#### No. G.21011/9/2017-DTE(EDN)

### GOVERNMENT OF MIZORAM SCHOOL EDUCATION DEPARTMENT

Dated Aizawl, the 28th 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 30<sup>th</sup> 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 from Loan availed under NABARD RIDF-XXII. Government Empanelled Consultancy Firms may submit their Bid which will be received up to 12:00 noon of 18<sup>th</sup> September, 2017. RFP can be obtained from Directorate of School Education, Mc Donald Hill, Zarkawt, Aizawl on payment of Rs 1500/- during Office hours and can also be downloaded from <a href="http://schooleducation.mizoram.gov.in">http://schooleducation.mizoram.gov.in</a> and <a href="http://tender.mizoram.gov.in">http://tender.mizoram.gov.in</a>.

Sd/- Director of School Education Government of Mizoram"

Yours faithfully,

(K. LALTHAWMMAWIA)

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"

(LOAN FROM NABARD-RIDF-XXII)

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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 Rural Infrastructure Development Fund (RIDF)-XXII, NABARD LOAN for the Project entitled "Construction of School Infrastructure under School Education Department" with the following components:-
- i) Reconstruction of School Buildings

a) 13 Nos of Primary School Buildings @ Rs 34.00 lakh - Rs 442.00 lakh

b) 8 Nos of Middle School Buildings @ Rs 37.00 lakh - Rs 296.00 lakh

c) 8 Nos of High School Buildings @ Rs 108.31 lakh - Rs 866.48 lakh

ii) Repair of School Building for 140 Schools @ Rs 4.00 lakh - Rs 560.00 lakh

iii) Construction of Kitchen-shed and Kitchen Dining Hall

for 25 Elementary Schools @ Rs 10.70 lakh - Rs 267.50 lakh

GRAND TOTAL - Rs. 2,431.98 lakh

#### (The above costs are inclusive of electrification)

- 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 from Loan from NABARD and State contribution is expected to provide 100% of the capital investment in the ratio of 90:10 subject to maximum of Rs. 2,431.98 lakh as stated above.

#### 2. Terms of Reference

**Background:** The project has been developed to address the huge infrastructure gap under School Education Department, especially in rural areas.

**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 29 School Buildings, Repair of 140 School Building and Construction of 25 Kitchen cum Dinning Halls are as below:

- To implement quality education.
- To provide good environment for learning.
- To serve hygienic mid-day Meal
- 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 Re-Construction of School Buildings and Construction of Kitchen Shed and Dining Hall.
  - 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 of the arousal of need for modification in design with respect to site condition, 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 internal and external electrification of the buildings.

#### 3. INFORMATION TO BIDDERS

#### 3.1 Introduction:

#### i) Reconstruction of School Buildings

#### a) Primary School Buildings:-

The proposed Re-Construction of Primary School Buildings will have Teachers' Common Room, 5 (five) Classrooms and separate Toilet for boys and girls.

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

#### b) Middle School Buildings :-

The proposed Re-Construction of Middle School Buildings will have Teachers' Common Room, 3 (three) Classrooms and separate Toilet for boys and girls.

The list of Schools to be reconstructed are enclosed in Annexure-II

#### c) High School Buildings:-

The proposed High School Building will comprise

Ground Floor: 2 (Two Classrooms), Teachers' Common Room, Principal/Headmaster's Room, Library Room, separate Toilet for Boys and Girls and separate Toilet for CWSN.

First Floor : Computer Room, Art/Craft Room and Science Laboratory

The list of Schools to be reconstructed are enclosed in Annexure-III

#### ii) Repair of School Buildings:-

School buildings are to be repaired on need base.

The list of Schools to be repaired are enclosed in Annexure-IV

#### iii) Construction of Kitchen-shed and Kitchen Dining Hall

The proposed work is Construction of Kitchen Shed and separate Dining Hall in selected schools.

The list of Schools in which these are to be constructed are enclosed in Annexure - VI

- **3.2 Brief Description of Works** The employer has availed Loan from NABARD-RIDF XXII amounting to Rs. 2,431.98 lakhs for these Projects. All the works mentioned in the project constitute a single package and must be carried out by the contractor. An amount of Rs. 806.46 lakhs is being provided in the Budget 2017-18 and the remaining balance will be provided subsequently. Payment of bills for completed works will be subjected to flow of fund from the funding sources, i.e., NABARD and State Government.
- **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 empaneled 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:-

#### **Event description**

**Date** 

1.	Last date of submission of bids	18 <sup>th</sup> Sept, 2017 (Monday) up to 12:00 pm
2.	Opening of Bids	(Same date as SI. No 1 at 1:00 pm)
3.	Letter of Award	Within 10 working days of Sl. No 1
	(subject to the approval of competent A	uthority)
4.	Signing of Contract Agreement.	Within 3 days of LOA
	(subject to the approval of competent Authority)	

#### 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: <u>dirsemz@gmail.com</u>

#### 3.6 Cost of Tender document:

- i) Tender document (hard copy) can be had from the office address given above on payment of Rs. 1500/- on working days from 31<sup>st</sup> August, 2017 to 15<sup>th</sup> September, 2017
- ii) Tender documents will be available online on website <a href="https://tender.mizoram.gov.in">https://schooleducation.mizoram.gov.in</a>. Those contractors who download the tender documents from the website shall pay Rs. 1500/- on submission of their bidding document.

#### 4. GENERAL TERMS OF BIDDING.

#### 4.1 Earnest Money:

An amount of Rs 34.32 lakh should be deposited as Earnest Money (Rs. 20 lakhs plus 1% of estimated cost in excess of Rs. 10 crores). 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 shape prescribed above and balance can be accepted in 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
- i) Concrete Mixer Machine
- k) Slump cone
- 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) CST 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 of the 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 date, 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** *for Construction of School Infrastructure 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	10
	Civil Infrastructure projects in the State (status of	
	the project be mentioned)	
2	Experience of the firm in execution of Construction	20

	projects in the State (status of the project be	
	mentioned).	
3	Consultant Resource Schedule, Methodology &	20
	Work Plan, Key equipments, etc.	
4	Suitability of Key personnel for the assignment	
	a) Qualification	10
	b) Relevant Experience	10
	c) No of Technical personnel with more than	10
	10 years of experience	
5	Financial Turnover Figures for last 3 years (as per	5
	audited by Registered Chartered Accountants)	
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 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.
- **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 12 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 and depending upon the release of fund from NABARD as well as State and Treasury.
- 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 endeavoured 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 up to 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.

6.12.2If 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 to the contractor at the period mentioned below after having clearance from the department that no defect is found in the construction:
- (i) Full reconstruction of buildings 8 months
- (ii) Construction of Kitchen Shed 4 months
- (iii) Repair works 2 months

## LIST OF SCHOOLS IDENTIFIED FOR RECONSTRUCTION OF PRIMARY SCHOOL BUILDINGS @ Rs 34.00 lakh.

SI/No	School name	District
1	Govt. NGOPA P/S-II	CHAMPHAI
2	Govt. PUILO P/S	CHAMPHAI
3	KAWLKULH P/S-V	CHAMPHAI
4	Govt. HRIANGHMUN P/S	CHAMPHAI
5	Govt. MIMBUNG P/S-II	CHAMPHAI
6	Govt. NGOPA P/S-III	CHAMPHAI
7	GOVT.PS-II LUNGDAI	KOLASIB
8	GOVT. P/S-I	KOLASIB
9	GOVT. DAWN P/S	LUNGLEI
10	GOVT. ELECTRIC P/S-I	LUNGLEI
11	GOVT. ROTLANG 'E' P/S	LUNGLEI
12	GOVT. ZOBAWK P/S-III	LUNGLEI
13	GOVT. HLUMTE P/S	LUNGLEI

## LIST OF SCHOOLS IDENTIFIED FOR RECONSTRUCTION OF MIDDLE SCHOOL BUILDINGS @ Rs 37.00 lakh

SI/No	School name	District
1	GOVT. VANCHENGPUI M/S	CHAMPHAI
2	GOVT. SELAM M/S	CHAMPHAI
3	GOVT. NGOPA M/S-II	CHAMPHAI
4	LCM FARM VENG M/S	LUNGLEI
5	JNM M/S ELECTRIC VENG	LUNGLEI
6	RK M/S, S. VANLAIPHAI	LUNGLEI
7	LEITE M/S	LUNGLEI
8	PK M/S, CHANMARI	LUNGLEI

#### **ANNEXURE - III**

# LIST OF SCHOOLS IDENTIFIED FOR RECONSTRUCTION OF HIGH SCHOOL BUILDINGS @ Rs 108.31 lakh

SI/No	School name	District
1	GOVT. MIMBUNG H/S	CHAMPHAI
2	GOVT. NE.KHAWDUNGSEI H/S	СНМАРНАІ
3	GOVT. CHAWNGTE 'P' H/S	LAWNGTLAI
4	GOVT. MODERN H/S LUNGTIAN	LAWNGTLAI
5	GOVT.SAIPHAI H/S	KOLASIB
6	GOVT.CHALKUNGA H/S BUKPUI	KOLASIB
7	GOVT. LUNGLEI H/S	LUNGLEI
8	GOVT. ZOBAWK H/S	LUNGLEI

### List of Identified Schools for repairs @ Rs 4.00 lakhs

### A) HIGH SCHOOLS

SI. No.	Name of Schools	Districts
1	Govt. Phuaibuang HS	Aizawl
2	Govt. Rulchawm HS	Aizawl
3	Govt. Sateek HS	Aizawl
4	Govt. Tuisualral HS, Sakawrdawi	Aizawl
5	Govt. Ratu HS	Aizawl
6	Govt. Awithangpa HS,Thiak	Aizawl
7	Govt. MICE HS	Aizawl
8	Govt. Central HS	Aizawl
9	Govt. Keifang HS	Aizawl
10	Govt. Durtlang HS	Aizawl
11	Govt. Ngopa HS	СНАМРНАІ
12	Govt. Kawlbem HS	СНАМРНАІ
13	Govt. Kawlkulh HS	СНАМРНАІ
14	Govt. PM High School, Lungdai (Govt. Lungdai HS)	Kolasib
15	Govt. Chalkunga HS (Bukpui HS)	Kolasib
16	Govt. N. Hlimen HS	Kolasib
17	Govt. Borai HS	Mamit
18	Govt. Lallen HS	Mamit
19	Govt. Phuldungsei HS	Mamit
20	Govt. Kanghmun HS	Mamit
21	Govt. Zobawk HS	Lunglei
22	Govt. Cherhlun HS	Lunglei
23	Govt. Thingsai HS	Lunglei
24	N. Vanlaiphai Govt. HS	Serchhip
25	Govt. Democratic High School, Khumtung (Khumtung Govt HS)	Serchhip

