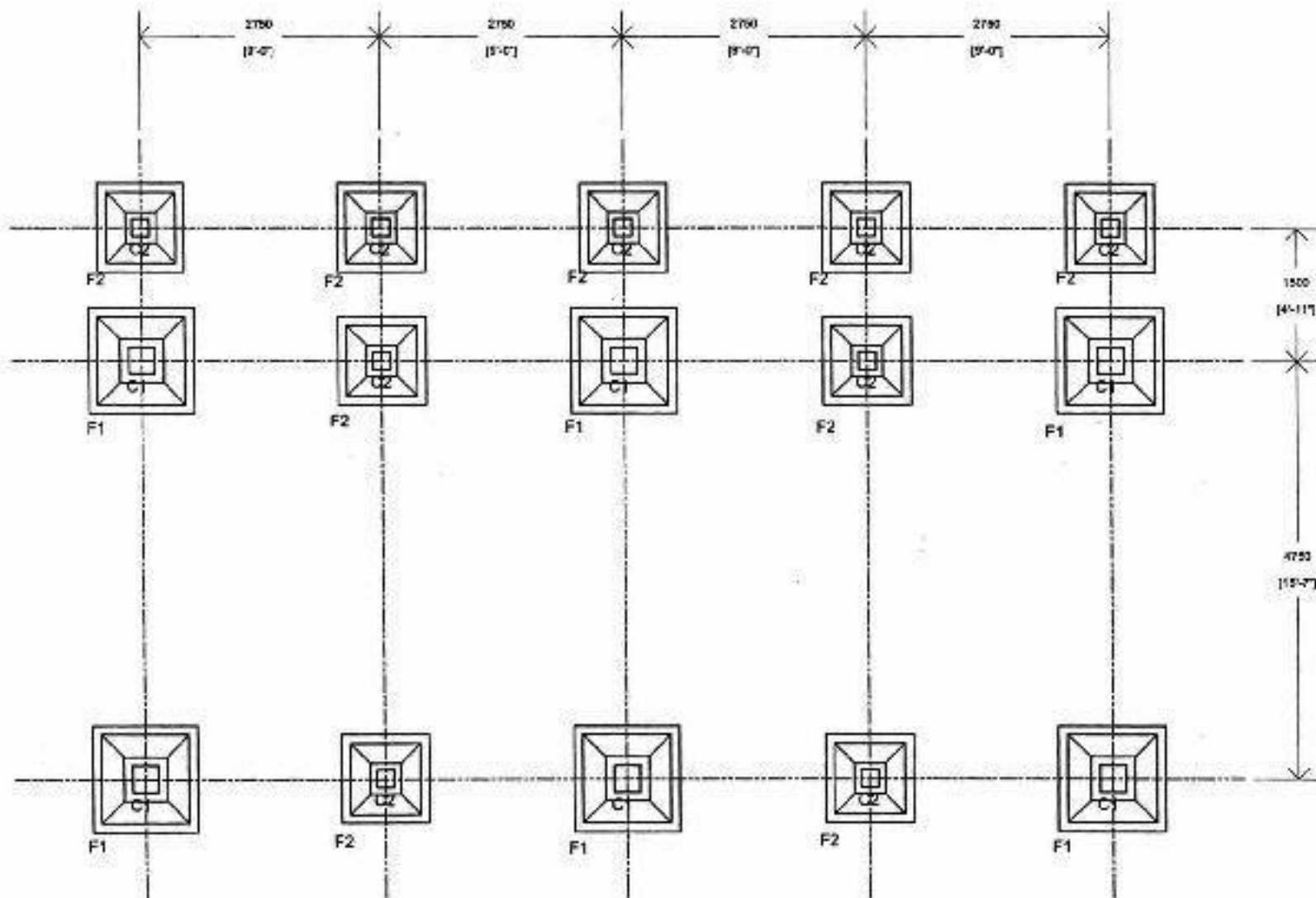
(R.MALSAWMTHANGA)

Project Engineer,

CONSTRUCTION OF ADDITIONAL CLASSROOM

AT C.ZAKHUMA HR. SEC. SCHOOL, KOLASIB.

ESTIMATED AMOUNT: ' 10,00,000.00/-



F1 = Footing 1 : Footing for C1- Size : 1000 x 1000.

F2 = Footing 2 : Footing for C2- Size : 900 x 900.

C1 = Column 1 : Column of Size 250 x 250.

C2 = Column 2 : Column of Size 200 x 200.

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All Dimensions are in mm.,
unless specified.

Name of School:

C.ZAKHUMA BR. SEC. SCHOOL,
KOLASIB.

Name of Work:

CONSTRUCTION OF
ADDITIONAL CLASSROOM

Scale:
1:50

Sheet No.:
01 / 06

Sheet Title:

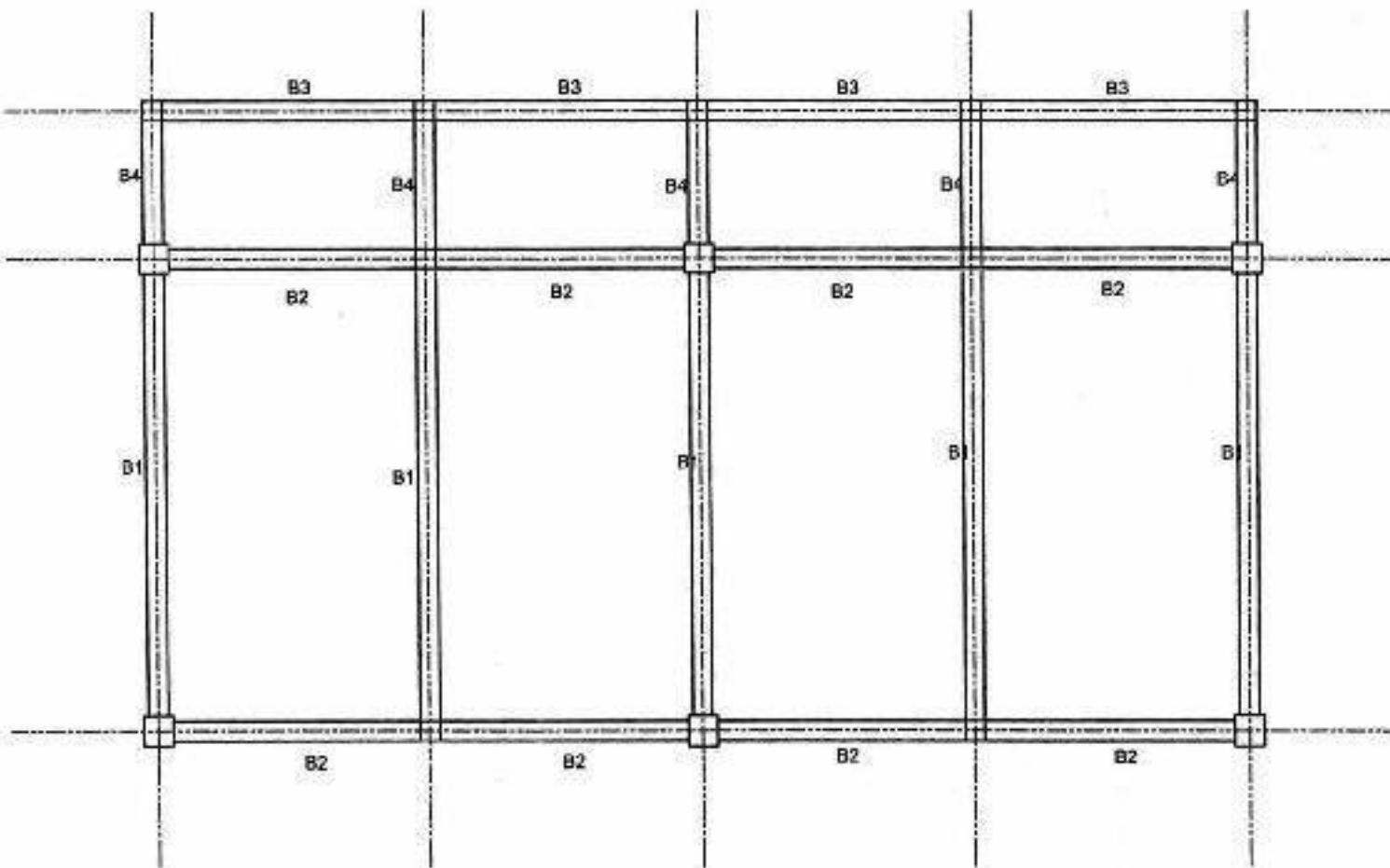
LAYOUT OF FOUNDATIONS,
COLUMNS & BEAM-LINES

Countersign:

Drawn by :

(R.MALSAWMTHANGA)

Project Engineer



B1 = Beam 1 : Beam of Size 400 x 200.
 B2 = Beam 2 : Beam of Size 400 x 200.
 B3 = Beam 3 : Beam of Size 400 x 200.
 B4 = Beam 4 : Beam of Size 400 x 200.

The person preparing this drawing
 will not bear any responsibility,
 if any or a part of
 the Drawing Details/Specifications
 are not fully followed.

All Dimensions are in mm.,
 unless specified.

Name of School:

C.ZAKHUMA HR. SEC. SCHOOL,
 KOLASIB.

Name of Work:

CONSTRUCTION OF
 ADDITIONAL CLASSROOM

Scale:
 1:50

Sheet No.:
 02 / 06

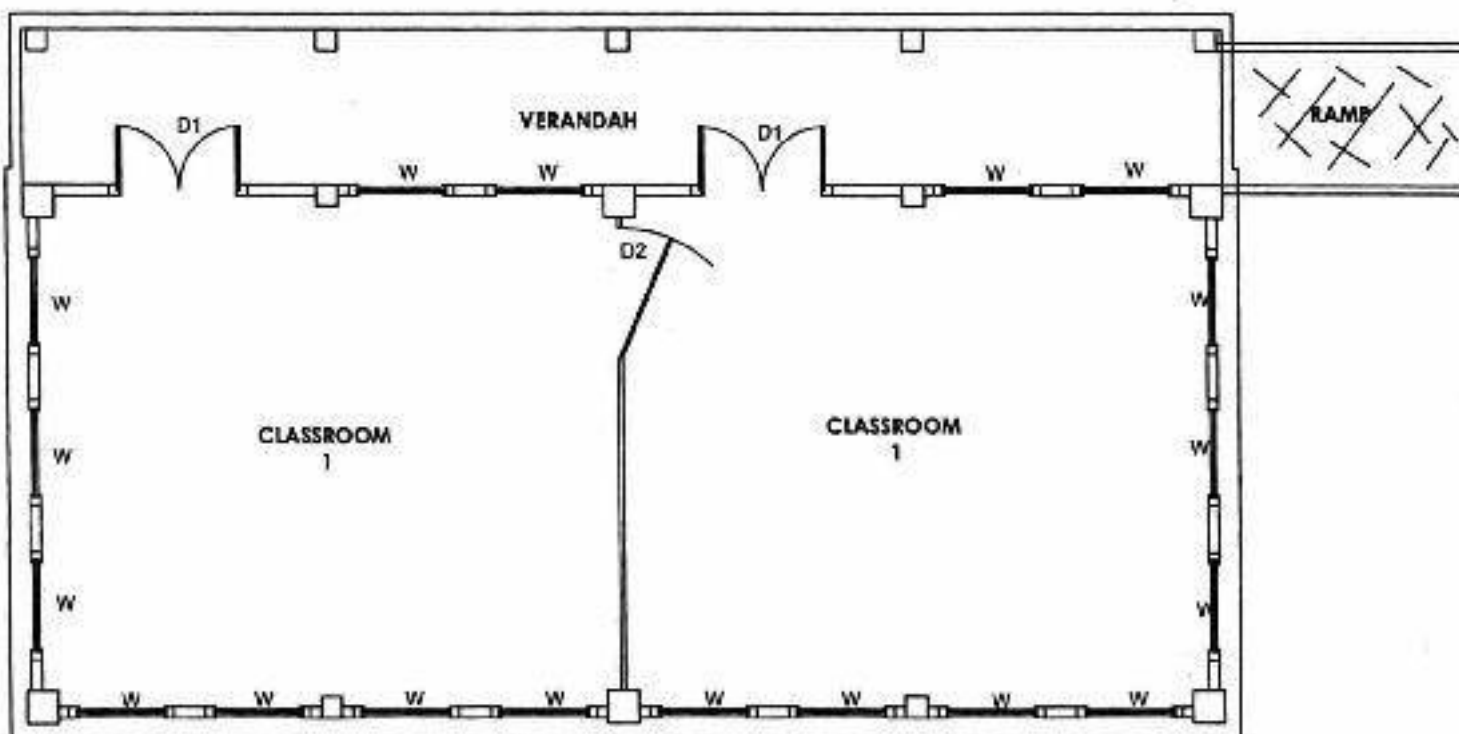
Sheet Title:

LAYOUT OF
 COLUMNS & BEAMS

Countersign :

Drawn by :

(R.MALSAWMTHANGA)
 Project Engineer.



The person preparing this drawing will not bear any responsibility, if any or a part of the Drawing Details/Specifications are not fully followed.

All Dimensions are in mm, unless specified.

Name of School:

C.ZAKHUMA HR. SEC. SCHOOL,
KOLASIB.

Name of Work:

CONSTRUCTION OF
ADDITIONAL CLASSROOM

Scale:
1:50

Sheet No.:
03 / 06

Sheet Title:

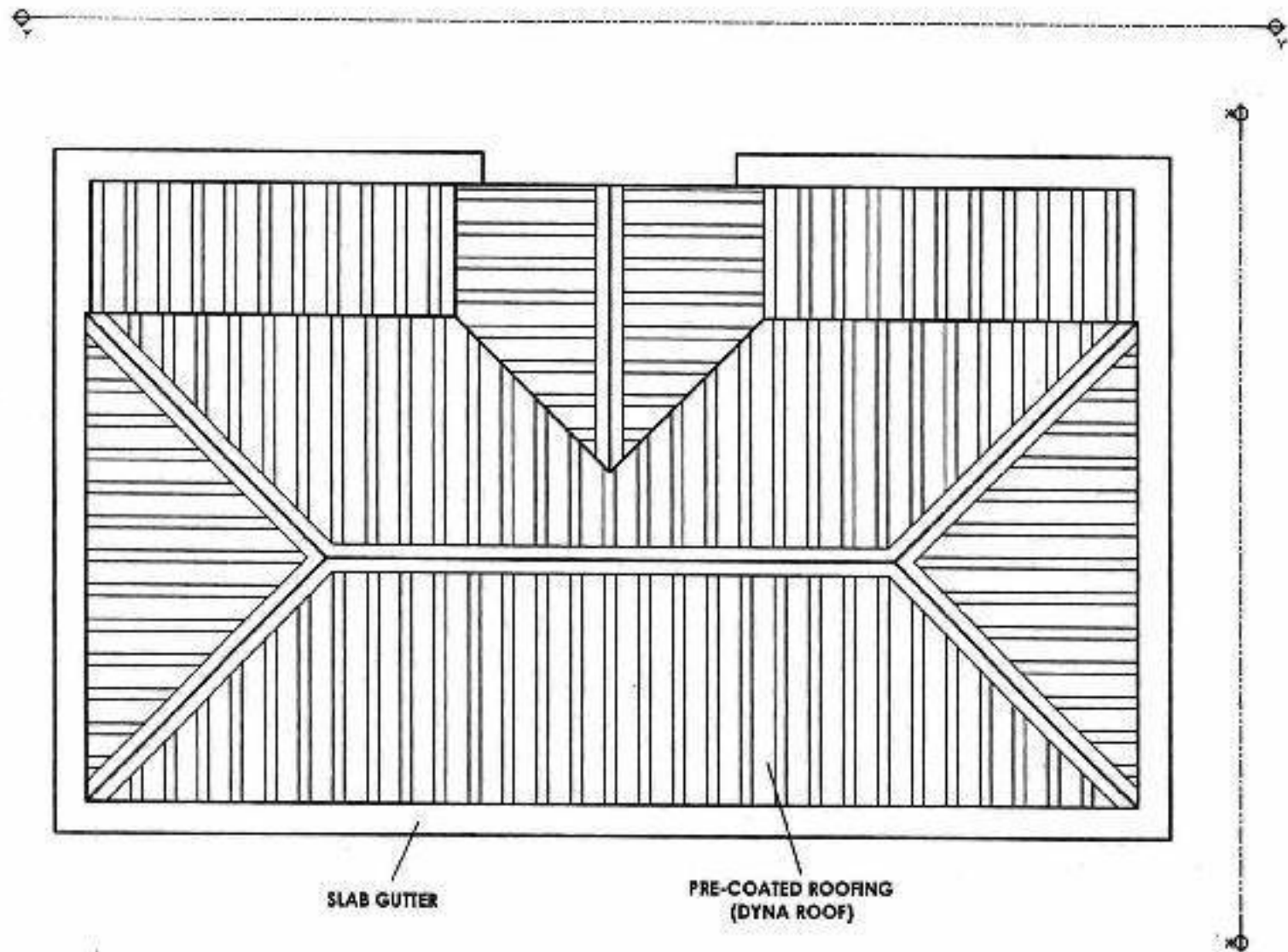
FLOOR PLAN

Countersign :

Drawn by :

(R.MALSAWMTHANCA)

Project Engineer,



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the Drawing Details/Specifications
are not fully followed.

All Dimensions are in mm.,
unless specified.

Name of School:

C. ZAKHUMA HR. SEC. SCHOOL,
KOLASIB.

Name of Work:

CONSTRUCTION OF
ADDITIONAL CLASSROOM

Scale:
1:50

Sheet No.:
04 / 06

Sheet Title:

ROOF PLAN

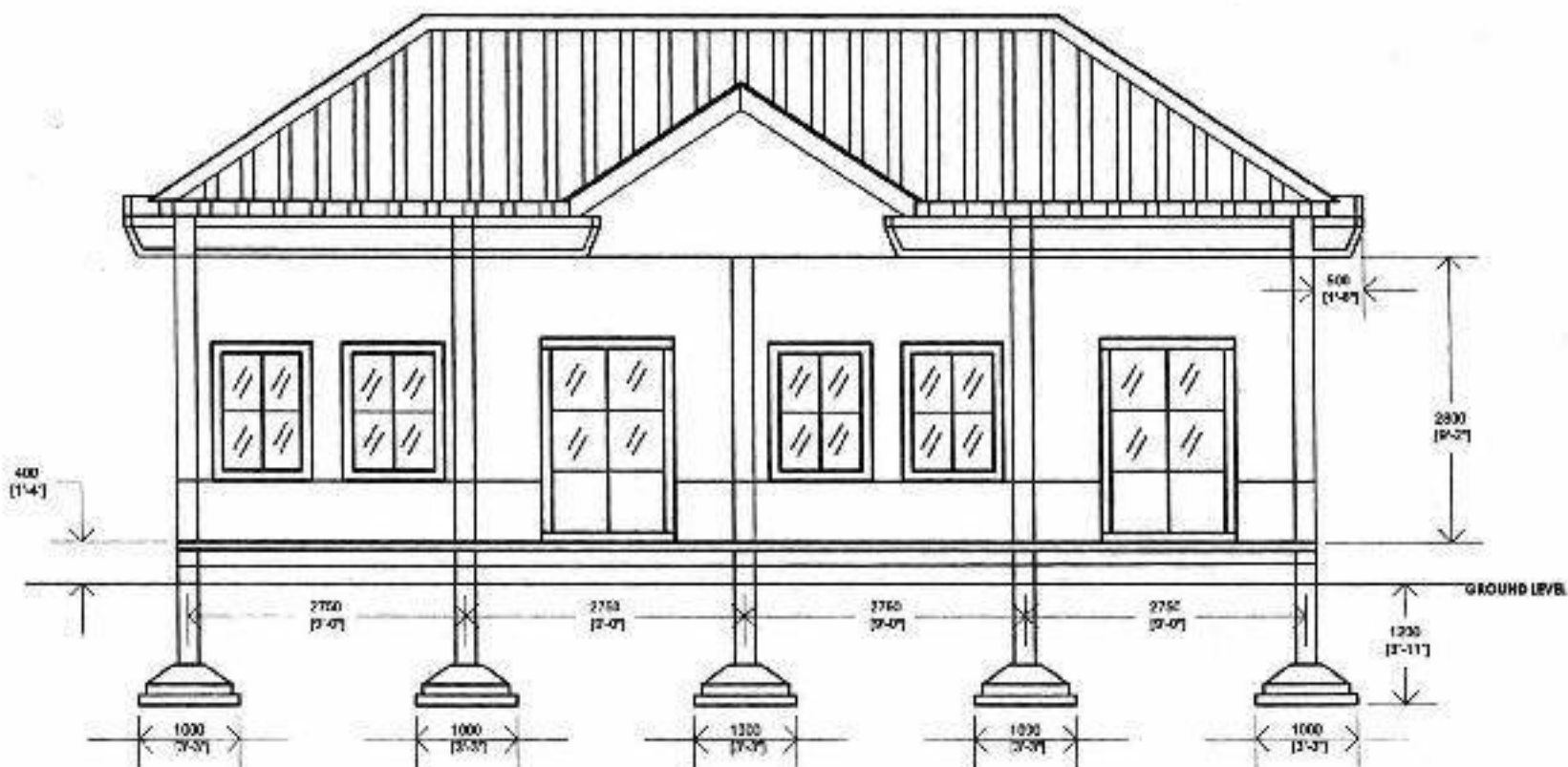
Countersign :

Drawn by :

(R.MALSAWMTHANGA)

Project Engineer,

S.S. M. M. A. T.



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will not bear any responsibility,
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are not fully followed.

All Dimensions are in mm.,
unless specified.

Name of School:

C.ZAKHUMA HR. SEC. SCHOOL,
KOLASIB.

Name of Work:

CONSTRUCTION OF
ADDITIONAL CLASSROOM

Scale:

1:50

Sheet No.:

05 / 06

Sheet Title:

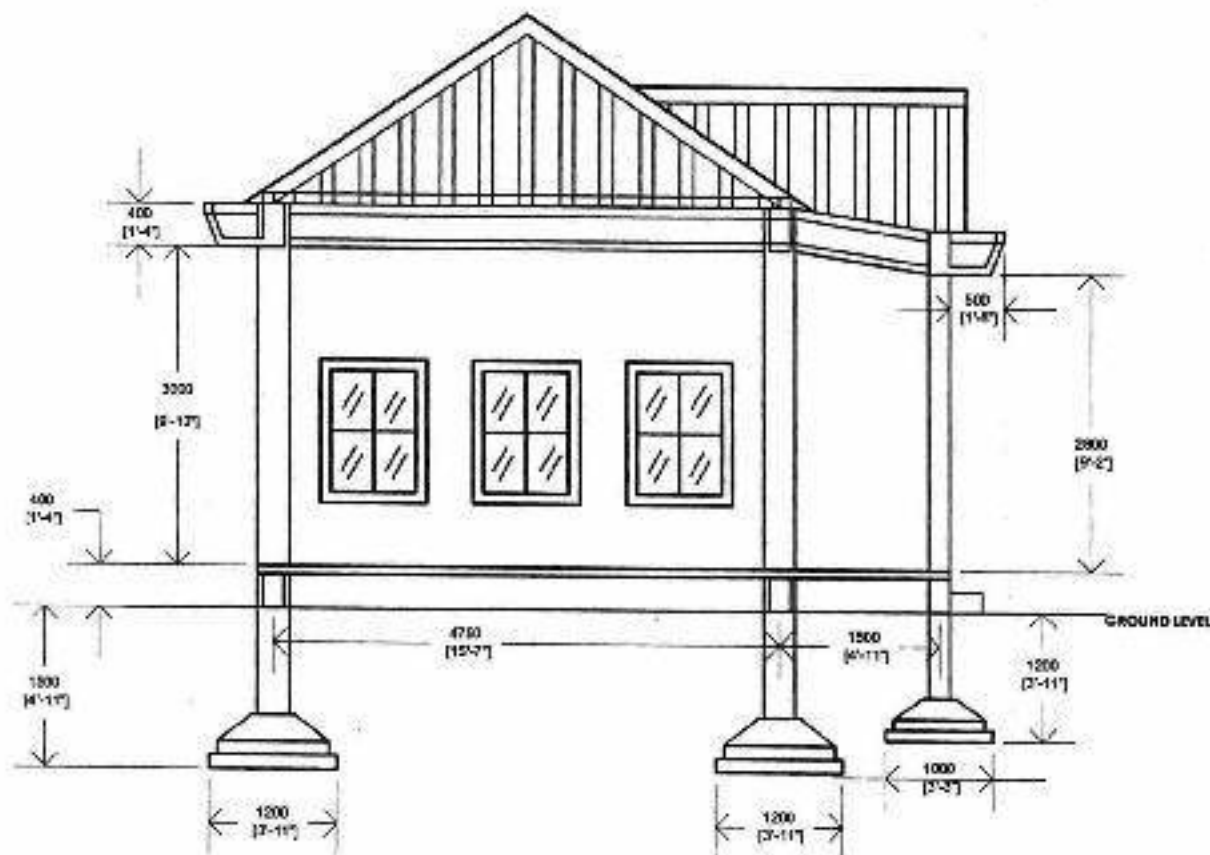
FRONT ELEVATION
(View from Y-Y)

Countersign :

Drawn by :

(R.MALSAWMTHANGA)

Project Engineer,



The person preparing this drawing will not bear any responsibility, if any or a part of the Drawing Details/Specifications are not fully followed.

All Dimensions are in mm, unless specified.

Name of School:

CZAKHUMA HR. SEC. SCHOOL,
KOLASIB.

Name of Work:

CONSTRUCTION OF
ADDITIONAL CLASSROOM

Scale:
1:50

Sheet No.:
06 / 06

Sheet Title:

SIDE ELEVATION
(View from X-X)

Countersign:

Drawn by:

(R.MALSAWMTEANGA)

Project Officer

ESTIMATE FOR CONSTRUCTION OF ADDITIONAL CLASS ROOM AT GOVT.SERCHHIP H.S.

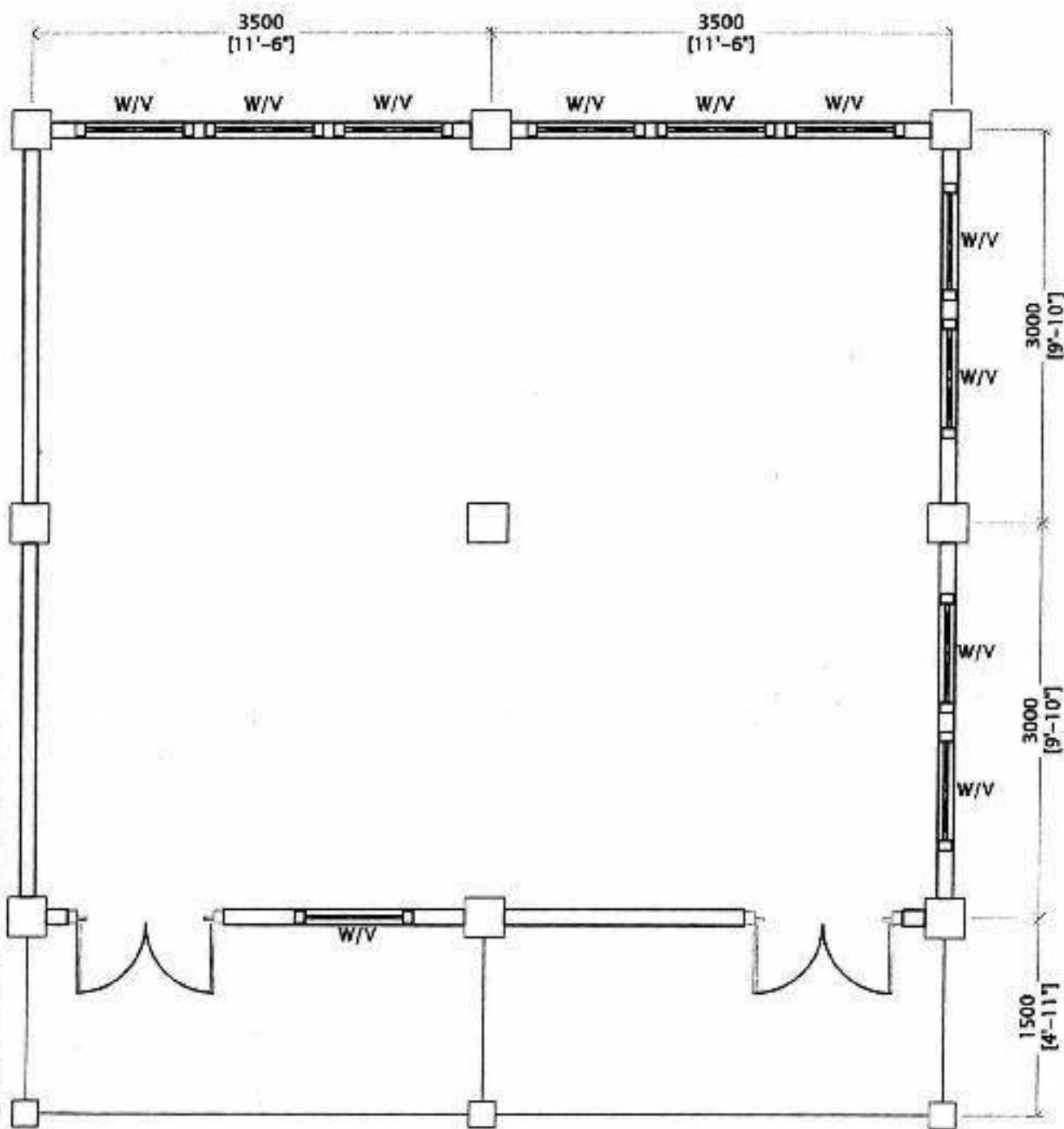
Sl.No	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/2.08	Earth work in excavation in foundation trenches...								
	(b) (Hard Soil) (Pick work)								
	Foundation for main column	9	1.20	1.20	1.50	cum	19.44		
	Foundation for verandah column	3	1.20	1.20	1.50	cum	6.48		
					Total:	cum	25.92	327.20	8,481.02
2/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each deposited layer by ramming and watering and lead upto 50 m and lift upto 1.50 meters.								
	Qty. BF from S.No.	1/2.08					25.92		
	Deduct from earthwork								
	Main Column	9	0.30	0.30	1.05	cum	-0.851		
	Verandah column	3	0.25	0.25	1.05	cum	-0.197		
	Footling	12	1.20	1.20	0.30	cum	-5.184		
	Column Foundation	12	1.20	1.20	0.10	cum	-1.728		
	Filling for Verandah	1	7.00	1.00	0.50	cum	3.500		
					Total:	cum	21.48	90.30	1,937.80
3/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth level :								
	(a) 1: 3: 6								
	Column Foundation	12	1.20	1.20	0.100	cum	1.728		
	Verandah Floor	1	7.00	1.500	0.100	cum	1.05		
	Ramp up	2	1.00	1.20	0.100	cum	0.240		
	Side drain								
	Bottom	1	27.00	0.30	0.125	sqm	1.013		
	Side	2	27.00	0.20	0.125	sqm	1.350		
	Base for Retaining wall(Verandah portion)	1	11.00	0.70	0.150	sqm	1.155		
					Total:	cum	8.536	5988.30	32,005.82
4/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
	(a) All work upto foundation & plinth level								
	Footling	12	1.20	1.20	0.35	cum	8.048		
	Main Column	3	0.30	0.30	7.45	cum	2.21		
		3	0.30	0.30	4.45	cum	1.20		
		3	0.30	0.30	3.25	cum	0.98		
	Verandah column	3	0.25	0.25	2.00	cum	0.38		
					Total:	cum	10.52	8847.30	93,090.03
	(b) All work above plinth level up to Floor V level								
	Main column	8	0.30	0.30	3.150	cum	2.268		
	Verandah column	3	0.25	0.25	2.850	cum	0.534		
					Total:	cum	2.802		
	Tie Beam	1	8.40	0.25	0.40	cum	0.640		
	Plinth Beam/Slab beam								
		3	6.40	0.25	0.40	cum	1.920		
		1	6.50	0.25	0.40	cum	0.950		
		3	6.63	0.25	0.40	cum	1.989		
	Roof Beam	2	8.40	0.25	0.40	cum	1.280		
		1	6.50	0.25	0.40	cum	0.650		
		3	6.63	0.25	0.40	cum	1.989		
					Total:	cum	9.118		
	Slab	1	7.00	6.00	0.125	cum	5.250		
	Cutter								
	Bottom	1	23.98	0.30	0.10	cum	0.718		
	Side	1	23.98	0.40	0.10	cum	0.958		
					Total:	cum	6.929		
					GT:		18,849	9993.30	177,054.08

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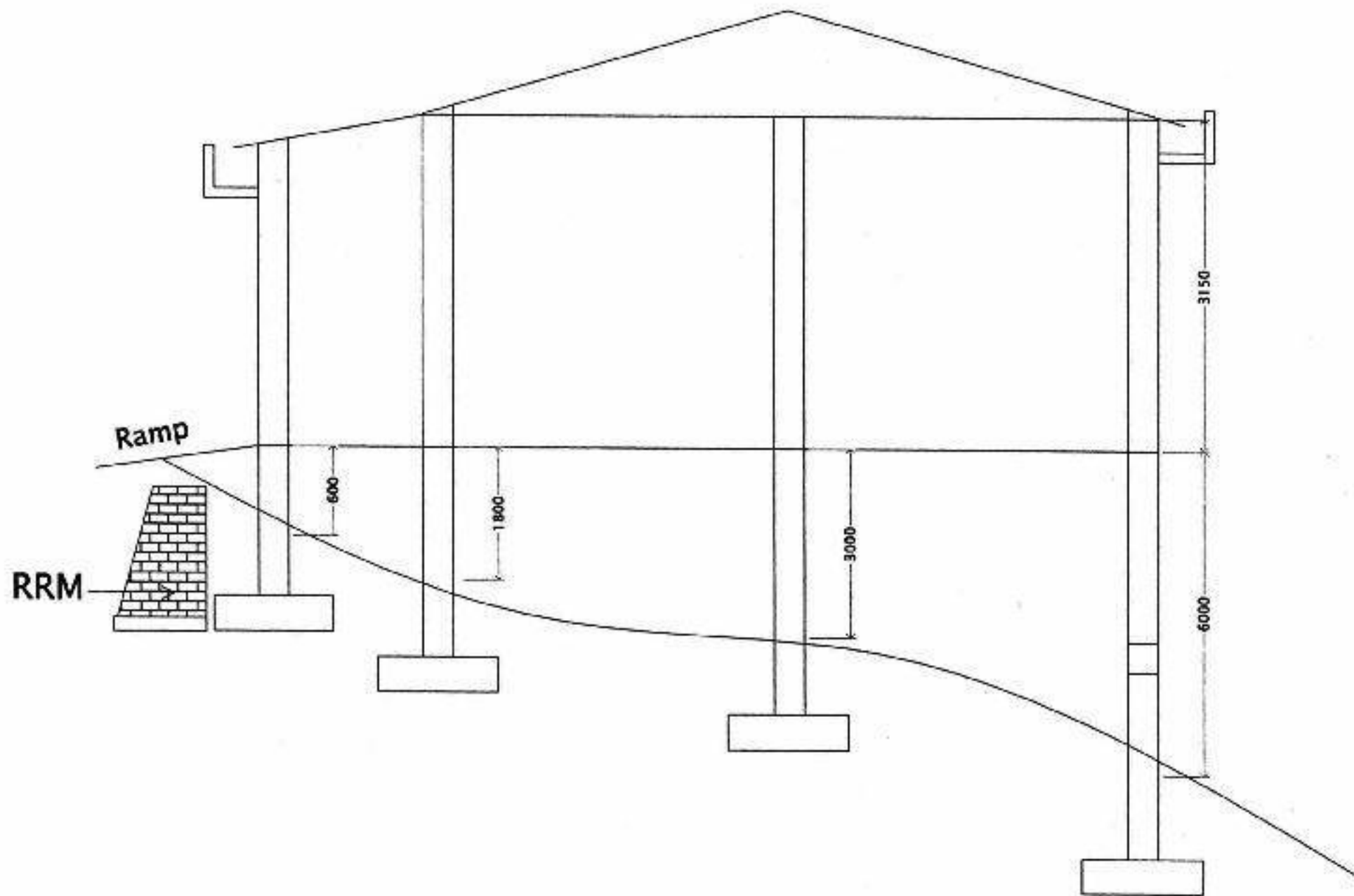
9/9.08	Providing 1st class local wood dressed in frames of chaukhar for doors, windows, clerestory windows fixed in position								
	Main door	2	1.20	0.075	0.10	cum	0.018		
		4	2.10	0.075	0.10	cum	0.063		
	Windows & Ventilation	22	1.65	0.075	0.10	cum	0.272		
		53	0.90	0.075	0.10	cum	0.223		
					Total =	cum	0.576	43680.30	25,148.33
10/9.37	Providing and fixing 30mm thick panelled door shutter comprising of styles and rails of seasoned teak wood with panels of phenol formaldehyde synthetic resin bonded particle board 10mm thick with both sides teak ply veneering on both faces...								
	main door	2		1.20	2.10	sqm	5.04		
					Total =	sqm	5.04	6427.60	32,395.10
11/9.15	Providing and fixing 1st class local wood glazed shutters using 3mm thick plate sheet glass for doors, windows etc.....								
	30mm thick								
	Windows & Ventilations	11	1.65	0.90		sqm	18.34		
					Total =	sqm	18.34	2140.10	34,858.53
12/21.07	12mm cement plaster 1 : 4 (1 cement : 3 fine sand)								
	Qty. B.F from S. No. 7/6.06(b) (twice)	2	12.72			sqm	25.440		
	Qty. B.F from S. No. 8/6.08(b) (twice)	2	30.81			sqm	61.610		
	Main Column	8	3.15	1.20		sqm	30.240		
	Verandah Column	3	2.85	1.00		sqm	8.550		
	P/wh beam	1	30.20	0.40		sqm	12.080		
	Roof beam	1	42.18	1.30		sqm	54.834		
	Gutter	1	23.88	0.80		sqm	18.16		
					Total::	sqm	211.94	190.40	40,353.00
15/12.01	Cement concrete flooring 1:2:4(1cement:2 sand:4 well graded stone aggregate 20mm nominal size).....								
	(a) 40mm thick	1	7	7.50		sqm	62.50		
					Total	sqm	62.50	432.80	22,722.00
14/21.61	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.								
	(a) Ready mix pink/grey primer.								
	Chaukhar for								
	Main door	2	1.20		0.30	sqm	0.720		
		4	2.10		0.30	sqm	2.520		
					Total	sqm	3.24	45.00	145.80
15/21.82	Painting with synthetic enamel paint of approved brand and manufacture in all shade on new work (two or more coats).								
	a) General quality	Qty. BF from	14/21.61		sqm	3.24			
		Qty. BF from	10/9.37	(both sides)	sqm	10.08			
				Total	sqm	13.32	81.50	1,085.58	
16/21.01	Finishing walls with water proofing cement paint of approved brand and manufactured and of required shade on new work (three or more coats) to give an even shade.								
	(b) Premium exterior emulsion like weatherpote, weather shield etc.								
	Qty. BF from S.No	12/21.07			sqm	211.94			
	Qty. BF from S.No	23/15.07			sqm	52.50			
				Total	sqm	264.44	93.00	24,582.73	

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SERCHHIP HSS



Sereklip HSS



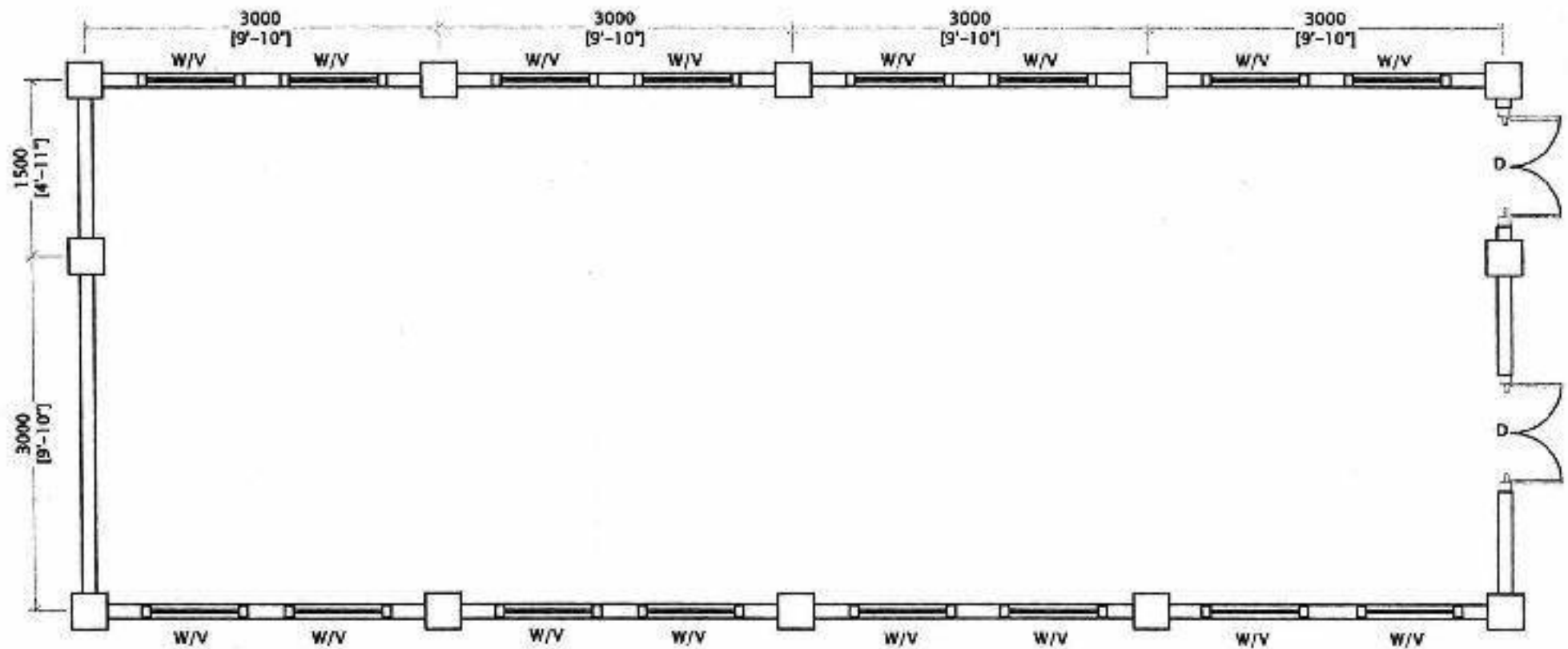
ESTIMATE FOR CONSTRUCTION OF ADDITIONAL CLASS ROOM AT GOVT. MIZO HSS

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/2.09	Earth work in excavation in foundation trenches								
	(b) Hard Soil (Pick work)								
	Foundation for main column	9	1.30	1.30	1.50	cum	22.82		
					Total	cum	22.82	327.20	7,465.07
2/2.13	Filling available excavated earth (excluding rock) in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each deposited layer by ramming and watering and lead upto 50 m and lift upto 1.50 meters.								
	Qty. BF from S.No	1/2.08					22.82		
	Deduct from earthwork								
	Main Column	9	0.35	0.35	1.05	cum	-1.158		
	Footing	9	1.30	1.30	0.35	cum	-5.324		
	Column Foundation	9	1.30	1.30	0.10	cum	-1.521		
					Total	cum	14.81	80.30	1,337.60
3/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth								
	(a) 1: 3: 6								
	Column Foundation	9	1.30	1.30	0.100	cum	1.521		
	Floor	1	12.00	4.500	0.100	cum	5.40		
	Side drain								
	Bottom	1	32.50	0.30	0.125	sqm	1.219		
	Side	2	32.50	0.20	0.125	sqm	1.625		
					Total	cum	9.755	5968.30	58,278.96
4/5.15	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
	(a) All work upto foundation & plinth level.								
	Footing	9	1.30	1.30	0.35	cum	5.324		
	Main Column	9	0.35	0.35	1.45	cum	1.60		
					Total	cum	6.92	8947.30	61,242.12
	(b) All work above plinth level up to Floor V level								
	Main column	3	0.35	0.35	6.300	cum	6.946		
					Total	cum	6.946		
	Plinth Beam								
		2	10.60	0.25	0.40	cum	2.120		
		1	3.80	0.25	0.40	cum	0.380		
		3	4.15	0.25	0.40	cum	1.245		
	1ST Floor slab Beam	2	10.60	0.25	0.40	cum	2.120		
		1	3.80	0.25	0.40	cum	0.380		
		3	4.15	0.25	0.45	cum	1.401		
		1	11.65	0.25	0.45	cum	1.311		
	Roof Beam	2	10.60	0.25	0.40	cum	2.120		
		1	3.80	0.25	0.40	cum	0.380		
		3	4.15	0.25	0.45	cum	1.401		
		1	11.65	0.25	0.45	cum	1.311		
					Total	cum	14.169		
	Slab	2	12.00	4.50	0.125	cum	13.500		
					Total	cum	13.500		
					GT		34.613	9393.30	325,132.64

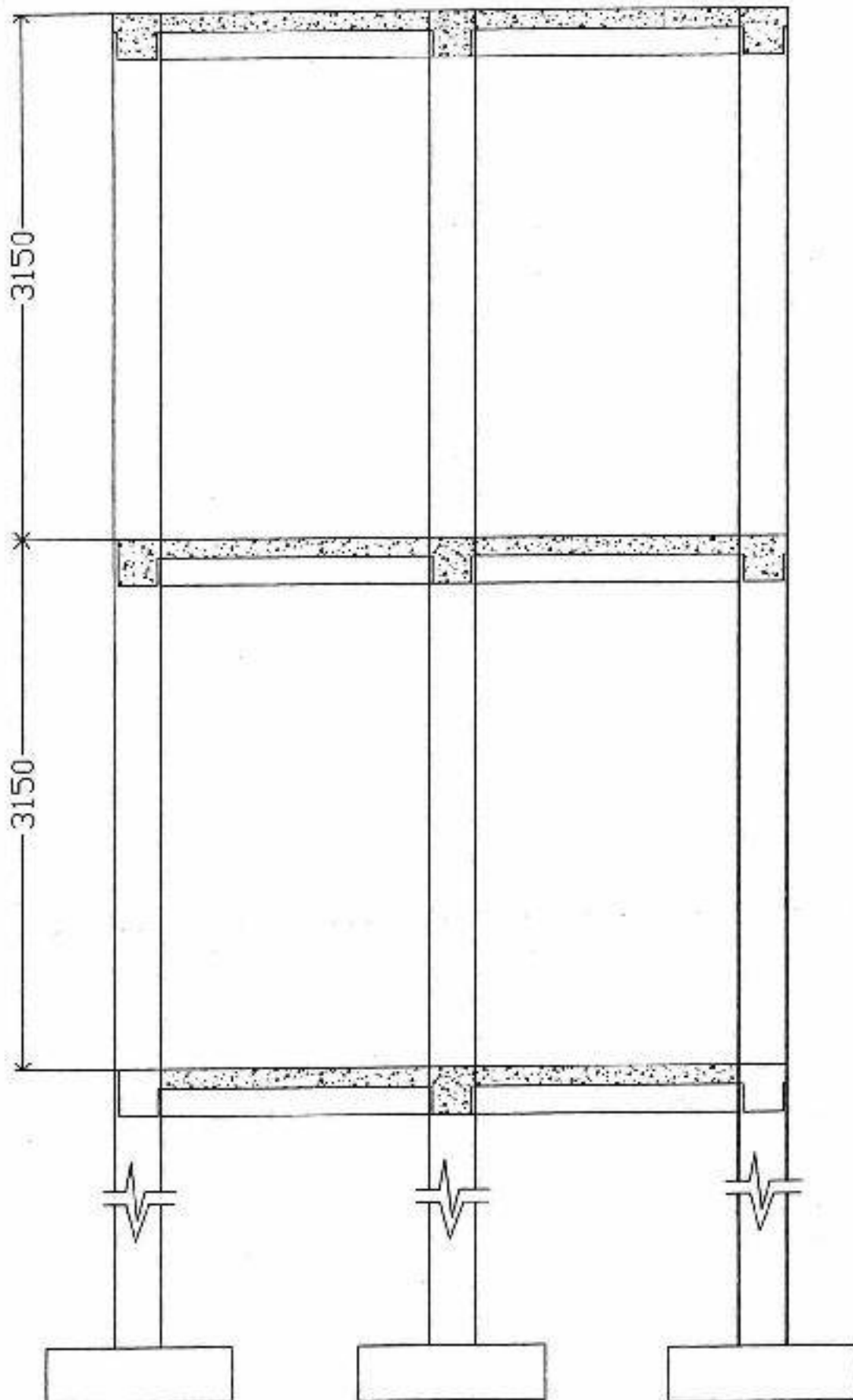
11/8.15	Providing and fixing 1st class local wood glazed shutters using 3mm thick plate sheet glass for doors, windows etc.....								
	② 30mm thick								
	Windows & Ventilations	28	1.85	0.90		sqm	41.58		
					Total =	sqm	41.58	2140.10	88,985.36
12/21.07	12mm cement plaster 1:4 (1 cement : 3 fine sand)								
	Qty. B.F from S. No. 7/8.08(b) (twice)	2	31.68			sqm	63.360		
	Qty. B.F from S. No. 8/8.08(b) (twice)	2	75.06			sqm	150.120		
	Main Column	7	3.15	1.40		sqm	30.870		
	Pirth beam	1	28.50	0.30		sqm	8.550		
	Roof beam	1	50.00	1.05		sqm	52.500		
		1	48.20	1.15		sqm	55.40		
	Ceiling	2	12.00	4.50		sqm	108.00		
					Total::	sqm	468.53	190.40	89,265.23
12/12.01	Cement concrete flooring 1:2:4 (1 cement: 2 sand: 4 well graded stone aggregate 20mm nominal size).....								
	(a) 40mm thick	1	12	4.50		sqm	54.00		
					Total	sqm	54.00	432.80	23,371.20
14/21.51	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.								
	(a) Ready mix pink/grey primer								
	Chaukhat for								
	Main door	4	1.20		0.30	sqm	1.440		
		8	2.10		0.30	sqm	5.040		
					Total::	sqm	6.48	45.00	291.60
15/21.82	Painting with synthetic enamel paint of approved brand and manufacture in all shade on new work (two or more coats).								
	a) General quality	Qty. BF from	14/21.61			sqm	6.48		
		Qty. BF from	13/9.37		(both sides)	sqm	20.16		
					Total:	sqm	26.64	81.50	2,171.16
16/21.51	Finishing walls with water proofing cement paint of approved brand and manufactured and of required shade on new work (three or more coats) to give an even shade.								
	(b) Premium exterior emulsion like weathercoat, weather shield etc.								
	Qty. BF from S.No.	12/21.07				sqm	468.53		
					Total::	sqm	468.53	93.00	43,601.19
17/21.60	Applying one coat of cement primer of approved brand and manufacture on wall								
	Qty. BF from S.No.	16/21.61				sqm	468.53	53.50	25,223.06
18/14.07	Providing and fixing M.S. Tower bolts (socket bolts) bright finished with necessary screws etc. complete.								
	(a) 300 mm					Nos	9.00	110.200	881.60
19/14.10	Providing and fixing M.S. handles with necessary screws, etc. complete								
	(d) 150mm						100.000	64.100	6,410.00
20/14.08	conforming IS: 7534....					No	2.000	34.30	68.60
								Sub-Total	1,777,851.79
	Add 7.5% for internal electrification								133,338.88
	Add 5% for Furniture								88,892.59
								Total	2,000,083.26
								Say,	2000000.00

(Rupees twenty lakh) only.

MIZO HSS



M120 HSS



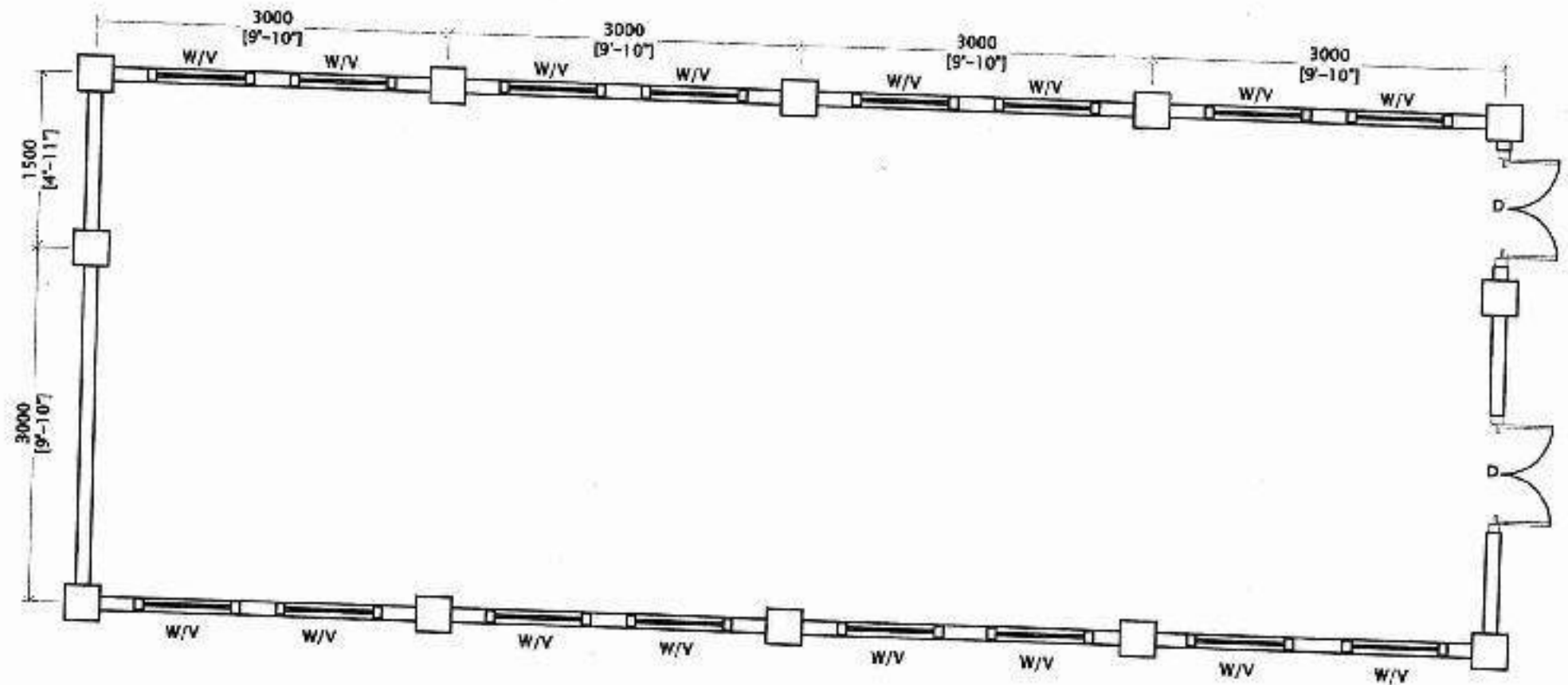
ESTIMATE FOR CONSTRUCTION OF ADDITIONAL CLASS ROOM AT GOVT. MIZO HSS

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/2.08	Earth work in excavation in foundation trenches...								
	(b) Hard Soil (Pick work)								
	Foundation for main column	9	1.30	1.30	1.50	cum	22.82		
					Total:	cum	22.82	327.20	7,455.07
2/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each deposited layer by ramming and watering and lead upto 60 m and lift upto 1.50 meters.								
	Qty. BF from S.No.	1/2.08					22.82		
	Deduct from earthwork								
	Main Column	9	0.35	0.35	1.05	cum	1.168		
	Footling	9	1.30	1.30	0.35	cum	-5.324		
	Column Foundation	9	1.30	1.30	0.10	cum	-1.521		
					Total:	cum	14.81	90.30	1,337.50
3/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth								
	(a) 1:3:6								
	Column Foundation	9	1.30	1.30	0.100	cum	1.521		
	Floor	1	12.00	4.500	0.100	cum	5.40		
	Side drain								
	Bottom	1	32.50	0.30	0.125	sqm	1.219		
	Side	2	32.50	0.20	0.125	sqm	1.625		
					Total	cum	9.765	5958.30	58,278.96
4/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
	(a) All work upto foundation & plinth level								
	Footling	9	1.30	1.30	0.35	cum	5.324		
	Main Column	9	0.35	0.35	1.45	cum	1.60		
					Total	cum	6.92	8847.30	61,242.12
	(b) All work above plinth level up to Floor V level								
	Main column	9	0.35	0.35	8.300	cum	6.948		
					Total	cum	6.948		
	Plinth Beam								
		2	10.50	0.25	0.40	cum	2.120		
		1	3.80	0.25	0.40	cum	0.380		
		3	4.15	0.25	0.40	cum	1.245		
	1ST Floor slab Beam	2	10.50	0.25	0.40	cum	2.120		
		1	3.80	0.25	0.40	cum	0.380		
		3	4.15	0.25	0.45	cum	1.401		
		1	11.65	0.25	0.45	cum	1.311		
	Roof Beam	2	10.50	0.25	0.40	cum	2.120		
		1	3.80	0.25	0.40	cum	0.380		
		3	4.15	0.25	0.45	cum	1.401		
		1	11.65	0.25	0.45	cum	1.311		
					Total	cum	14.168		
	Slab	2	12.00	4.50	0.125	cum	13.500		
					Total	cum	13.500		
					GT:	34.613	9393.30	325,132.64	

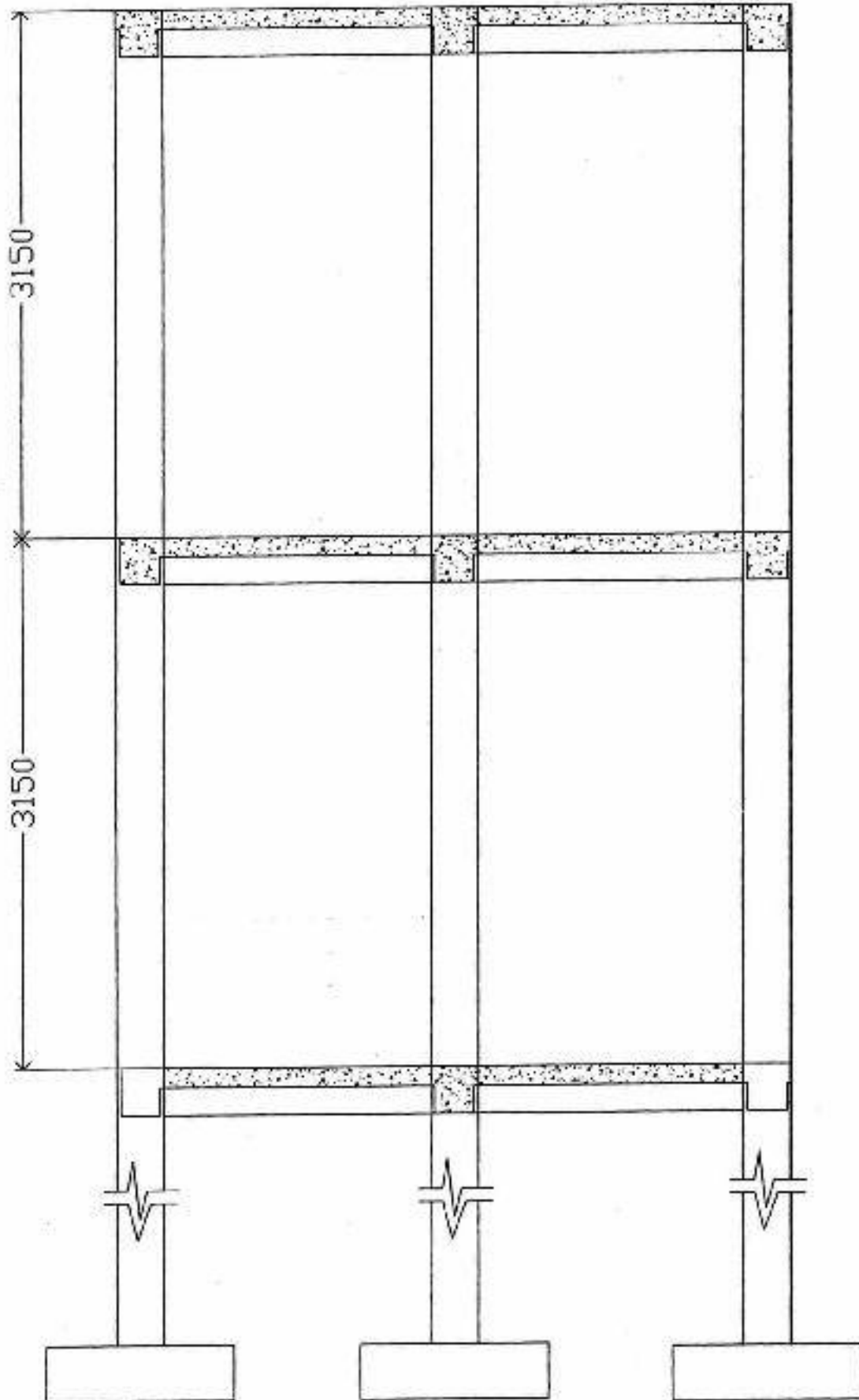
11/9.15	Providing and fixing 1st class local wood glazed shutters using 3mm thick plate sheet glass for doors, windows etc.								
	30mm thick								
	Windows & Ventilations	26	1.85	0.90		sqm	41.59		
					Total =	sqm	41.59	2140.10	88,885.35
12/21.07	12mm cement plaster 1 : 4 (1 cement : 3 fine sand).								
	Qty. B.F from S. No 7/8.05(b) (twice)	2	31.68			sqm	63.360		
	Qty. B.F from S. No 8/8.09(b) (twice)	2	75.06			sqm	150.120		
	Main Column	7	3.15	1.40		sqm	30.870		
	Plinth beam	1	28.50	0.30		sqm	8.550		
	Roof beam	1	50.00	1.05		sqm	52.500		
		1	48.20	1.15		sqm	55.43		
	Ceiling	2	12.00	4.50		sqm	108.00		
					Total::	sqm	468.83	190.40	80,265.23
13/12.01	Cement concrete flooring 1:2:4 (1 cement:2 sand:4 well graded stone aggregate 20mm nominal size)								
	(a) 40mm thick	1	12	4.50		sqm	54.00		
					Total	sqm	54.00	432.80	23,371.20
14/21.61	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.								
	(a) Ready mix pink grey primer.								
	Chaukhat for								
	Main door	4	1.20	0.30		sqm	1.440		
		8	2.10	0.30		sqm	5.040		
					Total::	sqm	8.48	45.00	291.00
15/21.92	Painting with synthetic enamel paint of approved brand and manufacture in all shade on new work (two or more coats)								
	a) General quality	Qty. BF from	14/21.61			sqm	5.48		
		Qty. BF from	16/9.37	(both sides)		sqm	20.16		
				Total		sqm	25.64	81.50	2,171.18
16/21.81	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade on new work (three or more coats) to give an even shade.								
	(b) Premium exterior emulsion like weathercole, weather shield etc.								
	Qty. BF from S.No.	12/21.07				sqm	468.83		
					Total::	sqm	468.83	93.00	43,601.19
17/21.60	Applying one coat of cement primer of approved brand and manufacture on wall								
	Qty. BF from S.No.	16/21.81				sqm	468.83	53.60	25,223.05
18/14.07	Providing and fixing M.S. Tower bolts (socket bolts) bright finished with necessary screws etc. complete.								
	(a) 300 mm					Nos	8.00	110.200	991.60
19/14.10	Providing and fixing M.S. handles with necessary screws, etc. complete								
	(d) 150mm						100.000	64.100	6,410.00
20/14.06	conforming IS:7534					No	2.000	34.30	68.60
								Sub-Total	1,777,851.79
	Add 7.5% for internal electrification								133,338.88
	Add 5% for Furniture								88,892.58
								Total	2,000,083.26
								Say,	2000000.00

(Rupees twenty lakh) only.

MIZO HSS



M120 HSS



ESTIMATE FOR CONSTRUCTION OF ADDITIONAL CLASSROOM AT MICE HSS, AIZAWL

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
	(b) All work above plinth level up to Floor V level								
	Column								
	C1	15	0.30	0.30	3.750	cum	5.06		
	C2	6	0.30	0.30	3.750	cum	2.03		
	Beam								
		2	12.40	0.25	0.35	cum	2.23		
		7	6.00	0.25	0.35	cum	3.78		
	Slab	1	8.50	6.00	0.130	cum	7.41		
		1	3.60	6.00	0.130	cum	2.81		
	Stairs	1	1.40	1.80	0.200	cum	0.50		
		2	1.30	1.80	0.200	cum	0.95		
	Landing	1	1.40	1.80	0.200	cum	0.53		
		1	1.10	2.70	0.200	cum	0.59		
						GT:	25.91	9395.30	243,394.38
2/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete								
	(f) Thermo-Mechanically Treated Bars								
	Column Quantity from	1/5.35	7.09	310	Kg/cum	kg	2197.125		
	Beam Quantity from	1/5.35	6.01	270	Kg/cum	kg	1623.240		
	Slab Quantity from	1/5.35	10.22	100	Kg/cum	kg	1021.800		
	Stairs (incl landing) Quantity from	1/5.35	2.55	120	Kg/cum	kg	310.512		
					Total:	kg	5152.677	83.70	431,279.06
3/5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in -								
	(c) Columns, sills, piers, abutments, posts and struts								
	Column								
	C1	15	1.20		3.75	sqm	57.500		
	C2	6	1.20		3.75	sqm	27.000		
					Total:	sqm	84.500	506.30	47,846.35
	(d) Untils, beams, plinth beams, girders, transoms and cantilevers, etc.								
	Beams	2	12.40		0.97	sqm	24.056		
		7	6.00		0.97	sqm	40.740		
					Total:	sqm	64.80	536.30	34,750.08
	(e) Suspended floors, roofs, landings, shelves and their support, balconies and chajja etc.								
	Slab	1	9.500		0.02	sqm	57.000		
		2	3.600		0.13	sqm	2.470		
		2	6.000		0.13	sqm	1.560		
	Slab	1	3.600		0.00	sqm	21.000		
		2	3.600		0.20	sqm	1.440		
		2	6.000		0.20	sqm	2.400		
	Landing	1	1.400		1.80	sqm	2.56		
		2	1.40		0.20	sqm	0.56		
		2	1.90		0.20	sqm	17.52		
	Landing	1	1.100		2.70	sqm	2.97		
		2	1.10		0.20	sqm	0.44		
		2	2.70		0.20	sqm	17.52		
					Total:	sqm	128.14	536.30	68,721.48
	(f) Staircases (except spiral staircase) excluding landings.								
		1	1.40		1.80	sqm	2.52		
		2	1.40		0.20	sqm	0.56		
		2	1.30		1.80	sqm	4.76		
		4	1.30		0.20	sqm	1.08		
					Total:	sqm	8.93	442.30	3,950.62
4/5.08	7.5 cm thick brick masonry with first class brick in superstructure above plinth level upto floor two level including curing, etc. complete								
	(b) In cement mortar 1 : 3 (1 cement : 3 fine sand)								
		4	4.50	3.15		sqm	56.700		
		2	9.50	3.15		sqm	59.850		
		2	3.60	3.15		sqm	22.980		
	Deduction								
	Main Door	2	1.20	2.10		sqm	-5.340		
	Single Door	1	0.90	1.80		sqm	-1.820		
	Windows	12	0.90	1.65		sqm	-17.820		
					Total:	sqm	114.750	858.10	75,287.49

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
5/9.06	Providing 1st class local wood dressed in frames of chakhat for doors, windows, clerestory windows fixed in position								
	Main door	2	1.20	0.100	0.10	cum	0.224		
		2	2.10	0.100	0.10	cum	0.242		
	Single Door	1	0.90	0.100	0.10	cum	0.009		
		1	1.66	0.100	0.10	cum	0.017		
						Total =	0.092	43690.30	3,994.82
8/9.37	Providing and fixing 30mm thick panelled door shutter comprising of styles and rails of seasoned								
	main door	2		1.20	2.10	sqm	5.04		
	Single door	1		0.90	1.60	sqm	1.62		
						Total =	6.66	5427.50	42,807.82
7/10.1	Providing and fixing prefabricated M.S. equal angle in chakhat for doors, windows and clerestory windows including fixing with 40 x 5mm M.S. bolt/ast 40cm long at required spacing and applying priming coat with approved steel primer etc. complete								
	(a) Using 50 x 50 x 5mm M.S. angle.								
	Window + Ventilation	12	2.70	4.95		m	160.38		
						Total =	160.38	698.40	102,366.55
8/10.0	Providing and fixing steel glazed doors, windows, ventilators of standard rolled steel sections, joints								
	(a) 3mm thick glass pane	12	1.85	0.90		sqm	17.82		
						Total =	17.82	3504.40	64,230.41
9/10.0	Providing and fixing M.S. Grills with 15mm flats M.S. of desired sections, fixed and welded in position in the pre-fabricated steel framed windows etc. including applying priming coat etc. complete.								
	(a) Using 3mm thick section.								
		12	1.85	0.90		sqm	17.82		
						Total =	17.82	1084.60	19,327.57
10/21.10	15mm cement plaster 1 : 3 (1 cement : 3 fine sand)								
	Qty. B.F from S. No.	4/5.08				sqm	114.750		
	both sides						229.500		
	Ceiling	1	9.50		6.00	sqm	57.000		
	Stairs	1	1.4		1.8	sqm	2.520		
	Stairs	2	1.3		1.8	sqm	4.765		
						Total::	293.81	242.20	71,160.30
11/21.01	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.								
	(a) Ready mix pink/grey primer.								
	Chakhat for								
	Main door	2	1.20		0.30	sqm	0.720		
		2	2.10		0.30	sqm	1.260		
	Door panel (both sides)	4	1.20		2.10	sqm	10.080		
	Door panel (both sides)	2	0.90		1.80	sqm	3.240		
						Total::	15.30	45.00	888.50
12/21.92	Painting with synthetic enamel paint of approved brand and manufacture in all shade on new work								
	a) General quality					m ²	15.30	81.50	1,246.95

Sl.No	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
13/21.81	Finishing walls with water proofing cement paint of approved brand and manufactured and of required shade on new work (three or more coats) to give an even shade.								
	(b) Premium exterior emulsion like weathercoat, weather shield etc.								
	Qty. BF from S.No.	10/21.10		293.81		m ²	293.81		
	Total					m ²	293.81	93.00	27,324.14
14/21.80	Applying one coat of cement primer of approved brand and manufacture on wall surface.								
	Qty. BF from S.No.	10/21.10				m ²	293.81		
	Total						293.81	53.80	15,806.87
15/14.07	Providing and fixing M.S. Tower bolts (socket bolts) bright finished with necessary screws etc. complete.								
	(a) 300 mm					Nos	5.00	110.200	681.20
16/14.10	Providing and fixing M.S. hand ex. with necessary screws, etc. complete.								
	(a) 150mm					Nos	6.00	73.200	439.20
17/10.09	Supplying and fixing MS decorative railing 80 cm high in staircase consisting of 25 mm aluminium square sections inserted into 20 mm dia MS bars @ 30 cm centres 60x60x4mm thick plate at the base fixed with wooden wedge by 1xV screws to receive the wooden handrails 12.5cmx10cm including coat of polishing 1st wooden rail								
	Step					Rm	5.900	1708.00	11,870.80
18/12.01	Cement concrete flooring 1:2:4 (1 cement : 2 sand : 4 well graded stone aggregate 20mm size) finished with a floating coat neat cement including cement slurry etc. complete but excluding the cost of nosing of steps etc.								
	For floor	1	9.50	6.00		m ²	57.00		
	For existing floor	1	9.50	6.00		m ²	57.00		
	Total					m ²	114.00	432.80	49,339.20
19/20.17	Applying double coated cement slurry with water proofing chemical (SUPER latex chemical) in proportion 1 : 4 : 7 (1 latex : 4 water : 7 cement) including cleaning the treated surfaces with brushes etc @ 0.158kg/sqm								
	For floor (Qty. bf from Item No.)	18/12.01				m ²	114.00		
	Total					m ²	114.00	148.50	15,928.00
	G.T.:								1,333,381.73

Add 7.5% for Internal Electrification as well as installations, complete

100,008.63

Add 5% for Furniture

66,660.00

G.T.:

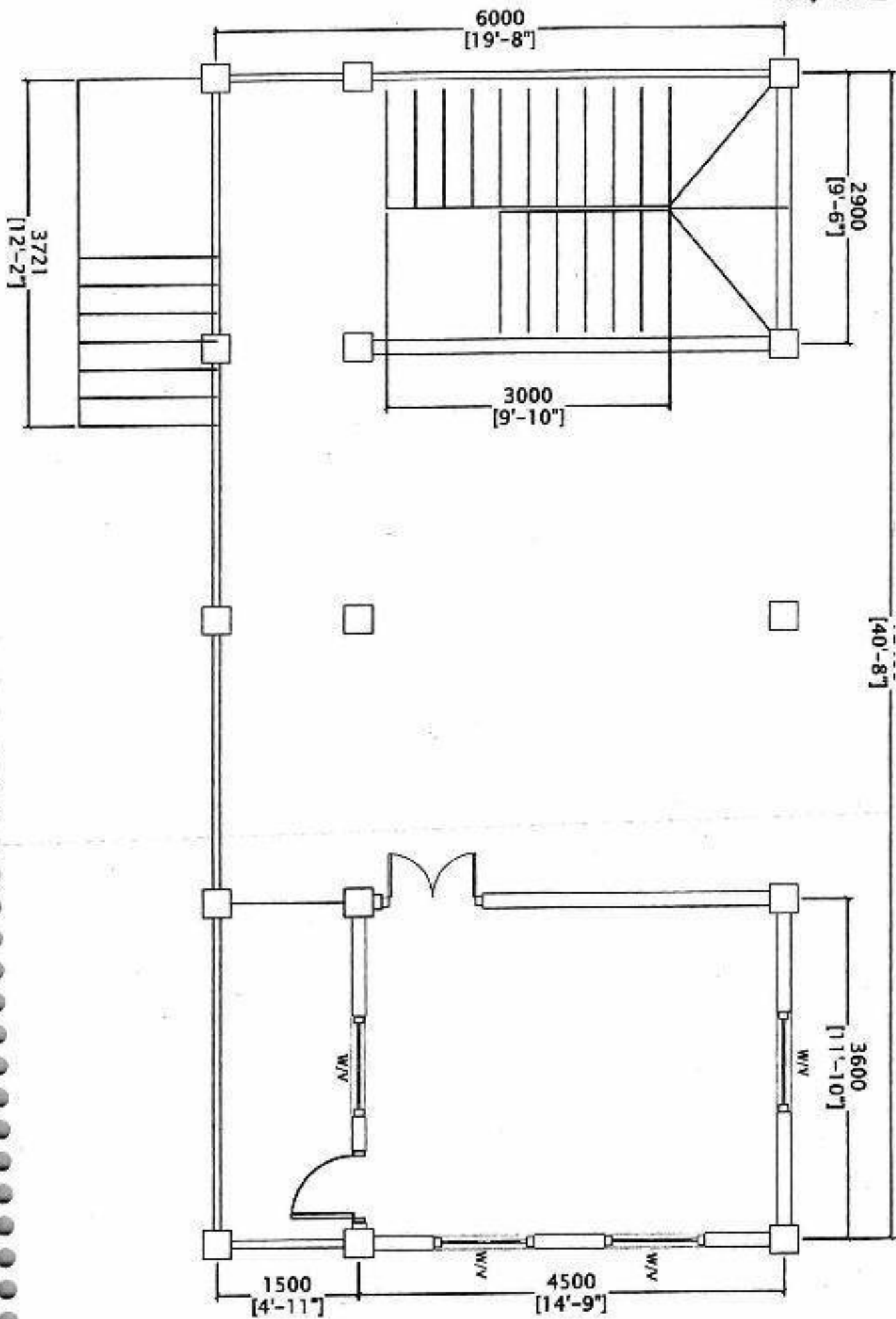
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say 1,500,000.00

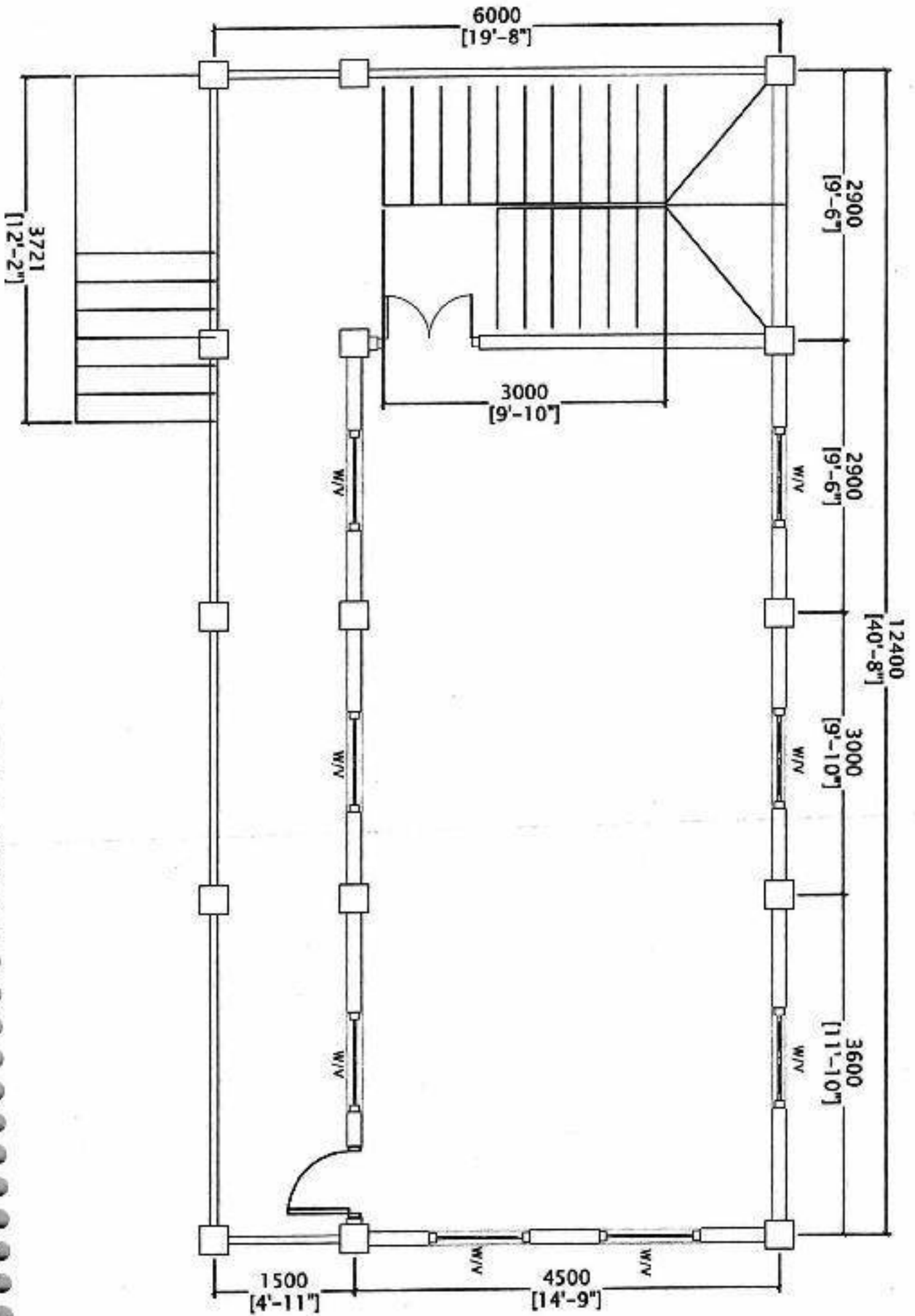
(Rupees fifteen lakh) only.