### B) Govt. Elementary Schools

SI. No.	Name of Schools	Districts
1	Govt. Maubuang PS	Aizawl
2	Govt. Kanan PS	Aizawl
3	Govt. Maubawk PS-I	Aizawl
4	Govt. Hlimen PS-I	Aizawl
5	Govt. Melthum PS	Aizawl
6	Govt. Tlangnuam PS-I	Aizawl
7	Govt. Armed Veng South PS-II	Aizawl
8	Govt. Chaltlang PS-I	Aizawl
9	Govt. Chite PS	Aizawl
10	Govt. DIET Practicing PS	Aizawl
11	Govt. L.M. PS, Ramhlun Venglai	Aizawl
12	Govt. Ramthar PS-I	Aizawl
13	Govt. College Veng PS	Aizawl
14	Govt. Kawlkulh PS	СНАМРНАІ
15	Govt. Changzawl PS	СНАМРНАІ
16	Govt. Vankal PS	СНАМРНАІ
17	Govt. Saichal PS	СНАМРНАІ
18	Govt. Dulte PS	СНАМРНАІ
19	Govt. N.E. Khawdungsei PS-II	СНАМРНАІ
20	Govt. Ngopa PS-III	СНАМРНАІ
21	Govt. Khawkawn PS	СНАМРНАІ
22	Govt. Teikhang PS	СНАМРНАІ
23	Govt. Vanchengpui PS	СНАМРНАІ
24	Govt. Kawlbem PS	СНАМРНАІ
25	Govt. PS Khamrang	KOLASIB
26	Govt. PS-XII	KOLASIB
27	Govt. Bunghmun PS-II	LUNGLEI
28	Govt. Bungtlang 'W' PS	LUNGLEI

29	Govt. Hauruang PS-II	LUNGLEI
30	Govt. Laisawral PS	LUNGLEI
31	Govt. Lungdai 'S' PS	LUNGLEI
32	Govt. Serte PS	LUNGLEI
33	Govt. Sertlangpui PS	LUNGLEI
34	Govt. Vanhne PS	LUNGLEI
35	Phainuam PS (SSA)	LUNGLEI
36	Salmur PS (SSA)	LUNGLEI
37	Govt. Hnahthial PS-V	LUNGLEI
38	Govt. Hnahthial PS-VI	LUNGLEI
39	Govt. Ngharchhip PS	LUNG LEI
40	Govt. Pangzawl PS-II	LUNGLEI
41	Govt. Rawpui PS	LUNGLEI
42	Govt. Thiltlang PS-I	LUNGLEI
43	Govt. Thingsai PS-I	LUNGLEI
44	Govt. Thingsai PS-III	LUNGLEI
45	Govt. Thingsai PS-IV	LUNGLEI
46	Edomuktisora Upgraded PS (SSA)	LUNGLEI
47	Mautlang PS (SSA)	LUNGLEI
48	KT PS, Ramthar	LUNGLEI
49	Farm Veng PS	LUNGLEI
50	Ralvawng PS	LUNGLEI
51	Zobawk PS-I	LUNGLEI
52	Leite PS	LUNGLEI
53	Govt. Hriphaw PS	MAMIT
54	Govt. Mamit PS-VI	MAMIT
55	Govt. Mamit PS-I	MAMIT
56	Govt. Thinghlun PS	MAMIT
57	Govt. Zamuang PS-I	MAMIT
58	Zamuang PS-II (SSA)	MAMIT
59	Govt. Chungtlang PS	MAMIT

60	Govt. Hreichuk PS	MAMIT
61	Govt. Kanghmun PS-I	MAMIT
62	Govt. Reiek PS-I	MAMIT
63	Govt. Rulpuihlim PS	MAMIT
64	Govt. West Lungdar PS	MAMIT
65	Damparengpui PS (SSA)	MAMIT
66	Govt. Belkhai PS	MAMIT
67	Govt. Khawhnai PS	MAMIT
68	Govt. Maubuang MS	AIZAWL
69	Govt. Sialsuk MS-II	AIZAWL
70	Govt. Bawngkawn MS-I	AIZAWL
71	Govt. Sihphir MS-II	AIZAWL
72	Govt. Lawipu MS	AIZAWL
73	Govt. Maubawk MS-I	AIZAWL
74	Govt. Dinthar MS-I	AIZAWL
75	Govt. Khatla Nepali MS	AIZAWL
76	Govt. Kulikawn MS	AIZAWL
77	Govt. Thanbuka MS	AIZAWL
78	Govt. Darlawn MS	AIZAWL
79	Govt. Zohmun MS	AIZAWL
80	Govt. DIET Practicing MS	AIZAWL
81	Govt. Laipuitlang Eng. Med.MS	AIZAWL
82	Govt. Venghlui MS	AIZAWL
83	Govt. TS MS	AIZAWL
84	Govt. Tuirial Airfield MS	AIZAWL
85	Govt. Chhawrtui MS	СНАМРНАІ
86	Govt. Dulte MS	СНАМРНАІ
87	Govt. Changzawl MS	СНАМРНАІ
88	Govt. Kawlkulh MS-II	СНАМРНАІ
89	Govt. Mimbung MS	СНАМРНАІ
90	Govt. Saichal MS	CHAMPHAI

91	Govt. Hliappui MS-I	СНАМРНАІ
92	Govt. MS-III, Bilkhawthlir	KOLASIB
93	Bolia Veng UPS	LUNGLEI
94	Govt. Serte MS	LUNGLEI
95	Govt. Standard MS, Buarpui	LUNGLEI
96	Govt. Thuampui MS	LUNGLEI
97	Old Sachan UPS (SSA)	LUNGLEI
98	Govt. Phaileng 'S' MS	LUNGLEI
99	Govt. Tuipui 'D' MS	LUNGLEI
100	Govt. Gospel Centenary MS	LUNGLEI
101	Govt. Ramlaitui MS	LUNGLEI
102	Govt. THingfal MS	LUNGLEI
103	Govt. Standard MS, Bazar	LUNGLEI
104	Gulsil UPS (SSA)	LUNGLEI
105	Sukurbasora UPS (SSA)	LUNGLEI
106	Govt. Hlumte MS	LUNGLEI
107	Ralvawng MS	LUNGLEI
108	Mt. Hermon MS, Ramthar	LUNGLEI
109	Zobawk MS-I	LUNGLEI
110	Govt. RM Saikhawthlir MS	MAMIT
111	Govt. Reiek MS-I	MAMIT
112	Govt. West Lungdar MS	MAMIT
113	Andarmanik UPS (SSA)	MAMIT
114	Dampui Veng UPS (SSA)	MAMIT
115	Govt. Midland MS, Serchhip	SERCHHIP

# List of School identified for Construction of Kitchen Shed and Dining Hall @ Rs 10.70 lakh

SI. No	Name of School	District
1	Ramhlun North PS	Aizawl
2	Lengpui PS-I	Aizawl
3	Chanmari PS	Aizawl
4	Bethlehem Vengthlang PS	Aizawl
5	Bawngkawn MS-II	Aizawl
6	Salem MS	Aizawl
7	Govt. Boys PS	Aizawl
8	Collage Veng PS	Aizawl
9	Kolasib PS-V	Kolasib
10	Govt. MS, Kolasib	Kolasib
11	Govt. PS-I, Kolasib	Kolasib
12	Pukpui PS-I	Lunglei
13	Lunglawn PS-I	Lunglei
14	Electric PS-I	Lunglei
15	JNM MS, Electric	Lunglei
16	Salem MS	Lunglei
17	Govt. Mamit PS-V	Mamit
18	Govt. West Bunghmun PS	Mamit
19	Govt. Mamit MS-II	Mamit
20	CMS PS, Serchhip	Serchhip
21	Govt. Vengchung Ps	Serchhip
22	Kawlbem MS	Champhai
23	Govt. Kawlkulh MS-I	Champhai
24	Govt. Ngopa MS-II	Champhai
25	Govt. Vengthlang MS	Champhai



# DETAILED ESTIMATE FOR RECONSTRUCTION OF PRIMARY SCHOOL (Based on PWD SOR 2013)

ltem No.	Particulars of items and details of works		No	L m	B m	H/D in	Qnty.	Unit	Rate	Amount
1/2.06		hwork in excavation over areas								
		ceeding 30cm in depth,1.5m in width as				-		-		
<u> </u>	1000	excavated earth, lead upto 50m and lift						-		
		to 1.5m, disposed earth to be levelled				100				
		d neatly dressed.								
	(a)	Oridinary and Hard Soil	1	10.00	6	3.24	194.4	cum	284.30	55,267.9
2/2.08	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and						111			
		es of trenches and subsequent filling								
		d compaction in 15cm layers as in				11957				
		umn foundations, fence posts, etc. and posal of all surplus soil as directed			-					
		hin a lead of 30 metres.								
	(b)	Hard Soil (pick work)								
	(0)	Foundation F <sub>1</sub>	28	1.2	1.2	1.5	60.48			
	+	Foundation F <sub>2</sub>	14	0.9	0.9	1.2	13.608			
•	+	Septic Tank	1	260000	1.2	5000000	FW			
	+	Soak pit		2.4	-	1.5	4.32	-		-
-		Soak pit	1	1.2	1.2	1.5	2.16		207.00	
	-		_				80.568	cum	327.20	26,361.8
3/2.18	of f 20d dep	ing available excavated earth cluding rock) in trenches, plinth, sides foundations etc. in layers not exceeding cm in depth, consolidating each posited layer by ramming and watering, d up to 50 m and lift upto 1.5 m.						gi 11	-	
		2/3 of qty taken from /2.08					53.71			
		Ramps	1	10.00	1.20	0.5	6.00			
		Filling for floor	1	39.00	6.20	0.45	108.81			
							168.52	cum	90.30	15,217.54
4/4.01		roviding and laying in position cement					10/03			
	concrete of specified grade excluding cost of centering and shuttering - All work									
	COS	upto plinth level:								
	(a)	1:1.5:3 (1 cement :1.5 course sand :3								
•		stone aggregate 20mm nominal size)					T.			
			1	39.00	6.20	0.08	19.34	cum	7626.30	147,523.15
5/4.05	Providing and laying cement concrete of specified grade excluding cost of centering and shuttering- All work upto plint level.			3						
	(a)	1:5:10 (1 cement: 5 course sand: 10 stone aggregate 40mm nominal size)							12	•
		Foundation F <sub>1</sub>	28	1.2	1.2	0.1	4.032			

Item No.	Particulars of items and details of works		No.	L		B m	H/D in m	Qnty.	Unit	Rate	Amour
7			14	0.9	9	0.9	0.1	1.134			30
		Base of Septic Tank	1	2.	_	1.2	0.1	0.288			
		Base of Soak Pit	1	1.3	-	1.2	0.1	0.144			
•		ase of oddie in						5.60	cum	4806.10	26,904.55
5/5.01	Providing and laying in position reinforced cement concrete excluding cost of centering and shuttering and reinforcement in -										
	9	1:1.5:3 ( 1 cement: 1.5 coarse sand: 3 graded stone aggregate 20mm nominal size)								*	
_	$\vdash$	Foundation F <sub>1</sub>	28	1.	2	1.2	0.15	6.05			
		Foundation F <sub>2</sub>	14	0.	9	0.9	0.15	1.70			
		Column C <sub>1</sub>	28	0.2	28	0.28	1.50	3.29			
		Column C <sub>2</sub>	14	0.	2	0.2	1.20	0.67			
-		Septic Tank Cover	1	2.	4	1.2	0.1	0.29			
	_	Soak Pit Cover	1	1.	2	1.2	0.1	0.14	- Leolie		
W ##		SOAK FIL COVO.						12.15	cum	7832.30	95,129.55
7/5.03		Reinforce cement concrete work in walls, including attached pillasters,									
•		columns, pillers, posts, piers, abutments, return walls, retaining walls, struts, buttresses, string or lacing courses, fillets etc. upto floor							·		
ř		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)			00	0.00	2.0	0.447			
		Column C <sub>1</sub>	28		28	0.28	2.8	6.147		-	
		Column C <sub>2</sub>	14	0	.2	0.2	2.5	1.400 7.547	oum	7847.20	E0 240 27
8/5.04	$\vdash$	Reinforce cement concrete work in						7.547	cum	7847.20	59,219.37
0/3.04		beams, suspended floors, roofs	334							0)	
		having slope upto 15 degree landings, balconies, shelves, chajjas, lintels, bands, window sills, stair cases,									
		cantilivers upti floor five level excluding cost of centering etc complete with 1:2:4( 1 cement: 2 Coarse sand: 4 stone aggregate							s .		-61
		1:2:4( 1 cement: 2 Coarse sand: 4 graded stone aggregate 20mm									
		Beam B <sub>1</sub>	4	39	.00	0.2	0.35	10.920			
		Beam B <sub>2</sub>	16	6.:	20	0.2	0.35	6.944			
		RCC gutter	1	88	.00	0.1	0.45	3.960			
-	-	Sub Total						21.824	cum	7387.20	161,218.25
9/5.21	incl plac	el reinforcement for RCC work uding straighthening, cutting, bending, cing in position and binding all aplete.									