(AZARIA LALTINKIMA)
State Project Engineer
Mizoram RMSA

MICK 4SS



按 MICE HSS



ESTIMATE FOR CONSTRUCTION OF ADDITIONAL CLASS ROOM AT GOVT.REGION HSS, LAWNGTLAI

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/2.05	Earth work in excavation in foundation trenches...								
	(b) Hard Soil (Pick work)								
	Foundation for main column	9	1.20	1.20	1.50	cum	19.44		
	Foundation for verandah column	3	1.20	1.20	1.50	cum	6.48		
						Total:	25.92	327.20	8,481.02
2/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each deposited layer by ramming and watering and lead upto 50 m and lift upto 1.50 meters.								
	Qty. BF from S.No.	1/2.08					25.92		
	Deduct from earthwork								
	Main Column	9	0.30	0.30	1.05	cum	-0.851		
	Verandah column	3	0.25	0.25	1.05	cum	-0.197		
	Footing	12	1.20	1.20	0.30	cum	-5.184		
	Column Foundation	12	1.20	1.20	0.10	cum	-1.728		
	Filling for Verandah	1	7.00	1.00	0.50	cum	3.500		
						Total:	21.46	90.30	1,937.69
3/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth level ;								
	(a) 1: 3: 6								
	Column Foundation	12	1.20	1.20	0.100	cum	1.728		
	Verandah Floor	1	7.00	1.500	0.100	cum	1.05		
	Ramp up	2	1.00	1.20	0.100	cum	0.240		
	Side drain								
	Bottom	1	27.00	0.30	0.125	sqm	1.013		
	Side	2	27.00	0.20	0.125	sqm	1.350		
	Base for Retaining wall(Verandah port)	1	9.00	0.70	0.150	sqm	0.945		
						Total	6.326	5968.30	37,752.48
4/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and								
	(a) All work upto foundation & plinth level.								
	Footing	12	1.20	1.20	0.35	cum	6.048		
	Main Column	3	0.30	0.30	5.45	cum	1.47		
		3	0.30	0.30	4.15	cum	1.12		
		3	0.30	0.30	3.30	cum	0.89		
	Verandah column	3	0.25	0.25	2.45	cum	0.46		
						Total	9.99	8947.30	88,387.84
	(b) All work above plinth level up to Floor								
	Main column	8	0.30	0.30	3.150	cum	2.268		
	Verandah column	3	0.25	0.25	2.850	cum	0.534		
						Total	2.802		
	Tie Beam	1	6.40	0.25	0.40	cum	0.640		
	Plinth Beam/Slab beam								
		3	6.40	0.25	0.40	cum	1.920		
		1	6.50	0.25	0.40	cum	0.650		
		3	6.63	0.25	0.40	cum	1.989		
	Roof Beam	2	6.40	0.25	0.40	cum	1.280		
		1	6.50	0.25	0.40	cum	0.650		
		3	6.63	0.25	0.40	cum	1.989		
						Total	9.118		

	Slab	1	7.00	6.00	0.125	cum	5.250		
	Gutter:								
	Bottom	1	23.98	0.30	0.10	cum	0.719		
	Side	1	23.98	0.40	0.10	cum	0.959		
					Total	cum	6.929		
					GT::		18.849	9393.30	177.054.08
5/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete								
(f)	Thermo-Mechanically Treated Bars								
	Foundation	Qty. Bf from S.No.4/5.35(a)				cum	9.99		
		@ 100 Kg/cum				Kg	999.038		
	Column	Qty. Bf from S.No.4/5.35(b)				cum	2.802		
		@ 310 Kg/cum				Kg	858.735		
	Beam	Qty. Bf from S.No.4/5.35(b)				cum	9.118		
		@ 270 Kg/cum				Kg	2451.850		
	Slab & Gutter	Qty. Bf from S.No.4/5.35(b)				cum	6.929		
		@ 100 Kg/cum				Kg	692.860		
					GT	Kg	5022.494	83.70	420.382.73
6/5.11	Centering and shuttering including strutting, propping, etc. and removal of								
(c)	Columns, pillars, piers, abutments, posts and struts.								
	Column								
	300x300 mm column	1	60.00		1.20	sqm	72.000		
	250x250 mm column	1	10.95		1.00	sqm	10.950		
					Total:	sqm	82.950	508.30	41,997.59
(d)	Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc.								
	Beams.								
	250X400 mm beam	1	40.000		1.05	sqm	42.000		
					Total:	sqm	42.00	400.10	16,804.20
(e)	Suspended floors, roofs, landings, shelves and their support, balconies								
	Gutter	1	23.98		0.80	sqm	19.18		
	Slab	1	7.00		6.00	sqm	42.00		
					Total:	sqm	61.18	536.30	32,512.98
7/5.05	Half brick masonry with first class brick in superstructure above plinth level up to floor V level								
(b)	in cement mortar 1 : 4 (1 cement : 4 fine sand)								
	Skirting	1	23.60	0.80		sqm	14.160		
	Deduction								
	Main Door	2	0.60	1.20		sqm	-1.440		
					Total:	sqm	12.720	1032.90	13,138.49
8/5.09	7.5 cm thick brick masonry with first class brick in superstructure above plinth level upto floor two level including curing, etc.								
(b)	in cement mortar 1 : 4 (1 cement : 4 fine sand)								
	Wall above Skirting	1	23.60	2.15		sqm	50.740		
	Deduction								
	Window+Ventilation	11	1.65	0.90		sqm	-16.335		
	Main Door	2	1.50	1.20		sqm	-3.600		
					Total:	sqm	30.805	631.40	19,450.28

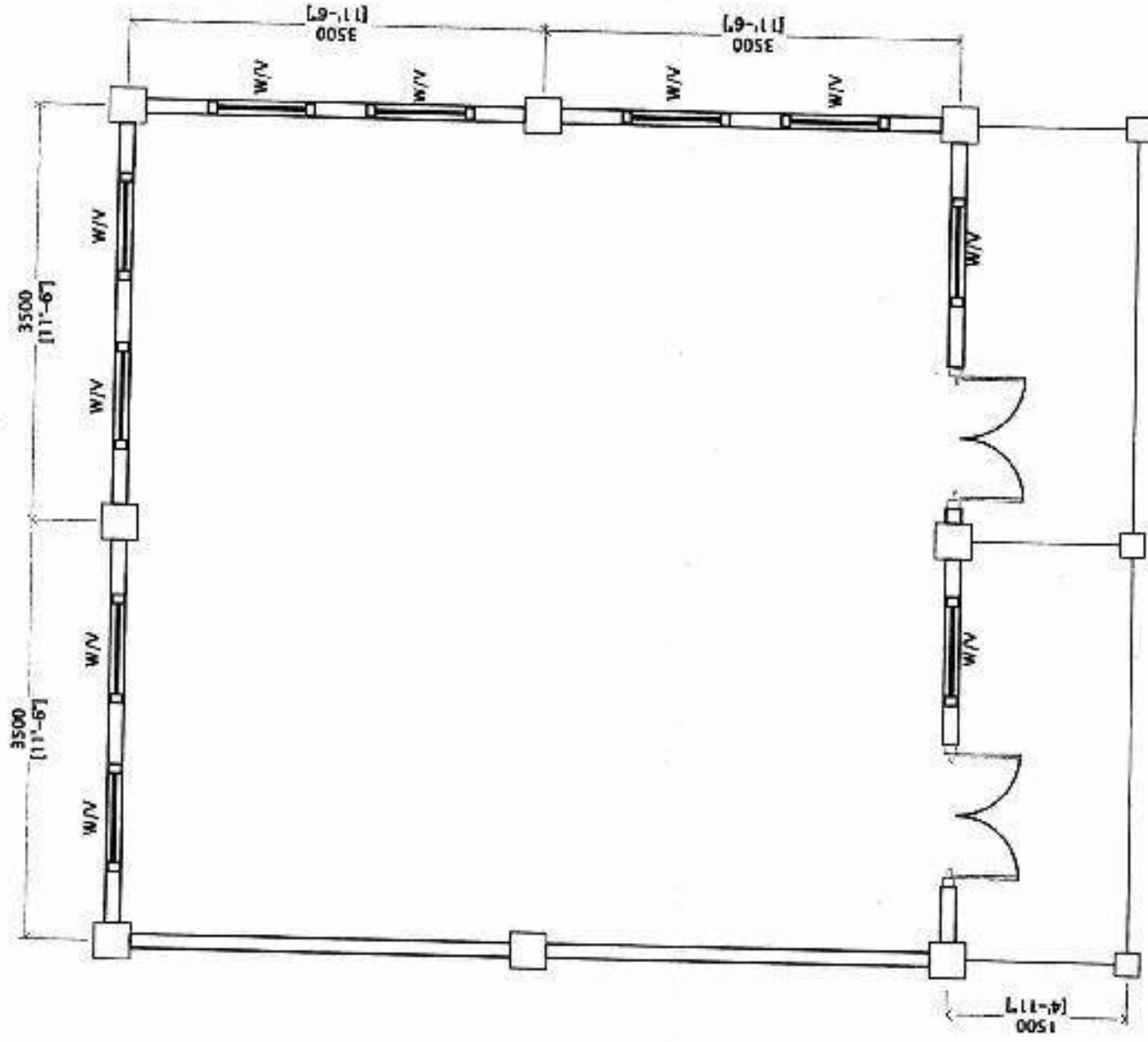
9/9.06	Providing 1st class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.								
	Main door	2	1.20	0.075	0.10	cum	0.018		
		4	2.10	0.075	0.10	cum	0.063		
	Windows & Ventilation	22	1.65	0.075	0.10	cum	0.272		
		33	0.90	0.075	0.10	cum	0.223		
						Total =	cum	0.578	43660.30
10/9.3	Providing and fixing 30mm thick panelled door shutter comprising of styles and rails of seasoned teak wood with panels of phenol formaldehyde synthetic resin bonded particle board 19mm thick with both sides teak ply veneering on both								25,148.33
7	main door	2		1.20	2.10	sqm	5.04		
						Total =	sqm	5.04	6427.60
11/9.1	Providing and fixing 1st class local wood glazed shutters using 3mm thick plate sheet glass for doors, windows etc.....								32,395.10
5	30mm thick								
	Windows & Ventilations	11	1.65	0.90		sqm	16.34		
						Total =	sqm	16.34	2140.10
12/21.07	12mm cement plaster 1 : 4 (1 cement : 3 fine sand).								34,858.53
	Qty. B.F from S. No. 7/6.06(b) (twice)	2	12.72			sqm	25.440		
	Qty. B.F from S. No. 8/6.09(b) (twice)	2	30.81			sqm	61.610		
	Main Column	8	3.15	1.20		sqm	30.240		
	Verandah Column	3	2.85	1.00		sqm	8.550		
	Plinth beam	1	30.20	0.40		sqm	12.080		
	Roof beam	1	42.18	1.30		sqm	54.834		
	Gutter	1	23.98	0.80		sqm	19.18		
						Total::	sqm	211.94	180.40
13/12.01	Cement concrete flooring 1:2:4(1cement:2 sand:4 well graded stone aggregate 20mm nominal size).....								40,353.00
	(a) 40mm thick	1	7	7.50		sqm	52.50		
						Total	sqm	52.50	432.80
14/21.6	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.								22,722.00
	(a) Ready mix pink/grey primer.								
	Chaukat for								
	Main door	2	1.20		0.30	sqm	0.720		
		4	2.10		0.30	sqm	2.520		
						Total::	sqm	3.24	45.00
15/21.92	Painting with synthetic enamel paint of approved brand and manufacture in all shade on new work (two or more coats).								145.80
	a) General quality	Qty. BF from	14/21.61			sqm	3.24		
		Qty. BF from	10/9.37		(both sides)	sqm	10.08		
					Total	sqm	13.32	81.50	1,085.58
16/21.81	Finishing walls with water proofing cement paint of approved brand and manufactured and of required shade on new work (three or more coats) to								
	(b) Premium exterior emulsion like weathercote, weather shield etc.								
	Qty. BF from S/No.	12/21.07				sqm	211.94		
	Qty. BF from S/No.	23/15.07				sqm	52.50		
						Total::	sqm	264.44	93.00
									24,592.73

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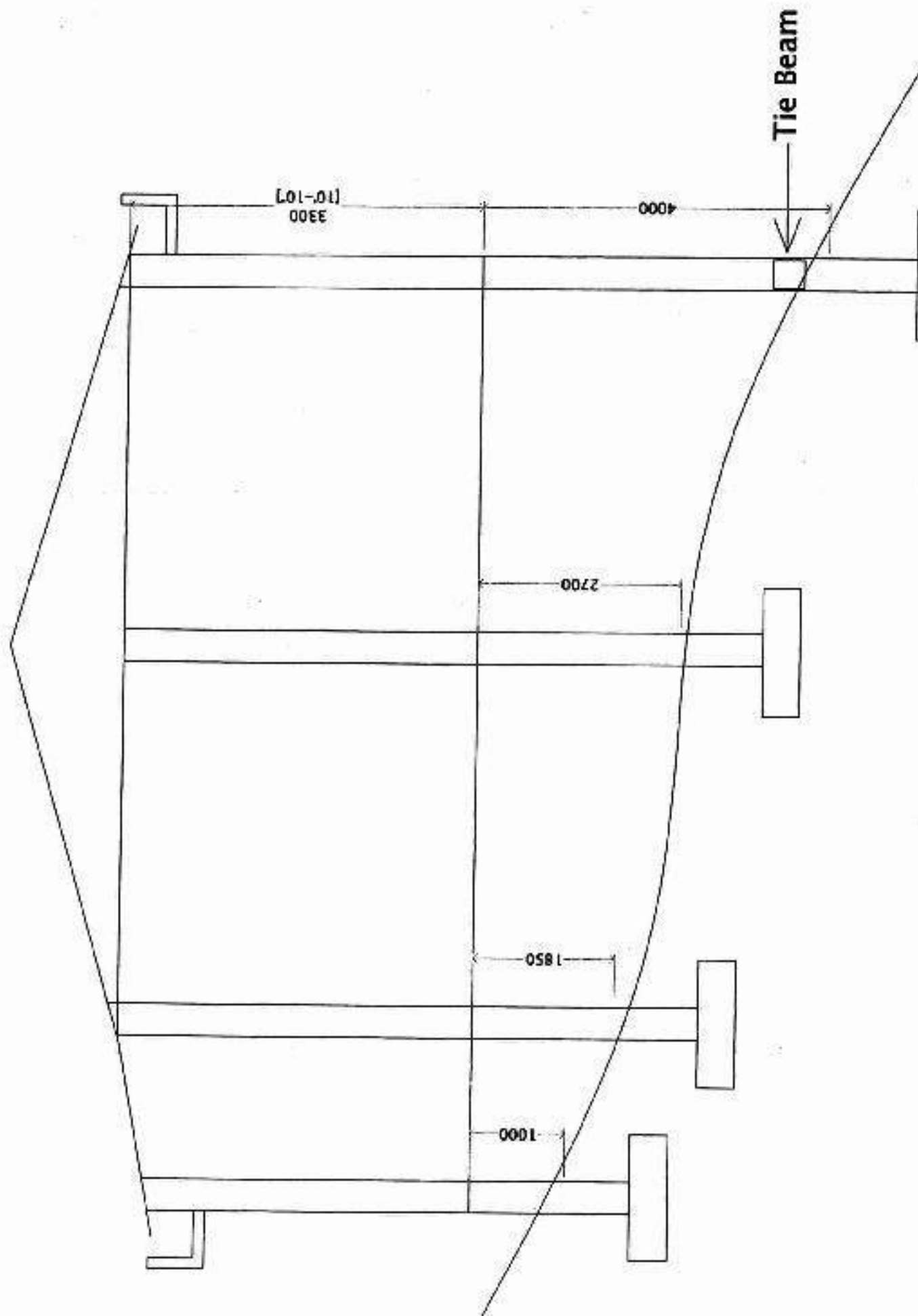
25/7.01	Regular coursed rubble masonry with hard stone in foundation upto one storey above and below ground level including curing etc. complete								
	② sand)	1	9	0.6	1.2	cum	8.480		
					Total	cum	6.480	4422.80	28,659.74
	Add 7.5% for internal electrification							Sub-Total	1,263,920.66
	Add 5% for Furniture								94,794.05
									63,196.03
								Total	1,421,910.74
	Add 5.5% of C.I for Lawngtlai District								78,205.09
								Grant Total	1,500,115.83
								Say,	1500000.00

(Rupees fifteen lakh) only.

REGION HSS



Region



ANNEXURE - IV

ESTIMATE FOR CONSTRUCTION OF TOILET BLOCK

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
2/2.08	Earth work in excavation in foundation trenches...								
	(b) Hard Soil (Pick work)								
	Column Foundations								
	Main Column	8	1.20	1.20	1.50	cum	17.28		
					Total:	cum	17.28	327.20	5,654.02
3/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each deposited layer by ramming and watering and lead upto 50 m and lift upto 1.50 meters.								
	Qty. BF from S. No.	2/2.08					17.28		
	Deduct from earthwork								
	Main Column	8	0.20	0.20	1.05	cum	-0.336		
	Footing								
	Main Column Footing	8	1.20	1.20	0.35	cum	-4.032		
	Column Foundation								
		8	1.20	1.20	0.10	cum	-1.152		
					Total:	cum	11.78	90.30	1,061.93
4/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth level :								
	(a) 1:3:6								
	Main Column Foundation	8	1.20	1.20	0.10	cum	1.152		
					Total	cum	1.152	5968.30	6,875.48
5/5.28	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
	(a) All work upto foundation & plinth level.								
	Footing								
	Main Footing	8	1.20	1.20	0.350	cum	4.03		
					Sub-Total	cum	4.03		
	Main Column	8	0.20	0.20	1.053	cum	0.34		
					Sub-Total	cum	0.34		
					Total	cum	4.37	3847.30	38,645.01
	(b) All work above plinth level up to Floor V level								
	Ground Floor								
	Main Column	8	0.20	0.20	3.300	cum	1.06		
					Sub Total	cum	1.06		
	Tie Beam								
		2	11.500	0.180	0.300	cum	1.24		
		4	2.100	0.180	0.300	cum	0.45		
	Roof Beam								
		2	11.500	0.180	0.300	cum	1.24		
		4	2.100	0.180	0.300	cum	0.45		
	Lintel Beam								
		2	11.500	0.125	0.125	cum	0.36		
		2	2.100	0.125	0.125	cum	0.07		
					Sub Total	cum	3.82		
	Slab	2.000	11.500	2.100	0.150	cum	7.25		
					Sub Total	cum	7.25		
					GT::		15.43	9393.30	144,931.10
5/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete								
	(f) Thermo-Mechanically Treated Bars								
	Foundation	Quantity from 5/5	4.03	100Kg/m	kg		403.2		

	Column	Quantity from 5/5	1.39	310Kg/m	kg	431.52		
	Beam	Quantity from 5/5.3	3.82	270Kg/m	kg	1030.374		
	Slab + Gutter+Chajjas + Step	Quantity from 5/5	7.25	100Kg/m	kg	724.5		
				Total::	kg	2586.594	83.70	216,749.02
7/5.11	Centering and shuttering including strutting, propping, etc. and removal of							
	c) Columns, pillars, piers, abutments, posts and struts.							
	200x200mm column	8	0.80	3.30	sqm	21.120		
				Total	sqm	21.120	506.30	10,993.06
	d) Lintels, beams, plinth beams, girders, breassumers and cantilevers, etc.							
	Beams.							
	180X300 mm beam	2	11.5	0.78	sqm	17.940		
	180X300 mm beam	2	2.1	0.78	sqm	3.276		
				Total:	sqm	21.22	400.10	8,488.52
	e) Suspended floors, roofs, landings, shelves and their support, balconies							
	Slab							
	G.F	1	11.50	2.10	sqm	24.15		
				Total:	sqm	24.15	536.30	12,951.65
8/5.28	7.5cm thick brick masonry with first class brick in super structure above plinth level upto floor two level including curing etc.							
	(b) In cement mortar 1:4(1 cement: 4 coarse sand)							
		4	3.80	3.00	sqm	45.800		
		1	3.30	3.00	sqm	9.900		
		7	1.90	3.00	sqm	39.900		
		2	1.20	3.00	sqm	7.200		
	Deduction							
	Single Ventilation	8	0.90	0.45	sqm	-3.240		
	Toilet Door	5	2.10	0.90	sqm	-9.450		
				Total:	sqm	89.910	831.40	56,769.17
10/9.05	Providing list class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.							
	Toilet Door	10	0.90	0.075	cum	0.068		
		10	2.10	0.075	cum	0.158		
				Total =	cum	0.225	43860.30	9,823.57
11/9.37	Providing and fixing 30mm thick panelled door shutter comprising of styles and rails of seasoned teak wood with panels of phenol formaldehyde synthetic resin bonded particle board 19mm thick with both sides teak ply veneering on both							
	Toilet Door	5	0.90	2.10	sqm	9.45		
				Total =	sqm	9.45	6427.60	50,740.82
12/10.11	Providing and fixing prefabricated M.S. equal angle in chaukat for doors, windows and clerestory windows including fixing with 40 x 5mm M.S. holdfast 40cm long at required spacing and applying priming coat with approved steel primer							
	(b) Using 50 x 50 x 6mm M.S. angle							
	Single Ventilation	8	2.70		rm	21.60		
				Total =	rm	21.60	708.60	15,305.76

13/10.05	Providing and fixing steel glazed doors, windows, ventilators of standard rolled steel sections, joints, mitered and welded with 15x3mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm size of 1:3:6 (1 cement : 3 coarse sand : 6 stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of glass panes with glazing clips and special metal sash putty of approved make complete including applying a priming coat of approved steel primer excluding the cost of metal beading								
	(b) 4mm thick glass pane	8	0.45	0.90		sqm	3.24		
					Total =	sqm	3.24	3738.20	12,111.77
14/21.07	12mm cement plaster 1 : 4 (1 cement : 3 fine sand).								
	Qty. B.F from S. No. 8/6.05 (twice)					sqm	179.820		
	Column								
	Main Column	8	3.30	1.00		sqm	26.400		
	180x300 mm beam	2	11.50	0.78		sqm	17.940		
		4	2.10	0.78		sqm	8.552		
	GF	1	11.50	2.10		sqm	24.150		
	Ceiling	1	11.50	2.10		sqm	24.150		
				Total::		sqm	99.19	190.40	18,686.16
15/21.61	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.								
	(a) Ready mix pink/grey primer.								
	Chaukhat for								
	Toilet Door	10	0.90		0.30	sqm	2.700		
		10	2.10		0.30	sqm	6.300		
	Qty. BF from S/No.	11/9.37	2.00	9.45		m ²	18.900		
	Qty. BF from S/No.	12/10.11	2.00	21.60		m ²	43.200		
				Total::		m ²	71.10	45.00	3,199.50
16/21.92	Painting with synthetic enamel paint of approved brand and manufacture in all shade on new work (two or more coats).								
	a) General quality	Qty. BF from S/Nk 15/21.61				m ²	71.10	81.50	5,794.65
17/21.60	Applying one coat of cement primer of approved brand and manufacture on wall								
	Qty. BF from S/No.	14/21.07				m ²	99.19		
	Total						99.19	53.80	5,336.53
18/14.08	Providing and fixing M.S. pull bolts lock conforming with IS : 7534 bright finished with necessary screws etc.					Nos	10.00	34.30	343.00
19/14.07	Providing and fixing M.S. Tower bolts (socket bolts) bright finished with necessary screws etc. complete.								
	(a) 300 mm					Nos	4.00	110.200	440.80
	(d) 150 mm					Nos	1.00	64.100	64.10
20/14.10	Providing and fixing M.S. handles with necessary screws, etc. complete								
	(a) 150mm					Nos	10.00	73.200	732.00
25/7.08	Coursed masonry with rectangular sized hard stone in foundation up to one storey above and below ground level including curing, etc. complete.								
	(b) in cement mortar 1 : 4 (1 cement : 6 fine sand)								
	Plinth protection	1	11.50	0.46	0.3	cum	1.553		

		1	2.10	0.45	0.3	cum	0.284		
					Total:	cum	1.553	6473.70	10,050.42
27/18.02	Providing and fixing on terrace (at all floor levels) Polyethylene storage tank of approved brand and manufacture with cover and mosquito proof coupling and suitable locking arrangement and making necessary connections for inlet, outlet and overflow pipes but without the cost for	2			2000	lit	4000.00	12.00	48,000.00
28/17.52	Providing and fixing SWRPVC bend with access door of required degree including jointing with rubber lubricant/cement solvent complete.								
	(a) 110mm dia SWRPVC bend with access door.	7				No	7.00	197.00	1,379.00
30/17.49	Providing and fixing on wall face SWRPVC soil, waste and vent pipes including jointing with rubber lubricant/cement solvent complete.								
	(a) 110mm dia.					Rm	60.000	383.80	23,028.00
31/17.53	Providing and fixing single equal SWRPVC plain junction of required degree (7-								
	(a) 110x110x110mm.					No	6.000	197.00	1,182.00
32/17.21	Providing and fixing vitreous china Urinal corner 44 x 26.5 x 31.5cm size of Parryware/ Hindware/ Cera and equivalent make with flush valve/spray with C.I or R.S brackets standard size of G.I flush pipe and C.P brass spreaders with brass unions and G.I clamps complete including								
	(i) white					each	4.000	6864.00	27,458.00
33/17.01	Providing and fixing water closet squatting pan (Indian type w.c pan) with 100mm sand cast iron P or S trap.								
	(a) White vitreous china Indian pattern w.c pan of size 510x305mm with integral type foot rests.					No	2.000	4187.60	9,375.80
35/21.08	emulsion of required shade on new works (three or more coats) to give an even shade.								
	(a) Regular exterior emulsion like super cote, walmasta etc.								
	Qty BF from S.No	15/21.51				sqm	99.192	352.69	34,984.03
39/21.94	Wall painting with interior emulsion paint of approved brand and manufacture on new works (two or more coats).								
	(a) General quality								
	Qty BF from S.No	15/21.61				sqm	99.192		
					Total	sqm	99.192	52.10	5,167.90
7/18.03	Providing and fixing G.I. pipes complete with G.I. fitting and clamps, including cutting and making good the walls etc.								
	(a) 15mm dia nominal bore					Rm	46.000	260.10	11,984.80
33/18.00	Providing and fixing brass stop cock of approved quality.								
	(a) 15mm nominal bore					No.	10.000	493.00	4,930.00
18.12	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work).								
	(a) 15 mm nominal bore					No.	15.000	174.30	2,622.00
10/17.27	Providing and fixing wash basin with C.I brackets, 15mm CP brass pillar taps, 32 mm CP brass waste of standard pattern including making good the walls wherever required.								

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	Short walls	2	0.9	1		m ²	1.8		
					Total	m ²	5.28	858.10	4,120.31
7/6.08	Honey-comb of half brick masonry with first class brick in foundation up to one storey above and below ground level including curing, etc. complete								
	a) In cement mortar 1:3 (1 cement : 3 fine sand)								
	Soak Pit :								
	Long Walls	2	1.04	1		m ²	2.08		
	Short walls	2	0.9	1		m ²	1.8		
					Total::	m ²	3.68	957.20	3,622.50
								Total	860,415.32

G.T:

Adding 7.5% Electrification;

G.Total

Say:

Rs:

Rs:

Rs:

860,415.32

64,531.15

924,946.47

924,900.00

(Rupees nine lakh twenty four thousand nine hundred) only.

ESTIMATE FOR CONSTRUCTION OF MAIN GATE

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/2.08	Earth work in excavation in foundation trenches...								
	(b) Hard Soil (Pick work)								
	Column Foundations								
	Main Column	2	1.20	1.20	1.40	cum	4.03		
					Total:	cum	4.03	327.20	1,319.27
2/2.15	Filling available excavated earth (excluding rock) in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each deposited layer by ramming and watering and lead upto 50 m and lift upto 1.50 meters.								
	Qty. BF from S.No.	1/2.08					4.03		
	Deduct from earthwork								
	Main Column	2	0.20	0.20	1.05	cum	-0.084		
	Footings								
	Main Column Footing	2	1.20	1.20	0.35	cum	-1.008		
	Column Foundation								
		2	1.20	1.20	0.10	cum	-0.288		
					Total:	cum	2.55	90.30	239.48
3/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth level :								
	(a) 1 : 3 : 6								
	Main Column Foundation	2	1.20	1.20	0.10	cum	0.288		
		2	2.50	0.30	0.10	cum	0.150		
					Total	cum	0.438	5958.30	2,614.12
4/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
	(a) All work upto foundation & plinth level.								
	Footings								
	Main Footing	2	1.20	1.20	0.350	cum	1.01		
					Sub-Total	cum	1.01		
	Main Column	2	0.20	0.20	1.050	cum	0.08		
					Sub-Total	cum	0.08		
					Total	cum	1.09	8847.30	9,861.25
	(b) All work above plinth level up to Floor V level								
	Ground Floor								
	Main Column	2	0.20	0.20	2.500	cum	0.20		
					Sub Total	cum	0.20		
	Beam	2	2.000	0.180	0.300	cum	0.22		
					GT::		0.22	9393.30	2,028.95
5/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete								
	(f) Thermo-Mechanically Treated Bars								
	Foundation	Quantity from 4/5.35=	1.01	100Kg/m	kg	100.8			
	Column	Quantity from 4/5.35=	0.28	310Kg/m	kg	88.04			
	Beam	Quantity from 4/5.35=	0.22	270Kg/m	kg	58.320			
				Total::	kg	247.160	83.70	20,687.29	
6/5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in -								
	(c) Columns, pillars, piers, abutments, posts and struts.								
	230x200mm column	2	0.80	2.50		sqm	4.000		
					Total:	sqm	4.000	506.30	2,025.20
	(d) Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc.								
	Beams.								
	180X300 mm beam	2	2		0.78	sqm	3.120		
					Total:	sqm	3.12	400.10	1,248.31

7/10/04	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rails of T iron 40x40x6mm with 40mm dia. steel pulleys complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.								
		1	2.00		2.50	sqm	5.00	5791.70	28,958.50
8/21.0	12mm cement plaster 1 : 4								
7	(1 cement : 3 fine sand).								
	Column								
	Main Column	2	2.50	0.80		sqm	4.000		
	180x300 mm beam	2	2.00	0.78		sqm	3.120		
	Masonry Wall	4	2		2.5	m ²	20.00		
					Total::	sqm	27.12	190.40	5,163.68
9/21.6	Applying one coat of cement primer of approved brand and manufacture on wall surface.								
0									
	Qty. BF from S.No.	8/21.07				m ²	27.12		
	Masonry Wall	4	2		2.5	m ²	20.00		
	Total					m ²	47.12	53.80	2,535.08
10/7.0	Coursed masonry with rectangular sized hard stone in foundation up to one storey above and below ground level including curing, etc. complete.								
8									
	(b) in cement mortar 1 : 4 (1cement : 6 fine sand)								
		2	2.00	0.30	2.5	cum	3.000		
					Total	cum	3.000	6473.70	19,421.10
11/21.08	Finishing walls with regular exterior emulsion of required shade on new works(three or more coats) to give an even shade.								
	(a) Regular exterior emulsion like super oole, walmasta etc.								
	Qty BF from S.No	9/21.60				sqm	47.120	352.69	18,818.75
								Total	112,520.93
						say		Rs:	112,500.00

(Rupees one lakh twelve thousand five hundred) only.

ESTIMATE FOR CONSTRUCTION OF FENCING

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/2.08	Earth work in excavation in foundation trenches...								
	(b) Hard Soil (Pick work)								
	Column Foundations								
	Main Column	5	1.20	1.20	1.50	cum	10.80		
	Infill Wall Excavation	5	3.60	0.45	1.50	cum	12.15		
					Total:	cum	22.95	327.20	7,509.24
3/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each deposited layer by ramming and watering and lead upto 50 m and lift upto 1.50 meters.								
	Qty. BF from S.No.	1/2.08					10.80		
	Deduct from earthwork								
	Main Column	5	0.20	0.20	1.05	cum	-0.210		
	Footling								
	Main Column Footing	5	1.20	1.20	0.35	cum	-2.520		
	Column Foundation	5	1.20	1.20	0.10	cum	-0.720		
					Total:	cum	7.35	90.30	663.71
3/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth level :								
	(a) 1: 3: 6								
	Main Column Foundation	5	1.20	1.20	0.10	cum	0.720		
	Infill Wall PCC	5	3.60	0.45	0.10	cum	0.810		
					Total:	cum	1.530	5968.30	9,131.50
4/5.25	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
	(a) All work upto foundation & plinth level								
	Footling								
	Main Footling	5	1.20	1.20	0.350	cum	2.52		
					Sub-Total	cum	2.52		
	Main Column	5	0.20	0.20	1.050	cum	0.21		
					Sub-Total	cum	0.21		
					Total	cum	2.73	8847.30	24,153.13
	(b) All work above plinth level up to Floor V level								
	Ground Floor								
	Main Column	5	0.20	0.20	2.100	cum	0.42		
					Sub Total	cum	0.42		
	Beam	2	14.500	0.180	0.300	cum	1.57		
					GT::		1.57	9393.30	14,709.91
5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete								
	(f) Thermo-Mechanically Treated Bars								
	Foundation	Quantity from 5/5.35	2.52	100Kg/m	kg	252			
	Column	Quantity from 5/5.35	0.63	310Kg/m	kg	195.3			
	Beam	Quantity from 5/5.35	1.57	270Kg/m	kg	422.820			
					Total::	kg	870.120	83.70	72,829.04
11	Centering and shuttering including strutting, propping, etc. and removal of form works in								
	(c) Columns, pillars, piers, abutments, posts and struts.								
	200x200mm column	5	0.80	3.30	sqm	13.200			

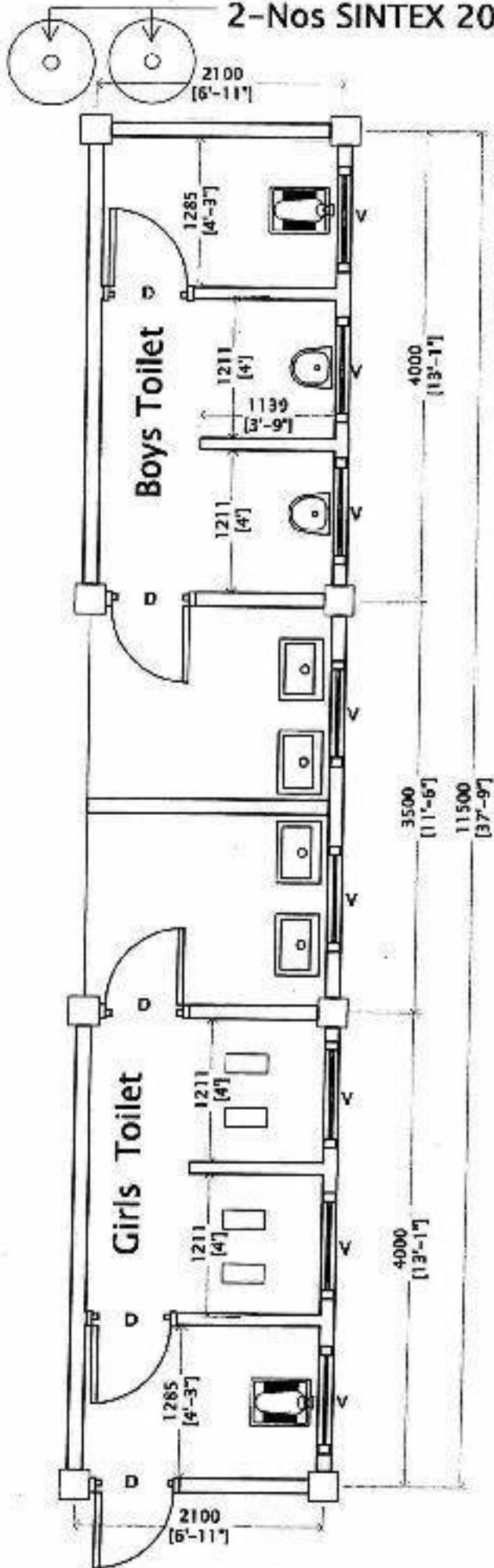
					Total:	sqm	13.200	506.30	6,693.16
d)	Lintel beams, plinth beams, girders, brusses and cantilevers, etc.								
	Beams.								
	180x300 mm beam	2	14.5	0.75	sqm	22.620			
					Total:	sqm	22.62	400.10	9,050.28
7/6.09	7.5cm thick brick masonry with first class brick in super structure above plinth level upto floor two level including curing etc.								
	(b) In cement mortar 1:4 (1 cement: 4 coarse sand)	4	1.80	3.43	sqm	24.660			
					Total:	sqm	24.660	631.40	15,570.32
8/21.0	12mm cement plaster 1:4								
7	(1 cement: 3 fine sand).								
	Qty. B.F from S. No. 7/6.09 (twice)				sqm	49.320			
	Column								
	Main Column	5	2.10	1.00	sqm	10.500			
	180x300 mm beam	2	14.50	0.96	sqm	27.840			
	Qty taken from 13/6.06				sqm	100.980			
					Total:	sqm	188.64	190.40	35,917.06
9/21.6	Applying one coat of cement primer of approved brand and manufacture on wall								
0									
	Qty. BF from S.No.	8/21.07			m ²	188.64			
	Total					188.64	53.80	10,149.83	
10/7.0	Coursed masonry with rectangular sized hard stone in foundation up to one storey above and below ground level including curing, etc. complete.								
8									
	(b) In cement mortar 1:4 (1 cement: 5 fine sand)								
	Plinth protection	1	14.50	0.45	0.3	cum	1.958		
	Plinth protection for infill wall	5	3.80	1.20	0.45	cum	9.720		
					Total:	cum	11.678	6473.70	75,596.63
1/21.00	Emulsion of required shade on new works (three or more coats) to give an even shade.								
	(a) Regular exterior emulsion like super cote, walmasta etc.								
	Qty BF from S.No	8/21.07			sqm	188.640	352.69	56,531.44	
1/21.94	Wall painting with interior emulsion paint of approved brand and manufacture on new works (two or more coats).								
	(a) General quality								
	Qty BF from S.No	8/21.07			sqm	138.640			
					Total	sqm	138.640	52.10	9,828.14
13/6.06	Half brick masonry with first class brick in superstructure above plinth level up to floor V level								
	Infill wall	5	3.6	3.69	sqm	66.420			
	Infill wall	3	3.6	3.2	sqm	34.560			
					Total	sqm	100.980	1032.90	104,302.24
							Total	462,624.62	

Say:Rs - 462,600.00

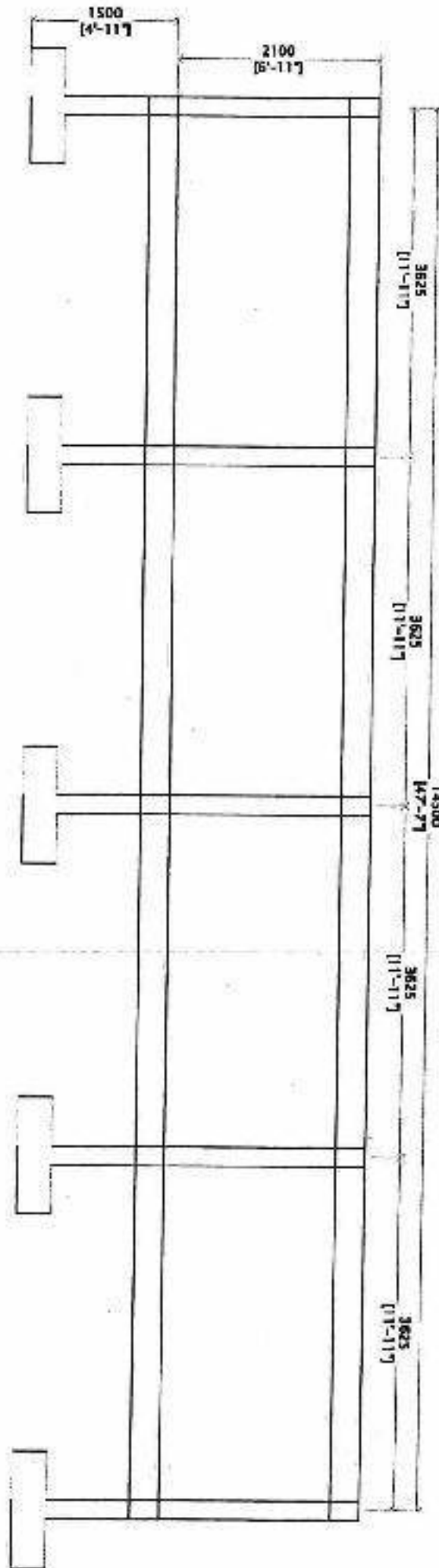
(Rupees four lakh sixty two thousand six hundred) only

collapse very P.S.

2-Nos SINTEX 2000 Ltr



College Way B.S.