Item No.		Particulars of items and details of works	N	lo.	L m	B m	H/D in m	Qnty.	Unit	Rate	Amount
1		(i) Main column Footing (qty b/f from						0.05			
Samuel Services		5.42(a))						6.05 604.80	cum		
		100 kg/cum Verandah column Footing(qty b/f from					-	004.00	Kg		
		5.42(a))			1			1.70	cum		
		100 kg/cum						170.10	Kg		-
		(ii) Main Column						11.51	cum	4	
		310 kg/cum						3568.52	Kg		•
		Beam						17.86	cum		
		270 kg/cum						4823.28	Kg		
		Slab & Gutter	10	7				4.39	cum		1,000
		100 kg/cum						439.20	Kg		
		Total Weight						9605.90	Kg	83.70	804,013.96
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.							× 1		
		Foundation F <sub>1</sub>	28	4	1.2		0.1	13.440			
		Foundation F <sub>2</sub>	14	4	0.9		0.1	5.040			
								18.480	sqm	299.70	5,538.46
3	(c)	Columns, pillars, piers, abutments,									
		posts and struts. Column C <sub>1</sub>	28	4	4.30	0.28		134.848		-	
		The same of the sa	7.00065875.		2000000000		-	Section of the sectio			
		Column C <sub>2</sub>	14	4	3.70	0.28		58.016			
								192.864	sqm	506.30	97,647.04
	(d)	Lintels, beams, plinth beams, girders,					-				
*	_	bressumers and cantilevers, etc.		4			-				
		Beam B <sub>1</sub>	4	1	39.00	0.2		31.200		1	
			4	2	39		0.35	109.200			
		Beam B <sub>2</sub>	16	1	6.20	0.2		19.840			2
		-	16	2	6.20		0.35			100.10	04 004 0
							-	229.680	sqm	400.10	91,894.97
	(e)	Suspended floors, roofs, landings,							- 110192- - 100192-		
	(0)	shelves and their support, balconies						5			
		Septic Tank Cover	1	2	2.4		0.1	0.480			0-20-20-2
			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			
		RCC gutter	1		88.00	0.20		17.600			
	_							18.800	sqm	536.30	10,082.44
11/6 09	7.5	cm thick brick masonry with first class									
1110.00	bric upt	k in superstructure above plint level							- N		
3	a)	in cement moratar 1:3 ( 1 cement : 3 fine sand )									
		Outer walls		- 42							
-		W <sub>1</sub>	2		32.60		2.8	182.560			
		W <sub>2</sub>	8		4.75		2.8	106.400			
Th.		W <sub>6</sub> (wall of Toilets)	2		2.28		2.5	11.400	× 1		
			1		3.60		2.5	9.000			110000000000000000000000000000000000000
		Wall of Septic tank	1	2	2.40		1.5	7.200			
			1	2	1.20		1.5	3.600			
	-	Comb a and wall	-								
7		Cupboard wall	1	2	1.80		0.4	1.440			

Item No.	Particulars of items and details of works	N	о.	L m	B m	H/D in m	Qnty.	Unit	Rate	Amount
-7-	Deduct for openings									
	Door D	8		1		2.1	16.800			
	Door D <sub>1</sub>	4		0.7		2.1	5.880			
	Windows&Ventilations	33			-	1.65	49.005			
				0.90		0.45			1	
	Ventilation	3		0.60		0.45	0.810			
Ö.		2					72.495		GEG 10	100 107 70
		$\vdash$				-	249.105	sqm	656.10	163,437.79
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 )									
14	Soak Pit	1	4	1.20		1.8	8.640	sqm	957.20	8,270.21
	- COUNTY II		•							
13/9.06	Providing 1st class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.									211
	Door D	8		4.80	0.10	0.076	0.292		1	
		4				0.076	0.292	-		
	Door D <sub>1</sub>	4	-	4.20	0.10	0.076		- aum	43660.30	40.040.07
							0.420	cum	43000.30	18,316.37
•	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 raw 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/	6.09				49.815	sqm	3604.40	179,553.19
15/10.09	Supplying and fixing M.S. decorative railing 80cm high in staircase consisting of 25mm alluminium 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 I.W. screws to receive the wooden handrails 12.5cm x 10cm including cost of polishing the wooden rail.						8			
							10.000	Rm	1708.00	17,080.00
16/7.05	Coursed rubble masonry( first sort) with hard stone in superstructure above plint level and upto five level with:									

Item No.	y	Particulars of items and details of works	N	No.	L m	B m	H/D in m	Qnty.	Unit	Rate	Amount
71	a)	cement mortar 1 : 3 ( 1cement : 3 fine sand)									
		Ramps	2		10.00	0.25	0.5	2.50	A 15		
Terror Trades		Plith	1		78.00	0.35	0.45	12.29			
		Basement of Water tank	1		2.00	2	1.2	4.80			
		Protection (for hilly places)	1		3.20	1.2	2	7.68			
		rotection (ter tim) proces,	10.		0.20			27.27	m <sup>3</sup>	5841.90	159,279.40
17/9.11		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 <sub>1</sub>	8		1.8	1.2		17.28	m <sup>2</sup>		
		Door D <sub>2</sub>	4		1.8	0.9		6.48	m <sup>2</sup>		
		•	883		1.0	0.0	Total	23.760	m <sup>2</sup>	2400.00	57,024.00
					- Complete B						
18/12.01	: 2 20 nea cor	ment concrete flooring 1:2:4 (1 cement sand: 4 well graded stone aggregate mm size) finished with a floating coat at cement including cement slurry etc. mplete but excluding the cost of nosing steps etc.							s 3		
è		40mm thick.	1		35	6.2		217.000			
							Total	217.000	m <sup>2</sup>	432.80	93,917.60
19/14.29		Providing and fixing Brass Tower Bolts ( Socket Bolts) bright finished with necessary screws etc. complete.				(4)				6	
	-	(a) 300 mm		1							
		Doors 1		1				16	nos.	334.30	0.00
		(b) 250 mm					-		1.00.	1 00 1100	0.00
		Doors 2						8	nos.	310.80	4,972.80
20/14.32		Providing and fixing brass handles with necessary screws, etc. complete						40			
		(a) 150 mm								,	
	_	Door & Door 1					-	24	nos.	238.10	9,524.00
21/14.33		Providing and fixing bright finished brass two lever mortise door lock with necessary screws, etc. complete.									
		(a) Union type						8	nos	1381.00	11,048.00
22/15.18		Supplying, fitting and fixing 3.20mm thick decocial asbestos board ceiling with nescessary screws etc. complete excluding frame work of base and beading.	Œ						6	,	All <sub>a</sub>
	-		1	-	39	5		195.000		952.00	166 140 00
					39	3		195.000	sqm	852.00	166,140.00
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							<b>a</b> 17		

25/21.12	Providing and fixing dressed 2nd class local wood shelves supported on wooden brackets fixed at suitable distance but not exceeding 75cm apart etc. complete.  35mm thick (For Cupboard)  15mm cement plaster 1 : 3 (1 cement : 3 fine sand).  (1) Qnty BF from item no-7/6.05 (Both sides)  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 <sub>1</sub> Door D <sub>2</sub> Frame for:- Door D <sub>1</sub> Door D <sub>2</sub> Cupboard Wood Plank  Applying priming coat with ready	t		5.40 4.50 1.20 0.90 1.20	0.05 0.05	2.1	0.819 0.210 1.029 1.500 498.21 498.21 40.32	m² m² m² m² m² m²	298.20	4,101.90
(a) 25/21.12 26/21.61	local wood shelves supported on wooden brackets fixed at suitable distance but not exceeding 75cm apart etc. complete.  35mm thick (For Cupboard)  15mm cement plaster 1 : 3 (1 cement : 3 fine sand).  (1) Qnty BF from item no-7/6.05 (Both sides)  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 <sub>1</sub> Door D <sub>2</sub> Frame for:-  Door D <sub>2</sub> Cupboard Wood Plank	8 4 8 4 4 8 4 4 8 4 4 8 8 4 4 8 8 4 4 8 8 4 4 8 8 4 4 8 8 4 4 8 8 8 4 8	2	5.40 4.50 1.20 0.90	0.24	2.1	1.029 1.500 498.21 498.21 10.37 4.32	m² m² m² m²	2734.60	4,101.90
(a) 25/21.12 26/21.61	local wood shelves supported on wooden brackets fixed at suitable distance but not exceeding 75cm apart etc. complete.  35mm thick (For Cupboard)  15mm cement plaster 1 : 3 (1 cement : 3 fine sand).  (1) Qnty BF from item no-7/6.05 (Both sides)  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 <sub>1</sub> Door D <sub>2</sub> Frame for:-  Door D <sub>2</sub> Cupboard Wood Plank	8 4 4 8 4 4 A		4.50 1.20 0.90			1.500 498.21 498.21 10.37 4.32	m² m² m² m²	2734.60	4,101.90
(a) 25/21.12 26/21.61	local wood shelves supported on wooden brackets fixed at suitable distance but not exceeding 75cm apart etc. complete.  35mm thick (For Cupboard)  15mm cement plaster 1 : 3 (1 cement : 3 fine sand).  (1) Qnty BF from item no-7/6.05 (Both sides)  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 <sub>1</sub> Door D <sub>2</sub> Frame for:-  Door D <sub>2</sub> Cupboard Wood Plank	8 4 4 8 4 4 A		4.50 1.20 0.90			498.21 498.21 10.37 4.32	m² m² m²		
26/21.61	: 3 fine sand).  (1) Qnty BF from item no-7/6.05 (Both sides)  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 <sub>1</sub> Door D <sub>2</sub> Frame for:-  Door D <sub>1</sub> Door D <sub>2</sub> Cupboard Wood Plank	8 4		4.50 1.20 0.90			10.37 4.32	m² m²		
7/21.75	: 3 fine sand).  (1) Qnty BF from item no-7/6.05 (Both sides)  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 <sub>1</sub> Door D <sub>2</sub> Frame for:-  Door D <sub>1</sub> Door D <sub>2</sub> Cupboard Wood Plank	8 4		4.50 1.20 0.90			10.37 4.32	m² m²	206.10	102,681.08
8/21.84	mixed primer of approved brand and manufacture on wood work and plywood complete.  (a) Ready mix pink/grey primer.  Chaukhat for:-  Door D <sub>1</sub> Door D <sub>2</sub> Frame for:-  Door D <sub>1</sub> Door D <sub>2</sub> Cupboard Wood Plank	8 4		4.50 1.20 0.90			10.37	m² m²	206.10	102,681.08
8/21.84	mixed primer of approved brand and manufacture on wood work and plywood complete.  (a) Ready mix pink/grey primer.  Chaukhat for:-  Door D <sub>1</sub> Door D <sub>2</sub> Frame for:-  Door D <sub>1</sub> Door D <sub>2</sub> Cupboard Wood Plank	8 4		4.50 1.20 0.90			4.32	m²		
8/21.84	Chaukhat for:- Door D <sub>1</sub> Door D <sub>2</sub> Frame for:- Door D <sub>1</sub> Door D <sub>2</sub> Cupboard Wood Plank	8 4		4.50 1.20 0.90			4.32	m²		
8/21.84	Door D <sub>2</sub> Frame for:- Door D <sub>1</sub> Door D <sub>2</sub> Cupboard Wood Plank	8 4		4.50 1.20 0.90			4.32	m²		
8/21.84	Frame for:- Door D <sub>1</sub> Door D <sub>2</sub> Cupboard Wood Plank	8 4		4.50 1.20 0.90			4.32	m²		
8/21.84	Door D₁  Door D₂  Cupboard Wood Plank	8 4		1.20	0.24					
8/21.84	Door D₂ Cupboard Wood Plank	4		0.90			40.32	m <sup>2</sup>		
8/21.84	Cupboard Wood Plank	4		0.90			40.32			
8/21.84	ν.			102 102 103		40	40.00	m <sup>2</sup>		
8/21.84	ν.	0	-		0.4	1.8	12.96			
8/21.84	Applying priming cost with roads			1.20	0.4	T-4-1	3.84	m <sup>2</sup>		
8/21.84	Applying priming cost with roads	1				Total	71.81	m²	45.00	3,231.36
8/21.84	mixed primer of approved brand and manufacture on plaster surface.									
8/21.84	(a) Ready mix white primer.									
	Qnty BF from item No-	25/	21.12				498.21	m <sup>2</sup>	-	
						Total	498.21	m²	61.30	30,540.27
1 1	Applying one coat of distemper primer of approved brand and manufacture on wall surface.	8					2.1			00,000.2
	Qnty BF from item No-	22/	15.18				195.00	m <sup>2</sup>	26.10	5,089.50
9/21.79	Distempering with 1st quality acrylic washable distemper of approved						,,,,,,,		20.10	3,009.50
-	brand and manufacture and of required shade and colour to give an even shade on new work (two or more coats).				4				5	
	Qnty BF From item No-	28/2	1.84			-	195.00	m <sup>2</sup>	102.80	20,046.00
a 6	Painting with synthetic enamel paint of approved brand and manufacture in all shades on new work (two or more coats).								102.00	20,040.00
	Onty BF from item No-	26/2	1.61							