DETAILED ESTIMATE FOR RECONSTRUCTION OF CHANMARI PRIMARY

SCHOOL

(Based on PWD SOR 2013)

Item No.	Particulars of items and details of works	No.	L	B	H/D	Qty.	Unit	Rate	Amount
1/2.06	Earthwork in excavation over areas (exceeding 30cm in depth, 1.5m in width as well as 10sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.	1	16.60	2	2	66.4	cum	284.30	18,877.52
2/2.08	Earthwork in excavation at foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling and compaction in 15cm layers as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.								
	(b) Hard Soil (pick work)	30	1.2	1.2	1.5	64.8			
	Foundation F ₁	12	0.9	0.9	1.2	11.664			
	Foundation F ₂	1	2	1.2	1.5	3.6			
	Septic Tank	1	1	1.2	1.2	1.2			
	Soak pit	1				81.264	cum	327.20	26,589.58
3/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5								
	2/3 of qty taken from 1/2.08	1	10.00	1.20	0.5	54.18			
	Ramps	1	10.00			6.00			
	Filling for floor	1	10.00	6.20	0.45	27.90	cum	90.30	7,853.26
4/4.01	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level.								
	(a) 1:1.5:3 (1 cement : 1.5 course sand : 3 stone aggregate 20mm nominal size)	1	16.00	6.50	0.08	8.32	cum	#####	63,450.82
5/4.05	Providing and laying cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level.								
	1:5:10 (1 cement 5 course sand: 10 stone aggregate 40mm nominal size)	30	1.2	1.2	0.1	4.32			
	Foundation F ₁	12	0.9	0.9	0.1	0.972			
	Foundation F ₂	1	2	1.2	0.1	0.24			
	Base of Septic Tank	1				0.1			
	Base of Soak Pit	1				5.63	cum	#####	27,057.96

Item No.	Particulars of items and details of works	No.	L m	B m	H/D in m	Qty.	Unit	Rate	Amount
6/5.01	Providing and laying in position reinforced cement concrete excluding cost of centering and shuttering and reinforcement in - All work upto plint level								
	(a) 1:1.5:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20mm nominal size)								
	Foundation F ₁	30	1.2	1.2	0.15	6.48			
	Foundation F ₂	12	0.9	0.9	0.15	1.46			
	Column C ₁	30	0.28	0.28	1.50	3.53			
	Column C ₂	12	0.2	0.2	1.20	0.58			
	Septic Tank Cover	1	2	1.2	0.1	0.24			
	Soak Pit Cover	1	1	1	0.1	0.10			
	Slab	1	27.5	5	0.125	17.19			
						29.57	cum	#####	231,597.19
7/5.03	Reinforce cement concrete work in walls, including attached pilasters, columns, pillars, posts, piers, abutments, return walls, retaining walls, struts, buttresses, string or lacing courses, fillets etc. upto floor five level excluding cost of centering shuttering etc complete.								
	(a) 1:1.5:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20mm nominal size)								
	Column C ₁	11	0.28	0.28	4.8	4.140			
		19	0.28	0.28	2.8	4.171			
	Column C ₂	12	0.2	0.2	2.5	1.200			
						9.510	cum	#####	74,530.01
8/5.04	Reinforce cement concrete work in beams, suspended floors, roofs having slope upto 15 degree landings, balconies, shelves, chajjas, lintels, bands, window sills, stair cases, cantilevers up to floor five level excluding cost of centering etc complete with 1:2:4 (1 cement: 2 Coarse sand: 4 stone aggregate 20mm nominal size)								
	1:2:4 (1 cement: 2 Coarse sand: 4 graded stone aggregate 20mm nominal size)								
	Beam B ₁	4	35.00	0.2	0.35	9.800			
	Beam B ₂	16	8.50	0.2	0.35	8.825			
	RCC gutter	1	83.00	0.1	0.45	3.735			
	Sub Total					20.360	cum	#####	150,403.39
9/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.								
	(f) Thermo- Mechanically Treated bars.								
	(i) Main column Footing (qty b/f from 5.42(a))					8.48	cum		
	100 kg/cum					848.00	Kg		
	Verandah column Footing (qty b/f from 5.42(a))					1.46	cum		
	100 kg/cum					145.80	Kg		
	(ii) Main Column					13.81	cum		
	310 kg/cum					4220.46	Kg		

Item No.	Particulars of items and details of works	No.	L m	B m	H/D in m	Qty.	Unit	Rate	Amount
	Beam					16.83	cum		
	270 kg/cum					4488.75	Kg		
	Slab & Gutter					21.26	cum		
	100 kg/cum					2126.25	Kg		
	Total Weight					11629.26	Kg	83.70	973,389.40
10/5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in -								
	(a) Foundations, footings, bases of columns etc. for mass concrete.								
	Foundation F ₁	30	4	1.2	0.1	14.400			
	Foundation F ₂	12	4	0.9	0.1	4.320			
						18.720	sqm	299.70	5,610.38
	(c) Columns, pillars, piers, abutments, posts and struts.								
	Column C ₁	30	4	6.30	0.28	211.680			
	Column C ₂	12	4	3.70	0.28	49.728			
						261.408	sqm	506.30	132,350.87
	(d) Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc.								
	Beam B ₁	4	1	35.00	0.2	28.000			
		4	2	35	0.35	98.000			
	Beam B ₂	15	1	6.50	0.2	19.500			
		15	2	6.50	0.35	68.250			
						213.750	sqm	400.10	85,521.38
	(e) Suspended floors, roofs, landings, shelves and their support, balconies								
	Septic Tank Cover	1	2	2	0.1	0.400			
		1	2	1.2	0.1	0.240			
	Soak Pit Cover	1	2	1.2	0.1	0.240			
		1	2	1.2	0.1	0.240			
		1		27.50	5.00	137.500			
	RCC gutter	1		83.00	0.20	16.600			
						155.220	sqm	536.30	83,244.49
11/6.09	7.5cm thick brick masonry with first class brick in superstructure above plint level upto floor two level including curing, etc. complete.								
	a) in cement mortar 1:3 (1 cement : 3 fine sand)								
	Outer walls								
	W ₁	2		42.00	2.8	235.200			
	W ₂	9		5.00	2.8	126.000			
	Wall of Septic tank	1	2	2.40	1.5	7.200			
		1	2	1.20	1.5	3.600			
	Cupboard wall	1	2	1.80	0.4	1.440			
						373.440			
	Deduct for openings								
	Door D	7		1	2.1	14.700			
	Door D ₁	4		0.7	2.1	5.880			
	Windows & Ventilations	47		0.90	1.65	69.795			
	Ventilation	3		0.60	0.45	0.810			
						91.185			
						282.255	sqm	656.10	185,187.51
12/6.08	Honey-comb half brick masonry with first class brick in foundation upto one storey above and below ground level including curing, etc. complete.								
	a) in cement mortar 1 : 3 (1 cement : 3 fine sand)								
	Soak Pit	1	4	1.20	1.8	8.640	sqm	957.20	8,270.21

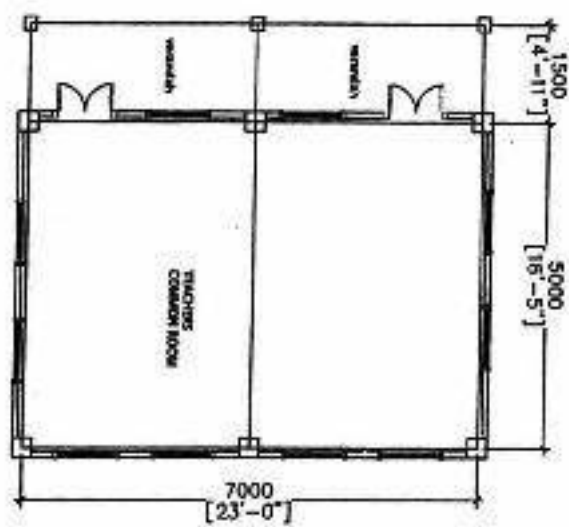
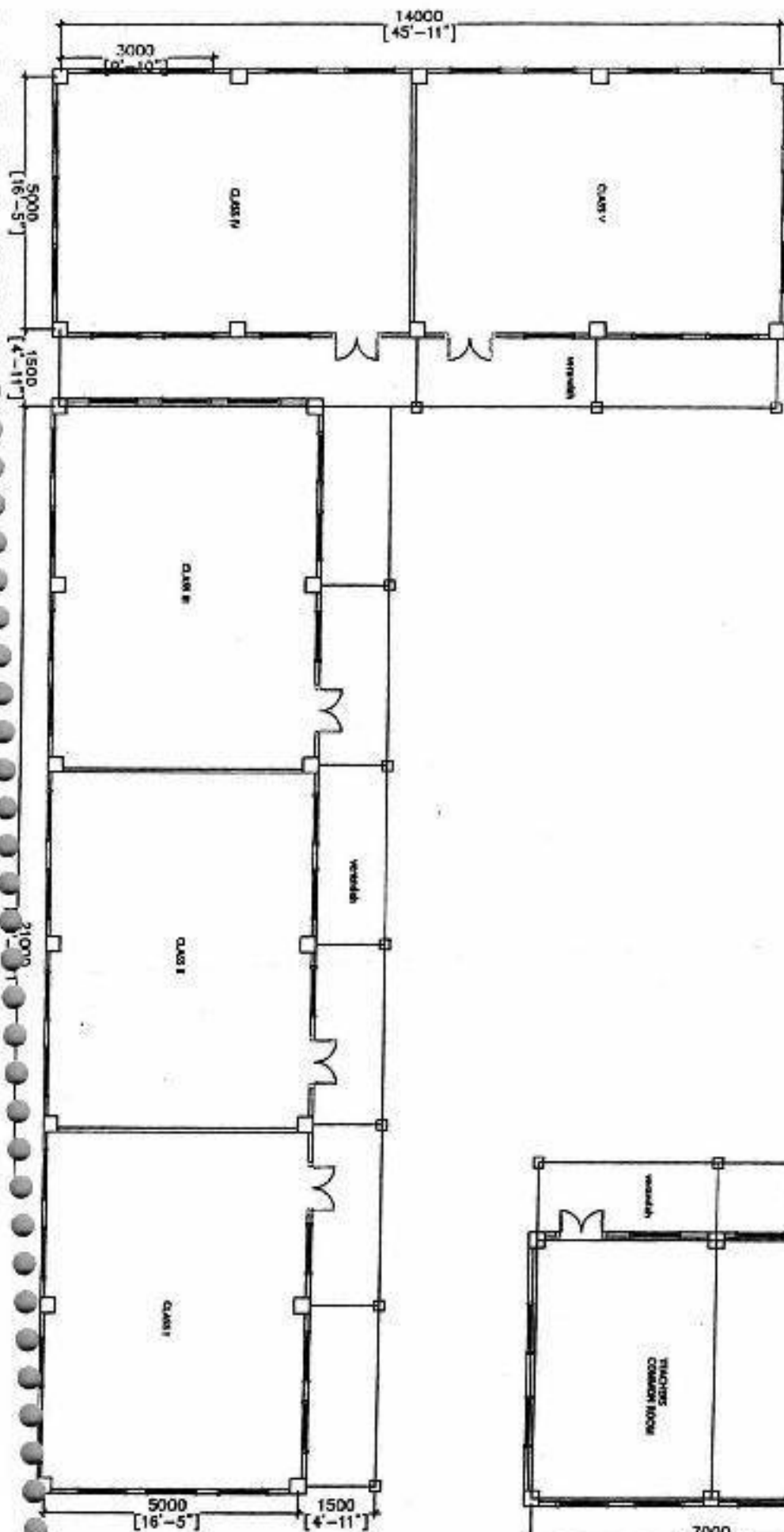
Item No.	Particulars of items and details of works	No.	L m	B m	H/D in m	Qty.	Unit	Rate	Amount
13/9.05	Providing 1st class local wood dressed in frames of chaukai for doors, windows, clerestory windows fixed in position.								
	Door D	7	4.90	0.10	0.075	0.255			
	Door D ₁	4	4.20	0.10	0.075	0.128			
						0.383	cum	#####	16,723.64
14/10.0	Providing and fixing steel glazed doors, windows, ventilators of standard rolled steel sections, joints, mitered and welded with 15x3mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm size of 1:3:6 (1 cement : 3 coarse sand : 6 stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of glass panes with glazing clips and special metal sash putty of approved make complete including applying a priming coat of approved steel primer excluding the cost of metal beading and other fittings except necessary hinges or pivots as required.								
	(a) Using 3mm thick glass panes.								
	Qty taken from	1/8.05				70.505	sqm	#####	254,486.66
15/10.0 9	Supplying and fixing M.S. decorative railing 80cm high in staircase consisting of 25mm aluminium square sections inserted into 20mm dia. M.S. bars @ 30 cm centres 60 x 60 x 4mm thick plate at the base fixed with wooden wedge by L.W. screws to receive the wooden handrails 12.5cm x 10cm including cost of polishing the wooden rail.								
						5.000	Rm	1708.00	8,540.00
16/7.05	Coursed rubble masonry (first sort) with hard stone in superstructure above plinth level and upto five level with:								
	a) cement mortar 1 : 3 (1 cement : 3 fine sand)								
	Plinth	1	20.00	0.35	0.45	3.15			
	Protection (for hilly places)	1	3.20	0.45	2	2.88			
						6.03	m ³	#####	35,226.66
17/9.11	Providing and fixing 1st class local wood panelled shutters for doors etc. including M.S. built hinges with necessary screws, etc. complete.								
	(c) 30 mm thick								
	Door D ₁	7	1.9	1.2		15.12	m ²		
	Door D ₂	4	1.8	0.9		6.48	m ²		
					Total	21.600	m ²	#####	51,840.00
18/12.01	Cement concrete flooring 1:2:4 (1 cement : 2 sand : 4 well graded stone aggregate 20mm size) finished with a floating coat neat cement including cement slurry etc. complete but excluding the cost of nosing of steps etc.								
	40mm thick.	1	20	6.2		124.000			
					Total	124.000	m ²	432.80	53,887.20

Item No.	Particulars of items and details of works	No.	L m	B m	H/D in m	Qty.	Unit	Rate	Amount
18/14.29	Providing and fixing Brass Tower Bolts (Socket Bolts) bright finished with necessary screws etc. complete.								
	(a) 300 mm					14	nos.	334.30	0.00
	Doors 1								
	(b) 250 mm					8	nos.	310.80	4,351.20
	Doors 2								
20/14.32	Providing and fixing brass handles with necessary screws, etc. complete					36			
	(a) 150 mm					22	nos.	238.10	8,571.60
	Door & Door 1								
21/14.33	Providing and fixing bright finished brass two lever mortise door lock with necessary screws, etc. complete.					7	nos.	###	9,667.00
	(a) Union type								
22/15.18	Supplying, fitting and fixing 3.20mm thick decolal asbestos board ceiling with necessary screws etc. complete excluding frame work of base and beading.								
		1	35	5		175.000	sqm	852.00	149,100.00
23/15.24	Providing and fixing 1st class local wood frame works for ceiling consisting of battens 50x25mm fixed over wood plugs embedded in wall with necessary nails or screws, etc. including cost of wood plugs								
	Ceiling	8	35	0.05	0.07	0.735			
		12	5	0.05	0.07	0.210			
						0.945	m ³	298.20	281.80
24/9.49	Providing and fixing dressed 2nd class local wood shelves supported on wooden brackets fixed at suitable distance but not exceeding 75cm apart etc. complete.								
	(a) 35mm thick (For Cupboard)					1,500	m ²	2734.60	4,101.90
25/21.12	15mm cement plaster 1 : 3 (1 cement : 3 fine sand).								
	(1) Qty BF from item no-7/8.05 (Both sides)					564.51			
						564.51	m ²	208.10	115,345.51
26/21.61	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.								
	(a) Ready mix pink/gray primer.								
	Chaukhat for:-								
	Door D ₁	7	5.40	0.24		9.07	m ²		
	Door D ₂	4	4.50	0.24		4.32	m ²		
	Frame for:-								
	Door D ₁	7	2	1.20	2.1	35.28	m ²		
	Door D ₂	4	2	0.90	1.8	12.96	m ²		
	Cupboard Wood Plank	8	1.20	0.4		3.84	m ²		
					Total	65.47	m ²	45.00	2,946.24
27/21.75	Applying priming coat with ready mixed primer of approved brand and manufacture on plaster surface.								
	(a) Ready mix white primer.								
	Qty BF from item No-	5/21.1				564.51	m ²		
					Total	564.51	m ²	81.30	34,804.46

Item No.	Particulars of items and details of works	No.	L m	B m	H/D in m	Qty.	Unit	Rate	Amount
28/21.84	Applying one coat of distemper primer of approved brand and manufacture on wall surface.								
	Qty BF from item No-	2/15.1				175.00	m ²	26.10	4,567.50
29/21.79	Distemping with 1st quality acrylic washable distemper of approved brand and manufacture and of required shade and colour to give an even shade on new work (two or more coats).								
	Qty BF From item No-	8/21.8				175.00	m ²	102.80	17,990.00
30/21.92	Painting with synthetic enamel paint of approved brand and manufacture in all shades on new work (two or more coats).								
	Qty BF from item No-	8/21.8							
	(a) General quality					65.47	m ²	81.50	5,335.97
31/17.49	Providing and fixing on wall face SWRPVC soil, waste and vent pipes including jointing with rubber lubricant/cement solvent complete.								
	(a) 110mm dia.	2	13.50			27.00	Rm	383.80	10,382.80
32/17.51	Providing and fixing SWRPVC plain bend of required degree (45°) including jointing with rubber lubricant/cement solvent complete.								
	(a) 110 mm dia.	8					each	133.90	803.40
33/17.53	Providing and fixing single equal SWRPVC plain junction of required degree with access door (T-junction)								
	(a) 110x110x110mm.	10					each	197.00	1,970.00
34/17.59	Providing and fixing W.C. connection bend type (siphon) (SWRPVC) including jointing with rubber lubricant/ solvent cement.								
		4					each	269.60	1,078.40
35/16.37	Providing Trapezoidal Polyester Coated Galvanised Steel Sheets Roofing of any colour of 1.06m width at all levels including fitting and fixing ridging with self drilling, self tapping screws, EPDM washers etc. complete excluding the cost of purlin, rafter and trusses.								
	(i) For 0.50mm thick:	1	40.00	7.8		312.00	sqm	#####	318,680.00
36/16.37	Providing Trapezoidal Polyester Coated Galvanised Steel Sheets Roofing of any colour of 1.06m width at all levels including fitting and fixing ridging with self drilling, self tapping screws, EPDM washers etc. complete excluding the cost of purlin, rafter and trusses.								
	(i) For 0.50mm thick:								
	Ridges & Valley	1	45.00			45.00	m	486.40	21,888.00
37/10.07	Structural steel work rivetted, bolted welded in built up sections, trusses and framed works, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. (In Tees, R.S. Joists, Angles, Flats and Channels.)								
	Steel truss @4kg/sqm					980.00	kg	90.80	88,984.00

Item No.	Particulars of items and details of works	No.	L m	B m	H/D in m	Qty.	Unit	Rate	Amount
38/18.02	Providing and fixing portable fire extinguisher								
	(a) Fire Extinguisher Water-CO2	2				2.00	No	#####	9,848.40
39/18.02	Providing and fixing on terrace (at all floor levels) Polyethylene storage tank of approved brand and manufacture with cover and mosquito proof coupling and suitable locking arrangement and making necessary connections for inlet, outlet and overflow pipes but without the cost for base support.								
	2 Nos of 4000 litres for Rain water harvesting					8000.00	litre	12.00	96,000.00
Total									3,400,088.10
Say									3,400,000.00
(Rupees thirty four lakh) only.									

Channarai P.S.



	Column	Quantity from 5/5	1.39	310Kg/m	kg	431.52		
	Beam	Quantity from 5/5.3	3.82	270Kg/m	kg	1030.374		
	Slab + Gutter+Chajjas + Step	Quantity from 5/5	7.25	100Kg/m	kg	724.5		
				Total:	kg	2589.594	83.70	216,749.02
7/5.11	Centering and shuttering including strutting, propping, etc. and removal of							
	c) Columns, pillars, piers, abutments, posts and struts.							
	200x200mm column	8	0.80	3.30	sqm	21.120		
				Total:	sqm	21.120	506.30	10,693.06
	d) Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc							
	Beams.							
	180X300 mm beam	2	11.5	0.78	sqm	17.940		
	180X300 mm beam	2	2.1	0.78	sqm	3.276		
				Total:	sqm	21.22	400.10	8,463.52
	a) Suspended floors, roofs, landings, shelves and their support, balconies							
	Slab							
	G.F	1	11.50	2.10	sqm	24.15		
				Total:	sqm	24.15	536.30	12,951.85
9/6.09	7.5cm thick brick masonry with first class brick in super structure above plinth level upto floor two level including curing etc.							
	(b) In cement mortar 1:4(1 cement: 4 coarse sand)							
		4	3.80	3.00	sqm	45.600		
		1	3.30	3.00	sqm	9.900		
		7	1.90	3.00	sqm	39.900		
		2	1.20	3.00	sqm	7.200		
	Deduction							
	Single Ventilation	8	0.90	0.45	sqm	-3.240		
	Toilet Door	5	2.10	0.90	sqm	-9.450		
				Total:	sqm	89.910	631.40	56,769.17
10/9.06	Providing 1st class local wood dressed in frames of chaukhat for doors, windows, clerestory windows fixed in position.							
	Toilet Door	10	0.90	0.075	cum	0.068		
		10	2.10	0.075	cum	0.158		
				Total =	cum	0.225	43660.30	9,823.57
11/9.37	Providing and fixing 30mm thick panelled door shutter comprising of styles and rails of seasoned teak wood with panels of phenol formaldehyde synthetic resin bonded particle board 19mm thick with both sides teak ply veneering on both							
	Toilet Door	5	0.90	2.10	sqm	9.45		
				Total =	sqm	9.45	6427.50	60,740.82
12/10.11	Providing and fixing prefabricated M.S. equal angle in chaukhat for doors, windows and clerestory windows including fixing with 40 x 5mm M.S. holdfast 40cm long at required spacing and applying priming coat with approved steel primer							
	(b) Using 50 x 50 x 6mm M.S. angle.							
	Single Ventilation	8	2.70		rm	21.60		
				Total =	rm	21.60	708.60	15,305.78

13/10.05	Providing and fixing steel glazed doors, windows, ventilators of standard rolled steel sections, joints, mitred and welded with 15x3mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm size of 1:3:6 (1 cement : 3 coarse sand : 6 stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of glass panes with glazing clips and special metal sash putty of approved make complete including applying a priming coat of approved steel primer excluding the cost of metal beading								
	(b) 4mm thick glass pane								
		6	0.45	0.90		sqm	3.24		
					Total =	sqm	3.24	3738.20	12,111.77
14/21.07	12mm cement plaster 1 : 4 (1 cement : 3 fine sand).								
	Qty. B.F from S. No. 8/6.05 (twice)					sqm	179.820		
	Column								
	Main Column	8	3.30	1.00		sqm	26.400		
	180x300 mm beam	2	11.50	0.78		sqm	17.940		
		4	2.10	0.78		sqm	6.552		
	GF	1	11.50	2.10		sqm	24.150		
	Ceiling	1	11.50	2.10		sqm	24.150		
					Total::	sqm	99.19	190.40	18,886.16
15/21.61	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.								
	(a) Ready mix pink/grey primer.								
	Chaukhat for								
	Toilet Door	10	0.90		0.30	sqm	2.700		
		10	2.10		0.30	sqm	6.300		
	Qty. BF from S/No.	11/9.37	2.00	9.45		m ²	18.900		
	Qty. BF from S/No.	12/10.11	2.00	21.60		m ²	43.200		
					Total::	m ²	71.10	45.00	3,199.50
16/21.62	Painting with synthetic enamel paint of approved brand and manufacture in all shade on new work (two or more coats).								
	a) General quality	Qty. BF from S/No. 15/21.61				m ²	71.10	81.50	5,784.65
17/21.60	Applying one coat of cement primer of approved brand and manufacture on wall								
	Qty. BF from S/No.	14/21.07				m ²	99.19		
	Total						99.19	53.80	5,336.53
18/14.08	Providing and fixing M.S. pull bolts lock conforming with IS : 7534 bright finished with necessary screws etc.					Nos	10.00	34.30	343.00
19/14.07	Providing and fixing M.S. Tower bolts (socket bolts) bright finished with necessary screws etc. complete.								
	(a) 300 mm					Nos	4.00	110.200	440.80
	(d) 150 mm					Nos	1.00	64.100	64.10
20/14.10	Providing and fixing M.S. handles with necessary screws, etc. complete								
	(a) 150mm					Nos	10.00	73.200	732.00
25/7.08	Coursed masonry with rectangular sized hard stone in foundation up to one storey above and below ground level including curing, etc. complete.								
	(b) in cement mortar 1 : 4 (1 cement : 6 fine sand)								
	Plinth protection	1	11.50	0.46	0.3	cum	1.553		

Sl. No.	Particulars	Unit	Qty	Rate	Amount	Material	Labour	Overhead	Total
27/18.02	Providing and fixing on terrace (at all floor levels) Polyethylene storage tank of approved brand and manufacture with cover and mosquito proof coupling and suitable locking arrangement and making necessary connections for inlet, outlet and overflow pipes but without the cost for	2000	1	0.45	0.45	0.3	0.264	1.553	10,050.42
28/17.52	Providing and fixing SWRPVC band with access door of required degree including jointing with rubber lubricant/coverment solvent complete	110mm dia SWRPVC band with access door	2	7.00	14.00	1.379	1.379	1.379	1.379
30/17.49	Providing and fixing on wall face SWRPVC jointing with rubber lubricant/coverment solvent complete	110mm dia SWRPVC band with access door	7	7.00	49.00	1.379	1.379	1.379	1.379
31/17.53	Providing and fixing single equal SWRPVC plain junction of required degree (T-junction)	110mm dia	1	363.80	363.80	23,028.00	23,028.00	23,028.00	23,028.00
32/17.21	Providing and fixing vitreous china Urinal corner 44 x 26.5 x 31.5cm size of Paryware/Hindware/Cera and equivalent make with flush valve/spray with C.I. or R.S. brackets standard size of G.I. flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete including	110x110x110mm	1	197.00	197.00	1.182	1.182	1.182	1.182
33/17.01	Providing and fixing water closet squatting pan (Indian type w.c pan) with 100mm sand cast iron P or S trap	each	4.000	6864.00	27,456.00	27,456.00	27,456.00	27,456.00	27,456.00
35/21.58	emulsion of required shade on new works (three or more coats) to give an even shade	Regular exterior emulsion like super coat, wallmasta etc	1521.51	352.69	536,400.19	536,400.19	536,400.19	536,400.19	536,400.19
36/21.54	Wall painting with interior emulsion paint of approved brand and manufacture on new works (two or more coats)	Only BF from S. No	1521.51	352.69	536,400.19	536,400.19	536,400.19	536,400.19	536,400.19
37/18.00	Providing and fixing G.I. pipes complete with G.I. fitting and clamps, including cutting and making good the walls etc.	15mm dia nominal bore	46.000	260.10	11,964.60	11,964.60	11,964.60	11,964.60	11,964.60
38/18.09	Providing and fixing brass stop cock of approved quality	15mm nominal bore	10.000	493.00	4,930.00	4,930.00	4,930.00	4,930.00	4,930.00
39/17.27	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete	15mm nominal bore	15.000	174.80	2,622.00	2,622.00	2,622.00	2,622.00	2,622.00
	including making good the walls wherever mm CP brass waste of standard pattern brackets, 15mm CP brass pillar taps, 32								
	Providing and fixing wash basin with C.I.								
	(a) 15mm nominal bore	No.	15.000	174.80	2,622.00	2,622.00	2,622.00	2,622.00	2,622.00

	a) White vitreous China wash basin size 630x450mm with a single 15mm C.P. brass pillar tap.						each	2.000	4817.30	9,634.60
4/20.18	Providing and mixing water proofing chemical (PIDI PROOF POWDER or equivalent chemical) in plain and reinforced cement concrete work 1 : 1.5 : 3 @ 1.0 % by weight of cement.									
		1	11.50	2.1	0.15	cum		3.623	343.10	1,242.88
	SEPTIC TANK									
1/2.08	Earthwork in excavation in foundation									
	(a) Ordinary Soil									
	septic tank	1	2.80	2.80	2.00	m ²		15.880		
	soak pit	1	1.70	2.00	1.20	m ²		4.080		
						Total::	m ²	19.760	216.10	4,309.66
2/5.35	Providing and laying in position machine									
	(b) Beams, suspended floors, roofs									
	septic tank cover and bottom slab	2	2.24	1.14	0.15	m ²		0.756		
	soakpit cover and bottom slab	2	1.04	1.04	0.15	m ²		0.324		
	bafllewall	2	0.90	0.70	0.15	m ²		0.189		
						Total::	m ²	1.260	9393.30	12,019.29
3/5.11	Centering and shuttering including									
	(e) Suspended floors, roofs, landings,									
	bafllewall	4	0.90	0.70		m ²		2.520		
		2	0.90	0.15		m ²		0.270		
	Septic tank Cover and bottom slab	4	2.24	0.15		m ²		1.344		
		4	1.14	0.15		m ²		0.684		
	Soak pit Cover and bottom slab	4	1.04	0.15		m ²		0.624		
		4	1.04	0.15		m ²		0.624		
						Total::	m ²	6.066	536.30	3,253.20
4/21.07	12mm cement plaster 1 : 4 (1 cement : 3 fine sand).									
	septic tank									
	inner wall	1	5.80		1.00	m ²		5.800		
	bottom slab	1	2.00		0.50	m ²		1.800		
	bafllewall	4	0.90		0.70	m ²		2.520		
		2	0.90		0.15	m ²		0.270		
						Total::	m ²	10.390	190.40	1,978.26
5/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete									
	(f) Thermo-Mechanically Treated Bars									
	Using 10mm Dia. Bar									
	Septic tank cover	1	8	x	2.240	mm		17.92		
		1	15	x	1.140	mm		17.10		
	Septic tank bottom slab	1	8	x	2.240	mm		17.92		
		1	15	x	1.140	mm		17.10		
	Soak Pit Cover	1	7	x	1.040	mm		7.28		
		1	7	x	1.040	mm		7.28		
	Soak Pit bottom slab	1	7	x	1.040	mm		7.28		
		1	7	x	1.040	mm		7.28		
	Baffle Wall	2	5	x	0.900	mm		4.50		
		2	6	x	0.700	mm		4.20		
						Total::	mm	107.85		
	@ 0.62/ Rm							66.87	83.70	5,597.29
6/6.09	7.5 cm thick brick masonry with first class brick in superstructure above plinth level upto floor two level including curing, etc.									
	(b) In cement mortar 1:3 (1 cement : 3 fine sand)									
	Septic tank :									
	Long Walls	2	2.24	1		m ²		4.48	s	

ESTIMATE FOR CONSTRUCTION OF MAIN GATE

Sl.No	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/2.08	Earth work in excavation in foundation trenches...								
	(b) Hard Soil (Pick work)								
	Column Foundations								
	Main Column	2	1.20	1.20	1.40	cum	4.03		
					Total:	cum	4.03	327.20	1,319.27
2/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each deposited layer by ramming and watering and lead upto 50 m and lift upto 1.50 meters.								
	Qty. BF from S.No.	1/2.08					4.03		
	Deduct from earthwork								
	Main Column	2	0.20	0.20	1.05	cum	-0.084		
	Footing								
	Main Column Footing	2	1.20	1.20	0.35	cum	-1.008		
	Column Foundation								
		2	1.20	1.20	0.10	cum	-0.288		
					Total:	cum	2.65	90.30	239.48
3/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth level :								
	(a) 1: 3: 6								
	Main Column Foundation	2	1.20	1.20	0.10	cum	0.288		
		2	2.50	0.30	0.10	cum	0.150		
					Total:	cum	0.438	5568.30	2,614.12
4/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
	(a) All work upto foundation & plinth level.								
	Footing								
	Main Footing	2	1.20	1.20	0.350	cum	1.01		
					Sub-Total:	cum	1.01		
	Main Column	2	0.20	0.20	1.050	cum	0.08		
					Sub-Total:	cum	0.08		
					Total:	cum	1.09	8847.30	9,681.25
	(b) All work above plinth level up to Floor V level								
	Ground Floor								
	Main Column	2	0.20	0.20	2.500	cum	0.20		
					Sub Total:	cum	0.20		
	Beam								
		2	2.000	0.180	0.300	cum	0.22		
					GT::		0.22	9393.30	2,028.95
5/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete								
	(f) Thermo-Mechanically Treated Bars								
	Foundation	Quantity from 4/5.35=	1.01	100Kg/m	kg	100.8			
	Column	Quantity from 4/5.35=	0.28	310Kg/m	kg	88.04			
	Beam	Quantity from 4/5.35=	0.22	270Kg/m	kg	58.320			
				Total::	kg	247.160	83.70	20,687.29	
5/5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in -								
	c) Columns, pillars, piers, abutments, posts and struts.								
	200x200mm column	2	0.80	2.50		sqm	4.000		
					Total:	sqm	4.000	506.30	2,025.20
	d) Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc.								
	Beams.								
	180X300 mm beam	2	2		0.75	sqm	3.120		
					Total:	sqm	3.12	400.10	1,248.31

7/10.04	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rails of T-iron 40x40x5mm with 40mm dia. steel pulleys complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.								
		1	2.00		2.50	sqm	5.00	5791.70	28,958.50
8/21.0	12mm cement plaster 1 : 4								
7	(1 cement : 3 fine sand).								
	Column								
	Main Column	2	2.50	0.80		sqm	4.000		
	180x300 mm beam	2	2.00	0.78		sqm	3.120		
	Masonry Wall	4	2		2.5	m ²	20.00		
					Total::	sqm	27.12	190.40	5,163.65
9/21.6	Applying one coat of cement primer of approved brand and manufacture on wall surface.								
0									
	Qty. BF from S.No.		9/21.07			m ²	27.12		
	Masonry Wall	4	2		2.5	m ²	20.00		
	Total					m ²	47.12	53.80	2,535.06
10/7.0	Coursed masonry with rectangular sized hard stone in foundation up to one storey above and below ground level including curing, etc. complete.								
8									
	(b) in cement mortar 1 : 4 (1 cement : 6 fine sand)								
		2	2.00	0.30	2.5	cum	3.000		
					Total::	cum	3.000	8473.70	19,421.10
11/21.90	Finishing walls with regular exterior emulsion of required shade on new works(three or more coats) to give an even shade.								
	(a) Regular exterior emulsion like super col, welmarla etc.								
	Qty BF from S.No		9/21.60			sqm	47.120	352.59	16,618.75
							Total	112,520.93	
						say:	Rs:	112,500.00	

(Rupees one lakh twelve thousand five hundred) only.

ESTIMATE FOR CONSTRUCTION OF FENCING

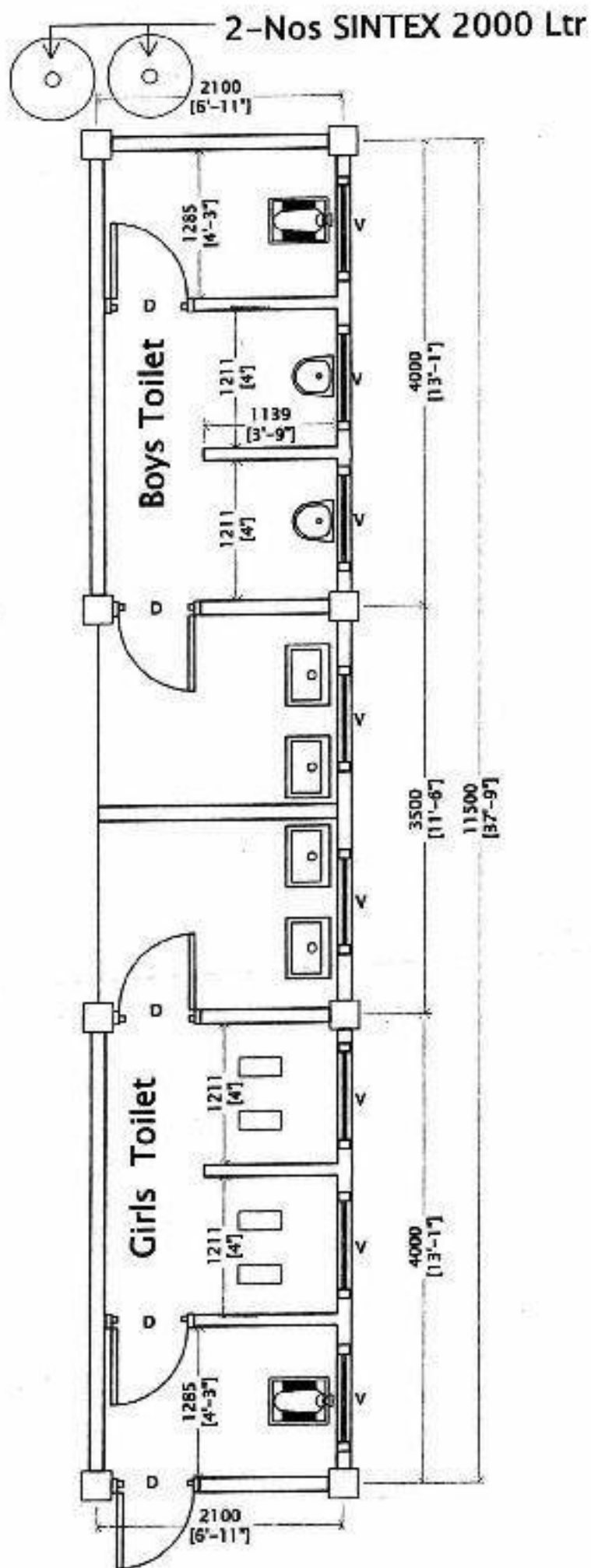
SLNo	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/2.08	Earth work in excavation in foundation trenches...								
	(b) Hard Soil (Pick work)								
	Column Foundations								
	Main Column	5	1.20	1.20	1.50	cum	10.80		
	Infil Wall Excavation	5	3.60	0.45	1.50	cum	12.15		
					Total:	cum	22.95	327.20	7,509.24
3/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each deposited layer by ramming and watering and load upto 50 m and lift upto 1.50 meters.								
	Qty. BF from S.No.	1/2.08					10.80		
	Deduct from earthwork								
	Main Column	5	0.20	0.20	1.05	cum	-0.210		
	Footling								
	Main Column Footing	5	1.20	1.20	0.35	cum	-2.520		
	Column Foundation								
		5	1.20	1.20	0.10	cum	-0.720		
					Total:	cum	7.35	90.30	663.71
3/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth level.								
	(a) 1: 3: 5								
	Main Column Foundation	5	1.20	1.20	0.10	cum	0.720		
	Infil Wall PCC	5	3.60	0.45	0.10	cum	0.810		
					Total	cum	1.530	5968.30	9,131.50
4/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
	(a) All work upto foundation & plinth level.								
	Footling								
	Main Footling	5	1.20	1.20	0.350	cum	2.52		
					Sub-Total	cum	2.52		
	Main Column	5	0.20	0.20	1.050	cum	0.21		
					Sub-Total	cum	0.21		
					Total	cum	2.73	8847.30	24,153.13
	(b) All work above plinth level up to Floor V level								
	Ground Floor								
	Main Column	5	0.20	0.20	2.100	cum	0.42		
					Sub Total	cum	0.42		
	Beam								
		2	14.500	0.180	0.300	cum	1.57		
					GT::		1.57	9393.30	14,709.91
5/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete								
	(f) Thermo-Mechanically Treated Bars								
	Foundation	Quantity from 5/5.35-	2.52	100kg/m	kg	252			
	Column	Quantity from 5/5.35-	0.63	310kg/m	kg	195.3			
	Beam	Quantity from 5/5.35-	1.57	270kg/m	kg	422.820			
					Total::	kg	870.120	83.70	72,829.04
5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in								
	(c) Columns, pillars, piers, abutments, posts and struts.								
	200x200mm column	5	0.80	3.30	sqm	13.200			

						Total:	sqm	13.200	506.30	5,583.16
d)	Lintels, beams, plinth beams, girders, brassumers and cantilevers, etc.									
	Beams.									
	180X300 mm beam	2	14.5		0.78	sqm		22.620		
						Total:	sqm	22.62	400.10	9,050.26
7/6.09	7.5cm thick brick masonry with first class brick in super structure above plinth level upto floor two level including curing etc.									
	(b) In cement mortar 1:4 (1 cement: 4 coarse sand)									
		4	1.80	3.43		sqm		24.660		
						Total:	sqm	24.660	531.40	15,570.32
8/21.0	12mm cement plaster 1 : 4									
7	(1 cement : 3 fine sand).									
	Qty. B.F from S. No. 7/6.09 (twice)					sqm		49.320		
	Column									
	Main Column	5	2.10	1.00		sqm		10.500		
	180x300 mm beam	2	14.50	0.96		sqm		27.840		
	Qty taken from 13/6.09					sqm		100.980		
						Total::	sqm	188.64	190.40	35,917.08
9/21.6	Applying one coat of cement primer of approved brand and manufacture on wall									
0										
	Qty. BF from S.No.	8/21.07				m ²		188.64		
	Total							188.64	53.60	10,148.83
10/7.0	Coursed masonry with rectangular sized hard stone in foundation up to one storey above and below ground level including curing, etc. complete.									
8										
	(b) in cement mortar 1 : 4 (1 cement : 6 fine sand)									
	Plinth protection	1	14.50	0.45	0.3	cum		1.958		
	Plinth protection for infill wall	5	3.60	1.20	0.45	cum		9.720		
						Total::	cum	11.578	6473.70	75,598.63
11/21.09	emulsion of required shade on new works (three or more coats) to give an even shade.									
	(a) Regular exterior emulsion like super cote, walmasta etc.									
	Qty BF from S.No	8/21.07				sqm		188.640	352.69	66,531.44
12/21.94	Wall painting with interior emulsion paint of approved brand and manufacture on new works (two or more coats).									
	(a) General quality									
	Qty BF from S.No	8/21.07				sqm		188.640		
						Total	sqm	188.640	52.10	9,828.14
13/6.08	Half brick masonry with first class brick in superstructure above plinth level up to floor V level									
	Infill wall	5	3.6		3.69	sqm		66.420		
	Infill wall	3	3.6		3.2	sqm		34.560		
						Total	sqm	100.980	1032.90	104,302.24
									Total	462,624.62

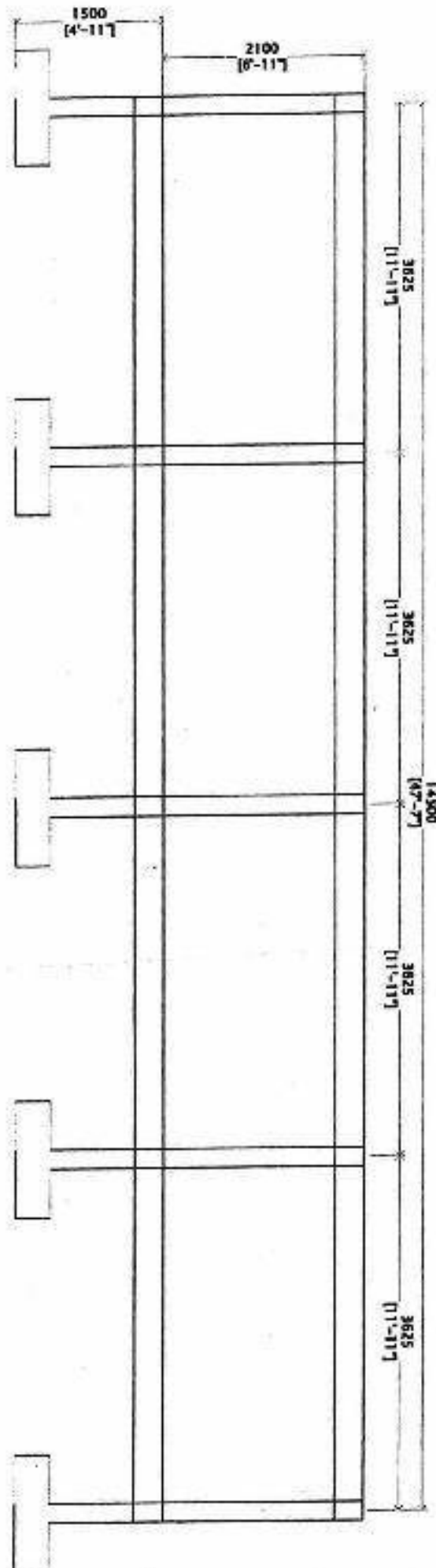
Say:Rs - 462,600.00

(Rupees four lakh sixty two thousand six hundred) only.

College Veng P.S.



collage key 65.



ESTIMATE FOR RE-CONSTRUCTION OF GOVT. BOYS PS

Sl.No	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/2.08	Earth work in excavation in foundation trenches...								
	(b) Hard Soil (Pick work)								
	Foundation for main column	12	1.20	1.20	1.50	cum	25.92		
					Total:	cum	25.92	327.20	8,481.02
2/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each deposited layer by ramming and watering and feed upto 50 m and lift upto 1.50 meters.								
	Qty. BF from S.No.	1/2.08					25.92		
	Deduct from earthwork								
	Main Column	12	0.30	0.30	1.05	cum	-1.134		
	Footing	12	1.20	1.20	0.30	cum	-5.184		
	Column Foundation	12	1.20	1.20	0.10	cum	-1.728		
					Total:	cum	17.87	90.30	1,614.02
3/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth level.								
	(a) 1: 3: 6								
	Column Foundation	12	1.20	1.20	0.100	cum	1.728		
	Ramp up	1	2.74	1.00	0.100	cum	0.274		
	Ground floor PCC Slab	1	11.58	6.20	0.125	cum	8.972		
					Total	cum	10.974	5568.30	65,495.97
4/5.25	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M 20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
	(a) All work upto foundation & plinth level.								
	Footing	12	1.20	1.20	0.35	cum	5.048		
	Main Column	12	0.30	0.30	1.35	cum	1.48		
					Total	cum	7.51	8847.30	66,407.83
	(b) All work above plinth level up to Floor V level								
	Main column	12	0.30	0.30	8.300	cum	6.804		
					Total	cum	6.804		
	Plinth Beam								
		3	4.27	0.250	0.300	cum	0.961		
		3	2.44	0.250	0.300	cum	0.549		
		3	3.97	0.250	0.300	cum	0.883		
		8	2.80	0.250	0.300	cum	1.680		
	First Floor Beam								
		3	4.27	0.250	0.325	cum	1.041		
		3	2.44	0.250	0.275	cum	0.503		
		3	3.97	0.250	0.325	cum	0.988		
		8	2.80	0.250	0.275	cum	1.540		
	Roof beam								
		3	4.27	0.250	0.450	cum	1.441		
		3	2.44	0.250	0.400	cum	0.732		
		3	3.97	0.250	0.400	cum	1.191		
		8	2.80	0.250	0.400	cum	2.240		
					Total	cum	13.738		
	Slab	1	11.58	6.20	0.125	cum	8.972		
	Deduction for Steps	1	3.10	2.74	0.125	cum	-1.061		
	Gutter:								
	Bottom	1	37.95	0.30	0.10	cum	1.139		
	Side	1	37.95	0.40	0.10	cum	1.518		
					Total	cum	10.568		

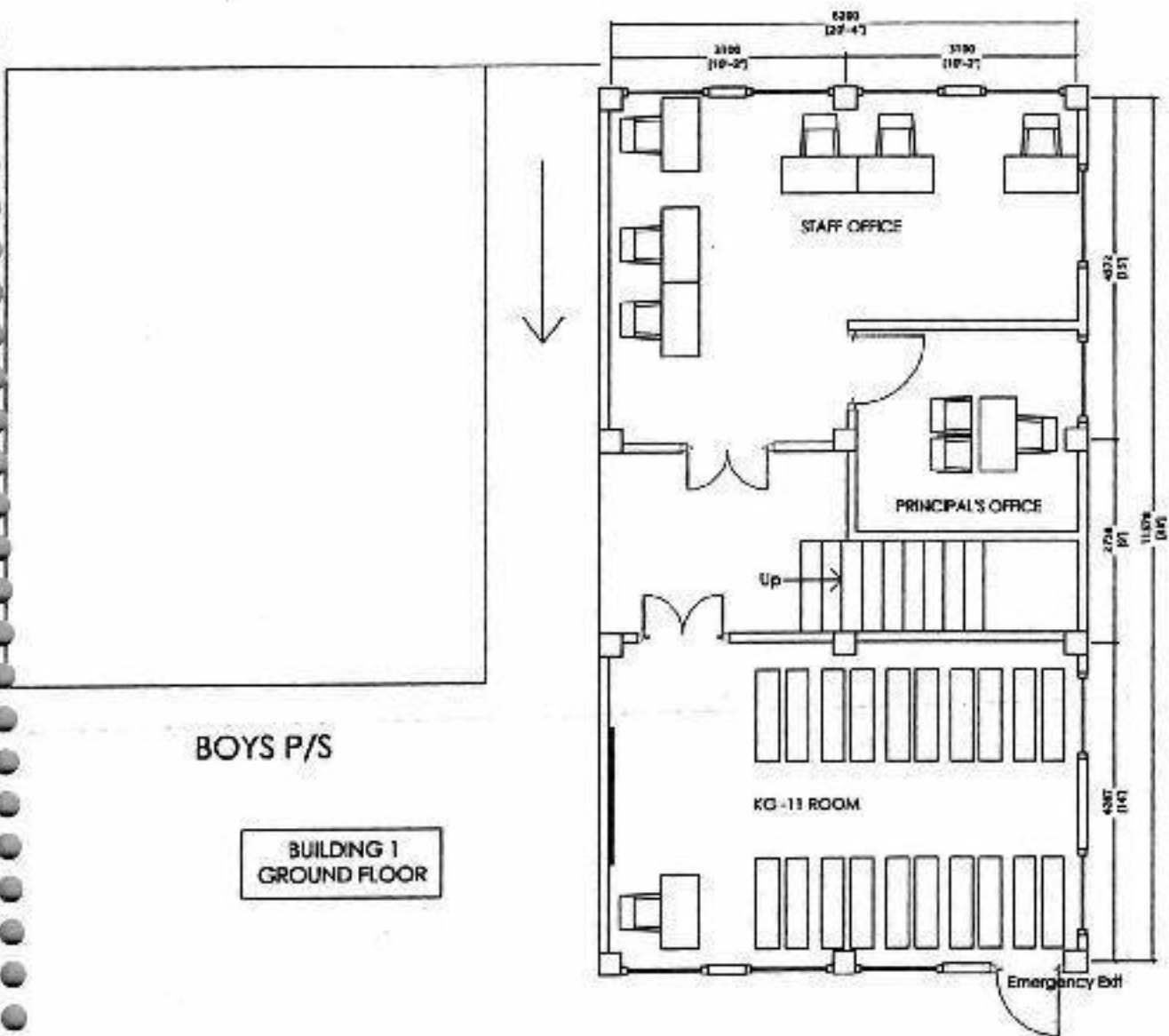
	Steps	21	1.37	0.30	0.075	cum	0.647		
	Landing	1	3.10	1.60	0.075	cum	0.372		
	Waist Slab	1	7.08	1.37	0.150	cum	1.464		
					Total	cum	2.473		
					GT::		33.582	9393.30	315,447.50
5/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete								
(f)	Thermo-Mechanically Treated Bars								
	Foundation	Qty. Bf from S.No.4/5.35	(a)		cum	7.51			
	@ 120 Kg/cum				Kg	900.720			
	Column	Qty. Bf from S.No.4/5.35	(b)		cum	6.804			
	@ 120 Kg/cum				Kg	816.480			
	Beam	Qty. Bf from S.No.4/5.35	(b)		cum	13.738			
	@ 120 Kg/cum				Kg	1648.530			
	Slab & Gutter	Qty. Bf from S.No.4/5.35	(b)		cum	10.568			
	@ 120 Kg/cum				Kg	1268.124			
	Steps	Qty. Bf from S.No.4/5.35	(a)		cum	2.473			
	@ 120 Kg/cum				Kg	296.728			
					GT Kg	4930.582	83.70	412,880.88	
5/5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in -								
c)	Columns, pillars, piers, abutments, posts and struts.								
	Column								
	300x300 mm column	1	40.00	1.20	sqm	48.000			
					Total:	sqm	48.000	506.30	24,302.40
d)	Lintels, beams, plinth beams, girders, breasurers and cantilevers, etc.								
	Beams.								
	250x300 mm beam	1	15.000	0.85	sqm	12.750			
	250x450mm beam	1	17.850	1.15	sqm	20.528			
	250x325mm beam	1	18.000	0.90	sqm	16.200			
	250x275mm beam	1	18.000	0.80	sqm	14.400			
					Total:	sqm	63.88	400.10	25,557.39
e)	Suspended floors, roofs, landings, shelves and their support, balconies and chajja, etc.								
	Gutter	1	37.95	0.80	sqm	30.36			
	Slab	1	11.58	6.20	sqm	71.78			
	Waist slab	1	7.08	1.37	sqm	9.60			
	Landing	1	3.10	1.60	sqm	4.96			
	Steps	21	1.37	0.15	sqm	4.31			
		21	0.30	0.15	sqm	0.95			
					Total:	sqm	122.05	536.30	65,453.85
5.05	Half brick masonry with first class brick in superstructure above plinth level up to floor V level								
(b)	In cement mortar 1 : 4 (1 cement : 4 fine sand)								
	Skirting								
	Ground floor	1	45.08	0.60	sqm	27.048			
	1st floor	1	43.74	0.60	sqm	26.244			
	Deduction								
	Main Door	4	0.80	1.20	sqm	-2.880			
	Emergency Door	1	0.80	0.90	sqm	-0.540			
	Principal's Room Door	1	0.80	0.80	sqm	-0.540			
					Total:	sqm	49.332	1032.90	50,955.02
7	7.5 cm thick brick masonry with first class brick in superstructure above plinth level upto floor two level including curing, etc. complete.								

	(b) in cement mortar 1 : 4 (1 cement : 4 fine sand)								
	Wall above Skirting								
	Ground floor	1	45.08	2.15	sqm	96.922			
	1st floor	1	40.94	2.15	sqm	88.021			
	Deduction								
	Main Door	4	1.50	1.20	sqm	-7.200			
	Emergency Door	1	1.50	0.90	sqm	-1.350			
	Principal's Room Door	1	1.50	0.90	sqm	-1.350			
	Window+Ventilation	24	1.85	0.90	sqm	-35.640			
					Total =	sqm	139.403	831.40	88,019.05
9/9.06	Providing 1st class local wood dressed in frames of chaulkat for doors, windows, clerestory windows fixed in position.								
	Main door	4	1.20	0.075	0.10	cum	0.036		
		8	2.10	0.075	0.10	cum	0.126		
	Principal's Room Door & Emergency Door	2	0.90	0.075	0.10	cum	0.014		
		4	2.10	0.075	0.10	cum	0.063		
	Windows & Ventilation	48	1.65	0.075	0.10	cum	0.594		
		72	0.90	0.075	0.10	cum	0.486		
					Total =	cum	1.319	43860.30	57,568.11
10/9.37	Providing and fixing 30mm thick panelled door shutter comprising of styles and rails of seasoned teak wood with panels of phenol formaldehyde synthetic resin bonded particle board 18mm thick with both sides teak ply veneering on both faces...								
	main door	4		1.20	2.10	sqm	10.08		
	Principal's Room Door & Emergency Door	2		0.90	2.10	sqm	3.78		
					Total =	sqm	13.86	6427.80	85,096.54
11/9.15	Providing and fixing 1st class local wood glazed shutters using 3mm thick plate sheet glass for doors, windows etc.....								
	30mm thick								
	Windows & Ventilations	24	1.65	0.90	sqm	35.64			
					Total =	sqm	35.64	2140.10	76,273.13
12/21.07	12mm cement plaster 1 : 4 (1 cement : 3 fine sand).								
	Qty. B.F from S. No. 7/8.06(b) (twice)	2	49.33		sqm	98.664			
	Qty. B.F from S. No. 8/8.09(b) (twice)	2	139.40		sqm	278.808			
	Main Column	12	6.30	1.20	sqm	80.720			
	Roof beam	1	41.63	1.05	sqm	43.712			
		1	12.81	1.15	sqm	14.732			
	Gutter	1	37.95	0.80	sqm	30.36			
	Ceiling of 1st floor	1	11.58	8.20	sqm	71.78			
					Total:	sqm	828.77	190.40	119,717.68
12.01	Cement concrete flooring 1:2:4(1cement:2 sand:4 well graded stone aggregate 20mm nominal size).....								
	(a) 40mm thick	1	11.58	6.20	sqm	71.78			
					Total	sqm	71.78	432.80	31,055.26
11.81	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete								
	(a) Ready mix pink/grey primer.								
	Chaulkat for								
	Main door	4	1.20		0.30	sqm	1.440		
		8	2.10		0.30	sqm	5.040		
	Principal's Room Door & Emergency Door	2	0.90		0.30	sqm	0.540		
		4	2.10		0.30	sqm	2.520		

					Total::	sqm	9.54	45.00	429.30
15/21.92	Painting with synthetic enamel paint of approved brand and manufacture in all shade on new work (two or more coats).								
	a) General quality	Qty. BF from	14/21.61			sqm	9.54		
		Qty. BF from	10/9.37	(both sides)		sqm	27.72		
				Total		sqm	37.26	81.50	3,036.69
16/21.81	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade on new work (three or more coats) to give an even shade.								
	(b) Premium exterior emulsion like weathercoat, weather shield etc.								
		Qty. BF from S/No.	12/21.07			sqm	628.77		
		Qty. BF from S/No.	23/15.07			sqm	71.78		
				Total::		sqm	700.55	93.00	65,150.95
17/21.80	Applying one coat of cement primer of approved brand and manufacture on wall surface.								
		Qty. BF from S/No.	18/21.81			sqm	700.55	53.80	37,689.47
18/14.07	Providing and fixing M.S. Tower bolts (socket bolts) bright finished with necessary screws etc. complete.								
	(a) 300 mm					Nos	12.00	110.200	1,322.40
	(d) 150mm					Nos	96.00	64.100	6,153.60
19/14.10	Providing and fixing M.S. handles with necessary screws, etc. complete								
	(d) 150mm						96.000	64.100	6,153.60
20/16.37	Providing Trapezoidal Polyester Coated Galvanised Steel Sheets Roofing of any colour of 1.06m width at all levels including fitting and fixing ridging with self drilling, self tapping screws, EPDM washers etc. complete excluding the cost of purlin, rafter and trusses.								
	(j) For 0.50 mm thick :	1	11.58	6.2	1.5	sqm	107.666		
				Total::		sqm	107.666	1015.70	108,356.46
21/16.39	Providing and fixing of pre-coated Galvanized Steel Sheet of any colour ridges, gutters or valleys 50 cm overall width, 0.50 mm thick with 150 mm overlapping fixed with Self Drilling & Tapping with EPDM washer but excluding the cost of base frame								
	Ridges					m	25.930		
				Total::		m	25.930	939.30	23,487.22
22/08	Providing 1st class local wood in trusses etc. including hoisting fixing in position supplying necessary fittings such as spikes bolts and nuts, nails etc and applying wood preservative for unexposed surface etc. complete.								
	Rafter	10	3.74	0.075	0.1	cum	0.261		
		4	1.25	0.075	0.1	cum	0.038		
		4	2.49	0.075	0.1	cum	0.075		
		4	1.29	0.075	0.1	cum	0.039		
		4	2.58	0.075	0.1	cum	0.077		
		2	3.87	0.075	0.1	cum	0.058		
		8	5.18	0.075	0.1	cum	0.311		
	Color	5	1.2	0.075	0.1	cum	0.045		
	Purlin	8	12.27	0.075	0.05	cum	0.368		
	Ceiling	8	11.577	0.075	0.05	cum	0.347		
		11	6.2	0.075	0.05	cum	0.266		
				Total::		cum	1.894	38740.90	73,391.15

23/15.07	Supplying, fitting and fixing 4mm thick plain asbestos cement sheet ceiling with necessary nails complete excluding frame work of base and boarding								
	Ceiling	1	11.58	6.2	sqm	71.777			
				Total:	sqm	71.777	378.10	27,139.03	
24/14.01	Providing and fixing m.s pull bolt lock conforming IS:7534....								
					No	5.000	34.30	171.50	
25/10.05	Supplying and fixing MS decorative railing 80cm high in staircase..... including cost of polishing the wooden rail								
	1st floor fenang				Rm	2.700			
	Stap Railing				Rm	7.080			
				Total	Rm	9.780	1708.03	16,704.24	
							Sub-Total	1,888,318.41	
	Add 7.5% for Internal electrification							140,123.88	
	Add 5% for Furniture							93,415.92	
							Total	2,101,858.21	
					Say,			2,101,818.00	

(Rupees twenty one lakh one thousand eight hundred eighteen) only.



ESTIMATE FOR RE-CONSTRUCTION OF NURSERY ROOM

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/2.08	Earth work in excavation in foundation trenches...								
	(b) Hard Soil (Pick work)								
	Foundation for main column	8	1.20	1.20	1.50	cum	17.28		
					Total:	cum	17.28	327.20	5,654.02
2/2.18	Filling available excavated earth (excluding rock)								
	Qty. BF from S.No.	1/2.08					17.28		
	Deduct from earthwork								
	Main Column	8	0.30	0.30	1.05	cum	-0.756		
	Footing	8	1.20	1.20	0.30	cum	-3.456		
	Column Foundation	8	1.20	1.20	0.10	cum	-1.152		
					Total:	cum	11.92	90.30	1,076.01
3/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and								
	(a) 1: 3: 6								
	Column Foundation	8	1.20	1.20	0.100	cum	1.152		
	Steps	2	9.00	0.30	0.150	cum	0.720		
	Ground floor PCC Slab	1	7.00	7.37	0.125	cum	6.449		
					Total	cum	8.321	5968.30	49,660.73
4/5.35	Providing and laying in position machine batched,								
	(a) All work upto foundation & plinth level.								
	Footing	8	1.20	1.20	0.35	cum	4.032		
	Main Column	8	0.30	0.30	1.45	cum	1.04		
					Total	cum	5.08	8847.30	44,908.89
	(b) All work above plinth level up to Floor V level								
	Main column	8	0.30	0.30	3.150	cum	2.268		
					Total	cum	2.268		
	Plinth Beam								
		4	3.20	0.250	0.300	cum	0.960		
		4	2.70	0.250	0.300	cum	0.810		
	Roof beam	4	3.20	0.250	0.400	cum	1.280		
		4	2.70	0.250	0.400	cum	1.080		
		1	1.37	0.250	0.400	cum	0.137		
		1	6.70	0.300	0.450	cum	0.905		
		1	5.40	0.300	0.450	cum	0.729		
					Total	cum	5.901		
	Roof Slab	1	7.00	7.37	0.125	cum	6.449		
					Total	cum	6.449		
					GT::		14.617	9393.30	137,304.21
5.21	Steel reinforcement for RCC work including								
	(f) Thermo-Mechanically Treated Bars								
	Foundation	Qty. BF from S.No.4/5.35	(a)			cum	5.08		
		@ 100 Kg/cum				Kg	507.600		
	Column	Qty. BF from S.No.4/5.35	(b)			cum	2.268		
		@ 310 Kg/cum				Kg	703.080		
	Beam	Qty. BF from S.No.4/5.35	(b)			cum	5.901		
		@ 270 Kg/cum				Kg	1593.135		
	Slab	Qty. BF from S.No.4/5.35	(b)			cum	6.449		
		@ 100 Kg/cum				Kg	644.975		
					GT	Kg	3448.890	83.70	288,655.35
	Centering and shuttering including strutting,								
	(c) Columns, pillars, piers, abutments,								
	posts and struts.								
	Column								
	300x300 mm column	1	31.00		1.20	sqm	37.200		
					Total:	sqm	37.200	506.30	18,834.36

d)	Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc.								
	Beams.								
	250X300 mm beam	1	23.600	0.85	sqm	20.060			
	250X400 mm beam	1	24.970	1.05	sqm	26.219			
	300X450mm beam	1	12.100	1.20	sqm	14.520			
					Total:	sqm	60.80	400.10	24,325.48
e)	Suspended floors, roofs, landings, shelves and their support, balconies and chajja, etc.								
	Slab	1	7.37	7.00	sqm	51.59			
					Total:	sqm	51.59	536.30	27,667.72
7/6.06	Half brick masonry with first class brick in superstructure above plinth level up to floor V level								
	(b) in cement mortar 1 : 4 (1 cement : 4 fine sand)								
	Skirting								
	Ground floor	1	23.60	0.60	sqm	14.160			
	Deduction								
	Main Door	1	0.60	1.20	sqm	-0.720			
					Total:	sqm	13.440	1032.90	13,882.18
8/6.09	7.5 cm thick brick masonry with first class brick in superstructure above plinth level upto floor two								
	(b) in cement mortar 1 : 4 (1 cement : 4 fine sand)								
	Wall above Skirting								
	Ground floor	1	23.60	2.15	sqm	50.740			
	Deduction								
	Main Door	1	1.50	1.20	sqm	-1.800			
	Window+Ventilation	8	1.65	0.90	sqm	-11.860			
					Total:	sqm	37.060	631.40	23,399.68
9/9.06	Providing 1st class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.								
	Main door	1	1.20	0.075	0.10 cum	0.009			
		2	2.10	0.075	0.10 cum	0.032			
	Windows & Ventilation	16	1.65	0.075	0.10 cum	0.198			
		24	0.90	0.075	0.10 cum	0.162			
					Total = cum	0.401	43660.30	17,485.95	
0/9.37	Providing and fixing 30mm thick panelled door shutter comprising of styles and rails of seasoned teak wood with panels of phenol formaldehyde synthetic resin bonded particle board 19mm thick with both sides teak ply veneering on both faces...								
	main door	1	1.20	2.10	sqm	2.52			
					Total = sqm	2.52	6427.60	16,197.55	
9.15	Providing and fixing 1st class local wood glazed shutters using 3mm thick plate sheet glass for doors, windows etc.....								
	30mm thick								
	Windows & Ventilations	8	1.65	0.90	sqm	11.88			
					Total = sqm	11.88	2140.10	25,424.39	
1.07	12mm cement plaster 1 : 4 (1 cement : 3 fine sand).								
	Qty. B.F from S. No.7/6.06(b) (twice)	2	13.44		sqm	26.880			
	Qty. B.F from S. No.8/6.09(b) (twice)	2	37.06		sqm	74.120			
	Main Column	8	3.15	1.20	sqm	30.240			
	250X400 mm beam	1	24.97	1.05	sqm	26.219			
	300X450mm beam	1	12.10	1.20	sqm	14.520			
	Ceiling of 1st floor	1	7.37	7.00	sqm	51.59			
					Total::	sqm	223.57	190.40	42,567.44

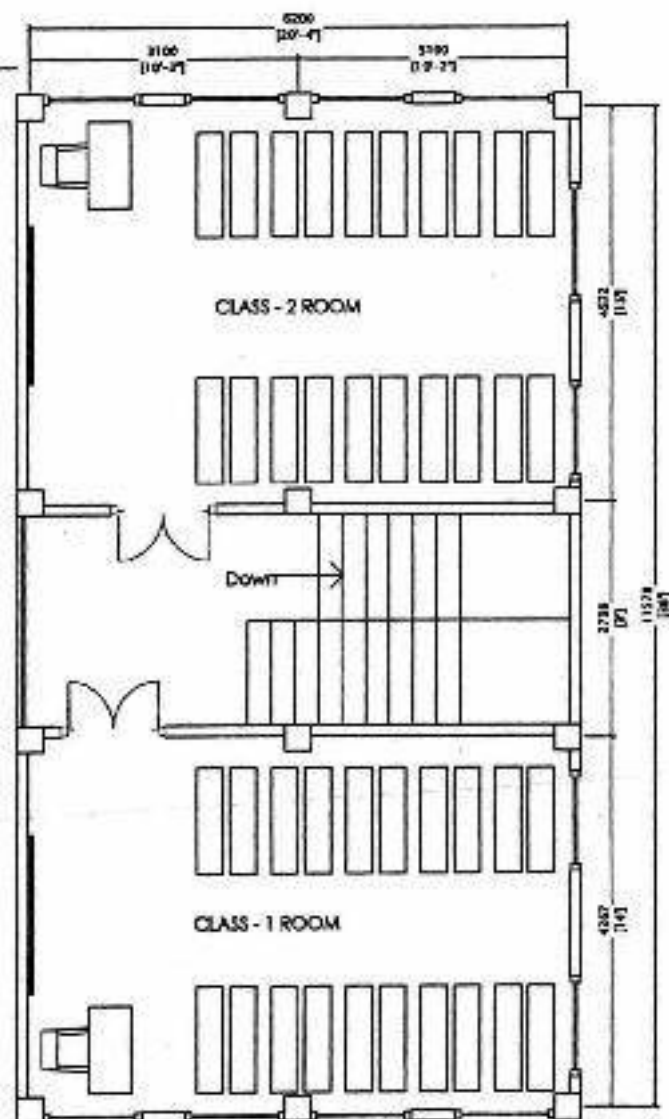
13/12.01	Cement concrete flooring 1:2:4(1cement:2 sand:4 well graded stone aggregate 20mm nominal size).....								
	(a) 40mm thick	1	7.00	7.37		sqm	51.59		
					Total	sqm	51.59	432.80	22,328.15
14/21.61	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.								
	(a) Ready mix pink/gray primer.								
	Chaukhat for								
	Main door	1	1.20		0.30	sqm	0.360		
		2	2.10		0.30	sqm	1.260		
					Total::	sqm	1.62	45.00	72.90
15/21.92	Painting with synthetic enamel paint of approved brand and manufacture in all shade on new work (two or more coats).								
	a) General quality	Qty. BF from	14/21.61			sqm	1.62		
		Qty. BF from	10/9.37	(both sides)		sqm	5.04		
					Total	sqm	6.66	81.50	542.79
15/21.81	Finishing walls with water proofing cement paint of approved brand and manufactured and of required shade on new work (three or more coats) to give an even shade.								
	(b) Premium exterior emulsion like weathercoats, weather shield etc.								
	Qty. BF from S/No.	12/21.07				sqm	223.57		
					Total::	sqm	223.57	93.00	20,791.87
17/21.60	Applying one coat of cement primer of approved brand and manufacture on wall surface.								
	Qty. BF from S/No.	15/21.81				sqm	223.57	53.80	12,027.99
18/14.07	Providing and fixing M.S. Tower bolts (socket bolts) bright finished with necessary screws etc.								
	(a) 300 mm					Nos	34.00	110.200	3,746.80
19/14.10	Providing and fixing M.S. handles with necessary screws, etc. complete								
	(d) 150mm						28.000	64.100	1,794.80
4.08	IS:7534....					No	1.000	34.30	34.30
								Sub-Total	798,383.57
	Add 7.5% for internal electrification								59,878.77
	Add 5% for Furniture								39,919.18
								Total	898,181.52
								Say,	898182.00

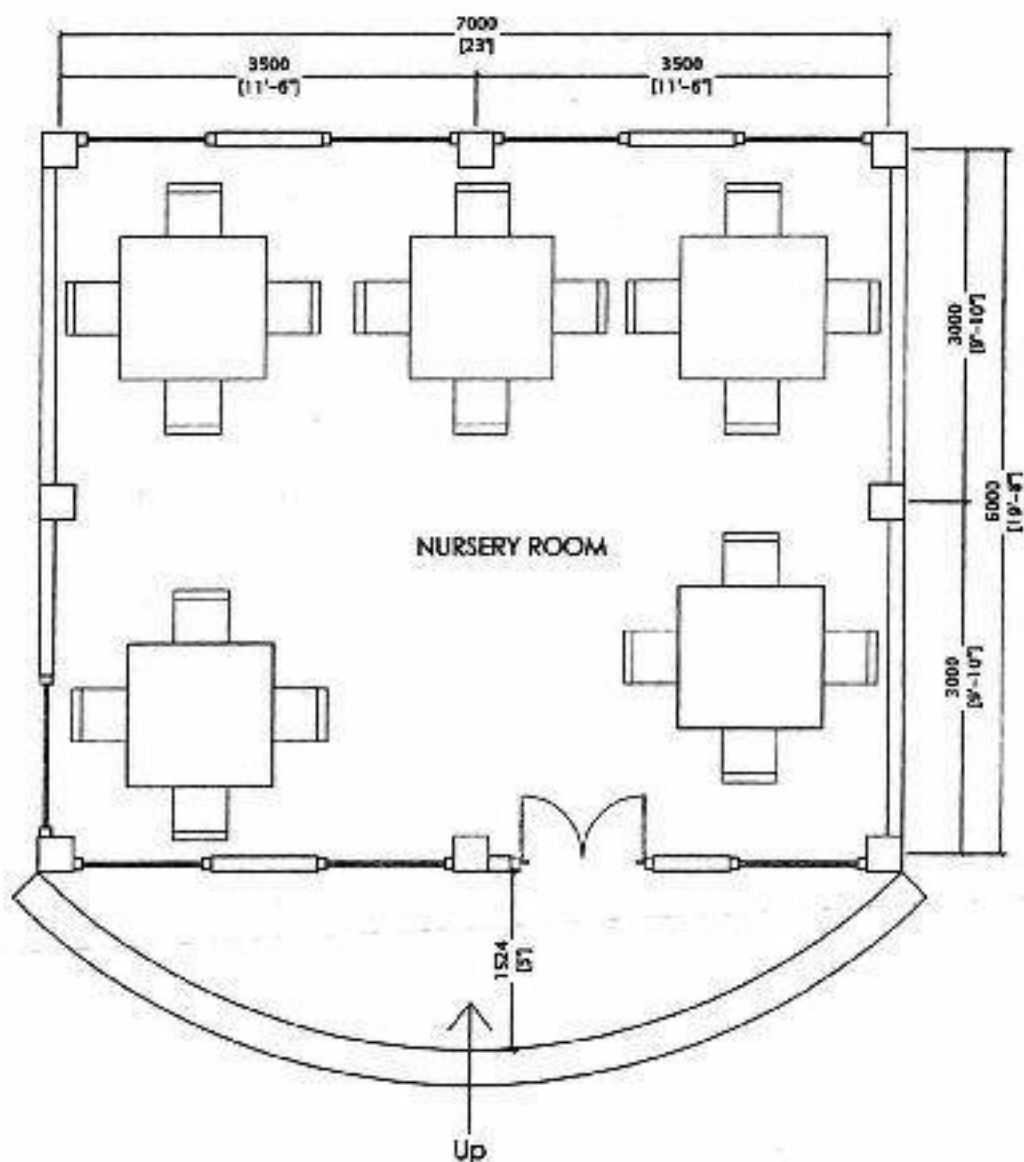
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NOTES	
ONLY G.FLOOR TO BE CONSTRUCTED	
COLUMN	300X300MM
PLINTH BEAM	250X300MM
ROOF BEAM	
CROSS BEAM	300X450MM
	250X400MM
ROOF	RCC
FLOOR	PCC
SKIRTING	HALF BRICK
WALL ABOVE SKIRTING	7.5CM BRICK
WINDOW	WOODEN
DOOR	PANELLED

BOYS P/S

BUILDING 1
FIRST FLOOR



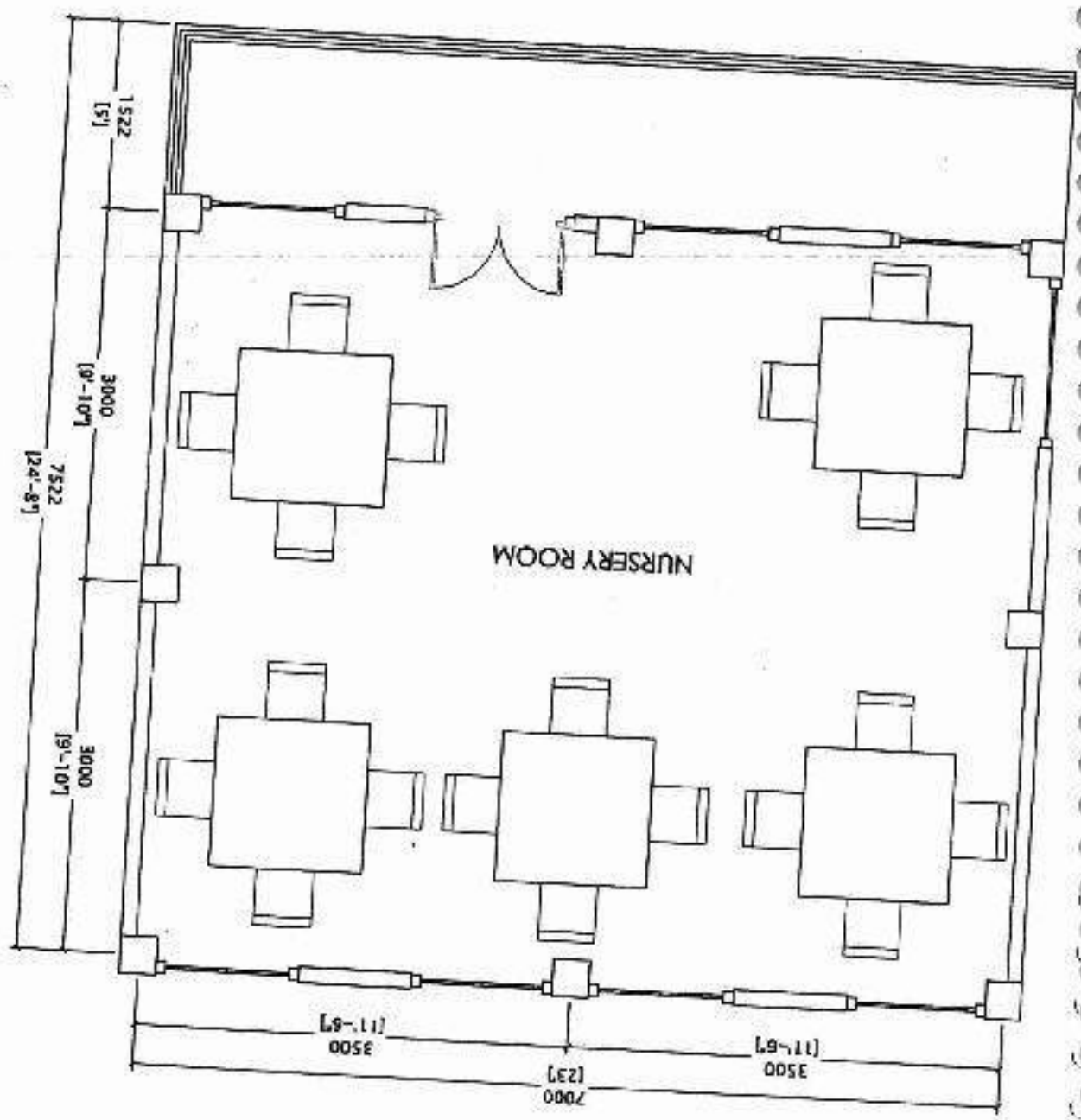


BUILDING 2
GROUND FLOOR

BOYS P/S

BOYS P/S

BUILDING 2
FIRST FLOOR



**DETAILED ESTIMATE FOR CONSTRUCTION OF ADDITIONAL CLASSROOM AT
RAMHLUN NORTH PRIMARY SCHOOL
(Based on PWD SOR 2013)**

Item No.	Particulars of Items and details of works	No.	L m	B m	H/D in m	Qty.	Unit	Rate	Amount
1/2.08	Earthwork in excavation over areas (exceeding 30cm in depth, 1.5m in width as well as 10sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.								
	(a) Ordinary and Hard Soil	1	6.40	4	1	25.6	cum	284.30	7,278.08
2/2.08	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling and compaction in 15cm layers as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.								
	(b) Hard Soil (pick work)								
	Foundation F ₁	6	1.5	1.5	1.5	20.25			
	Septic Tank	1	2.4	1.2	1.8	5.184			
	Soak pit	1	1.2	1.2	1.8	2.592			
						28.028	cum	327.20	9,170.11
3/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.								
	2/3 of qty taken from /2.08					15.68			
	Ramps	1	10.00	1.52	0.5	7.60			
	Filling for floor	1	5.00	7.00	0.45	15.75			
						42.03	cum	90.30	3,795.67
4.01	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:								
	(a) 1:1.5:3 (1 cement :1.5 course sand :3 stone aggregate 20mm nominal size)								
		1	5.00	7.00	0.08	2.80	cum	7628.30	21,353.64
5	Providing and laying cement concrete of specified grade excluding cost of centering and shuttering- All work upto plinth level.								
	1:5:10 (1 cement :5 course sand :10 stone aggregate 40mm nominal size)								
	(a) Foundation F ₁	6	1.5	1.5	0.1	1.35			
	Foundation F ₂	3	1.2	1.2	0.1	0.432			
	Base of Septic Tank	1	2.4	1.2	0.1	0.288			
	Base of Soak Pit	1	1.2	1.2	0.1	0.144			
						2.21	cum	4806.10	10,640.71

Item No.	Particulars of Items and details of works	No.	L m	B m	H/D in m	Qty.	Unit	Rate	Amount
6/5.01	Providing and laying in position reinforced cement concrete excluding cost of centering and shuttering and reinforcement in - All work upto plint level								
	(a) 1:1.5:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20mm nominal size)								
	Foundation F ₁	6	1.5	1.5	0.15	2.03			
	Foundation F2	3	1.2	1.2	0.15	0.65			
	Column C ₁	6	0.3	0.3	1.50	0.81			
	Column C2	3	0.2	0.2	1.20	0.14			
	Septic Tank Cover	1	2.4	1.2	0.1	0.29			
	Soak Pit Cover	1	1.2	1.2	0.1	0.14			
						4.06	cum	7832.30	31,791.31
7/5.03	Reinforce cement concrete work in walls, including attached pillasters, columns, pillars, posts, piers, abutments, return walls, retaining walls, struts, buttresses, string or lacing courses, fillets etc. upto floor five level excluding cost of centering shuttering etc complete.								
	(a) 1:1.5:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20mm nominal size)								
	Column C ₁	6	0.3	0.3	3.2	1.728			
	Column C2	3	0.2	0.2	2.8	0.336			
						2.064	cum	7847.20	16,196.62
8/5.04	Reinforce cement concrete work in beams, suspended floors, roofs having slope upto 15 degree landings, balconies, shelves, chajjas, lintels, bands, window sills, stair cases, cantilevers upto floor five level excluding cost of centering etc complete with 1:2:4(1 cement: 2 Coarse sand: 4 stone aggregate 20mm)								
	1:2:4(1 cement: 2 Coarse sand: 4 graded stone aggregate 20mm)								
	Beam B ₁	4	7.00	0.25	0.35	2.450			
	Beam B ₂	6	6.50	0.25	0.35	3.413			
	RCC gutter	1	20.00	0.1	0.45	0.900			
	Sub Total					6.763	cum	7387.20	49,955.94
21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.								
	(f) Thermo- Mechanically Treated bars.								
	(i) Main column Footing (qty b/f from 5.42(a))					2.03	cum		
	100 kg/cum					202.50	Kg		
	(ii) Main Column					2.87	cum		
	310 kg/cum					890.94	Kg		

Item No.	Particulars of Items and details of works	No.	L m	B m	H/D in m	Qty.	Unit	Rate	Amount
	Beam					5.88	cum		
	270 kg/cum					1582.88	Kg		
	Slab & Gutter					1.33	cum		
	100 kg/cum					133.20	Kg		
	Total Weight					2809.52	Kg	83.70	235,156.41
10/5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in -								
(a)	Foundations, footings, bases of columns etc. for mass concrete.								
	Foundation F ₁	6	4	1.5	0.1	3.600			
	Foundation F ₂	3	4	1.2	0.1	1.440			
						5.040	sqm	299.70	1,510.49
(c)	Columns, pillars, piers, abutments, posts and struts.								
	Column C ₁	6	4	4.70	0.3	33.840			
	Column C ₂	3	4	4.00	0.2	9.600			
						43.440	sqm	506.30	21,993.67
(d)	Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc.								
	Beam B ₁	4	1	7.00	0.25	7.000			
		8	2	7	0.35	39.200			
	Beam B ₂	6	1	6.50	0.25	9.750			
		12	2	6.50	0.35	54.600			
						110.550	sqm	400.10	44,231.06
(e)	Suspended floors, roofs, landings, shelves and their support, balconies								
	Septic Tank Cover	1	2	2.4	0.1	0.480			
		1	2		1.2	0.240			
	Soak Pit Cover	1	2	1.2	0.1	0.240			
		1	2		1.2	0.240			
	RCC gutter	1		20.00	0.20	4.000			
						5.200	sqm	536.30	2,788.76
1/8.06	Half brick masonry with first class brick in superstructure above plint level upto floor V level.								
a)	in cement mortar 1:3 (1 cement : 3 fine sand)								
	Outer walls								
	W ₁	2		7.00	3.2	44.800			
	W ₂	2		5.00	3.2	32.000			
	W ₃ (wall of Toilets)	4		2.28	2.8	25.536			
		1		3.60	3.3	11.880			
		6		1.30	2.8	21.840			
	Wall of Septic tank	1	2	2.40	1.8	8.640			
		1	2	1.20	1.8	4.320			
	Cupboard wall	2	2	1.80	0.4	2.880			
						151.896			
	Deduct for openings								
	Door D	1		1.2	2.1	2.520			
	Door D ₁	1		0.7	2.1	1.470			
	Windows & Ventilations	8		0.90	1.65	11.880			
	Ventilation	4		0.60	0.45	1.080			
						16.950			
						134.946	sqm	1040.90	140,465.29
08	Honey-comb half brick masonry with first								

Item No.	Particulars of items and details of works	No.	L m	B m	H/D in m	Qty.	Unit	Rate	Amount
	class brick in foundation upto one storey above and below ground level including curing, etc. complete.								
	a) in cement mortar 1 : 3 (1 cement : 3 fine sand)								
	Soak Pit	1	4	1.20	1.8	8.640	sqm	957.20	8,270.21
13/9.06	Providing 1st class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.								
	Door D	1	4.80	0.10	0.075	0.036			
	Door D ₁	1	4.20	0.10	0.075	0.032			
						0.068	cum	43660.30	2,988.36
14/10.0	Providing and fixing steel glazed doors, windows, ventilators of standard rolled steel sections, joints, mitred and welded with 15x3mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm size of 1:3:6 (1 cement : 3 coarse sand : 6 stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of glass panes with glazing clips and special metal sash putty of approved make complete including applying a priming coat of approved steel primer excluding the cost of metal beading and other fittings except necessary hinges or pivots as required.								
	(a) Using 3mm thick glass panes.								
	qty taken from	11/8.06				12.960	sqm	3604.40	46,713.02
17.05	Coursed rubble masonry(first sort) with hard stone in superstructure above plint level and upto five level with:								
	a) cement mortar 1 : 3 (1 cement : 3 fine sand)								
	Ramps	1	10.00	0.25	0.5	1.25			
	Protection (for hilly places)	1	5.00	1.2	2.47	14.82			
						16.07	m ³	5841.90	93,879.33
11	Providing and fixing 1st class local wood panelled shutters for doors etc. including M.S. butt hinges with necessary screws, etc. complete.								
	(c) 30 mm thick								
	Door D ₁	1	1.8	1.2		2.16	m ²		
	Door D ₂	1	1.8	0.9		1.62	m ²		
					Total	3.780	m ²	2400.00	9,072.00