Item No.	Particulars of items and details of works	N	0.	L m	B m	H/D in	Qnty.	Uni	Rate	Amount
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	10,362.6
	Providing and fixing SWRPVC plain bend of required degree (45°) including jointing with rubber lubricant/cement solvent complete.  (a) 110 mm dia.	-					7			
	Providing and fixing single equal SWRPVC plain junction of required degree with access door (T-junction)							each	133.90	803.4
	(a) 110x110x110mm.	10						each	197.00	1,970.0
	Providing and fixing W.C. connection bend type (siphon) (SWRPVC) including jointing with rubber lubricant/ solvent									
	cement.	4						each	269.60	1,078.4
	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.		50				195			
	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:									
	WC pan with ISI marked white solid (a) plastic seat and lid	4						each	9352.70	37,410.80
36/17.22 F	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 590 x 375 x 390 mm	ye					- Continue			
fl	Providing and fixing PVC low level lushing cistern with manually Controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures						2.00	. No	2167.40	4,334.80
c	complete. (b) 10 litre capacity- coloured	4						each	1707.90	6,831.60
ir	Providing and fixing SWRPVC socket neluding jointing with rubber ubricant/cement solvent.									0,001.00
(2	a) 110mm dia socket.	10						each	126.10	1,261.00
in	roviding and fixing ventilation cowl ncluding jointing with rubber ubricant/cement solvent complete.									-1-0.100
(8	a) 110mm SWRPVC vent cowl	2					2013 II	each	78.80	157.60

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Item No.	Particulars of items and details of works	N	lo.	L m	B m	H/D in m	Qnty.	Unit	Rate	Amount
40/17.2	Providing and fixing wash basin with C.I. brackets, 15mm C.P. brass traps, 32 mm C.P. 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	9,634.
¥1/17.39	Providing anf 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							each	1716.30	3,432.6
12/17.44	Providing and fixing C.P. brass towel rail with brackets fixed to wooden cleats with C.P. brass screws with concealed fitting arragement of approved quality and							×		
	(a) 750x20mm size.	4						each	1832.60	7,330.4
3/17.46	Providing and fixing toilet paper holder.	$\neg$								
	(b) C.P. brass toilet paper holder of standard size.	4						each	497.10	1,988.4
4/17.126	Providing and fixing liquid soap container with C.P. brass lid and brackets fixed to wooden cleats with the same materials etc-completed.									1,000.4
	(a) (i) Glass container with CP lid and brackets.	2					+	aach	547.00	1 004 0
5/18.03	Providing and fixing G.I. pipes complete with G.I. fitting and clamps, including cutting and making good the walls etc. (internal works).							Cacii	347.00	1,094.0
	(b) 20mm dia nominal bore (for connection	1		20.00			20.00			
0		1		10.00			10.00			
							30.00	Rm	260.10	7,803.00
	Providing and fixing brass stop cock of approved quality.									
	(a) 15mm nominal bore		100				4.00	No	493.00	1,972.00
	Providing and fixing brass bib cock of approved quality.						,	50		
	(a) 15mm nominal bore						5.00	No	560.30	2,801.50
i	Providing and fixing G.I. Union in G.I. pipe ncluding cutting and threading the pipe and making long screws etc. complete New work).									2,001.00
	(a) 15 mm nominal bore						10.00	No -	174.80	1,748.00

(wi)

7			1	
1	yr	W	1	
	yr	Y	1	

Item No.		Particulars of items and details of works	100	No.	L m	B m	H/D in	Qnty.	Uni	Rate	Amount
-		22									
	(b)	20 mm nominal bore	_					2.00	No	186.40	372.
	wat incl	I viding and placing in position electric er pump of approved manufacture uding connections to G.I pipes etc. aplete with accessories.	-								
		750 watts						1.00	each	10280.4	0 10,280.
- i	Galo colo inclu drilli was	viding Trapezoidal Polyester Coated vanised Steel Sheets Roofing of any our of 1.06m width at all levels uding fitting and fixing ridging with selfing, self tapping screws, EPDM hers etc. complete excluding the cost urlin, rafter and trusses.									
	(i)	For 0.50mm thick:	1		40.00	7.8		312.00	sqm	1015.00	316,680.0
i v	Galv colo nclu drilli wasl	viding Trapezoidal Polyester Coated vanised Steel Sheets Roofing of any ur of 1.06m width at all levels uding fitting and fixing ridging with selfing, self tapping screws, EPDM hers etc. complete excluding the cost urlin, rafter and trusses.	-								
	(i)	For 0.50mm thick:							C SE SII	<u> </u>	
	.,	Ridges & Valley	1		45.00			45.00	m	486.40	21,888.0
fi fi c (I	veld ram ixing oat In T	ctural steel work rivetted, bolted ed in built up sections, trusses and ed works, including cutting, hoisting, in position and applying a priming of approved steel primer all complete. Tees, R.S. Joists, Angles, Flats and inels.)									
		Steel truss @4kg/sqm						1000.00	kg	90.80	00 900 0
		iding and fixing portable fire guisher						1000.00		30.00	90,800.00
		ire Extinguisher Water-CO2	3					3.00	No	4924.20	14,772.60
le ap co su ne ar	ppro over uital esce	ding and fixing on terrace (at all floor s) Polyethylene storage tank of oved brand and manufacture with and mosquito proof coupling and tole locking arrangement and making essary connections for inlet, outlet overflow pipes but without the cost for support.									
		Nos of 4000 litres for Rain water arvesting						8000.00	litus	40.00	
								0000.00	nae	12.00 Total	96,000.00 <b>3,309,240.21</b>
							The state of the s			9.00 01.00	3,309,240.21
ectrificati	on (	(enclosed)							Here a constitution of	Total	
										Total	90,800.00
											3,400,040.21
						200 20011			Rupas		ur lakh) only.

ALL DIMENSIONS ARE IN MM OTHERWISE MENTIONED Teacher's Class - 1 Class - II Closs - III Camman Class -- (V Class – V Koom PROJECT: RECONSTRUCTION OF PRIMARY SCHOOL SHEET TITLE : Plan SCALE 1:100 PREPARED BY : DENNIS LALHLIMPUIA Civil Works Coordinator Mizoram SSA Mission



## DETAILED ESTIMATE FOR RECONSTRUCTION OF UPPER PRIMARY SCHOOL (Based on PWD SOR 2013)

	Particulars of items and details of works		N	lo.	L	B	H/D in	Qnty.	Unit	Rate	Amount
1/2.06		areas			1						
	(exeeding 30cm in depth,1.5m in v	width as									
	well as 10sqm on plan) including of										
÷	of excavated earth, lead upto 50m										
	upto 1.5m, disposed earth to be	levelled									
	and neatly dressed.									ł	
	1.112.11					L					
-	(a) Oridinary and Hard Soil		1_	200	16.00	9.4	2	300.8	cum	284.30	85,517.4
2/2.08	Earthwork in excavation in fou	undation									
	trenches etc. not exceeding 2										
	depth including dressing of botto										
	sides of trenches and subsequer	nt filling									
	and compaction in 15cm layers	as in			C SUP						
	column foundations, fence posts,										
	disposal of all surplus soil as	directed						***************************************			
	within a lead of 30 metres.										
	B 18		1				1				
					-						
	(b) Hard Soil (pick work)								<u></u>		
	Foundation F <sub>1</sub>		18		1.8	1.8	1.8	104.976			
	Foundation F <sub>2</sub>		9		0.9	0.9	1.8	13.122			
-//	Septic Tank		2		2.4	1.2	1.8	10.368			
_ ~	Soak pit		2		1.2	1.2	1.8	5.184	1 14		YAND WEST
		377						133.65	cum	327.20	43,730.28
3,2.18	Filling available excavated										
	(excluding rock) in trenches, plinth of foundations etc. in layers not exc 20cm in depth, consolidating	ceeding									
		ceeding each atering,	2					×		70	
	of foundations etc. in layers not exc 20cm in depth, consolidating deposited layer by ramming and w lead up to 50 m and lift upto 1.5 m.	ceeding each atering,	38					89.10		,	
	of foundations etc. in layers not exc 20cm in depth, consolidating deposited layer by ramming and w	ceeding each atering,	1		10.00	1.52	0.5	89.10 7.60			
	of foundations etc. in layers not exc 20cm in depth, consolidating deposited layer by ramming and w lead up to 50 m and lift upto 1.5 m.	ceeding each atering,	1		10.00 29.60	1.52 7.80	0.5 0.45	- STANSON STREET	3		
	of foundations etc. in layers not exc 20cm in depth, consolidating deposited layer by ramming and w lead up to 50 m and lift upto 1.5 m. 2/3 of qty taken from /2.08 Ramps	ceeding each atering,			A CONTRACTOR OF THE PARTY OF TH			7.60	cum	90.30	18,113.82
	of foundations etc. in layers not exc 20cm in depth, consolidating deposited layer by ramming and w lead up to 50 m and lift upto 1.5 m. 2/3 of qty taken from /2.08 Ramps	ceeding each atering,			A CONTRACTOR OF THE PARTY OF TH			7.60 103.90	cum	90.30	18,113.82
4/4.01	of foundations etc. in layers not exc 20cm in depth, consolidating deposited layer by ramming and w lead up to 50 m and lift upto 1.5 m. 2/3 of qty taken from /2.08 Ramps	ceeding each ratering,			A CONTRACTOR OF THE PARTY OF TH			7.60 103.90	cum	90.30	18,113.82
4/4.01	of foundations etc. in layers not exc 20cm in depth, consolidating deposited layer by ramming and w lead up to 50 m and lift upto 1.5 m.  2/3 of qty taken from /2.08  Ramps  Filling for floor  Providing and laying in position co-	each each each each each each each each			A CONTRACTOR OF THE PARTY OF TH			7.60 103.90	cum	90.30	18,113.82
4/4.01	of foundations etc. in layers not exc 20cm in depth, consolidating deposited layer by ramming and w lead up to 50 m and lift upto 1.5 m.  2/3 of qty taken from /2.08  Ramps  Filling for floor  Providing and laying in position concrete of specified grade exclusions of centering and shuttering - A	each each each each each each each each			A CONTRACTOR OF THE PARTY OF TH			7.60 103.90	cum	90.30	18,113.82
4/4.01	of foundations etc. in layers not exc 20cm in depth, consolidating deposited layer by ramming and w lead up to 50 m and lift upto 1.5 m.  2/3 of qty taken from /2.08  Ramps  Filling for floor  Providing and laying in position co-	each each each each each each each each			A CONTRACTOR OF THE PARTY OF TH			7.60 103.90	cum	90.30	18,113.82
4/4.01	of foundations etc. in layers not exc 20cm in depth, consolidating deposited layer by ramming and w lead up to 50 m and lift upto 1.5 m.  2/3 of qty taken from /2.08  Ramps  Filling for floor  Providing and laying in position concrete of specified grade exclusions of centering and shuttering - A	each each each each each each each each			A CONTRACTOR OF THE PARTY OF TH			7.60 103.90	cum	90.30	18,113.82
4/4.01	of foundations etc. in layers not exc 20cm in depth, consolidating deposited layer by ramming and w lead up to 50 m and lift upto 1.5 m.  2/3 of qty taken from /2.08  Ramps  Filling for floor  Providing and laying in position concrete of specified grade exclusions of centering and shuttering - A	each each attering,			A CONTRACTOR OF THE PARTY OF TH			7.60 103.90	cum	90.30	18,113.82
4/4.01	of foundations etc. in layers not exc 20cm in depth, consolidating deposited layer by ramming and w lead up to 50 m and lift upto 1.5 m.  2/3 of qty taken from /2.08  Ramps Filling for floor  Providing and laying in position concrete of specified grade exclusions of centering and shuttering - A upto plinth level:	ement uding all work			A CONTRACTOR OF THE PARTY OF TH			7.60 103.90	cum	90.30	18,113.82
4/4.01	of foundations etc. in layers not exc 20cm in depth, consolidating deposited layer by ramming and w lead up to 50 m and lift upto 1.5 m.  2/3 of qty taken from /2.08  Ramps Filling for floor  Providing and laying in position concrete of specified grade exclusions of centering and shuttering - A upto plinth level:  (a) 1:1.5:3 (1 cement :1.5 course seed to see the constant of the course seed to see the course see the course seed to see the course	ement uding all work			A CONTRACTOR OF THE PARTY OF TH			7.60 103.90	cum	90.30	18,113.82
	of foundations etc. in layers not exc 20cm in depth, consolidating deposited layer by ramming and w lead up to 50 m and lift upto 1.5 m.  2/3 of qty taken from /2.08 Ramps Filling for floor  Providing and laying in position co- concrete of specified grade exclu- cost of centering and shuttering - A upto plinth level:  (a) 1:1.5:3 (1 cement :1.5 course s stone aggregate 20mm nomina	ement uding all work sand :3 al size)	1		29.60	7.80	0.45	7.60 103.90 200.60			
	of foundations etc. in layers not exc 20cm in depth, consolidating deposited layer by ramming and w lead up to 50 m and lift upto 1.5 m.  2/3 of qty taken from /2.08  Ramps Filling for floor  Providing and laying in position ce concrete of specified grade exclu cost of centering and shuttering - A upto plinth level:  (a) 1:1.5:3 (1 cement :1.5 course s stone aggregate 20mm nominal	ement uding all work sand :3 all size)	1		29.60	7.80	0.45	7.60 103.90 200.60			
5	of foundations etc. in layers not exc 20cm in depth, consolidating deposited layer by ramming and w lead up to 50 m and lift upto 1.5 m.  2/3 of qty taken from /2.08 Ramps Filling for floor  Providing and laying in position concrete of specified grade exclutions of centering and shuttering - A upto plinth level:  (a) 1:1.5:3 (1 cement :1.5 course s stone aggregate 20mm nominal  Providing and laying cement conc specified grade excluding concentering and shuttering - All wor plint level.  1:5:10 (1 cement: 5 course sand astone aggregate 40mm nominal	ement uding all work sand :3 al size)	1		29.60	7.80	0.45	7.60 103.90 200.60			
5	of foundations etc. in layers not exc 20cm in depth, consolidating deposited layer by ramming and w lead up to 50 m and lift upto 1.5 m.  2/3 of qty taken from /2.08  Ramps Filling for floor  Providing and laying in position ce concrete of specified grade exclu- cost of centering and shuttering - A upto plinth level:  (a) 1:1.5:3 (1 cement :1.5 course s stone aggregate 20mm nominal  Providing and laying cement conc specified grade excluding co- centering and shuttering- All wor plint level.  1:5:10 (1 cement: 5 course sand stone aggregate 40mm nominal Foundation F <sub>1</sub>	ement uding all work sand :3 all size)	1		29.60	7.80	0.45	7.60 103.90 200.60			
4/4.01 5/4.05	of foundations etc. in layers not exc 20cm in depth, consolidating deposited layer by ramming and w lead up to 50 m and lift upto 1.5 m.  2/3 of qty taken from /2.08 Ramps Filling for floor  Providing and laying in position concrete of specified grade exclutions of centering and shuttering - A upto plinth level:  (a) 1:1.5:3 (1 cement :1.5 course s stone aggregate 20mm nominal  Providing and laying cement conc specified grade excluding concentering and shuttering - All wor plint level.  1:5:10 (1 cement: 5 course sand astone aggregate 40mm nominal	ement uding all work sand :3 al size)	1		29.60	7.80	0.45	7.60 103.90 200.60			

tem No.		Particulars of items and details of works	No.	L m	B m	H/D in m	Qnty.	Unit	Rate	Amount
-1		Base of Soak Pit	2	1.2	1.2	0.15	0.432			
							11.14	cum	4806.10	53,527.94
6/5.01	cen cen rest	I viding and laying in position reinforced nent concrete excluding cost of stering and shuttering and inforcement in - work upto plint level								
	(a)	1:1.5:3 ( 1 cement: 1.5 coarse sand: 3 graded stone aggregate 20mm nominal size)								
W.	-	Foundation F <sub>1</sub>	18	1.8	1.8	0.15	8.75	-		
	$\vdash$	Foundation F <sub>2</sub>	9	0.9	0.9	0.15	1.09			
	-	Column C <sub>1</sub>	18	0.35	0.35	1.80	3.97			
	-	Column C <sub>2</sub>	9	0.25	0.25	1.80	1.01			
	-	Septic Tank Cover	2	2.4	1.2	0.15	0.86			
		Soak Pit Cover	2	1.2	1.2	0.15	0.43			
		OCAKT IK OCYCI					16.12	cum	7832.30	126,248.84
7/5.03		Reinforce cement concrete work in walls, including attached pillasters, columns, pillers, 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.								
ş	(a)	1:1.5:3 ( 1 cement: 1.5 coarse sand: 3 graded stone aggregate 20mm nominal size)			X					
		Column C <sub>1</sub>	18	0.3	0.3	3.3	5.346			
		Column C <sub>2</sub>	9	0.25	0.25	3.3	1.856			
		Reinforce cement concrete work in					7.202	cum	7847.20	56,517.50
8/5.04		beams, suspended floors, roofs having slope upto 15 degree landings, balconies, shelves, chajjas, lintels, bands, window sills,stair cases, cantilivers upti floor five level excluding cost of centering etc complete with 1:2:4( 1 cement: 2 Coarse sand: 4 stone aggregate							a a	0.
		20mm) 1:2:4( 1 cement: 2 Coarse sand: 4								
	-	graded stone aggregate 20mm		Spines -		20° 500000	98.050.000.000			
		Beam B <sub>1</sub>	4	29.60	0.25	0.35	10.360			
		Beam B <sub>2</sub>	12	7.80	0.25	0.35	8.190			
		RCC gutter Sub Total	1	74.80	0.1	0.45	3.366 21.916	cum	7387.20	161,897.88
		Sub Total					21.010	Cum	7307.20	101,037.00
9/5.21	incl pla	eel reinforcement for RCC work luding straighthening, cutting, bending, cing in position and binding all inplete.								
	(f)	Thermo- Mechanically Treated bars.								
		(i) Main column Footing (qty b/f from 5.42(a))					8.75	cum		
		100 kg/cum		-2-			874.80	Kg		

Item No.		Particulars of items and	N	lo.	L	В	H/D in	Qnty.	Unit	Rate	Amount
STREET,		details of works			m	m	m	Girey.	Onne		Amount
1		Verandah column Footing(qty b/f from	180								
		5.42(a))						1.09	cum		
		100 kg/cum						109.35	Kg		
		(ii) Main Column						12.18	cum		
N.		310 kg/cum						3776.96	Kg		
		Beam	1					18.55	cum		
3	1	270 kg/cum						5008.50	Kg		
		Slab & Gutter					-	4.66	cum		
· · · · · · · · · · · · · · · · · · ·	¥	100 kg/cum					The state of the s	466.20	Kg		
	Ì	Total Weight						10235.81	Kg	83.70	856,737.51
	$\vdash$	Total Weight						10200.01	7.9	00.70	000,107.01
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.	40		20020	-	7020 200	V-200 2 837628	-		
		Foundation F <sub>1</sub>	18	4	1.2		0.1	8.640			
		Foundation F <sub>2</sub>	9	4	0.9		0.1	3.240			
								11.880	sqm	299.70	3,560.44
	(c)	Columns, pillars, piers, abutments,									
		posts and struts.									
		Column C <sub>1</sub>	18	4	3.30	0.3		71.280			
		Column C <sub>2</sub>	9	4	3.30	0.3		35.640	-		
	-							106.920	sqm	506.30	54,133.60
	(d)	Lintels, beams, plinth beams, girders,						100.020	Sqiii	000.00	04,100.00
	(u)	bressumers and cantilevers, etc.									
	-	Beam B <sub>1</sub>	4	1	20.00	0.05		20.000			
	_	Dealli D <sub>1</sub>	0.000		29.60	0.25	0.05	29.600			
			4	2	29.6	-	0.35	82.880			
		Beam B <sub>2</sub>	12	1	7.80	0.25		23.400			
			12	2	7.80		0.35	65.520			
								201.400	sqm	400.10	80,580.14
	(e)	Suspended floors, roofs, landings,									
	_	shelves and their support, balconies	_	_	0.4		0.4	0.000			
	_	Septic Tank Cover	2	2	2.4	4.0	0.1	0.960			e en
	-	- 1 - 2   2	2	2	4.0	1.2	0.1	0.480			
	_	Soak Pit Cover	2	2	1.2	4.0	0.1	0.480			
	_		2	2	74.00	1.2	0.1	0.480 29.920			
		RCC gutter	2	-	74.80	0.20		32.320	0000	E26 20	17,333.22
	-							32.320	sqm	536.30	17,333.22
11/6.06	sup	If brick masonry with first class brick in perstructure aboveplint level upto floor evel.									
	a)	in cement moratar 1:3 ( 1 cement : 3 fine sand )									
-		Outer walls					7				
		W <sub>1</sub>	2		29.60		3.3	195.360	-		
•		W <sub>2</sub>	7	,	6.00		3.3	138.600			(9)
-	1	W <sub>6</sub> (wall of Toilets)	4		2.28		2.8	25.536			
<del></del>	1	000	6		1.30		2.8	21.840			
•	1		1		3.60		3.3	11.880	-		
	-	Wall of Septic tank	2	2	2.40		1.8	17.280			
-	-	vvali di deptic tarik	2	2	1.20		1.8				
	-	Combandoral	3				2000	8.640		-	
		Cupboard wall	3	2	1.80		0.4	4.320			
-	_							423.456			
		Deduct for openings									
		Door D	7		1.2		2.1	17.640			
		Door D <sub>1</sub>	10		0.7		1.8	12.600			
						THE RESERVE					