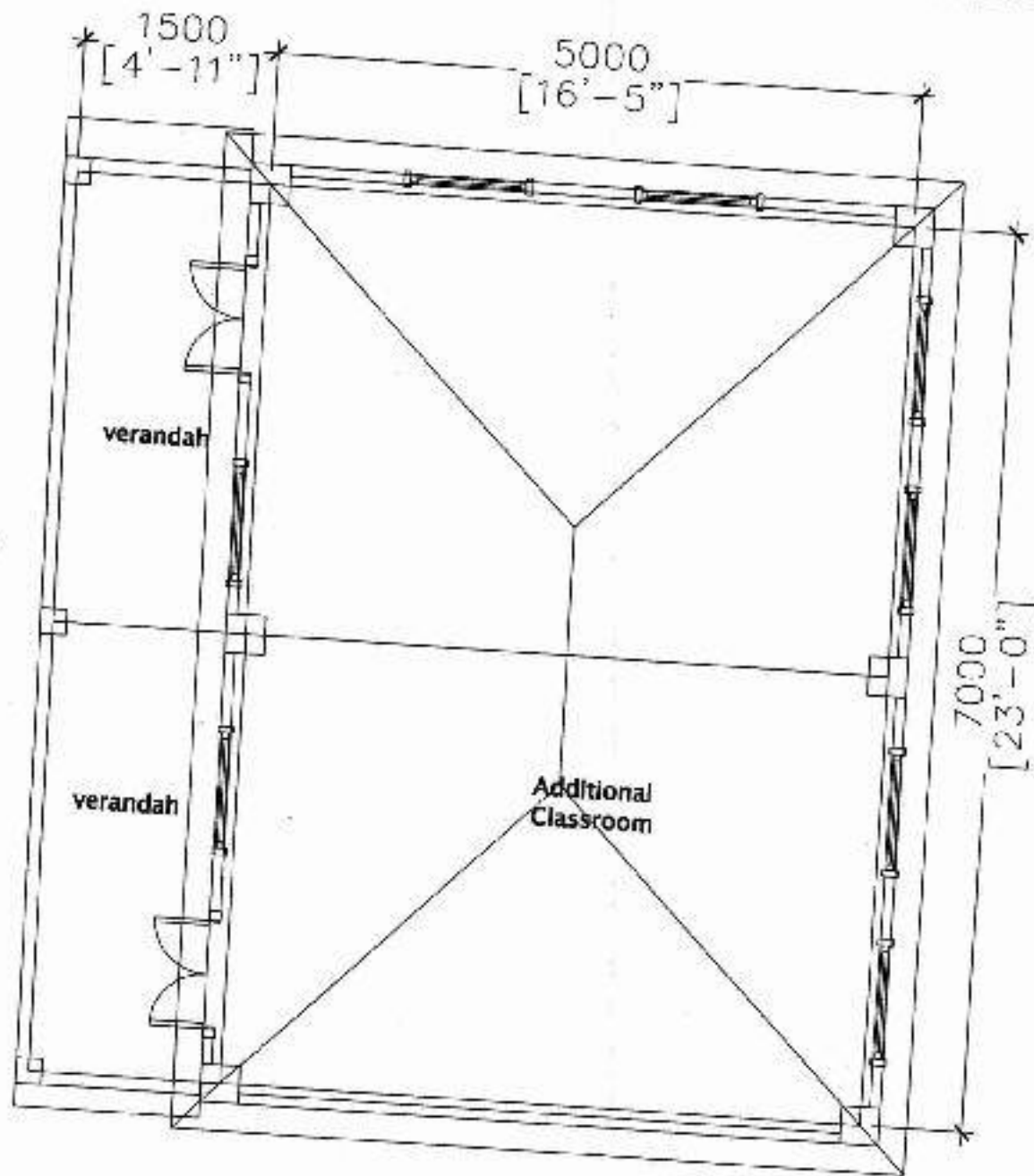
Item No.	Particulars of Items and details of works	No.	L m	B m	H/D in m	Qty.	Unit	Rate	Amount
17/12.01	Cement concrete flooring 1:2:4 (1 cement : 2 sand : 4 well graded stone aggregate 20mm size) finished with a floating coat neat cement including cement slurry etc. complete but excluding the cost of nosing of steps etc.								
	40mm thick.	1	7	1.2		8.400			
		1	7	5		35.000			
					Total	43.400	m ²	432.50	18,783.52
18/14.29	Providing and fixing Brass Tower Bolts (Socket Bolts) bright finished with necessary screws etc. complete.								
	(a) 300 mm								
	Doors 1					2	nos.	334.30	0.00
	(b) 250 mm								
	Doors 2					2	nos.	310.80	821.60
19/14.32	Providing and fixing brass handles with necessary screws, etc. complete					6			
	(a) 150 mm								
	Door & Door 1					4	nos.	238.10	1,428.80
20/14.33	Providing and fixing bright finished brass two lever mortise door lock with necessary screws, etc. complete.								
	(a) Union type					1	nos	1381.00	1,381.00
21/15.18	Supplying, fitting and fixing 3.20mm thick decolal asbestos board ceiling with necessary screws etc. complete excluding frame work of base and beading.								
		1	7	8.2		43.400	sqm	852.00	36,976.80
22/15.24	Providing and fixing 1st class local wood frame works for ceiling consisting of battens 50x25mm fixed over wood plugs embedded in wall with necessary nails or screws etc. including cost of wood plugs								
	Ceiling	6	7	0.05	0.07	0.147			
		12	5	0.05	0.07	0.210			
						0.357	m ²	298.20	106.46
23/15.49	Providing and fixing dressed 2nd class local wood shelves supported on wooden brackets fixed at suitable distance but not exceeding 75cm apart etc. complete.								
	(a) 35mm thick (For Cupboard)					1.500	m ²	2734.60	4,101.90
24/15.12	15mm cement plaster 1 : 3 (1 cement : 3 fine sand)								
	(1) Qty BF from item no-7/8.05 (Both sides)					269.89			
						269.89	m ²	206.10	55,824.74

Item No.	Particulars of items and details of works	No.	L m	B m	H/D in m	Qty.	Unit	Rate	Amount
25/21.61	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.								
	(a) Ready mix pink/grey primer.								
	Chaukhat for:-								
	Door D ₁	1	5.40	0.24		1.30	m ²		
	Door D ₂	1	4.50	0.24		1.08	m ²		
	Frame for:-								
	Door D ₁	1	2	1.20	2.1	5.04	m ²		
	Door D ₂	1	2	0.90	1.8	3.24	m ²		
	Cupboard Wood Plank	8	1.20	0.4		3.84	m ²		
					Total	14.50	m ²	45.00	652.32
26/21.75	Applying priming coat with ready mixed primer of approved brand and manufacture on plaster surface.								
	(a) Ready mix white primer.								
	Qty BF from item No-	24/21.12				269.89	m ²		
					Total	269.89	m ²	61.30	16,544.38
27/21.84	Applying one coat of distemper primer of approved brand and manufacture on wall surface.								
	Qty BF from item No-	21/15.18				43.40	m ²	26.10	1,132.74
29/21.79	Distemping with 1st quality acrylic washable distemper of approved brand and manufacture and of required shade and colour to give an even shade on new work (two or more coats).								
	Qty BF From item No-	27/21.84				43.40	m ²	102.80	4,451.52
31.92	Painting with synthetic enamel paint of approved brand and manufacture in all shades on new work (two or more coats).								
	Qty BF from item No-	25/21.61							
	(a) General quality					14.50	m ²	81.50	1,181.42
17.49	Providing and fixing on wall face SWRPVC soil, waste and vent pipes including jointing with rubber lubricant/cement solvent complete.								
	(a) 110mm dia.	1	5.00			5.00	Rm	383.80	1,919.00
17.51	Providing and fixing SWRPVC plain bend of required degree (45°) including jointing with rubber lubricant/cement solvent complete.								
	(a) 110 mm dia.	4					each	133.90	535.60
17.53	Providing and fixing single equal SWRPVC plain junction of required degree with access door (T-junction)								
	(a) 110x110x110mm.	5					each	197.00	985.00

Item No.	Particulars of items and details of works	No.	L m	B m	H/D in m	Qty.	Unit	Rate	Amount
33/17.59	Providing and fixing W.C. connection bend type (siphon) (SWRPVC) including jointing with rubber lubricant/ solvent cement.	4					each	269.60	1,078.40
34/17.07	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & CP. Flushbend with fitting & C.I. brackets, 40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required.								
	(a) WC pan with ISI marked white solid plastic seat and lid	2					each	9352.70	18,705.40
35/17.17	Providing and fixing vitreous china Bidets of Parryware/Hindware/Cera make with necessary fittings etc complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required.								
	(a) Bidets standard								
	(i) White	2					each	6863.10	13,726.20
36/17.26	Providing and fixing PVC low level flushing cistern with manually Controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.								
	(b) 10 litre capacity- coloured	2					each	1707.90	3,415.80
7/17.57	Providing and fixing SWRPVC socket including jointing with rubber lubricant/cement solvent.								
	(a) 110mm dia socket.	10					each	126.10	1,261.00
7.58	Providing and fixing ventilation cowl including jointing with rubber lubricant/cement solvent complete.								
	(a) 110mm SWRPVC vent cowl	2					each	78.80	157.60
17.27	Providing and fixing wash basin with C.I. brackets, 15mm C.P. brass traps, 32 mm CP, brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required.								
	(a) White Vitreous China Wash basin size 630x450mm with a single 15mm C.P. brass pillar tap.	2					each	4817.30	9,834.60

Item No.	Particulars of items and details of works	No.	L m	B m	H/D in m	Qty.	Unit	Rate	Amount
40/17.39	Providing and fixing Mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6mm thick hard board backing. Rectangular shape 500X400mm	2							
41/17.44	Providing and fixing C.P. brass towel rail with brackets fixed to wooden cleats with C.P. brass screws with concealed fitting arrangement of approved quality and (a) 750x20mm size.	4					each	1716.30	3,432.60
42/17.48	Providing and fixing toilet paper holder. (b) C.P. brass toilet paper holder of standard size.	2					each	1832.60	7,330.40
43/17.128	Providing and fixing liquid soap container with C.P. brass lid and brackets fixed to wooden cleats with the same materials etc completed (a) (i) Glass container with CP lid and brackets.	2					each	497.10	994.20
44/18.03	Providing and fixing G.I. pipes complete with G.I. fitting and clamps, including cutting and making good the walls etc. (internal works). (b) 20mm dia nominal bore (for connection	1	20.00		20.00				
		1	10.00		10.00				
					30.00	Rm	260.10		7,803.00
5/18.09	Providing and fixing brass stop cock of approved quality. (a) 15mm nominal bore				4.00	No	493.00		1,972.00
3.08	Providing and fixing brass bib cock of approved quality. (a) 15mm nominal bore				5.00	No	580.30		2,801.50
18.12	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work). (a) 15 mm nominal bore				10.00	No	174.80		1,748.00
	(b) 20 mm nominal bore				2.00	No	186.40		372.80
7	Providing Trapezoidal Polyester Coated Galvanised Steel Sheets Roofing of any colour of 1.06m width at all levels including fitting and fixing ridging with self drilling, self tapping screws, EPDM washers etc. complete excluding the cost of purlin, rafter and trusses.	1	10.00	8	80.00	sqm	1015.00		81,200.00
(i)	For 0.50mm thick:	1	10.00	8	80.00	sqm	1015.00		81,200.00

Item No.	Particulars of items and details of works	No.	L m	B m	H/D in m	Qty.	Unit	Rate	Amount
49/16.37	Providing Trapezoidal Polyester Coated Galvanised Steel Sheets Roofing of any colour of 1.05m width at all levels including fitting and fixing ridging with self drilling, self tapping screws, EPDM washers etc. complete excluding the cost of purlin, rafter and trusses.								
	(i) For 0.50mm thick:								
	Ridges & Valley	1	20.00			20.00	m	486.40	9,728.00
50/10.07	Structural steel work rivetted, bolted welded in built up sections, trusses and framed works, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. (In Tees, R.S. Joists, Angles, Flats and Channels.)								
	Steel truss @12kg/sqm								
51/18.02	Providing and fixing portable fire extinguisher					420.00	kg	90.80	38,136.00
	(a) Fire Extinguisher Water-CO2	1							
52/18.02	Providing and fixing on terrace (at all floor levels) Polyethylene storage tank of approved brand and manufacture with cover and mosquito proof coupling and suitable locking arrangement and making necessary connections for inlet, outlet and overflow pipes but without the cost for base support.					1.00	No	4924.20	4,924.20
	2 Nos of 4000 litres for Rain water harvesting					8000.00	litre	12.00	96,000.00
								Total	1,209,200.97
Chitification (enclosed)								Total	1,209,200.97
									90,800.00
								Total	1,300,000.97
								Say	1,300,000.00
(Rupees thirteen lakh) only.									



NOTES

DRAWING : FINAL DRAWING

SHEET : FIRST FLOOR PLAN



SHEET NO.

1

SCALE : 1:75

CONSTRUCTION OF ADDITIONAL
CLASSROOM AT RAMHLUN NORTH
PRIMARYS CHOOl

DRAWN BY

Detail Estimate for school building improvement and extension

Name of School : Electric DS I, Lunglei.

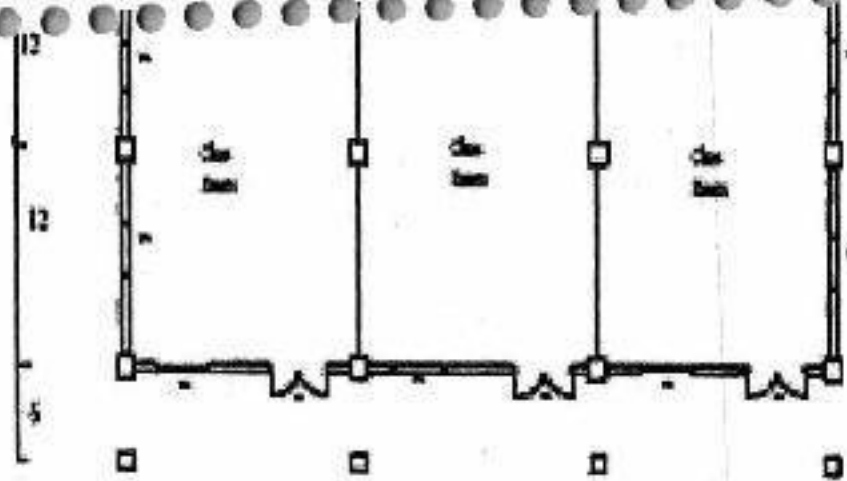
Item No.	Particulars of items and details of work	No.	L m	B m	H/D in m	Qty.	Unit	Rate	Amount
1/2.06	Earthwork in excavation over areas (exceeding 30cm in depth, 1.5m in width as well as 10sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.								
	(a) Ordinary and Hard Soil	1	12.15	8.10	2.13	168.57	cum	284.30	45,082.69
2/2.08	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling and compaction in 15cm layers as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.								
	(b) Hard Soil (pick work)								
	Foundation F ₁	12	1.22	1.22	1.83	32.62			
	Foundation F ₂	4	0.91	0.91	1.22	4.08			
						36.70	cum	327.20	12,007.79
3/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.								
	2/3 of qty taken from	2/2.08				24.47			
	Filling for floor	1	12.80	8.53	0.25	27.75			
	Ramps	1	1.22	1.22	0.13	0.19			
						52.41	cum	50.90	4,732.16
4/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:								
	(a) 1:3:8 (1 cement : 3 coarse sand : 8 stone aggregate 20mm nominal size) :								
	Foundation F ₁	12	1.22	1.22	0.10	1.81			
	Foundation F ₂	4	0.91	0.91	0.10	0.34			
						2.15	cum	5988.30	12,844.29
5/5.01	Providing and laying in position reinforced cement concrete excluding cost of centering and shuttering, finishing and reinforcement in -All work upto plinth level.								
	(a) 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)								
	Foundation F ₁	12	1.22	1.22	0.30	5.44			
	Foundation F ₂	4	0.91	0.91	0.30	1.02			
	Column C ₁	12	0.25	0.30	1.42	1.32			
	Column C ₂	4	0.15	0.15	0.81	0.08			
						7.85	cum	7832.30	61,506.66
6/5.03	Reinforced cement concrete work in walls including attached pilasters, columns, pillars, posts, piers, abutments, return walls, retaining walls, struts, buttresses, string or facing courses, fillets etc. upto floor five level excluding cost of centering shuttering etc complete.								
	(a) 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)								
	Column C ₁	12	2	0.25	0.30	3.05	5.66		
	Column C ₂	4	2	0.15	0.15	2.44	0.45		
						6.12	cum	7847.20	47,996.92

7/5.04	Reinforce cement concrete work in beams, suspended floors, roofs having slope upto 15° landings, balconies, shelves, chajjas, lintels, bands, window sills, stair cases, spiral stair cases, cantilevers upto floor five level excluding cost of centering shuttering etc complete. with 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 20mm)												
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)												
	Slab				12.80	8.53	0.13	13.88					
	Beam B ₁ (To Beam)	1			36.58	0.23	0.25	2.12					
	Beam B ₂ (To Beam)	1			36.58	0.23	0.25	2.12					
	Beam B ₃ (Top Beam)	1			36.58	0.23	0.25	2.12					
	Gutter	1			43.28	0.51	0.08	1.88					
								21.92	cum	7387.20	161,941.89		
8/10.10	Providing and fixing hand railing of 40mm nominal bore GI pipe with balustrade of 16mm dia HYSD bars placed at 10cm spacing welded together and a minimum height of 0.8m for staircase railing, balcony railing, parapet railing etc. including applying steel priming coat and steel painting complete.												
	Ramps Railing	2	2		4.27			17.07	Kg	148.10	2,493.75		
9/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.												
	(f) Thermo-Mechanically Treated bars.												
	Foundation Base-12mm												
	Foundation F ₁	12	18					208.10	Kg				
	Foundation F ₂	4	12					39.00	Kg				
	Column 16mm -4 nos												
	Column C ₁	12	4					616.50	Kg				
	Column C ₂	4	4					88.50	Kg				
	Column 12mm -4 nos												
	Column C ₁	12	4					348.79	Kg				
	Stirrups-6mm @150mm c-c												
	Column C ₁	12	31					252.30	Kg				
	Column C ₂	4	62					64.40	Kg				
	Beam B ₁ (To Beam) Main bar 12mm dia (classroom)	1	4					161.70	Kg				
	Beam B ₁ (To Beam) Stirrups 6mm dia (classroom)	1	421					85.00	Kg				
	Beam B ₂ (To Beam) Main bar 16mm dia (classroom)	1	5					337.18	Kg				
	Beam B ₂ (To Beam) Stirrups 6mm dia (classroom)	1	205					85.05	Kg				
	Beam B ₃ (Top Beam) Main bar 16mm dia (classroom)	1	5					337.18	Kg				
	Beam B ₃ (Top Beam) Stirrups 6mm dia (classroom)	1	205					85.05	Kg				
	slab-12mm												
	Lengthwise-Tensile	43		12.80				728.27	Kg				
	breadthwise	63			8.53			326.20	Kg				
	Lengthwise-Compression	43		12.80				728.27	Kg				
	Breadthwise	63			8.53			326.20	Kg				
	Total :							4835.63					
	Add 5% wastage							241.78					
	Total Weight							5077.43	Kg	83.70	424,981.10		
10/5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in -												
	(a) Foundations, footings, bases of columns etc. for mass concrete.												
	Foundation F ₁	12	4	1.22		0.10		5.85					
	Foundation F ₂	4	4	0.81		0.10		1.48					
								7.32	sqm	299.70	2,192.37		
	(c) Columns, pillars, piers, abutments, posts and struts.												
	Column C ₁	12	2	7.62	0.25			45.83					
		12	2	7.62		0.30		55.00					
	Column C ₂	4	4	8.68	0.15			13.87					
								114.70	sqm	508.30	58,074.78		

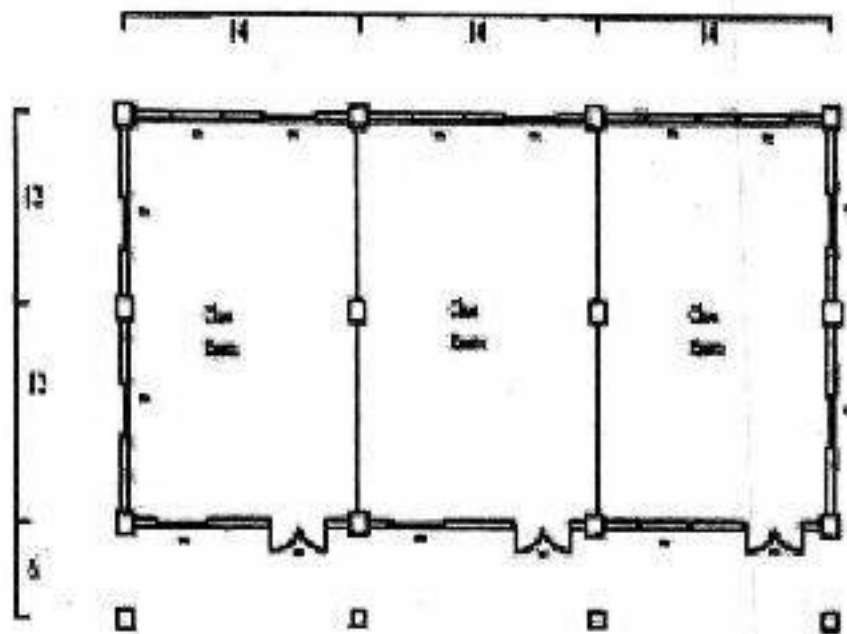
	(d) Lintels, beams, plinth beams, girders, brassumers and cantilevers, etc.												
	Beam B ₁ (2 x 300 mm)	1		42.67	0.23		9.75						
		1	2	42.67		0.25	21.68						
	Beam B ₂ (2nd floor)	1		42.67	0.23		9.75						
		1	2	42.67		0.25	21.68						
	Beam B ₃ (3rd floor)	1		42.67	0.23		9.75						
		1	2	42.67		0.25	21.68						
							84.30	sqm	400.10		37,728.06		
	e) Suspended floors, roofs, landings, shelves and their support, balconies and chajja, etc.												
	slab shuttering	1		12.80	8.53		109.25						
							109.254	sqm	538.30		58,592.81		
11/8.08	Half brick masonry with first class brick in super structure above plinth level upto floor V level												
	a) in cement mortar 1:3 (cement : 3 fine sand)	1											
	Brick upto skirting												
	Wall 1	2	2	12.80		3.05	156.08						
	Wall 2	4	2	7.32		3.05	178.37						
							334.45						
	Deduct for openings												
	Door D ₁	3	2	0.81		1.83	10.03						
	Windows W ₁	13	2	0.81		1.22	28.99						
							39.02						
							295.43	sqm	1040.80		307,514.82		
12/7.08	Coursed masonry with rectangular sized hard stone in foundation upto one storey above and below ground level including curing, etc. complete.												
	a) in cement mortar 1:3 (cement : 3 fine sand)	1											
	Tie verandah	1		12.80	0.30	0.30	1.15						
	Ramps-2 sides	1	2	1.22	0.61	0.25	0.38						
							1.53	cum	8875.30		10,211.22		
13/8.08	Providing 1st class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.												
	Door D ₁	6		5.03	0.10	0.08	0.23						
	Windows W ₁	28		3.81	0.10	0.08	0.77						
							1.00	cum	43880.50		43,883.38		
14/9.11	Providing and fixing 1st class local wood panelled shutters for doors etc. including M.S. butt hinges with necessary screws, etc. complete.												
	(a) 40 mm thick.												
	Door D ₁	6			0.78	1.88	7.88						
							7.88	sqm	2831.50		20,189.13		
15/9.13	Providing and fixing 1st class local wood panelled and glazed shutters using 3mm thick plate sheet glass for doors and windows etc. including M.S. butt hinges with necessary screws, etc. complete.												
	(a) 40 mm thick.												
	Windows W ₁	28			0.78	1.07	21.14						
							21.14	sqm	2583.10		54,806.31		
15/15.24	Providing and fixing 1st class local wood frame works for ceiling consisting of battens 50x25mm fixed over wood plugs embedded in wall with necessary nails or screws, etc. including cost of wood plugs complete.												
	Area	1		12.80	8.53		109.25						
							109.25	sqm	258.20		32,579.54		

17/15.18	Supplying, fitting and fixing 3.20mm thick decoctal asbestos board ceiling with necessary screws etc. complete excluding frame work of base and beading.												
	Area	1		12.80	8.53			109.25					
								109.25	sqm	852.00		93,084.39	
18/21.10	15mm cement plaster 1 : 3 (1 cement : 3 fine sand).												
	External wall												
	Wall 1	2	2	12.80		2.44		124.88					
	Wall 2	2	2	7.32		2.44		71.35					
	Internal wall												
	Wall 1	2	2	12.80		2.44		124.88					
	Wall 2	2	2	7.32		2.44		71.35					
		4	2	7.32		2.44		142.70					
	Slab (two surface area)	1	2	12.80		8.63		218.61					
								753.63					
	Deduct for opening												
	Door D ₁	6		0.91		1.83		10.03					
	Windows W ₁	25		0.91		1.22		28.99					
								39.02					
								714.61	sqm	242.20		173,078.59	
19/12.01	Cement concrete flooring 1:2:4 (1 cement : 2 sand : 4 well graded stone aggregate 20mm size) finished with a floating coat neat cement including cement slurry etc. complete but excluding the cost of nosing of steps etc.												
	(a) 40 mm thick (incl. Verandah)												
	School(basement)	1		12.80	8.53			109.25					
	Ramps floor Concreting -PCC	1		1.22	1.22			1.49					
								110.74	sqm	432.80		47,928.48	
20/14.29	Providing and fixing Brass Tower Bolts(Socket Bolts) bright finished with necessary screws etc. complete.												
	(a) 300 mm												
	Door D ₁	6	2					12	nos.	334.30		4,011.60	
21/14.32	Providing and fixing brass handles with necessary screws, etc. complete												
	(a) 150 mm												
	Door D ₁	6	4					24	nos.	238.10		5,714.40	
	(a) 125 mm												
	Windows W ₁	26	2					52	nos.	228.40		11,772.80	
22/14.33	Providing and fixing bright finished brass two lever mortise door lock with necessary screws, etc. complete.												
	(a) Union type							6	nos.	1381.00		8,288.00	
23/9.08	Providing 1st class local wood in trusses etc. including holding fixing in position supplying necessary fittings such as spikes bolts and nuts, nails etc and applying wood preservative for unexposed surface etc. complete.												
	(i) Rafter	10	2	5.18	0.10	0.08	0.80						
	Hip Rafter	4		4.57	0.10	0.08	0.14						
	End Rafter	4		7.32	0.05	0.08	0.11						
	Purlin-lengthwise	8	2	5.48	0.05	0.08	0.34						
	Purlin-breadthwise	8	2	3.68	0.05	0.08	0.23						
	Lean roof portion-verandah												
	Along the breadth main truss	18		2.13	0.10	0.08	0.28						
	purlin along the length	4	2	12.80	0.05	0.08	0.40						
								2.28					
	Add 5 % extra for wastages							0.11					
								Total	2.40	cum	38740.90	92,917.60	

All dimensions are in ft. Dimensions shall be read out and not to be scaled out.



Basement Plan



1st Floor Plan

PROPOSED CONSTRUCTION OF
DILAPIDATED SCHOOL
UNDER SSA MISSION

SCHOOL NAME :

Sheet No :1

Countersigned by:

Detail Estimate for school building improvement and extension

Name of School : JNMMS

Item No.	Particulars of items and details of work	No.	L m	B m	H/D in m	Qty.	Unit	Rate	Amount
1/2.06	Earthwork in excavation over areas (exceeding 30cm in depth, 1.5m in width as well as 10sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.								
	(a) Ordinary and Hard Soil	1	12.80	0.91	3.05	35.65	cum	284.30	10,143.60
2/2.08	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling and compaction in 15cm layers as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.								
	(b) Hard Soil (pick work)								
	Foundation F ₁	21	1.22	1.22	1.83	57.09			
	Foundation F ₂	5	0.91	0.91	1.22	5.10			
						62.19	cum	327.20	20,346.54
3/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.								
	2/3 of qty taken from	2/2.08				41.46			
	Filling for floor	1	16.46	9.14	0.25	38.23			
		1	5.49	7.32	0.25	10.19			
						89.88	cum	90.30	8,115.95
4/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering. All work upto plinth level.								
	(a) 1:3:6 (1 cement : 3 coarse sand : 6 stone aggregate 20mm nominal size) :								
	Foundation F ₁	21	1.22	1.22	0.10	3.17			
	Foundation F ₂	5	0.91	0.91	0.10	0.42			
						3.60	cum	5968.30	21,453.44
5/5.01	Providing and laying in position reinforced cement concrete excluding cost of centering and shuttering, finishing and reinforcement in -All work upto plinth level.								
	(a) 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)								
	Foundation F ₁	21	1.22	1.22	0.25	7.60			
	Foundation F ₂	5	0.91	0.91	0.25	1.05			
	Column C ₁	21	0.25	0.30	1.48	2.40			
	Column C ₂	5	0.15	0.15	0.87	0.10			
						11.35	cum	7832.30	88,907.60
6/5.03	Reinforced cement concrete work in walls including attached pilasters, columns, pillars, posts, piers, abutments, return walls, retaining walls, struts, buttresses, string or facing courses, fillets etc. upto floor five level excluding cost of centering shuttering etc complete.								
	(a) 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)								
	Column C ₁	21	1	0.25	0.30	3.05	4.36		
		18	1	0.25	0.30	3.05	4.25		
	Column C ₂	5	0.15	0.15	3.05	0.35			
		5	0.15	0.15	2.44	0.28			
						9.84	cum	7847.20	77,217.27

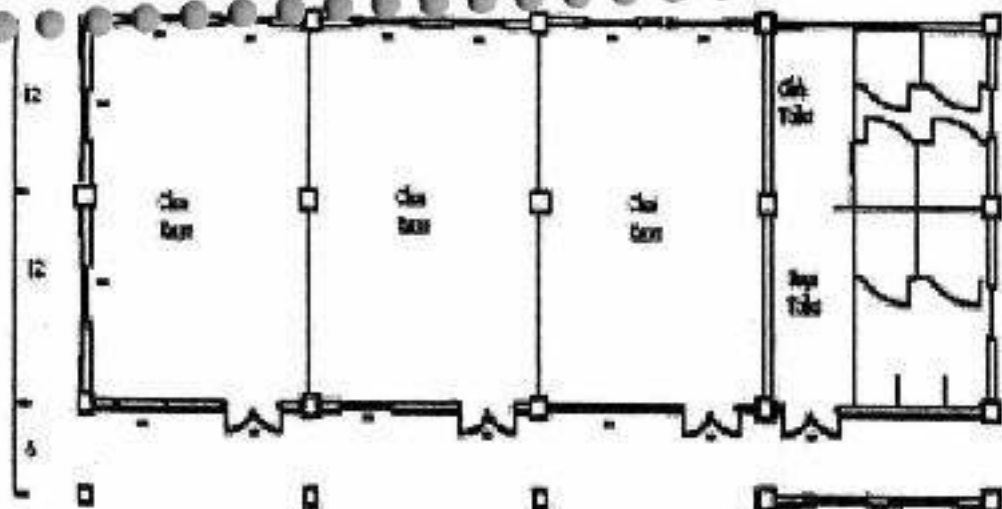
7/5.04	Reinforce cement concrete work in beams, suspended floors, roofs having slope upto 15° (landings, balconies, shelves, chajjas, lintels, bands, window sills, stair cases, spiral stair cases, cantilevers upto floor five level excluding cost of centering shuttering etc complete, with 1:2:4 (cement : 2 coarse sand : 4 stone aggregate 20mm)												
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)												
	Slab	1		12.80	9.14	0.10	11.89						
		1		5.49	7.32	0.10	4.08						
	Beam B _{1(Tc Beam)}	1		71.32	0.15	0.20	2.21						
		1		25.60	0.20	0.30	1.59						
	Beam B _{2(Tc Beam)}	1		71.32	0.25	0.30	5.52						
		1		25.60	0.25	0.30	1.98						
	Beam B _{3(Tc Beam)}	1		62.18	0.25	0.30	4.81						
		1		25.60	0.25	0.30	1.98						
	Gutter Block1	1		40.23	0.51	0.08	1.56						
	Gutter Block2	1		23.16	0.51	0.08	0.90						
	Stairs Riser-8inches, Tread-6.5 inches	1		8.10	1.83	0.13	1.42						
								37.94	alum	7387.20	280,234.43		
8/10.10	Providing and fixing hand railing of 40mm nominal bore GI pipe with ballusters of 16mm dia HYSD bars placed at 10cm spacing welded together and a minimum height of 0.8m for staircase railing, balcony railing, parapet railing etc. Including applying steel priming coat and steel painting complete.												
	Along the verandah(First floor)	1	4	23.16			277.98						
							277.98	Kg	146.10	40,612.53			
8/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.												
(f)	Thermo-Mechanically Treated bars,												
	Foundation Base-12mm												
	Foundation F ₁	21	16				364.13	Kg					
	Foundation F ₂	5	12				43.77	Kg					
	Column 16mm -4 nos												
	Column C ₁	21	4				674.32	Kg					
	Column C ₁	18	4				346.79	Kg					
	Column C ₂	5	4				131.85	Kg					
	Column C ₂	5	4				43.35	Kg					
	Stirrups-6mm @100mm c-c												
	Column C ₁	21	51				229.72	Kg					
	Column C ₁	18	31				119.68	Kg					
	Column C ₂	5	74				37.59	Kg					
	Column C ₂	5	25				12.70	Kg					
	Beam B _{1(Tc Beam)} Main bar 12mm dia (classroom)	1	4				225.42	Kg					
	Beam B _{1(Tc Beam)} Stirrups 6mm dia (classroom)	1	825				77.61	Kg					
	Beam B _{2(Tc Beam)} Main 16mm dia (classroom)	1	5				500.93	Kg					
	Beam B _{2(Tc Beam)} Stirrups 6mm dia (classroom)	1	656				134.06	Kg					
	Beam B _{3(Top Beam)} Main 16mm dia (classroom)	1	5				346.79	Kg					
	Beam B _{4(Top Beam)} Main 12mm dia (verandah)	1	5				56.90	Kg					
	Beam B _{3(Top Beam)} Stirrups 6mm dia (classroom)	1	433				92.87	Kg					
	Beam B _{4(Top Beam)} Stirrups 6mm dia (verandah)	1	127				12.90	Kg					
	slab-10mm dia												
	Block 1												
	Lengthwise-Tensile	46		12.80			398.12	Kg					
	breadthwise	64			9.14		770.65	Kg					
	Lengthwise-Compression	46		12.80			398.12	Kg					
	Breadthwise	64			9.14		770.65	Kg					
	Block 2												
	Lengthwise-Tensile	37		5.49			257.57	Kg					
	breadthwise	28			7.32		147.51	Kg					

	Lengthwise-Compression	37		6.49			257.57	Kg		
	Breadthwise	28			7.32		147.51	Kg		
	Stairs									
	Lengthwise-Tensile	10		6.10			11.47	Kg		
	breadthwise	31			1.83		10.67	Kg		
	Lengthwise-Compression	10		6.10			11.47	Kg		
	Breadthwise	31			1.83		10.67	Kg		
							Total :	6648.35		
							Add 5% wastage	332.42		
							Total Weight	6980.73	Kg	83.70
										584,291.12
10/5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in -									
(a)	Foundations, footings, bases of columns etc. for mass concrete									
	Foundation F ₁	21	4	1.22		0.10	10.24			
	Foundation F ₂	6	4	0.91		0.10	1.83			
							12.07	sqm	299.70	3,617.40
(c)	Columns, pillars, piers, abutments, posts and struts.									
	Column C ₁	21	2	7.57	0.25		80.79			
		21	2	7.57		0.30	96.96			
	Column C ₂	5	4	8.98	0.15		21.23			
							198.97	sqm	506.30	103,735.99
(d)	Lintels, beams, plinth beams, girders, dressumers and cantilevers, etc.									
	Beam B ₁ (Top Beam)	1		71.32	0.15		10.87			
		1	2	71.32		0.20	28.99			
	Beam B ₃ (Top Beam)	1		25.60	0.15		3.90			
		1	2	25.60		0.20	10.41			
	Beam B ₂ (Mid Beam)	1		71.32	0.25		18.12			
		1	2	71.32		0.30	43.48			
	Beam B ₂ (Mid Beam)	1		25.60	0.25		6.50			
		1	2	25.60		0.30	15.61			
	Beam B ₃ (Top Beam)	1		71.32	0.25		18.12			
		1	2	25.60		0.30	15.61			
	Beam B ₃ (Top Beam)	1		71.32	0.25		18.12			
		1	2	25.60		0.30	15.61			
	Beam B ₄ (Top Beam) .verandah	1		18.29	0.20		3.72			
		1	2	18.29		0.28	10.22			
							219.25	sqm	400.10	87,722.39
e)	Suspended floors, roofs, landings, shelves and their support, balconies and chajja, etc.									
	slab shuttering-Block 1	1		12.80	9.14		117.06			
	slab shuttering-Block 2	1		5.49	7.32		40.13			
							157.192	sqm	536.30	84,302.04
11/8.09	7.5 cm thick brick masonry with first class brick in superstructure above plinth level upto floor two level including curing, etc. complete.									
a)	in cement mortar 1:3 (1 cement : 3 fine sand)									
	Wall ₁	2	2	12.80		3.05	156.08			
	Wall ₂	5	1	7.32		3.05	111.48			
	Wall ₂	4	1	7.32		3.05	89.19			
	Wall ₃	2	2	7.32		3.05	89.19			

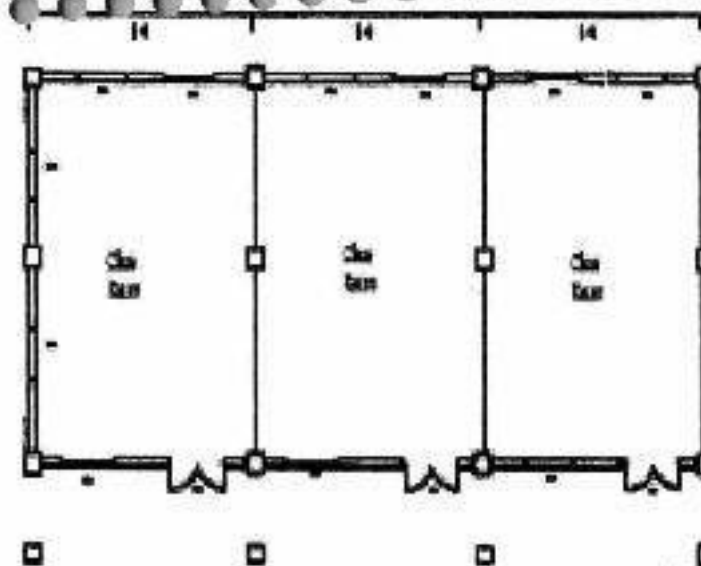
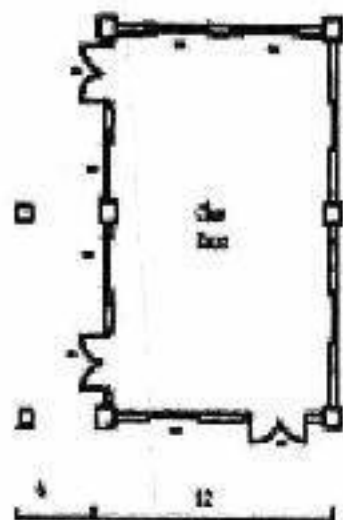
	Wall 4	2	2	3.86		3.05	44.69			
	Wall 5 Toilet boys & girls partition	1	1	3.86		3.05	11.15			
	Wall 6 Toilet boys partition	1	1	3.86		2.44	8.52			
		1	1	1.22		2.44	2.97			
	Wall 7 Toilet boys urinal partition	3	1	0.76		1.83	4.18			
	Wall 8 Girls toilet partition	1	2	3.56		2.44	17.84			
		1	2	1.22		2.44	5.95			
							541.53			
	Deduct for openings									
	Door D ₁	12	1	0.91		1.83	20.07			
	Door D ₂	6	1	0.81		1.83	6.69			
	Windows W ₁	16	2	0.91		1.22	35.67			
	Ventilation	1	2	0.91		0.46	0.84			
							83.27			
							478.28	sqm	656.10	313,789.57
12/7.05	Coursed masonry with rectangular sized hard stone in foundation upto one storey above and below ground level including curing, etc. complete.									
	a) in cement mortar 1:3 cement : 3 fine sand) (1									
	Tie verandah	1		21.96	0.30	0.30	1.98			
	Ramps-2 sides	1	2	1.22	0.30	0.25	0.19			
	Rivertment wall	1		7.92	0.30	1.22	2.90			
							5.06	cum	6675.30	33,773.58
13/9.06	Providing 1st class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.									
	Door D ₁	12	1	5.18	0.10	0.08	0.48			
	Door D ₂	6	1	4.57	0.10	0.08	0.21			
	Windows W ₁	16	2	3.96	0.10	0.08	0.99			
	Ventilation	1	2	2.44	0.10	0.08	0.04			
							1.88	cum	43650.30	73,149.06
14/9.11	Providing and fixing 1st class local wood panelled shutters for doors etc. including M.S. butt hinges with necessary screws, etc. complete.									
	(a) 40 mm thick.									
	Door D ₁	10			0.76	1.68	12.77			
	Door D ₂	6			0.46	1.68	4.60			
							17.37	sqm	2631.50	45,716.70
15/9.13	Providing and fixing 1st class local wood panelled and glazed shutters using 3mm thick plate sheet glass for doors and windows etc. including M.S. butt hinges with necessary screws, etc. complete.									
	(a) 40 mm thick.									
	Windows W ₁	16	2		0.76	1.07	25.01			
	Ventilation	1	2		0.76	0.30	0.46			
							26.48	sqm	2593.10	58,858.48
16/15.24	Providing and fixing 1st class local wood frame works for ceiling consisting of battens 50x25mm fixed over wood plugs embedded in wall with necessary nails or screws, etc. including cost of wood plugs complete.									
	Area Block 1	1		12.80	9.14		117.06			
	Area Block 2	1		7.32	7.32		53.51			
							170.57	sqm	298.20	50,863.97
7/15.18	Supplying, fitting and fixing 3.20mm thick decodal asbestos board ceiling with necessary screws etc. complete excluding frame work of bays and beading.									
	Area Block 1	1		12.80	9.14		117.06			
	Area Block 2	1		7.32	7.32		53.51			
							170.57	sqm	852.00	145,325.62

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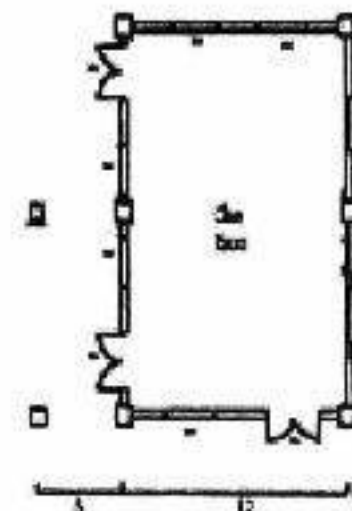
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Basement Plan



1st Floor Plan



PROPOSED CONSTRUCTION OF
DILAPIDATED SCHOOL
UNDER SSA MISSION

SCHOOL NAME: JNMM
Middle school

All dimensions are in ft. Dimensions shall be
read out and not to be scaled out.