tem No.	Particulars of items and details of works	No	0.	L m	B	H/D in m	Qnty.	Unit	Rate	Amount
	Windows&Ventilations	21	-	0.90		1.65	31.185			
}-	Ventilation	5		0.60		0.45	1.350			
	Volumentori			0.00			62.775			
							360.681	sqm	1040.90	375,432.85
•										
12/6.08	Honey-comb half brick masonry with first									
	class brick in foundation upto one storey									
	above and below ground level including		2							
	curing, etc. complete.									
	a) in cement mortar 1 : 3 ( 1 cement : 3									
	fine sand )									
	Soak Pit	2	4	1.20		1.8	17.280	sqm	957.20	16,540.42
13/9.06	Providing 1st class local wood dressed in									
	frames of chaukat for doors, windows, clerestory windows fixed in position.									
	l l l l l l l l l l l l l l l l l l l						,	3		
	Door D	7		4.80	0.10	0.1	0.336			
	Door D <sub>1</sub>	10		4.20	0.10	0.1	0.420			
							0.756	cum	43660.30	33,007.19
14/10.05	Providing and fixing steel glazed doors,									
p5	windows, ventilators of standard rolled									
	steel sections, joints, mitered and welded									
	with 15x3mm lugs 10cm long embedded									
	in cement concrete blocks 15x10x10cm									12
•	size of 1:3:6 (1 cement : 3 coarse sand : 6 stone aggregate 20mm nominal size) or									
	with wooden plugs and screws or rawl					11.00	Section 1			
3	plugs and screws or with fixing clips or									
	with bolts and nuts as required, including			Sell reserve						
	providing and fixing of glass panes with									
	glazing clips and special metal sash putty									
	of approved make complete including					77				
-	applying a priming coat of approved steel				-		-			
	primer excluding the cost of metal beading		0							
	and other fittings except necessary hinges		-							
	or pivots as required.									
	(a) Using 3mm thick glass panes.									
	qty taken from	11/6	3.06				32.535	sqm	3604.40	117,269.15
5/10 09	Supplying and fixing M.S. decorative						8			
0/10.00	railing 80cm high in staircase consisting of									
	25mm alluminium 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 I.W.									
	screws to receive the wooden handrails									
ė.	12.5cm x 10cm including cost of polishing			16	1 1					
	the wooden rail.		-				40.000		1500.00	17.000.00
	Ramp Railing	-					10.000	Rm	1708.00	17,080.00
6/7.05	Coursed rubble masonry( first sort) with									
	hard stone in superstructure above plint level and upto five level with:									
	a) cement mortar 1 : 3 ( 1cement : 3 fine sand)									
2 <del>-0</del>	Ramps	2		10.00	0.25	0.5	2.50			
				1 .0.00	0.20	0.0	2.00	L		

Item No.	Particulars of items and	No	. L	В	H/D in	Qnty.	Unit	Rate	Amount
	details of works	- 1	m	m	m	10000000	10000000		
	Plith	1	74.80	0.3	0.45	10.10			
	Basement of Water tank	1	2.00	2	1.2	4.80			
	Protection (for hilly places)	1	5.00	1	1.62	8.10	3	5044.00	
2		_				25.50	m <sup>3</sup>	5841.90	148,956.77
17/9.11	Providing and fixing 1st class local wood panelled shutters for doors etc. including M.S. butt hinges with necessary screws, etc. complete.						82		
	(c) 30 mm thick								
	Door D <sub>1</sub>	7	1.8	1.2		15.12	m <sup>2</sup>		
	Door D <sub>2</sub>	10	1.8	0.9		16.20	m <sup>2</sup>		
	200. 22	10	1.0	0.9	Total		m <sup>2</sup>	2400.00	75 160 O
		-	_		Total	31.320	m	2400.00	75,168.00
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	29.6	7.8		230.880	m <sup>2</sup>		
	40mm unck.	-					-	100.00	
		_			Total	230.880	m	432.80	99,924.86
19/14.29	Providing and fixing Brass Tower Bolts ( Socket Bolts) bright finished with necessary screws etc. complete.						10		
	(a) 300 mm								
-	Doors 1					14	nos.	334.30	0.00
	(b) 250 mm				0				
	Doors 2					20	nos.	310.80	4,351.20
20/14.32	Providing and fixing brass handles with necessary screws, etc. complete					48			
	(a) 150 mm								
	Door & Door 1					34	nos.	238.10	11,428.80
1/14.33	Providing and fixing bright finished brass two lever mortise door lock with necessary screws, etc. complete.								*(
-	(a) Union type					7	nos	1381.00	9,667.00
2/15.18	Supplying, fitting and fixing 3.20mm thick decocial asbestos board ceiling with nescessary screws etc. complete excluding frame work of base and beading.							,	i.
		1	29.6	7.8		230.880	sqm	852.00	196,709.76
*	1								
3/15.24	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		20.5	0.05	0.07	0.00			
	Ceiling	5	22.5	0.05	0.07	0.394			47
		19	7.8	0.05	0.07	0.519	3		A=2.5
						0.912	m <sup>3</sup>	298.20	272.09

(70)

tem No.	Pa	rticulars of items and details of works	N	lo.	L m	ВЕ	H/D in m	Qnty.	Unit	Rate	Amount
24/: 1/9	local wo	ag and fixing dressed 2nd class and shelves supported on wooden fixed at suitable distance but not							a.		
		ng 75cm apart etc. complete. nick (For Cupboard)	3	4	1.2	0.4	0.025	0.144	m²	2734.60	393.78
25/21.12	: 3 fine	cement plaster 1 : 3 (1 cement sand).  y BF from item no-7/6.05 (Both					94				
	sides)	y BF IIOIII Itelii 110-770.03 (Botii					AS.	721.36			
								721.36	m²	206.10	148,672.71
6/21.61	mixed p manufa	g priming coat with ready primer of approved brand and acture on wood work and d complete.	-								
		dy mix pink/grey primer.									
	Door D	1	7		5.40	0.24		9.07	m <sup>2</sup>		
	Door D	2	10		4.50	0.24		10.80	m <sup>2</sup>		
	Frame	for:-									
	Door D	1	7	2	1.20		2.1	35.28	m <sup>2</sup>		
	Door D	2	10	2	0.90		1.8	32.40	m <sup>2</sup>		
	Cupboa	ard Wood Plank	12		1.20	0.4		5.76	m <sup>2</sup>		
					1		Total	93.31	m²	45.00	4,199.04
27/21.75	mixed p	g priming coat with ready primer of approved brand and octure on plaster surface.									
	(a) Rea	dy mix white primer.									
		F from item No-	25/2	21.12				721.36	m <sup>2</sup>		
							Total	721.36	m²	61.30	44,219.49
8/21.84	of appr	g one coat of distemper primer oved brand and manufacture surface.						7, 5	*		
	Qnty Bi	F from item No-	22/	5.18				230.88	m <sup>2</sup>	26.10	6,025.97
29/21.79	washab brand a required	pering with 1st quality acrylic ble distemper of approved and manufacture and of d shade and colour to give an hade on new work (two or more								5	
	Qnty Bl	From item No-	28/2	21.84				230.88	m <sup>2</sup>	102.80	23,734.46
0/21.92	approve	g with synthetic enamel paint of ed brand and manufacture in des on new work (two or more	27				22				
•	Qnty Bl	from item No- eral quality	26/2	21.61				93.31	m <sup>2</sup>	81.50	7,604.93
1/17.49	Providing	and fixing on wall face									
	including	soil, waste and vent pipes jointing with rubber ment solvent complete.		-							
	(a) 110mm	ACCUSATION OF THE PROPERTY OF THE PROPERTY ACCUSATION OF THE PROPERTY ACCUS	2		13.50			27.00	Rm	383.80	10,362.60

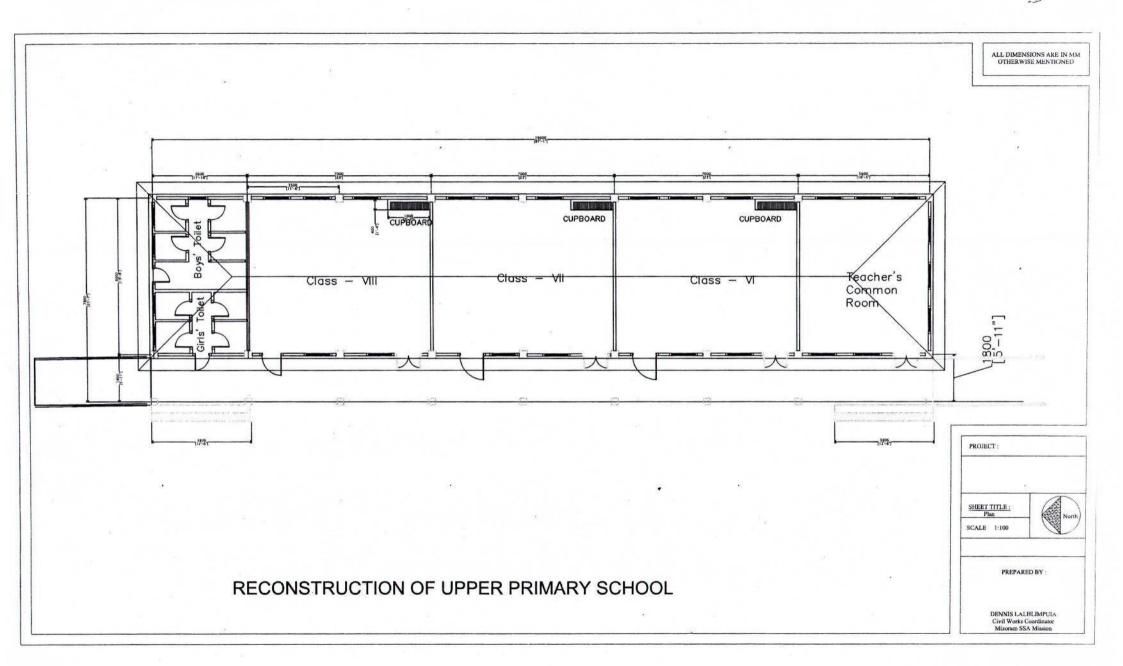
tem No.	Particulars of items and details of works	N	о.	L m	B m	H/D in m	Qnty.	Unit	Rate	Amount
32/17.51	Providing and fixing SWRPVC plain bend of required degree (45°) including jointing with rubber lubricant/cement solvent complete.  (a) 110 mm dia.	4					Ť	each	133.90	535.6
33/17.53	Providing and fixing single equal SWRPVC plain junction of required degree with access door (T-junction)									
	(a) 110x110x110mm.	10				3.5		each	197.00	1,970.0
34/17.59	Providing and fixing W.C. connection bend type (siphon) (SWRPVC) including jointing with rubber lubricant/ solvent cement.	4					•	each	269.60	1,078.4
35/17.07	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:									
·	WC pan with ISI marked white solid (a) plastic seat and lid	2						each	9352.70	18,705.4
6/17.17	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									
7/17.26	(i) White  Providing and fixing PVC low level flushing cistern with manually Controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures	2						each	6863.10	13,726.2
	complete. (b) 10 litre capacity- coloured	2						each	1707.90	3,415.8
8/17.57	Providing and fixing SWRPVC socket including jointing with rubber lubricant/cement solvent.									
2	(a) 110mm dia socket.	10						each	126.10	1,261.0
9/17.58	Providing and fixing ventilation cowl including jointing with rubber lubricant/cement solvent complete.									
	(a) 110mm SWRPVC vent cowl			<b> </b>				-	78.80	315.2