Countersigned by:

ESTIMATE FOR CONSTRUCTION OF ADDITIONAL CLASSROOM AT CHAMPHAI PS-II WITH REPAIR

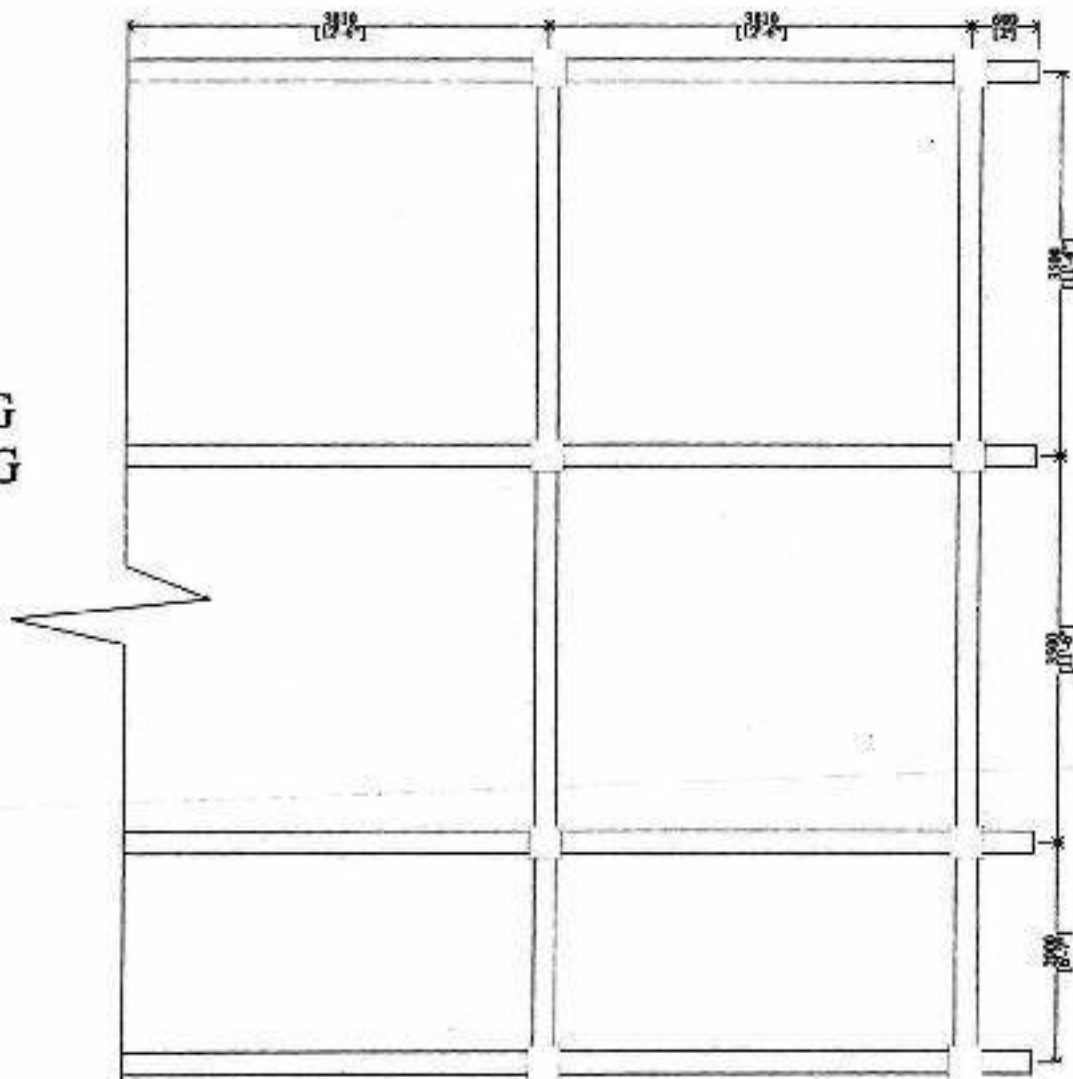
Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/2.08	Earthwork in excavation over areas (exceeding 30cm in depth, 1.5m in width as well as 10sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.								
	a) Ordinary and hard soil	1	9.00	2.00	0.98	cum	15.84		
						Total:	cum	15.84	284.30
2/2.08	Earth work in excavation in foundation trenches...								
	(b) Hard Soil (Pick work)								
	Column Foundations								
	C1	9	1.50	1.50	1.50	cum	30.38		
	C2	3	1.20	1.20	1.50	cum	6.48		
						Total:	cum	36.86	327.20
3/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each deposited layer by ramming and watering and lead upto 50 m and lift upto 1.50 meters.								
	Qty. BF from S.No.	2/2.08					36.86		
	Deduct from earthwork								
	Column								
	C1	9	0.35	0.35	1.05	cum	-1.153		
	C2	3	0.30	0.30	1.05	cum	-0.284		
	Footing								
	F1	9	1.50	1.50	0.35	cum	-7.098		
	F2	3	1.20	1.20	0.35	cum	-1.512		
	Column Foundation								
	f1	9	1.50	1.50	0.10	cum	-2.025		
	f2	3	1.20	1.20	0.10	cum	-0.432		
						Total:	cum	24.36	90.30
4/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth level ;								
	(a) 1: 3: 6								
	Column Foundation								
	C1	9	1.50	1.50	0.10	cum	2.025		
	C2	3	1.20	1.20	0.10	cum	0.432		
	Floor	1	9.00	8.22	0.10	cum	7.398		
						Total:	cum	9.855	5968.30
1/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
	(b) All work above plinth level up to Floor V level								
	Column								
	C1	9	0.35	0.35	5.165	cum	5.69		
	C2	3	0.30	0.30	5.165	cum	1.39		
	Beam								
		4	9.00	0.25	0.40	cum	3.60		
		5	8.22	0.25	0.40	cum	4.93		
	Slab	1	9.00	8.22	0.135	cum	9.99		
						GT::	25.61	9393.30	240,546.09
2/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete								
	(f) Thermo-Mechanically Treated Bars								
	Column Quantity from	1/5.35	7.09	310	Kg/cum	kg	2198		
	Beam Quantity from	1/5.35	8.53	270	Kg/cum	kg	2303		
	Slab Quantity from	1/5.35	9.99	100	Kg/cum	kg	999		
					Total:	kg	5499	83.70	460,345.63
3/5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in -								
	(c) Columns, pillars, piers, abutments, posts and struts.								
	Column								
	C1	9	1.40		5.17	sqm	65.079		
	C2	3	1.20		5.17	sqm	18.594		
					Total:	sqm	83.673	506.30	42,353.84

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
d)	Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc.								
	Beams.	4	9.00		1.05	sqm	37.900		
		5	8.22		1.05	sqm	51.786		
					Total:	sqm	89.59	535.30	48,044.97
e)	Suspended floors, roofs, landings, shelves and their support, balconies and chajja etc.								
	Slab	1	9.000		8.22	sqm	73.980		
		2	9.000		0.135	sqm	2.430		
		2	8.220		0.135	sqm	2.215		
					Total:	sqm	78.63	536.30	42,168.95
4/5.06	Half brick masonry with first class brick in superstructure above plinth level up to floor V level								
	(b) in cement mortar 1 : 4 (1 cement : 4 fine sand)								
		1	7.00	3.30		sqm	23.100		
		2	7.52	3.30		sqm	50.292		
	Deduction								
	Door	2	1.20	2.10		sqm	-5.040		
	Windows	6	0.90	1.65		sqm	-8.910		
					Total:	sqm	59.442	1032.90	61,397.64
5/9.06	Providing 1st class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.								
	Main door	4	1.20	0.100	0.10	cum	0.048		
		4	2.10	0.075	0.10	cum	0.063		
					Total =	cum	0.111	43650.30	4,846.29
6/9.37	Providing and fixing 30mm thick panelled door shutter comprising of styles and rails of seasoned teak wood with panels of phenol formaldehyde synthetic resin bonded particle board 19mm thick with both sides teak ply veneering on both faces...								
	main door	2		1.20	2.10	sqm	5.04		
					Total =	sqm	5.04	6427.60	32,395.10
7/10.1	Providing and fixing prefabricated M.S. equal angle in chaukhat for doors, windows and clerestory windows including fixing with 40 x 5mm M.S. holdfast 40cm long at required spacing and applying priming coat with approved steel primer etc. complete.								
	(a) Using 50 x 50 x 5mm M.S. angle.								
	Window + Ventilation	6	2.70	4.95		rm	80.19		
					Total =	rm	80.19	636.40	51,193.30
8/10.0	Providing and fixing steel glazed doors, windows, ventilators of standard rolled steel sections, joints.								
6	(a) 3mm thick glass pane	6	1.65	0.90		sqm	8.91		
					Total =	sqm	8.91	3604.40	32,115.20
9/10.0	Providing and fixing M.S. Grills with 16mm flats M.S. of desired sections, fixed and welded in position in the pre-fabricated steel framed windows etc. including applying priming coat etc. complete.								
7	(a) Using 3mm thick section.								
		6	1.65	0.90		sqm	8.91		
					Total =	sqm	8.91	1084.60	9,863.79
10/21.	15mm cement plaster 1 : 3								
10	(1 cement : 3 fine sand).								
	Qty. B.F from S. No.	4/6.06				sqm	59.442		
	both sides					####			
	Ceiling	1	9.00		8.22	sqm	73.980		
					Total::	sqm	192.86	242.20	46,711.66
11/21.	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.								
1	(a) Ready mix pink/grey primer.								
	Chaukhat for								
	Main door	4	1.20		0.30	sqm	1.440		
		4	2.10		0.30	sqm	2.520		
	Door panel (both sides)	2	1.20		2.10	sqm	5.040		
					Total::	m²	9.00	45.00	405.00
12	Painting with synthetic enamel paint of approved brand and manufacture in all shade on new work								

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
	a) General quality	Qty. BF from S/N 11/21.51				m ²	9.00	81.50	733.50
13/21.81	Finishing walls with water proofing cement paint of approved brand and manufactured and of required shade on new work (three or more coats) to give an even shade.								
	(b) Premium exterior emulsion like weathercoat, weather shield etc.								
	Qty. BF from S/No.	10/21.10		192.86		m ²	192.86		
	Total::					m ²	192.86	53.00	17,936.35
14/21.80	Applying one coat of cement primer of approved brand and manufacture on wall surface								
	Qty. BF from S/No.	10/21.10				m ²	192.86		
	Total						192.86	53.80	10,376.08
15/14.07	Providing and fixing M.S. Tower bolts (socket bolts) bright finished with necessary screws etc. complete.								
	(a) 300 mm					Nos	4.00	110.200	440.80
16/14.10	Providing and fixing M.S. handles with necessary screws, etc. complete								
	(a) 150mm					Nos	4.00	73.200	292.80
18/12.01	Cement concrete flooring 1:2:4 (1 cement : 2 sand : 4 well graded stone aggregate 20mm size) finished with a floating coat neat cement including cement slurry etc. complete but excluding the cost of nosing of steps etc.								
	For floor	1	9.00	8.22		m ²	73.98		
	Total::					m ²	73.98	432.80	32,018.54
19/20.17	Applying double coated cement slurry with water proofing chemical (SUPER latex chemical) in proportion 1 : 4 : 7 (1 latex : 4 water : 7 cement) including cleaning the treated surfaces with brushes etc.@ 0.158kg/sqm								
	For floor (Qty bf from Item No.)	18/12.01				m ²	73.98		
	Total::					m ²	73.98	148.50	10,986.03
	G.T.::								1,222,580.76
	Add 7.5% for internal Electrification as well as installations, complete								91,692.06
	Add 5% for Furniture								61,128.04
	Total								1,375,380.86
	Add 7.23% Champhai Division								99,440.04
	G.Total								1,474,820.89
	say								1,474,800.00
	Add extra amount for repairing of walls and roof inclusive of cost indices, etc. complete								525200.00
	GRAND TOTAL								2,000,000.00
	(Rupees twenty lakh) only.								

Champion PS-II

EXISTING
BUILDING

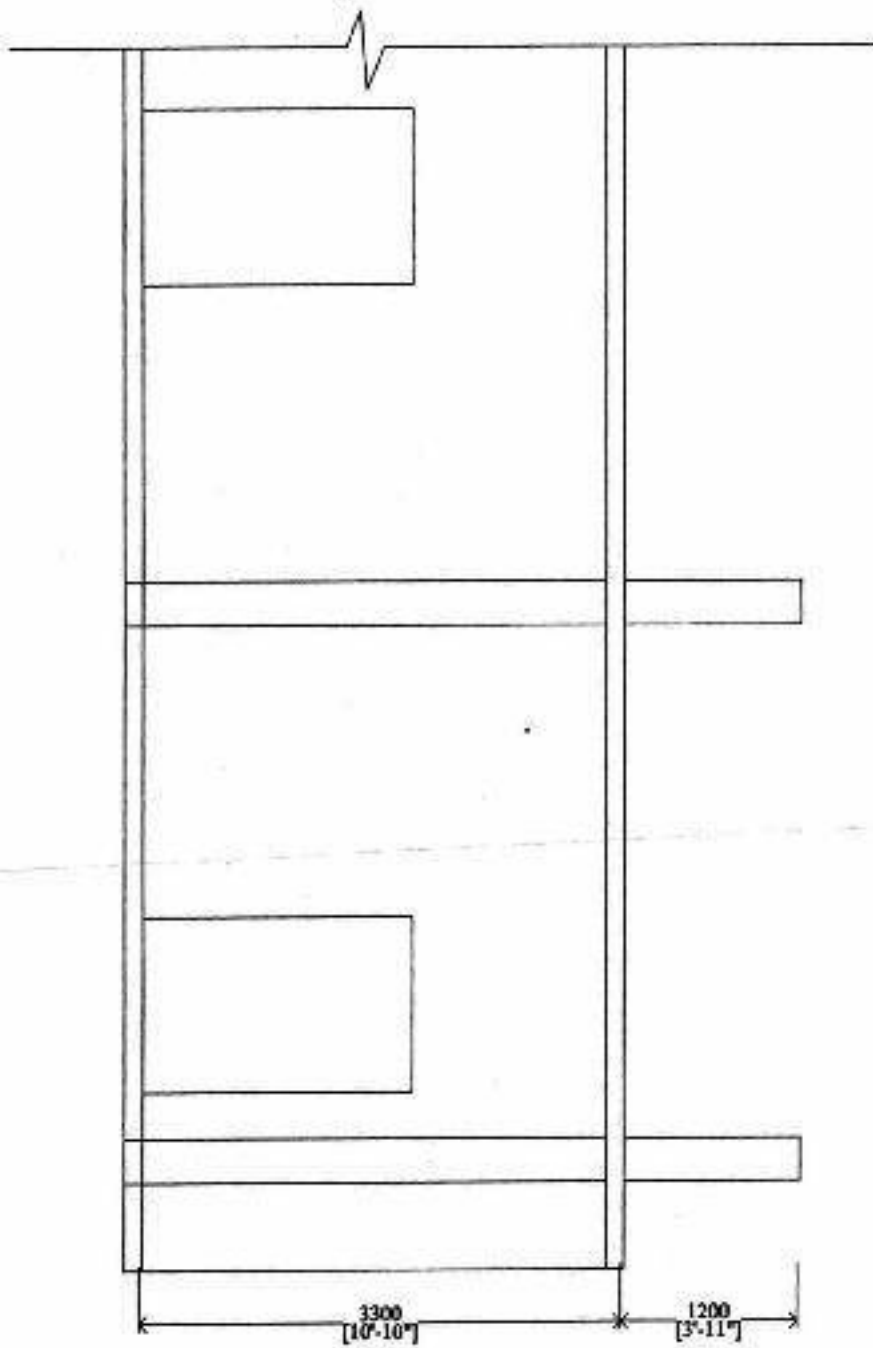


BEAM LAYOUT

champhai BS. II

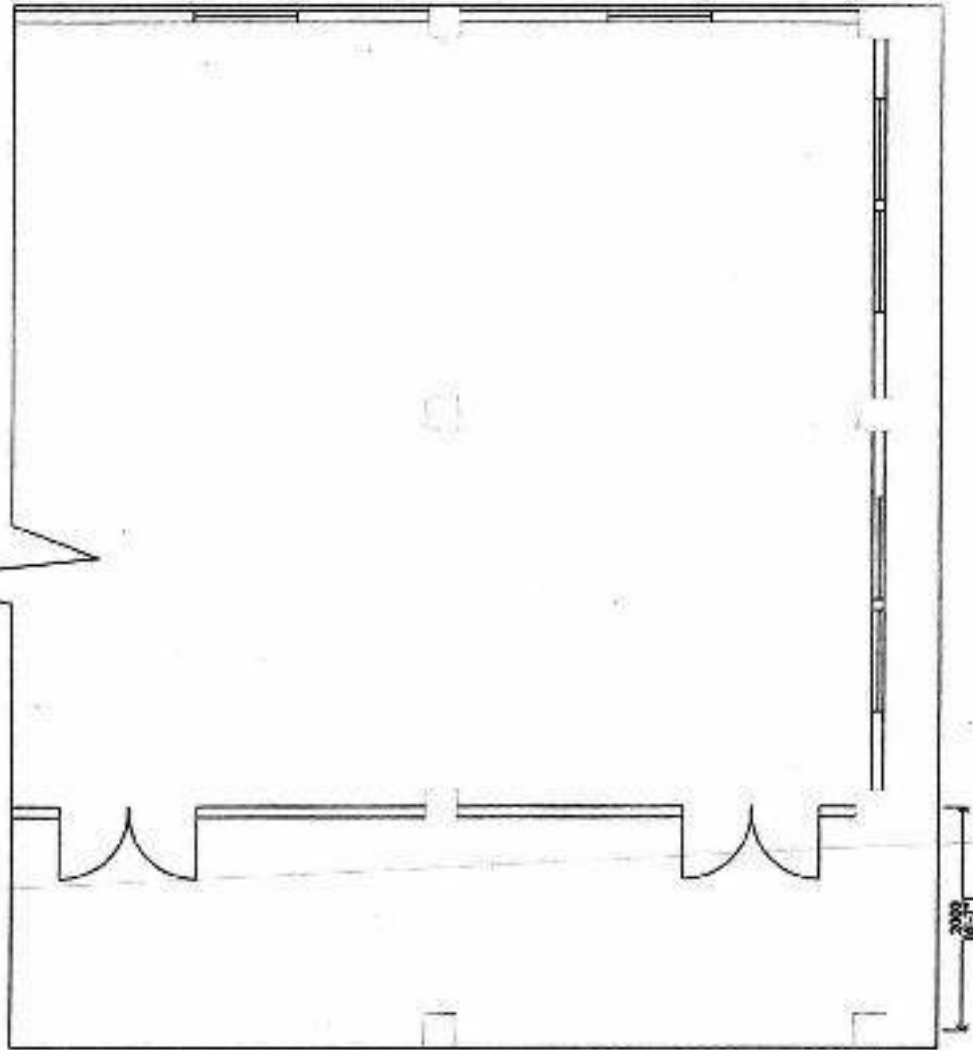
EXISTING
BUILDING

FRONT ELEVATION



Champhai PS-II

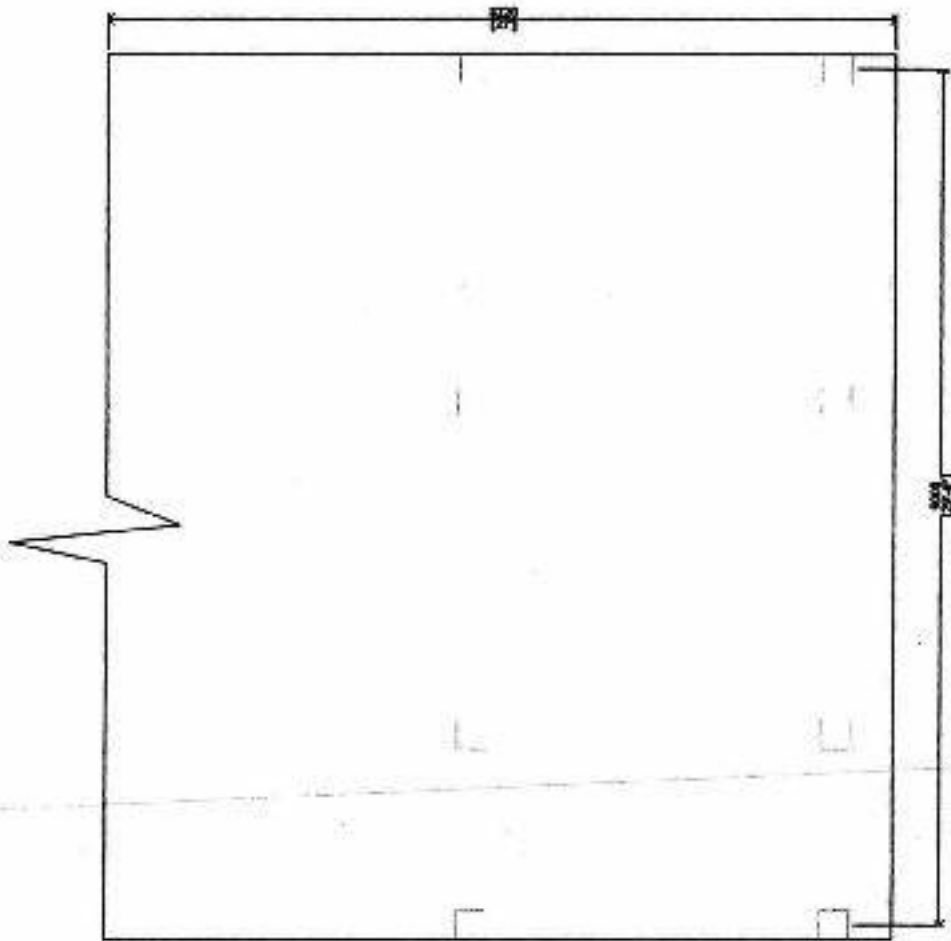
EXISTING
BUILDING



CHAMPHAI PS-II
PLAN

Champlain 15-11

EXISTING
BUILDING



SLAB AREA

**DETAILED ESTIMATE FOR THE UPGRADATION OF
SCHOOL INFRASTRUCTURE OF MODEL SCHOOL (GOVT. P/S-I) KOLASIB**

Sl No	SOR No	Name of Item	Nos		L	B	H	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12
A. NEW CONSTRUCTION OF ROOM											
1	2.08	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.									
		(a) Ordinary soil									
		Post		8	1.20	1.20	1.20	13.82	cum	218.10	3014.00
2	2.18	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.									
				1	3.50	6.00	1.50	31.50	cum		
				1	2.00	3.50	0.60	4.20	cum		
		T.T						35.70	cum	90.30	3224.00
3	4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:									
		(a) 1:3:6 (1 cement : 3 coarse sand : 6 stone aggregate 20mm nominal size)									
				8	1.20	1.20	0.12	1.38	cum	5968.30	8236.00
4	5.01	Providing and laying in position reinforced cement concrete excluding cost of centering and shuttering, finishing and reinforcement in - All work upto foundation & plinth level									
		(b) 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)									
				8	1.20	1.20	0.12	1.38	cum	7101.00	9799.00
5	5.03	Reinforced cement concrete work in walls including attached pillars, columns, pillars, posts, piers, abutments, return walls, retaining walls, struts, buttresses, string or lacing courses, fillets etc.									
		(b) 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)									
		below G. Floor		8	0.25	0.25	1.20	0.60	cum		
		G. Floor level		8	0.25	0.25	3.00	1.50	cum		
		T.T						2.10	cum	7116.40	14944.00

Sl No	SOR No	Name of Item	Nos		L	B	H	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12
6	5.04	Reinforce cement concrete work in beams, suspended floors, roofs having slope upto 15° landings, balconies, shelves, chajjas, lintels, bands, window sills, stair cases, spiral stair cases, cantilevers upto floor five level excluding cost of centering shuttering etc complete. with 1:2:4 (cement : 2 coarse sand : 4 stone aggregate 20mm)									
		Plinth level Beam									
		Tie beam - 1		3	3.50	0.20	0.30	0.63	cum		
		Tie beam - 2		9	2.50	0.20	0.30	1.35	cum		
		Ground floor Beam									
		Tie beam - 1		2	3.50	0.20	0.30	0.42	cum		
		Tie beam - 2		6	2.50	0.20	0.30	0.90	cum		
		T.T						3.30	cum	7387.20	24378.00
7	5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in -									
		(c) Columns, posts and struts, etc									
		below G Floor	4	8		0.25	1.20	9.60	sqm		
		G. Floor level	4	8		0.25	3.00	24.00	sqm		
		T.T						33.60	sqm	506.30	17012.00
		(d) Lintels, beams, plinth beams, etc.									
		Tie beam - 1	5	2		3.50	0.30	10.50	sqm		
			5	1		3.50	0.20	3.50	sqm		
		Tie beam - 2	15	2		2.50	0.30	22.50	sqm		
			15	1		2.50	0.20	7.50	sqm		
		T.T						44.00	sqm	400.10	17604.00
8	5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.									
		(f) Thermo-Mechanically Treated bars.									
		For Foundation		100	per	1.38	cum	138.00	kg		
		For Column		310	per	2.10	cum	651.00	kg		
		For Beam		270	per	3.30	cum	891.00	kg		
		T.T						1680.00	kg	83.70	140616.00
9	6.06	Half brick masonry with first class brick in superstructure above plinth level upto floor V level.									
		(a) in cement mortar 1:4 (1 cement : 4 coarse sand)									
		Wall Area		2	5.00	3.00		30.00	sqm		
				6	2.50	3.00		45.00	sqm		
		T.T						75.00	sqm		
		Deduction for Opening									
		W		8	1.22	0.91		8.92	sqm		
		V		8	0.45	0.91		3.28	sqm		
		D1		1	1.83	1.22		2.23	sqm		

Sl No	SOR No	Name of Item	Nos		L	B	H	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12
							T.T	14.43	sqm		
		Net Area		(75.00 - 14.43)			T.T	60.57	sqm	1032.90	62563.00
10	7.01	Regular coursed rubble masonry with hard stone in foundation upto one storey above and below ground level including curing, etc. complete.									
		(b) in cement mortar 1 : 4 (Cement : 4 fine sand)									
			1	3.50	0.73	2.00	5.11	cum			
			1	6.00	0.73	2.00	8.76	cum			
			2	3.50	0.40	1.20	3.36	cum			
							T.T	17.23	cum	4832.10	83257.00
11	9.06	Providing 1st class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.									
		W - Vertical	16	1.22	0.10	0.10	0.20	cum			
		V - Vertical	16	0.45	0.10	0.10	0.07	cum			
		W - Horz	16	0.91	0.10	0.10	0.15	cum			
		V - Horz	16	0.91	0.10	0.10	0.15	cum			
		D1 - Vertical	2	1.83	0.10	0.10	0.04	cum			
		D1 - Horz	2	1.22	0.10	0.10	0.02	cum			
							T.T	0.63	cum	43660.30	27506.00
12	9.08	Providing 1st class local wood in trusses etc. including hoisting fixing in position supplying necessary fittings such as spikes bolts and nuts, nails etc and applying wood preservative for unexposed surface etc. complete.									
		trusses	4	2.95	0.08	0.10	0.09				
			2	2.00	0.08	0.10	0.03				
			12	3.85	0.08	0.10	0.37				
			2	2.92	0.08	0.10	0.05				
			2	12.50	0.08	0.10	0.20				
			4	2.00	0.08	0.10	0.06				
		purlin	2	6.90	0.05	0.05	0.03				
			2	1.50	0.05	0.05	0.01				
			2	0.30	0.05	0.05	0.00				
			2	4.80	0.05	0.05	0.02				
			2	2.60	0.05	0.05	0.01				
			2	4.50	0.05	0.05	0.02				
			2	2.20	0.05	0.05	0.01				
			3	3.50	0.05	0.05	0.03				
							T.T	0.93	cum	38740.90	36029.00
11	9.11	Providing and fixing 1st class local wood <i>panelled</i> shutters for doors etc. including M.S. butt hinges with necessary screws, etc. complete.									

[illegible]

Sl No	SOR No	Name of Item	Nos		L	B	H	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12
		(e) - 0.63mm thick with zinc coating not less than 275gm/m ²									
				2	7.00	3.20		44.80			
				2	6.00	3.20		38.40			
		Verandah		1	2.00	3.50		7.00			
		T.T						90.20	sqm	432.60	39021.00
21	16.06	Providing ridges or hips of width 60 cm over all width plain G.S. sheet fixed with polymer coated J. or L hooks, bolts and nuts 8 mm dia. G.I. limpet and bitumen washers complete.									
		(b) - 0.63mm thick with zinc coating not less than 275gm/m ²									
				4	4.40	0.60		10.56			
				1	1.50	0.60		0.90			
		T.T						11.46	sqm	368.50	4223.00
22	21.07	12mm cement plaster 1 : 4									
		Walling both side		2	60.57			121.14			
		Floor		1	30.00			30.00			
		T.T						151.14	sqm	190.40	28777.00
23	21.60	Applying one coat of cement primer of approved brand and manufacture on wall surface.									
		Wall both side		2	60.57			121.14	sqm	53.80	6517.00
24	21.77	Distempering with oil bound washable distemper of approved brand and manufacture and of required shade and colour to give an even shade on new work (two or more coats).									
		Wall area Internal						121.14	sqm	71.00	8601.00
25	21.81	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade on new work (three or more coats) to give an even shade.									
		Wall area External						121.14	sqm	93.00	11266.00
	21.61	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.									
		(a) Ready mix white primer.									
		Door paneled		2	2.23	(Both side)		4.46			
		Windows		2	12.20	(Both side)		24.40			
		Chaukats	3	16	1.22	0.10		5.86			

Sl No	SOR No	Name of Item	Nos		L	B	H	Qty	Unit	Rate	Amount	
1	2	3	4	5	6	7	8	9	10	11	12	
			3	16	0.45	0.10		2.16				
			3	16	0.91	0.10		4.37				
			3	16	0.91	0.10		4.37				
			3	2	1.83	0.10		1.10				
			3	2	1.22	0.10		0.73				
		T.T						47.45	sqm	45.00	2135.00	
27	21.92	Painting with synthetic enamel paint of approved brand and manufacture in all shade on new work (two or more coats).										
		(a) General quality										
		Door ,Windows panelled and chaukats						47.45	sqm	81.50	3867.00	
ToTal											Rs.	607,022.00
Add 5.00% for for internal electrification											Rs.	30,351.00
Sub-Total (A)											Rs.	637,373.00

B. RENOVATION & REPAIRING OF BUILDING

1	9.06	Providing 1st class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.								
		W - Vertical	40	1.22	0.10	0.10	0.49	cum		
		W - Horz	40	0.91	0.10	0.10	0.36	cum		
		D1 - Vertical	16	1.83	0.10	0.10	0.29	cum		
		D1 - Horz	16	1.22	0.10	0.10	0.20	cum		
		T.T					1.34	cum	43660.30	58505.00
2	9.08	Providing 1st class local wood in trusses etc. including hoisting fixing in position supplying necessary fittings such as spikes bolts and nuts, nails etc and applying wood preservative for unexposed surface etc. complete.								
		trusses	48	3.20	0.08	0.10	1.23			
			24	2.50	0.08	0.10	0.48			
			2	2.40	0.08	0.10	0.04			
		purlin	2	11.00	0.05	0.05	0.06			
			2	11.50	0.05	0.05	0.06			
			2	19.50	0.05	0.05	0.10			
			2	18.80	0.05	0.05	0.09			
			3	13.20	0.05	0.05	0.10			
			3	14.10	0.05	0.05	0.11			
		T.T					2.27	cum	38740.90	87942.00
	9.11	Providing and fixing 1st class local wood <i>panelled</i> shutters for doors etc. including M.S. butt hinges with necessary screws, etc. complete.								

SI No	SOR No	Name of Item	Nos		L	B	H	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12
		(b) 35 mm thick.									
		D1		8	1.83	1.22		17.85	sqm	2515.80	44907.00
4	9.15	Providing and fixing 1st class local wood <i>glazed</i> shutters using 3mm thick plate sheet glass for doors, windows, etc. including M.S. butt hinges with necessary screws complete.									
		(b) 35 mm thick.									
		W		20	1.22	0.91		22.30	sqm	2255.90	50307.00
5	13.20	Providing and fixing 12mm thick plywood plain ply board walling with necessary screws etc. complete.									
		Room partition		7	5.40	2.70		102.06	sqm	807.30	82393.00
6	14.06	Providing and fixing M.S. sliding door bolts (aldrops) bright finished and/ or black enamelled with nuts and screws etc. complete.									
		(a) 300 x 16 mm						8	each	246.20	1970.00
7	14.07	Providing and fixing M.S. tower bolts (socket bolts) bright finished with necessary screws etc. complete.									
		(b) 250 mm Door						16	each	95.20	1523.00
		(d) 150 mm Windwos						40	each	64.10	2564.00
8	14.10	Providing and fixing M.S. handles with necessary screws, etc. complete.									
		(a) 150 mm						72	each	73.20	5270.00
9	14.57	Providing and fixing M.S. hooks and eyes.									
		(a) 200 mm						40	each	38.00	1520.00
10	16.01	Providing corrugated G.S. sheet roofing fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (upto a pitch of 60 degrees) excluding the cost of purlins, rafters and trusses.									
		(e) - 0.63mm thick with zinc coating not less than 275gm/m ²									
				2	21.50	3.20		137.60			
				2	23.50	3.20		150.40			
		Verandah		1	16.00	2.00		32.00			
				1	17.00	2.00		34.00			

Sl No	SOR No	Name of Item	Nos		L	B	H	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12
		T.T						354.00	sqm	432.60	153140.00
11	16.06	Providing ridges or hips of width 60 cm over all width plain G.S. sheet fixed with polymer coated J. or L hooks, bolts and nuts 8 mm dia. G.I. limpet and bitumen washers complete.									
		(b) - 0.63mm thick with zinc coating not less than 275gm/m ²									
				6	4.20	0.60		15.12			
				1	22.50	0.60		13.50			
		T.T						28.62	sqm	368.50	10546.00
12	21.07	12mm cement plaster 1 : 4									
		Wall		19	2.80	3.00		159.60	sqm	190.40	30388.00
13	21.21	15mm cement plaster 1 : 4 (1 cement : 4 fine sand) finished with a floating coat of neat cement.									
		Floor		1	21.50	5.40		116.10			
				1	15.00	5.40		81.00			
		T.T						197.10	sqm	277.00	54597.00
14	21.60	Applying one coat of cement primer of approved brand and manufacture on wall surface.									
		Wall both side	2	2	12.30	3.00		147.60			
			2	2	22.00	3.00		264.00			
		T.T						411.60	sqm	53.80	22144.00
15	21.64	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade on new work (two or more coats) including a coat of approved steel primer but excluding a coat of mordant solution :									
				2	22.00	3.20		140.80			
				2	24.00	3.20		153.60			
		Verandah		1	16.00	2.00		32.00			
				1	17.00	2.00		34.00			
		T.T						326.40	sqm	92.20	30094.00
21.77		Distemping with oil bound washable distemper of approved brand and manufacture and of required shade and colour to give an even shade on new work (two or more coats).									
		Wall area Internal	1	2	12.30	3.00		73.80			

Sl No	SOR No	Name of Item	Nos		L	B	H	Qty	Unit	Rate	Amount	
1	2	3	4	5	6	7	8	9	10	11	12	
			1	2	22.00	3.00		132.00				
							T.T	205.80	sqm	71.00	14612.00	
17	21.81	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade on new work (three or more coats) to give an even shade.										
		Wall area External	1	2	12.30	3.00		73.80				
			1	2	22.00	3.00		132.00				
							T.T	205.80	sqm	93.00	19139.00	
18	21.61	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.										
		(a) Ready mix white primer.										
		Door pannelled		2	17.85	(Both side)		35.70				
		Windows		2	22.30	(Both side)		44.60				
		Chaukats	3	40	1.22	0.10		14.64				
			3	40	0.91	0.10		10.92				
			3	16	1.83	0.10		8.78				
			3	16	1.22	0.10		5.85				
							T.T	120.49	sqm	45.00	5422.00	
19	21.92	Painting with synthetic enamel paint of approved brand and manufacture in all shade on new work (two or more coats).										
		(a) General quality										
		Door , Windows panelled and chaukats						120.49	sqm	81.50	9820.00	
Total											Rs.	686,803.00
Add 5.00% for Repairing of internal electrification											Rs.	34,340.00
Sub-Total (B)											Rs.	721,143.00

C. CONSTRUCTION OF BOUNDARY WALL/FENCING

[illegible]

SI No	SOR No	Name of Item	Nos		L	B	H	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12
		(a) 1:3:6 (1 cement : 3 coarse sand : 6 stone aggregate 20mm)									
				15	0.60	0.60	0.10	0.54	cum	5968.30	3223.00
3	5.03	Reinforced cement concrete work in walls including attached pillars, columns, pillars, posts, piers, abutments, return walls, retaining walls, struts, buttresses, string or lacing courses, fillets etc.									
		(b) 1:2:4 (1 cement : 2 coarse sand : 4 graded stone)									
		below G. Floor		15	0.15	0.15	0.70	0.24	cum		
		G. Floor level		15	0.15	0.15	1.50	0.51	cum		
		T.T						0.75	cum	7116.40	5337.00
4	5.04	Reinforce cement concrete work in beams, suspended floors, roofs having slope upto 15° landings, balconies, shelves, chajjas, lintels, bands, window sills, stair cases, spiral stair cases, cantilevers upto floor five level excluding cost of centering shuttering etc complete. with 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 20mm)									
		Plinth level Beam									
				14	2.50	0.15	0.20	1.05	cum	7387.20	7757.00
5	5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in -									
		⊗ Columns, posts and struts, etc									
		below G Floor	4	15		0.15	0.70	6.30	sqm		
		G. Floor level	4	15		0.15	1.50	13.50	sqm		
		T.T						19.80	sqm	506.30	10025.00
		(d) Lintels, beams, plinth beams, etc.									
		Tie beam - 1	14	2		2.50	0.20	14.00	sqm		
			14	1		2.50	0.15	5.25	sqm		
		T.T						19.25	sqm	400.10	7702.00
6	5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.									
		(f) Thermo-Mechanically Treated bars.									
		For Column		310	per	0.75	cum	232.50	kg		
		For Beam		270	per	1.05	cum	283.50	kg		
		T.T						516.00	kg	83.70	43189.00
6.05		Half brick masonry with first class brick in foundation and plinth in:									
		(b) in cement mortar 1:4 (1 cement : 4 coarse sand)									
		Wall Area		14	2.50	1.50		52.50	sqm	968.90	50867.00

Sl No	SOR No	Name of Item	Nos		L	B	H	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12
8	21.07	12mm cement plaster 1 : 4									
		Wall	2	14	2.50	1.50		105.00	sqm	190.40	19992.00
Total										Rs.	149,034.00
Sub-Total (C)										Rs.	149,034.00

D. DRINKING WATER & HAND WASHING FACILITY

1	2.08	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.								
		(a) Ordinary soil								
		Post	4	1.00	1.00	1.20	4.80	cum	218.10	1047.00
2	4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:								
		(a) 1:3:6 (1 cement : 3 coarse sand : 6 stone aggregate 20mm)								
			4	1.00	1.00	0.12	0.48	cum	5968.30	2865.00
3	5.03	Reinforced cement concrete work in walls including attached pillars, columns, pillars, posts, piers, abutments, return walls, retaining walls, struts, buttresses, string or lacing courses, fillets etc.								
		(b) 1:2:4 (1 cement : 2 coarse sand : 4 graded stone)								
		below G. Floor	1	0.25	0.25	1.50	0.09	cum		
			1	0.25	0.25	2.50	0.16	cum		
		G. Floor level	4	0.25	0.25	1.50	0.38	cum		
		Wall	2	2.50	1.50	0.12	0.90	cum		
			2	2.00	1.50	0.12	0.72	cum		
		T.T					2.25	cum	7116.40	16012.00
	5.04	Reinforce cement concrete work in beams, suspended floors, roofs having slope upto 15° landings, balconies, shelves, chajjas, lintels, bands, window sills, stair cases, spiral stair cases, cantilevers upto floor five level excluding cost of centering shuttering etc complete. with 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 20mm)								
		Beam	2	2.50	0.25	0.40	0.50	cum		
			2	2.00	0.25	0.40	0.40	cum		
		Floor & Roof slab	2	2.50	2.00	0.12	1.20	cum		
		T.T					2.10	cum	7387.20	15513.00