Item No.	Particulars of items and	No.	L	В	H/D in	Qnty.	Unit	Rate	Amount
	details of works Providing and fixing wash basin with C.I.		m	m	m				
40/1 27	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.						8		
•	(a) White Vitreous China Wash basin								
-	size 630x450mm with a single 15mm				<u> </u>				
	C.P. brass pillar tap.	2					each	4817.30	9,634.60
41/17.39	Providing anf 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								
	Tectangular snape 300,400mm	2					each	1716.30	3,432.60
42/17 44	Providing and fixing C.P. brass towel rail						-	1	-
12/17:11	with brackets fixed to wooden cleats with					mese e	-		
	C.P. brass screws with concealed fitting			1-11-					
	arragement of approved quality and								
							10000		
	(a) 750x20mm size.	4					each	1832.60	7,330.40
10/17 10	Bookidian and fining to list and a second								
43/17.46	Providing and fixing toilet paper holder.								
	(b) C.P. brass toilet paper holder of								
	standard size.	2						407.40	004.00
		-	_				eacn	497.10	994.20
	Providing and fixing liquid soap container						100.00		
	with C.P. brass lid and brackets fixed to								
	wooden cleats with the same materials etc						<b>†</b>		
	completed.								
	(a) (i) Glass container with CP lid and								
	brackets.	2				947 275	each	547.00	1,094.00
45/18.03	Providing and fixing G.I. pipes complete	, <u></u>						-	
	with G.I. fitting and clamps, including cutting and making good the walls etc.								
	(internal works).							<	
	(internal works).								
	// \  \  \  \  \  \  \  \  \  \  \  \  \			nice e			-		
	(b) 20mm dia nominal bore (for connection	1	20.00			20.00	41		
		1	10.00			10.00			
	-				manual and a second	30.00	Rm	260.10	7,803.00
-70			MMS						
46/18.09	Providing and fixing brass stop cock of	į.							
	approved quality.								
	(a) 15mm nominal bore					4.00	<b></b>	100.00	
	(a) Torrini Horninar Bore					4.00	No	493.00	1,972.00
47110 00	Providing and fixing brass bib cock of								
4/118.08	approved quality.								
	approved quanty.								
	(a) 15mm nominal bore					5.00	No	560.30	2,801.50
10/10 10	Providing and fixing G.I. Union in G.I. pipe								
+0/18.12	including cutting and threading the pipe								
	and making long screws etc. complete								
	(New work) .								
	(a) 15 mm nominal bore					10.00	No	174.80	1 740 00
						10.00	740	174.00	1,748.00
	(h) 20		-					400 10	
	(b) 20 mm nominal bore	-	-8-			2.00	No	186.40	372.80

(Fri)

						T versus		_	1	
Item No.		Particulars of items and details of works	No.	l m	B	H/D in	Qnty.	Unit	Rate	Amount
-4										
49/18.29	Pro	viding and placing in position electric								
		er pump of approved manufacture								
,		uding connections to G.I pipes etc. plete with accessories.								
		**************************************								
	(b)	750 watts					1.00	each	10280.40	10,280.4
50/16.37	Pro	viding Trapezoidal Polyester Coated		-			-			
50/16.3/		vanised Steel Sheets Roofing of any		_				-		
	cold	our of 1.06m width at all levels		-		ļ	-	-		
		uding fitting and fixing ridging with self								
		ing , self tapping screws, EPDM thers etc. complete excluding the cost								
		urlin, rafter and trusses.								
	(i)	For 0.50mm thick:	1	29.60	7.8		230.88	sqm	1015.00	234,343.2
	(-)	Total old old miles i		20.00	7.0		250.00		1013.00	234,343.2
51/16.37	Prov	viding Trapezoidal Polyester Coated						+		
		vanised Steel Sheets Roofing of any							<u> </u>	
		our of 1.06m width at all levels							-	-
		uding fitting and fixing ridging with selfing , self tapping screws, EPDM								
		hers etc. complete excluding the cost								
		urlin, rafter and trusses.								
	(i)	For 0.50mm thick:								
		Ridges & Valley	1	47.50			47.50	m	486.40	23,104.00
_										
		ctural steel work rivetted, bolted								
-		ded in built up sections, trusses and led works, including cutting, hoisting,								
		g in position and applying a priming								
	coat	of approved steel primer all complete.								
		Tees, R.S. Joists, Angles, Flats and								
	Cha	nnels.)				incer ex	,			
		Steel truss @4kg/sqm					923.52	kg	90.80	83,855.62
53/18.02	Prov	riding and fixing portable fire								
		nguisher	-							
		Fire Extinguisher Water-CO2								
0/40 00		type,capacity-9litres iding and fixing on terrace (at all floor	3	-			3.00	No	4924.20	14,772.60
		s) Polyethylene storage tank of	_							
		oved brand and manufacture with								
		r and mosquito proof coupling and			-20					
	suita	ble locking arrangement and making essary connections for inlet, outlet	_							
		overflow pipes but without the cost for								
		support.								
	Is	2 Nos of 4000 litres for Rain water	-	-						
		narvesting						0.20		papera saperana series
				11			8000.00	litre	12.00	96,000.00
									Total	3,590,326.99
lost-if		Francisco							Total	3,590,326.99
ectrificati	ion (	Enclosed)								109,764.00
									Total	3,700,090.99
					111				Sav	3,700,000.00

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### ESTIMATE FOR RECONSTRUCTION OF SECONDARY SCHOOL ILDING

SI.no	Description of Items	No	L	В	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		المستخفر		a .			4. 4.	
	a) Ordinary and hard soil	1	20.00	10.00	1.00	cum .	200.00		*
		N., 1		4 1 10	Total:	cum	200.00	284.30	56860.00
2/2.08	Earth work in excavation in foundation trenches								
	( b ) Hard Soil ( Pick work )					- 1			
	Column Foundations								
	C1	12	1.50	1.50	1.50	cum	40.50		T. C. C. C. C.
	C2	11	1.50	1.50	1.50	cum	37.13	50 m 100 m	
	C3 (Verandah)	12	1.20	1.20	1.50	cum	25.92		
	C4	20	1.50	1.50	1.50	cum	67.50		
	8 9 9 85				Total:	cum	171.05	327.20	55965.92
	Filling available excavated earth (excluding rock) in trenches, plinth, etc. in layers not exceeding 20								
	Qnty. BF from S.No.	2/2.08			· ·		171.05		
	Deduct from earthwork				108				
	Column				N. A.				
	C1	12	0.30	0.30	1.05	cum	-1.134		
	C2	11	0.30	0.30	1.05	cum	-1.040		
	C3 (Verandah)	12	0.25	0.25	1.05	cum	-0.788		
	C4	20	0.30	0.30	1.05	cum	-1.890	1	
	Footing	***				=			
2.75	F1	12	1.50	1.50	0.35	cum	-9.450		4
	F2	11	1.50	1.50	0.35	cum	-8.663		25 30
	F3 (verandah)	12	1.20	1.20	0.35	cum	-6.048		
	F4	20	1.50	1.50	0.35	cum	-15.750	\$11	
	Column Foundation								100
	f1	12	1.50	1.50	0.10	cum	-2.700		*****
	f2	11	1.50	. 1.50		cum	-2.475		
	F3 (verandah)	12	1.20	1.20	0.10	cum	-1.728		
	f4	20	1.50	1.50			-4.500		
					Total:	cum	114.88	90.30	10,373.7
	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth level:								
2.1	(a) 1: 3: 6	-							1



SI.no		Description of Items	No	L	В	D	Unit	Qty	Rate	Amount.
		Column Foundation				-				
	1	C1	12	1.50	1.50	0.10	cum	2.700		74
		C2	- 11	1.50	1.50	0.10	cum	2.475		
		C3 (Verandah)	. 12	1.20	1.20	0.10	cum	1.728		
Z.V.		C4	20	1.50	1.50	0.10	cum	4.500		
		Ramp up	2	2.00	1.83	0.10	cum	0.732		
						Total	cum	12.135	5968.30	72,422.93
5/5.35	ma M-2	oviding and laying in position machine batched, chine mixed and machine vibrated design mix 20 grade reinforced cement concrete excluding at of centering and shuttering and reinforcement								
-	(a)	All work upto foundation & plinth level.								
1 1	8	Footing		-						
		F1	12	1.50	1.50	0.13	cum	3.38	27	
		F2	11	1.50	1.50	0.13	cum	3.09		
		F3 (verandah)	12	1.20	1.20	0.13	cum	2.16		
		F4	20	1.50	1.50	0.13	cum	5.63		···
		Column		1.00	1.00			7. 7. 7		
		C1	12	0.30	0.30	1.350	cum	1.46		*
		C2	11	0.30	0.30	1.350	cum	1.34		
		C3 (Verandah)	12	0.25	0.25	1.050	cum	0.79		
		C4	20	0.30	0.30	1.350	cum	2.43		
M						Total	cum	20.27	8847.30	179297.1
	(b)	All work above plinth level up to Floor V level					Juni		50 11.00	A.774 Y
		Column								
		C1 :	23	0.30	0.30	9.750	cum.	20.18		
	0	C2	12	0.30	0.30	8.000	cum	8.64		,
		C3 (Verandah)	13	0.25	0.25	6.700	cum	5.44		
		C4	8	0.30	0.30	6.700	cum	4.82		
	V.	3. 1				Total		39.09	n n i	
1		Tie Beam		200						
			1	21.60	0.20	0.25	cum	1.08	7	
			1	28.00	0.20	0.25	cum	1.40		
			1	7.20	0.20	0.25	cum	0.36		
2			1	5.00	0.20	0.25	cum	0.25		