Sl No	SOR No	Name of Item	Nos		L	B	H	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12
5	5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in -									
		(b) Walls including attached pillasters, buttresses, etc.									
		Wall	2	2		2.50	1.50	15.00	sqm		
			2	2		2.00	1.50	12.00	sqm		
		T.T						27.00	sqm	422.10	11397.00
		(c) Columns, posts and struts. etc									
		below G Floor	4	2		0.25	1.50	3.00	sqm		
			4	1		0.25	1.50	1.50	sqm		
			4	2		0.25	2.50	5.00	sqm		
		G. Floor level	4	1		0.25	2.50	2.50	sqm		
		T.T						12.00	sqm	506.30	6076.00
		(d) Lintels, beams, plinth beams, etc.									
			2	2		2.50	0.40	4.00	sqm		
			2	1		2.50	0.25	1.25	sqm		
			2	2		2.00	0.40	3.20	sqm		
			2	1		2.00	0.25	1.00	sqm		
		T.T						9.45	sqm	400.10	3781.00
		(e) Suspended floors, roofs, landings, balconies,									
				2	2.50	2.00		4.00	sqm		
			2	4	2.50		0.15	1.20	sqm		
		T.T						5.20	sqm	536.30	2789.00
6	5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.									
		(f) Thermo-Mechanically Treated bars.									
		For Column		310	per	2.25	cum	697.50	kg		
		For Beam		270	per	0.90	cum	243.00	kg		
		For Slab		100	per	1.20	cum	120.00	kg		
		T.T						1060.50	kg	83.70	88764.00
8	21.23	20mm cement plaster 1 : 4 (1 cement : 4 fine sand) finished with a floating coat of neat cement.									
				4	2.50		1.50	15.00	sqm		
				4	2.00		1.50	12.00	sqm		
				2	2.50	2.00		10.00	sqm		
		T.T						37.00	sqm	320.70	11866.00
18.05		Providing and fixing G.I. pipe complete with G.I. fitting including trenching and refilling etc. (external work).									
		(b) 20mm dia nominal bore.									
					12.00			12.00	m	194.50	2334.00

SI No	SOR No	Name of Item	Nos		L	B	H	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12
10	18.08	Providing and fixing brass bib cock of approved quality.									
		(b)20mm dia nominal bore.									
				6.00			6.00	no	633.30	3800.00	
11	18.15	Providing and fixing brass ball valve of approved quality complete with plastic floats complete..									
		(b)20mm dia nominal bore.									
				1.00			1.00	no	423.40	423.00	
ToTal										Rs.	166,667.00
Sub-ToTal (D)										Rs.	166,667.00

E. CWSN FRIENDLY TOILET

1	6.05	Half brick masonry with first class brick in foundation and plinth in: (b) in cement mortar 1:4 (1 cement : 4 coarse sand)								
		Wall Area	1	1.20	3.00		3.60	sqm		
			1	1.80	3.00		5.40	sqm		
		T.T					9.00	sqm		
		Deduct								
		D1	1	0.75	1.83		1.37	sqm		
		Net Area (9.00 - 1.37)					7.63	sqm	968.90	7393.00
2	9.40	Providing and fixing BWP marine ply panelled shutters for doors, etc using first class local wood as styles and rails and BWP marine ply as panels with chromium plated brass parliamentary hinges and necessary screws, etc. complete.								
		D	1	0.75	1.83		1.37	sqm	2892.90	3963.00
3	17.13	Providing and fixing vitreous china water closet (Floor Mounted EWC Universal/Anglo Indian 'P') of Parryware/Hindware/Cera and equivalent make including cutting and making good the walls and floors wherever required.								
		A (i) White	1				1.00	no	3835.30	3835.00
17.25		Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.								
		(a)10 litre capacity-White								

Sl No	SOR No	Name of Item	Nos		L	B	H	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12
				1				1.00	no	1536.50	1537.00
5	17.27	Providing and fixing wash basin with C.i. brackets, 15 mm CP. brass pillar taps, 32 mm CP. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:									
		(a) White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C. P. brass pillar taps									
				1				1.00	no	3231.90	3232.00
5	17.32	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.									
				1				1.00	no	2421.50	2422.00
8	21.07	12mm cement plaster 1 : 4									
		Wall		2	1.20	3.00		7.20	sqm		
				2	1.80	3.00		10.80	sqm		
		T.T						18.00	sqm	190.40	3427.00
Total										Rs.	25,809.00
Sub-Total (E)										Rs.	25,809.00

TOTAL of A+B+C+D+E Rs. 1,700,026.00

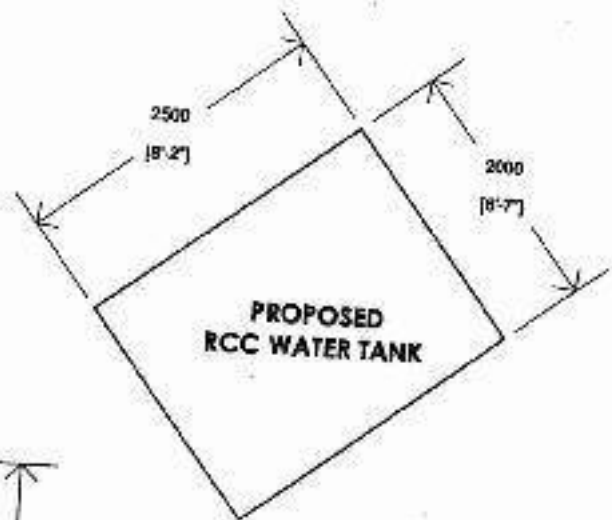
GRAND TOTAL (say) Rs. 1700000.00
(Rupees Seventeen Lakh only)

Prepared by-

(R.MALSAWMTHANGA)
Project Engineer
SSA Mission, Kolasib District

Kotawila PS-1

PROPOSED LAYOUT



PROPOSED SECTION

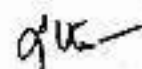


S.No	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/2.05	Earthwork in excavation over areas (exceeding 30cm in depth, 1.5m in width as well as 10sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.								
2/2.06	Earth work in excavation in foundation trenches...								
	(b) Hard Soil (Pick work)								
	Column Foundations								
	C1	4	1.20	1.20	1.50	cum	8.64		
	C2	2	1.00	1.00	1.50	cum	3.00		
	Total:						11.64	327.20	3808.61
3/2.16	Filling available excavated earth (excluding rock) in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each deposited layer by ramming and watering and lead upto 50 m and lift upto 1.50 meters.								
	Qty. BF from S.No.	2/2.05					11.64		
	Deduct from earthwork								
	Column								
	C1	6	0.30	0.30	1.05	cum	-0.567		
	C2	3	0.25	0.25	1.05	cum	-2.197		
	Footing								
	F1	6	1.20	1.20	0.35	cum	-3.024		
	F2	3	1.00	1.00	0.30	cum	-0.900		
	Column Foundation								
	F1	5	1.20	1.20	0.10	cum	-0.664		
	F2	3	1.00	1.00	0.10	cum	-0.300		
	Total:						5.79	90.30	522.67
4/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth level:								
	(a) 1: 3: 6								
	Column Foundation								
	C1	4	1.20	1.20	0.10	cum	0.576		
	C2	2	1.00	1.00	0.10	cum	0.200		
	Floor	1	7.30	5.37	0.15	cum	3.920		
	Side Drain	1	25.34	0.30	0.10	cum	0.760		
	Total:						5.456	5968.30	32,564.64
5/5.15	Providing and laying in position machine batched, M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
	(a) All work upto foundation & plinth level.								
	Footing								
	F1	4	1.20	1.20	0.35	cum	2.02		
	F2	2	1.00	1.00	0.30	cum	0.60		
	Column								
	C1	4	0.30	0.30	1.350	cum	0.49		
	C2	2	0.25	0.25	1.050	cum	0.13		
	(b) All work above plinth level up to Floor V level								
	Column								
	C1	4	0.30	0.30	3.150	cum	1.13		
	C2	2	0.25	0.25	3.150	cum	0.35		
	Beam								
	Plinth Beam:	2	7.30	0.25	0.30	cum	1.10		
		2	5.37	0.20	0.30	cum	0.64		
	Roof Top Beam	2	7.30	0.25	0.30	cum	1.10		
		2	5.37	0.20	0.30	cum	0.64		
	Slab	1	7.30	5.37	0.125	cum	4.90		
	Total:						9.91	9393.30	93056.37

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
8/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position								
	(f) Thermo-Mechanically Treated Bars								
	Foundation Quantity from	5/5.35	2.62	100	Kg/cum	kg	261.500		
	Column Quantity from	5/5.35	0.62	310	Kg/cum	kg	191.348		
	Beam Quantity from	5/5.35	3.48	270	Kg/cum	kg	939.276		
	Slab Quantity from	5/5.35	4.90	100	Kg/cum	kg	490.013		
					Total::	kg	1882.24	83.70	157543.15
7/5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in -								
	c) Columns, pillars, piers, abutments, posts and struts.								
	Column								
	C1	4	1.20		3.15	sqm	15.120		
	C2	2	1.20		3.15	sqm	7.560		
					Total:	sqm	22.680	506.30	11,482.88
	d) Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc.								
	Beams.								
		2	1.3		7.30	sqm	18.980		
		2	1.3		5.37	sqm	13.962		
		2	1.3		7.30	sqm	18.980		
		2	1.3		5.37	sqm	13.962		
	Slab								
		1	7.3		5.37	sqm	39.201		
					Total:	sqm	105.09	400.10	42,044.51
8/8.08	Half brick masonry with first class brick in superstructure above plinth level up to floor V level								
	(b) in cement mortar 1 : 4 (1 cement : 4 fine sand)								
	Ground Floor								
		2	7.30	2.75		sqm	40.150		
		2	3.57	2.75		sqm	19.635		
	Deduction								
	Window+Ventilation	5	1.65	0.90		sqm	-7.425		
	Main Door	1	2.10	1.20		sqm	-2.520		
	Emergency Door	1	1.80	0.90		sqm	-1.620		
					Total:	sqm	48.220	1032.90	49,806.44
9/9.08	Providing 1st class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.								
	Main door	1	1.20	0.075	0.10	cum	0.009		
		2	2.10	0.075	0.10	cum	0.032		
	Emergency Exit	1	0.90	0.075	0.10	cum	0.007		
		2	1.80	0.075	0.10	cum	0.027		
					Total =	cum	0.074	43680.30	3,241.78
10/9.3	Providing and fixing 30mm thick panelled door shutter comprising of styles and rails of seasoned teak wood with panels of phenol formaldehyde synthetic resin bonded particle board 19mm thick with both sides teak ply veneering on both faces...								
5	main door	1		1.20	2.10	sqm	2.52		
	emergency exit	1		0.90	1.80	sqm	1.62		
					Total =	sqm	4.14	5671.60	23,480.42
1/10.06	Providing and fixing steel glazed doors, windows, ventilators of standard rolled steel sections, joints, mitered and welded with 15x3mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm size of 1:3:6 (1 cement : 3 coarse sand : 6 stone aggregate 20mm nominal size) or with wooden plugs and screws								
	(a) 3mm thick glass pane	5	1.65	0.90		sqm	7.43		
					Total =	sqm	7.43	3486.90	25,890.23
1/21.07	12mm cement plaster 1 : 4 (1 cement : 4 fine sand).								
	Qty. B.F from S. No.8/6.06(twice)					sqm	96.440		
	Verandah Column	2	1.20		3.15	sqm	7.560		
					Total::	sqm	104.00	190.40	19801.60

SLNo	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
13/21.61	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.								
	(a) Ready mix pink/grey primer.								
	Chaukhat for								
	Main door	1	1.20		0.30	sqm	0.360		
		2	2.10		0.30	sqm	1.260		
	Emergency Exit	1	0.60		0.30	sqm	0.270		
		2	1.80		0.30	sqm	1.080		
	Qty. BF from S/No.	10/9.35	2.00	4.14		m ²	8.280		
	Total::					m ²	11.25	45.00	506.25
14/21.92	Painting with synthetic enamel paint of approved brand and manufacture in all shade on new work (two or more coats).								
	a) General quality	Qty. BF from S/No 13/21.61				m ²	11.25	81.50	916.88
15/21.60	Applying one coat of cement primer of approved brand and manufacture on wall surface.								
	Qty. BF from S/No.	12/21.07				m ²	104.00		
	Ceiling of First Floor	1	7.30	5.37		sqm	39.20		
	Total						143.20	53.80	7,704.21
16/14.08	Providing and fixing M.S. pull bolts lock conforming with IS :7634 bright finished with necessary screws etc. complete.					Nos	2.00	34.30	68.60
17/14.07	Providing and fixing M.S. Tower bolts (socket bolts) bright finished with necessary screws etc. complete.					Nos	4.00	110.200	440.80
	(a) 300 mm								
18/14.10	Providing and fixing M.S. handles with necessary screws, etc. complete					Nos	4.00	73.200	292.80
	(a) 150mm								
23/7.08	Coursed masonry with rectangular sized hard stone in foundation up to one storey above and below ground level including curing, etc. complete.								
	(b) in cement mortar 1 : 4 (1 cement : 6 fine sand)								
	Pilth protection	1	4.57	0.85	0.45	cum	1.744		
	Total::					cum	1.744	6473.70	11287.66
24/12.01	Cement concrete flooring 1:2:4 (1 cement: 2 sand :4 well graded stone agg)								
	40mm thick	1	7.30		5.37	m2	39.201	432.80	16968.19
25/23.08	Providing 1.2m high fencing with 1.6m high angle iron posts(50x50x5)mm at 3 m c/c with 0.4 m embedded in ground in C.C.1:5:10 (1 cement:5 coarse sand:10 graded stone aggregate 40mm nominal size)corner, end and every 10th post to be strutted provided with hainlink (meshed)fencing and fixed to iron posts by necessary runner flat and bolts etc. complete including earth work in excavation .								
	40mm thick	1			100.00	Rm	100.000	1489.00	148960.00
								G.T.::	683,240.98
	Add 12.5% for Internal and external Electrification as well as installations, complete								85,405.12
	Add 5% for Furniture								34,162.05
	Total								802,808.15
	Add 3.61% cost Index for Serchhip Division								28,981.37
	G.Total								831,789.52
	Say								831,790.00

(Rupees eight lakh thirty one thousand seven hundred eighty nine) only.


 (AZARIA LALTINKIMA)
 State Project Engineer
 Mizoram RMSA

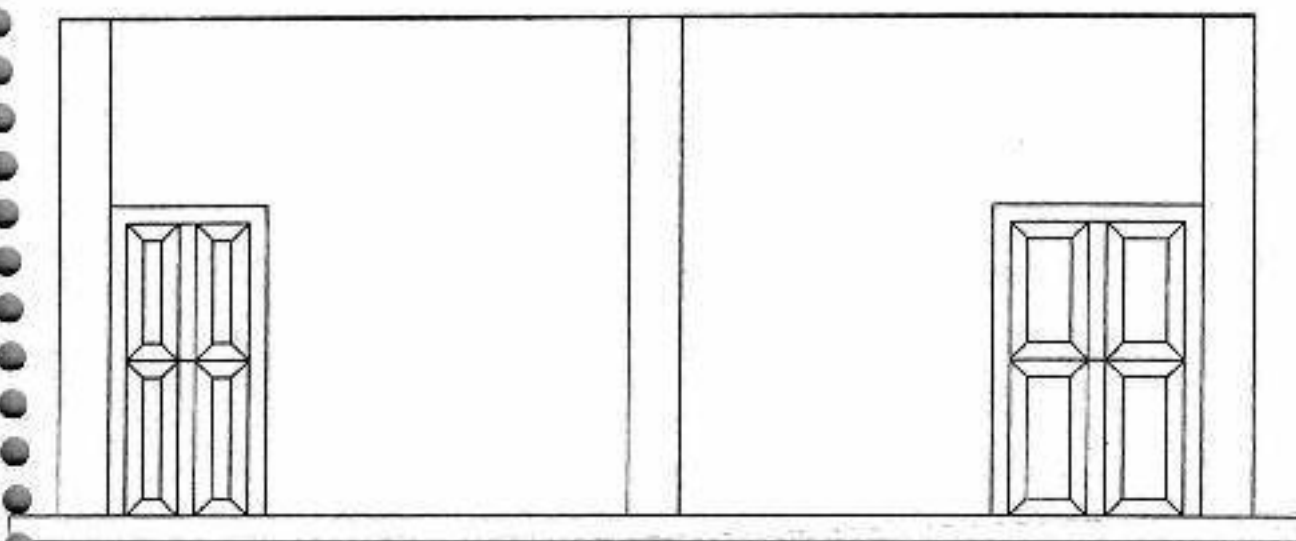
ESTIMATE FOR KITCHEN SHED

Sl.no	Description of Items	No	L	B	D	Unit	Qty	Rate	Amount
1/2.06	Earthwork in excavation over areas (exceeding 30cm in depth, 1.5m in width as well as 10sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.								
	a) Ordinary and hard soil	1	5.000	3.350	0.300	cum	5.025	284.30	1428.51
2/2.08	Earth work in excavation in foundation trenches.								
	(b) Hard Soil (Pick work)								
	Foundation for main column	4	1.20	1.20	1.50	cum	8.64		
	Foundation for verandah column	2	1.20	1.20	1.20	cum	3.45		
					Total:	cum	12.10	327.20	3,957.81
3/2.18	Filling available excavated earth (excluding rock) in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each deposited layer by ramming and watering and lead upto 50 m and lift upto 1.50 meters.								
	Qty. BF from S.No.	2/2.08					12.10		
	Deduct from earthwork								
	Main Column	4	0.30	0.30	1.00	cum	-0.360		
	Verandah column	2	0.25	0.25	1.00	cum	-0.125		
	Footling	6	1.20	1.20	0.30	cum	-2.592		
	Column Foundation	6	1.20	1.20	0.10	cum	-0.864		
					Total:	cum	8.15	80.30	736.40
4/4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth level :								
	(a) 1: 3: 6								
	Column Foundation	6	1.20	1.20	0.10	cum	0.864		
	Floor	1	4.57	5.45	0.10	cum	2.491		
					Total	cum	3.355	5968.30	20,021.56
5/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -								
	(a) All work upto foundation & plinth level								
	Footling	6	1.20	1.20	0.30	cum	2.592		
	Main Column	4	0.30	0.30	0.60	cum	0.22		
	Verandah column	2	0.25	0.25	0.60	cum	0.08		
					Total	cum	2.88	8847.30	25,506.77
	(b) All work above plinth level up to Floor V level								
	Main column	4	0.30	0.30	3.15	cum	1.13		
	Verandah column	2	0.25	0.25	3.15	cum	0.39		
					Total	cum	1.53		
	Tie beam								
		3	4.57	0.20	0.250	cum	0.69		
		2	5.45	0.20	0.250	cum	0.55		
					GT::		1.23	9393.30	11,558.46
6/5.21	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete								
	(f) Thermo-Mechanically Treated Bars								
	Foundation Quantity from	5/5.35	3.35	1.00	Kg/cum	kg	335.485		
	Column Quantity from	5/5.35	1.53	3.10	Kg/cum	kg	473.603		
	Beam Quantity from	5/5.35	1.23	2.70	Kg/cum	kg	332.235		
					GT	Kg	1141.303	83.70	95,527.02
7/5.11	Centering and shuttering including strutting, propping, etc. and removal of form works in -								
	(c) Columns, pillars, piers, abutments, posts and struts.								
	Column	4	1.20		3.75	sqm	18.000		
		2	1.00		3.75	sqm	7.500		
					Total:	sqm	25.500	506.30	12,910.65

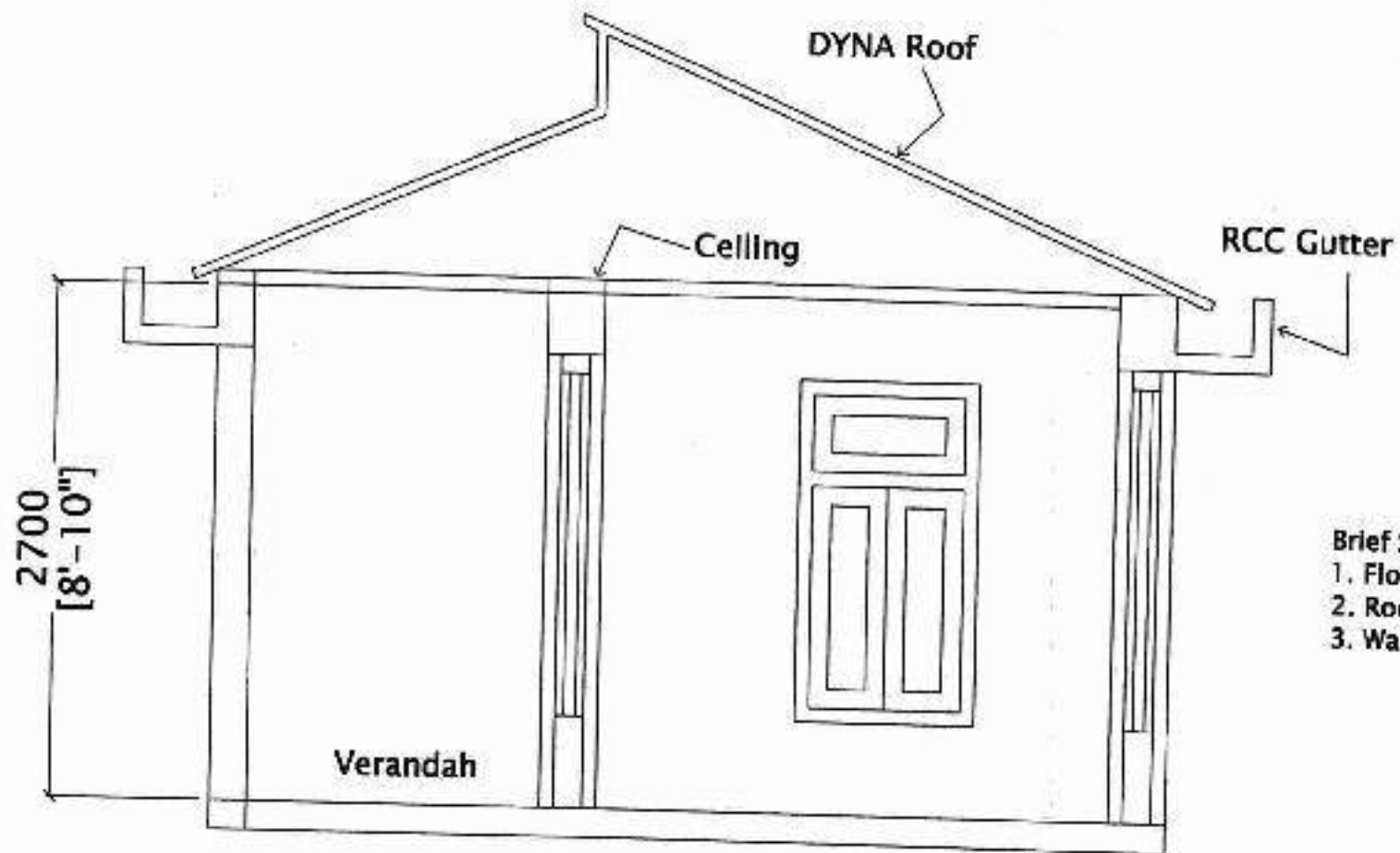
d)	Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc.								
	Beams,								
		3	0.700		4.57	sqm	9.597		
		2	0.700		5.45	sqm	7.630		
					Total:	sqm	17.23	400.10	6,892.52
8/6.09	7.5 cm thick brick masonry with first class brick in superstructure above plinth level upto floor two level including curing, etc. complete.								
	(b) in cement mortar 1 : 4 (1 cement : 4 fine sand)								
	Wall	2	4.57	3.15		sqm	28.791		
		2	3.65	3.15		sqm	22.995		
	Deduction								
	Main Door	1	1.80	1.20		sqm	-2.180		
	Windows	2	1.65	0.90		sqm	-2.970		
	Ventilation	2	0.90	0.45		sqm	-0.810		
	Counter	1	1.20	0.90		sqm	1.080		
					Total:	sqm	46.928	631.40	29,629.08
9/9.08	Providing 1st class local wood dressed in frames of chaukal for doors, windows, clerestory windows fixed in position.								
	Main door	1	1.20	0.075	3.10	cum	0.009		
		2	2.10	0.075	3.10	cum	0.032		
	Windows & Ventilation	4	1.65	0.075	0.10	cum	0.050		
		6	0.90	0.075	0.10	cum	0.041		
	Counter	2	1.20	0.075	0.10	cum	0.018		
		2	0.90	0.075	0.10	cum	0.014		
					Total =	cum	0.162	43660.30	7,072.97
10/9.3	Providing and fixing 30mm thick panelled door shutter comprising of styles and rails of seasoned teak wood with panels of phenol formaldehyde								
7	main door	1		1.20	2.10	sqm	2.52		
	Counter door	1		1.20	0.90	sqm	1.08		
					Total =	sqm	3.60	6427.60	23,139.36
11/9.1	Providing and fixing 1st class local wood glazed shutters using 3mm thick plate sheet glass for								
5	30mm thick								
	Windows & Ventilations	2	1.65	0.90		sqm	2.97		
	Single ventilation	2	0.45	0.90		sqm	0.81		
					Total =	sqm	3.78	2140.10	6,089.58
12/9.43	Providing 1st class local wood work dressed in frames of false ceiling, partition, etc. sawn and fixed in position.								
	Ceiling frame, etc	10	3.65	0.075	0.10	cum	0.27		
					Total	cum	0.27	35991.60	9,825.38
13/21.	12mm cement plaster 1 : 4								
07	(1 cement : 3 fine sand).								
	Qty. B.F from S. No. 8/6.06 (twice)	2	46.93			sqm	93.862		
	Counter	1	1.20	0.70		sqm	0.840		
		1	1.90	0.10		sqm	0.190		
	Wash	1	3.10	0.70		sqm	2.170		
		1	3.80	0.10		sqm	0.38		
					Total::	sqm	97.43	190.40	18,551.05
15/21.6	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.								
	(a) Ready mix pink/grey primer.								
	Chaukal for								
	Main door	1	1.20		0.30	sqm	0.360		
		2	2.10		0.30	sqm	1.260		
					Total::	sqm	1.62	45.00	72.90
16/21.	Painting with synthetic enamel paint of approved brand and manufacture in all shade on new work (two or more coats).								
92									
	a) General quality	Qty. BF from	15/21.61			sqm	1.62		
		Qty. BF from	10/9.37	(both sides)		sqm	7.20		
					Total	sqm	8.82	81.50	719.83

Abstract		
Sl. No	Particulars	Amount
1	Construction of Additional Classroom with fencing	831,790.00
2	Construction of Kitchen Shed	407,110.00
3	Greenboard (LS)	6,800.00
4	Incinerator (LS)	154,300.00
	Total	1,400,000.00

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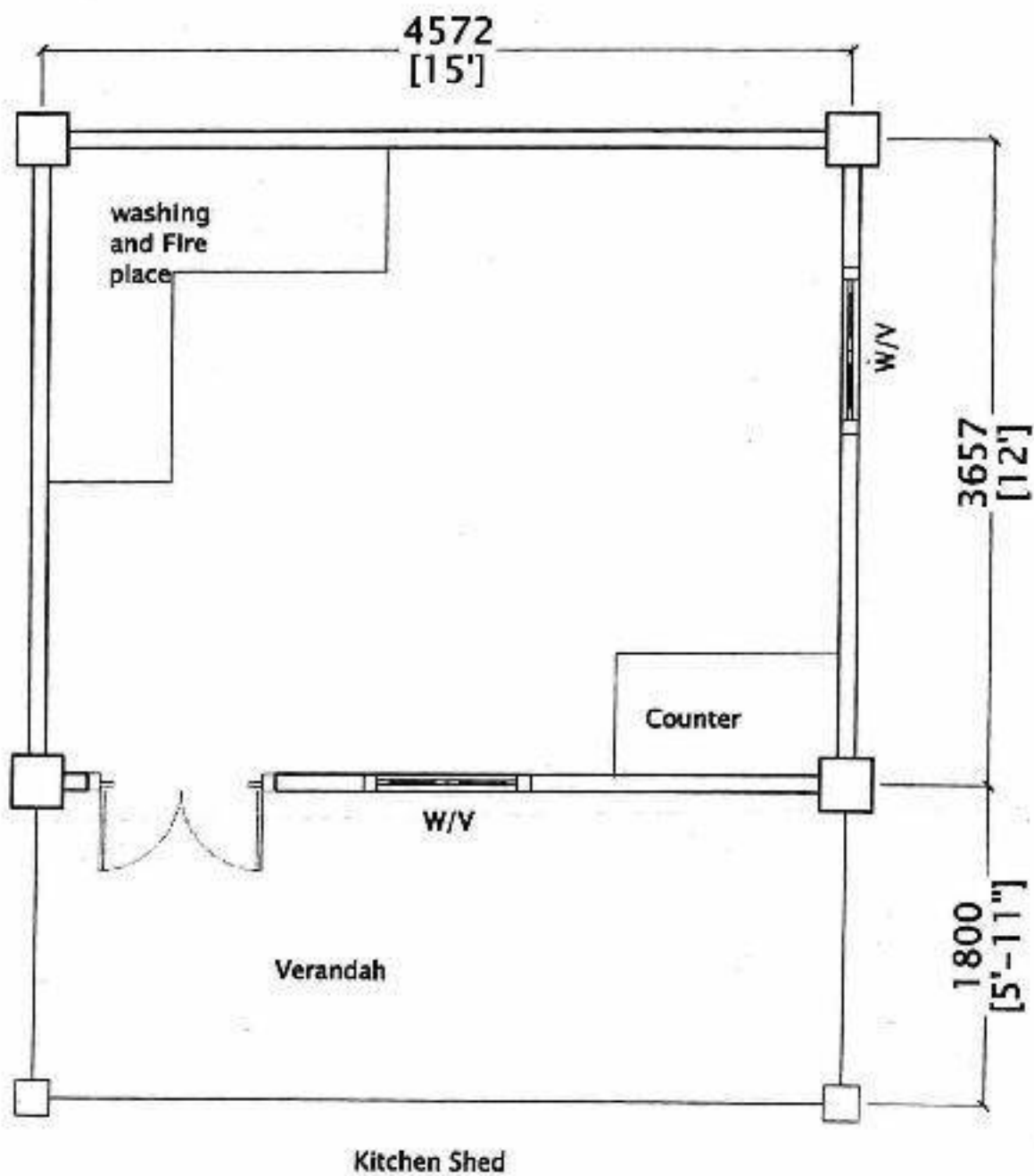
Additional Classroom



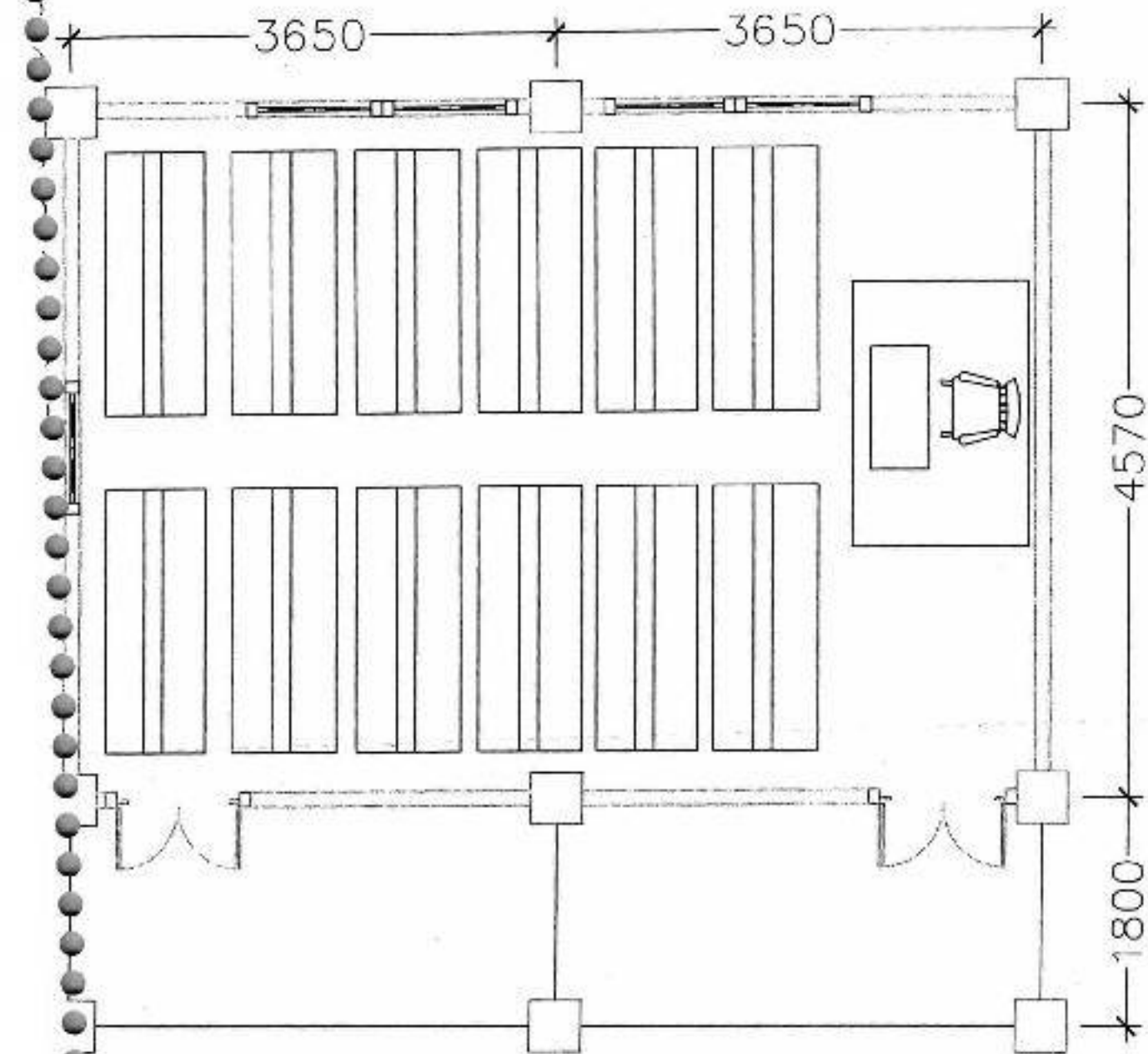
- Brief Specifications**
1. Floor - PCC
 2. Roof - Dyna Roof
 3. Wall - Brick (chhawng zawngln)

Kitchen Shed

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25



Additional Classroom

Detailed Estimate for Repairing of Govt. P/S V

Item No.	Description	No	Length	Breadth	Depth/Height	Unit	Qty	Amount
A: REPAIRING OF EXISTING SCHOOL BUILDING								
1/2.09	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling and compaction in 15cm layers as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.							
	(b) Hard Soil (pick work)							
	Column/foundations (Boundary)	11	1.20	1.20	1.80		28.512	
						Sub Total	cum	28.512
	₹.	327.20						9329.13
2/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -							
	(a) All work upto foundation and plinth.							
	Bases of Footing (Boundary Wall)	11	1.20	1.20	0.20		3.169	
		11	0.20	0.20	1.80		0.792	
						Sub Total	cum	3.96
	₹.	8,847.30						35035.31
	(b) All work above plinth level upto floor							
	Column (Boundary Wall)	11	0.20	0.20	6.00		2.640	
	Beam (Boundary Wall)	3	40	0.2	0.25		6.000	
						Sub Total	cum	8.640
	₹.	9,393.30						81158.11
3/5.21	Steel reinforcement for RCC work.							
	(d) Hot rolled deformed bars							
	(12mm dia.)	18	11	1.20	0.89		211.464	
	(12mm dia.)	4	11	5.00	0.89		234.960	
	6mm dia @ 150mm c/c	41	11	0.85	0.22		84.337	
	Add 5% for splicing, cutting etc						26.538	
	dia)	3	5	30	0.89		400.500	
	dia @ 150mm c/c	201	3	0.85	0.22		0.561	
	Add 5% for splicing, cutting etc						20.053	
						Sub Total	Kg	978.413
	₹.	82.20						80425.55
4/6.05	foundation and plinth in:							
	a) in cement mortar 1:3 (1 cement : 3 fine sand)							
	Boundary Wall		30			6	306.000	
						Net Total	Sqm	306.000
	₹.	1,007.10						308172.60
5/21.10	15mm cement plaster 1 : 3 (1 cement : 3							
	External Wall (Boundary Wall)		Qty. B/F from Item No.	4/5.05			306.000	
	External Wall (Main Building)		16,424		3.3		54.199	
						Sqm	360.199	
	₹.	242.20						87240.20
6/21.60	Applying one coat of cement primer of approved brand and manufacture on wall							
			Qty. B/F from Item No.	5/21.10			360.199	
						Sub Total	Sqm	360.20
	₹.	53.80						19378.71

Detailed Estimate for Repairing of Govt. P/S V

Item No.	Description	No	Length	Breadth	Depth/Height	Unit	Qty	Amount
A: REPAIRING OF EXISTING SCHOOL BUILDING								
1/2.06	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling and compaction in 15cm layers as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.							
	(b) Hard Soil (pick work)							
	Column foundations (Boundary)	11	1.20	1.20	1.00		28.512	
						Sub Total	cum	28.512
	₹.	327.20						9329.13
2/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -							
	(a) All work upto foundation and plinth.							
	Bases of Footing (Boundary Wall)	11	1.20	1.20	0.20		3.168	
		11	0.20	0.20	1.80		0.792	
						Sub Total	cum	3.96
	₹.	8,847.30						35035.31
	(b) All work above plinth level upto floor							
	Column (Boundary Wall)	11	0.20	0.20	6.00		2.640	
	Beam (Boundary Wall)	3	40	0.2	0.25		6.000	
						Sub Total	cum	8.640
	₹.	9,393.30						81158.11
3/5.21	Steel reinforcement for RCC work							
	(d) Hot rolled deformed bars							
	(12mm dia.)	18	11	1.20	0.89		211.464	
	(12mm dia.)	4	11	6.00	0.89		234.960	
	6mm dia @ 150mm c/c	41	11	0.85	0.22		84.337	
	Add 5% for splicing, cutting etc						26.538	
	dia)	3	5	30	0.89		400.500	
	dia @ 150mm c/c	201	3	0.85	0.22		0.561	
	Add 5% for splicing, cutting etc						20.053	
						Sub Total	Kg	978.413
	₹.	82.20						80425.55
4/6.05	foundation and plinth in:							
	a) in cement mortar 1:3 (1 cement : 3 fine sand)							
	Boundary Wall	30			6		306.000	
						Net Total	Sqm	306.000
	₹.	1,007.10						308172.60
5/21.10	15mm cement plaster 1 : 3 (1 cement : 3							
	External Wall (Boundary Wall)					Qty. B/F from Item No.	4/6.05	306.000
	External Wall (Main Building)		16.424				3.3	54.199
							Sqm	360.199
	₹.	242.20						87240.20
8/21.60	Applying one coat of cement primer of approved brand and manufacture on wall							
						Qty. B/F from Item No.	5/21.10	360.199
						Sub Total	Sqm	360.20
	₹.	53.80						19378.71

Detailed Estimate for Repairing of Govt. P/S V

Item No.	Description	No	Length	Breadth	Depth/Height	Unit	Qty	Amount
A: REPAIRING OF EXISTING SCHOOL BUILDING								
1/2.08	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling and compaction in 15cm layers as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.							
	(b) Hard Soil (pick work)							
	Column Foundations (Boundary)	11	1.20	1.20	1.80		28.512	
					Sub Total	cum	28.512	
	₹.	327.20						9329.13
2/5.35	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-20 grade reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -							
	(a) All work upto foundation and plinth.							
	Bases of Footing (Boundary Wall)	11	1.20	1.20	0.20		3.168	
		11	0.20	0.20	1.80		0.792	
					Sub Total	cum	3.96	
	₹.	8,847.30						35035.31
	(b) All work above plinth level upto floor							
	Column (Boundary Wall)	11	0.20	0.20	6.00		2.640	
	Beam (Boundary Wall)	3	40	0.2	0.25		6.000	
					Sub Total	cum	8.640	
	₹.	9,393.30						81158.11
3/5.21	Steel reinforcement for RCC work							
	(d) Hot rolled deformed bars							
	(12mm dia.)	18	11	1.20	0.89		211.464	
	(12mm dia.)	4	11	6.00	0.89		234.960	
	8mm dia @ 150mm c/c	41	11	0.85	0.22		84.337	
	Add 5% for splicing, cutting etc						26.538	
	dia)	3	5	30	0.89		400.500	
	dia @ 150mm c/c	201	3	0.85	0.22		0.561	
	Add 5% for splicing, cutting etc						20.053	
					Sub Total	Kg	978.413	
	₹.	82.20						80425.55
4/6.05	foundation and plinth in:							
	a) in cement mortar 1:3 (1 cement : 3 fine sand)							
	Boundary Wall	30			6		306.000	
					Net Total	Sqm	306.000	
	₹.	1,007.10						308172.60
5/21.10	15mm cement plaster 1 : 3 (1 cement : 3							
	External Wall (Boundary Wall)				Qty. B/F from Item No.	4/6.05	306.000	
	External Wall (Main Building)			16.424		3.3	54.199	
						Sqm	360.199	
	₹.	242.20						87240.20
6/21.60	Applying one coat of cement primer of approved brand and manufacture on wall							
					Qty. B/F from Item No.	5/21.10	360.199	
					Sub Total	Sqm	360.20	
	₹.	53.80						19378.71

Detailed Estimate for Repairing of Govt. P/S V

Item No.	Description	No	Length	Breadth	Depth/Height	Unit	Qty	Amount
7/21.31	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade on new work (three or more coats) to give an even shade.	Qty. B/F from Item No.			6/21.60	Sqm	360.199	
	₹.	93.00						33498.51
8/7.03	Coursed rubble masonry(First sort) with hard stone in foundation and plinth with:							
	(b) in cement mortar 1 : 4 (1 cement : 4 coarse sand)	1	7.32	0.45	2.5	cum	8.235	
	₹.	4,714.80						38,827.20
9/12.01	Cement concrete flooring 1:2:4 (1 cement : 2 sand : 4 well graded stone aggregate 20mm size) finished with a floating coat neat cement including cement slurry etc. complete but excluding the cost of nosing of steps etc.							
	Floor	1	15	8			120.00	
					Sub Total	Sqm	120.00	
	₹.	432.80						51,936.00
10/	Benches and Desk	22				LS	22.000	
	₹.	2,500.00						55000.00
TOTAL (A)								800001.32
SAY								800000.00
(Rupees Eight Lakh Only)								