SI.no	Description of Items	No	L	В	D	Unit	Qty	Rate	Amount.
16	Ground Floor Slab Beam								
ce la		2	21.60	0.25	0.30	cum	3.24		
		3	28.00	0.25		cum	6.30		
		8	9.00	0.25	0.30	cum	5.40		
		4	6.83	0.25		cum	2.05		
	M 48 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	33.51	0.25		cum	2.51		
	First Floor Slab Beam					*	- 1 - 1 - 1 - 1	alla timber de	
	1998 1998	2	21.6	0.25	0.30	cum	3.24		3
		3	28	0.25	0.30	cum	6.30		
		8	9	0.25		cum	5.40	4	
	p our est of the state of the s	4	6.83	0.25		cum	2.05		
	of the second second	1	33.51	0.25		cum	2.51		
	Roof Beam							1	
		2	21.6	0.25	0.40	cum	4.32	n ay	
		3	28	0.25		cum	8.40		<u>,                                    </u>
235		. 8	9	0.25		cum	7.20		
		4	6.83	0.25		cum	2.73		
		1	33.51	0.25		cum	3.35		4
					Total:	cum	68.10		**
5									
	Gutter:						•	77 B	
	Bottom	1	98.94	0.30	0.10	cum	2.97		
	Side	- 1	98.94	0.25	0.10	cum	2.47		Acres
	Slab	2	21.60	6.83	0.15	cum	44.26		
		2	21.17	9.00	0.15	cum	57.16		
	Deduction due to Step	2	7.20	3.15	0.15	cum	-6.80		
2	Step	40	1.57	0.30	0.08	cum	1.42	65 85	*************
1,2	Waist Slab	2	3.69	1.54	0.13	cum	1.42		
	Landing	2	3.15	1.52	0.13	cum	1.20		* * W X
		a:		81	Total::	cum	104.10		* - *
						GT::	211.28	9393.30	1984652.1
stra	eel reinforcement for RCC work including aightening, cutting, bending, placing in position					*			
(f)	Thermo-Mechanically Treated Bars			(a-					
	Foundation	Quantity fr	om 5/5.3	14.25	120Kg/m	kg	4222.8		
	Column	Quantity fr	om 5/5.3	45.10	120Kg/m	kg	5644.8		
	Beam	uantity from	m 5/5.35	68.10	120Kg/m	kg	8190.000		





	1	pescription of tems	No	L	В	D	Unit	, Qty	Rate	Amount
3		Slab + Gutter+Chajjas + Štep	Quantity	from 5/5.3	104.10	120Kg/m	kg	13590	14 - 1	
						Total::	kg	31647.600	83.70	2648904.12
7/5.11		ntering and shuttering including strutting, pping, etc. and removal of form works in -	- 4	-		4 2			11 11 11	
	c)	Columns, pillars, piers, abutments,								37 4 W 97
- N		posts and struts.					200	2.5		
1		Column	88		n High and the	F 5 (%)	N			7 In The Table 1
		C1	23	1.20	unicides and the	9.75	sqm	269.100		
1.		C2	12	1.20		8.00	sqm	115.200		
		C3	13	1.00		6.70	sqm	87.100		
		C4	8	1.20		6.70	sqm	64.320		80 M V V II.
				•		Total:	sqm	535.720	506.30	271,235.0
	d)	Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc.								
		Beams.		1 2 3						
			3	98.94		0.85	sqm	252.297		
		Tie Beam	- 1	61.80	10.	0.70	sqm	43.260		
A 1000 - 1					F. 7. F. W	Total:	sqm	295.56	400.10	118,252.3
	e)	Suspended floors, roofs, landings, shelves and their support, balconies and chajjaj,etc.								
		Slab							· 110	
			2.00	21.60		6.83	sqm	295.06		
		( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	2.00	21.17		9.00	sqm	381.06		
-		Deduction	2	7.20		3.15	sqm	-45.33		
		Gutters	1	98.94		0.55	sqm	54.42	1. 1	
						Total:	sqm	685.20	536.30	367,473.7
	f)	Staircases (except spiral staircase)		7.5						
		excluding landings.					* *			
		Waist Slab	2	3.69		1.57	sqm	11.62		
- 1-1			2	3.69		0.13	sqm	0.96		
		Step	40	1.57		0.15		9.44		
			40/2	0.30		0.08	sqm	0.45	,	
				+		Total:	sqm	22.47	442.30	9,938.2
6.06	Haif	brick masonry with first class brick in					Of I	9		
		erstructure above plinth level up to floor V level			e e					
	(b) I	in cement mortar 1 : 4 ( 1 cement : 4 fine sand								



( F)

<b>31.110</b>	Description of Items	No	L	В	D	Unit	, Qty	Rate	Amount
	Ground Floor & First Floor	2	104.34	2.75	e A	sqm	573.870		
	Grand Roof & Wat 7000	4	7.20	2.75		sqm	79.200		
		2	5.00	2.75		sqm	27.500		
	Deduction		3.00	2.70		Sqiii	27.500		
	Window+Ventilation	73	1.65	0.90			-108.405		
	Single Ventilation	11	0.90	0.45		sqm	-4.455		
-	Main Door					sqm	-32.760		
		13	2.10	1.20		sqm		*	
	Emergency Door	2	2.10	0.90		sqm	-3.780		· · · · · · · · · · · · · · · · · · ·
	Toilet Door	6	1.80	0.75		sqm	-8.100		
	Side drain						Dit .	0 3	
	Bottom	1	55.00	0.30		sqm	16.500	7. 3.	V 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Side	2	55.00	0.20		sqm	22.000		
			74		Total:	sqm	561.570	1032.90	580,045.6
	7.5 cm thick brick masonry with first class brick in superstructure above plinth level upto floor two		a s		0 A A				
	in cement mortar 1:3 (1 cement : 3 fine sand)	· • f			20				£0.20
15	Partitions								
		3	7.2	2.75		m²	59.4	as 7	
		4	5	2.75		m²	55		
		6	1.6	2.75		m².	26.4		
					Total:	m²	140.8	656.10	92378.8
	Providing lst class local wood dressed in frames of chaukat for doors, windows, clerestory windows	8 8					10 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	1 22	
	Main door	13	1.20	0.075	0.10	cum	0.117		5. 8 J 1
		26	2.10	0.075	0.10	cum	0.410		
	Emergency Exit	2	0.90	0.075	0.10	cum	0.014		
		4	2.10	0.075	0.10	cum	0.063		
	Toilet Door	6	0.90	0.075	0.10	cum	0.041		
		12	2.10	0.075	0.10	cum	0.189		
					Total =	cum	0.833	43660.30	36,347.2
	Providing and fixing 30mm thick panelled door shutter comprising of styles and rails of seasoned								
7	main door	13		1.20	2.10	sqm	32.76		
	emergency exit	2		0.90		sqm	3.78		7.
	Toilet Door	6		0.90		sqm	9.72		
					Total =	sqm	46.26	6427.60	297,340.7



SI.no		Description of Items	No	L	В	D	Unit	-Qty	Rate	Amount.
		viding and fixing steel glazed doors, windows,				2 8	2	2 5		
05		tilators of standard rolled steel sections, joints,					1-2-5			
	(b)	4mm thick glass pane	75	1.65	0.90		sqm	111.38		
			11	0.45	0.90		sqm	4.46		
			7.			Total =	sqm	115.83	3738.20	432,995.7
Control of the Contro		viding and fixing M.S. Grills with 16mm flats					e de la compa			5 a 1.
		of desired sections, fixed and welded in					0.10			
		tion in the pre-fabricated steel framed lows etc. including applying priming coat etc.	-			- 1				
		plete.								
						- ×				1 ( 1 )
_	(a)	Using 3mm thick section.					11.5			
			20	1.65	0.90		sqm	29.70	1.0	
1		11 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				Total =	sqm	29.70	1084.60	32,212.6
	12m	m cement plaster 1 : 4								
07	(1 ce	ement : 3 fine sand).					100	+2 Sigt. (* )		
	. X.	Main Walls Qnty. B.F from S. No.	8/6.06	twice			sqm	1123.140		
		Partition Walls Qnty. B.F from S. No.	- 6/6.09	twice			sqm	281.600		8 9
	,	Verandah Column Qnty B.F. From Sl. No	7/5.11				sqm	87.100		W).
		Beams Onty B.F. From SI. No	7/5.11					295.557		
		Gutter Onty B.F. From SI. No	7/5.11					54.42		
		Slab Ceiling Qnty B.F. From Sl. No	7/5.11					315.39		100
	- 1	Ramp up	2	2.00	1.83		sqm	7.32		
			4	2.00	0.10		sqm	0.80		1 10
	70		p 4		Total	:	sqm	2165.32	190.40	412277.3
/21.6	Apply	ying priming coat with ready mixed primer of					9 25			
	(a)	Ready mix pink/grey primer.								
		Chaukhat for								
	T	: Main door	13	1.20		0.30	sqm	4.680		
			26	2.10		0.30	sqm	16.380		
	+	Emergency Exit	2	0.90		0.30	sqm	0.540		
	+		4	2.10	Si a	0.30	sqm	2.520		
_	$\dashv$	Toilet Door	6	0.90		0.30	sqm	1.620		<del></del>
	+		12	2.10		0.30	sqm	7.560		
-+	+	Qnty. BF from S/No.	10/9.37	2.00	46.26		m²	92.520		
-	+	any. 2. non onto.			Total:		m²	125.82	45.00	5,661.9
/21.91F	aint	ing with synthetic enamel paint of approved						.20.02	.0.00	0,001.0
			onty RF fr	om S/No 15	/21 61	-	m²	125.82	81.50	. 10254.3



SI.no		Description of Items	No		В	D	Unit	Qty	Rate	Amount
18/21. 60		Applying one coat of cement primer of approved brand and manufacture on wall surface.		عائد			Unix		Nate	Amount
7		Qnty. BF from S/No.	14/2	1.07		1.7	m <sup>2</sup>	2165.32		<del></del>
		Total	15,					2165.32	53.80	116,494.3
19/14. 08		Providing and fixing M.S. pull bolts lock conforming with IS:7534 bright finished with necessary screws etc. complete.						2100.02	7	110,404.0
			+ +1	F-0.000 - F-0.000	4 8		Nos	21.00	34.30	720.3
20/14. 07		Providing and fixing M.S. Tower bolts (socket bolts) bright finished with necessary screws etc. complete.						60 (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		
	(a)	300 mm	- 21				Nos	26.00	110.200	2,865.2
	. ,	150 mm					Nos	16.00	64.100	1,025.6
21/14. 0		Providing and fixing M.S. handles with necessary screws, etc. complete		W.					3 44	1,020.0
	(a)	150mm	/A (6)	5	** ,***			7 9 8 1	3 V + 2 V 1	
		* * * * * * * * * * * * * * * * * * * *					Nos	52.00	73.200	3,806.4
_ ;	Galv 1.06 idgi wasl	viding Trapezoidal Polyester Coated vanised Steel Sheets Roofing of any colour of m width at all levels including fitting and fixing ng with self drilling, self tapping screws, EPDM hers etc. complete excluding the cost of purlin, or and trusses.			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					
	ane	r and trusses.	100							
-	(i)	For 0.50 mm thick :			5 B 18					
	100	4 ·	2	28.9	4.139		sqm	239.234		
			1	28.9	2.2		sqm	63.580	· · · · · · · · · · · · · · · · · · ·	
			2	13.00	2.90	4	sqm	75.400		
		4.	- 1	13.00	2.20		sqm	28.600		
	-					Total::	sqm	406.814	1015.70	413201.1
3/16. F	rov	iding and fixing of pre-coated Galvanized				rotal	Oqiii	400.014	1013.70	413201.1
s	itee	Sheet of any colour ridges, gutters or valleys	s 20°		(6)					
5	0 cr	n overall width, 0.50 mm thick with 150 mmm	a 20			7. 7				
0	verl	apping fixed with Self Drilling & Tapping with								
		M washer but excluding the cost of base			11	3 u a				
	J. 116		1	56.00			m	56.000		
		14 3		-		Total::	m	56.000	909.30	50920.8
/9.0 P	rovi	ding 1st class local wood in trusses etc.  ding hoisting fixing in position supplying				3		# 8 A		30023.0

12		-	í
0	١	2	•
_ '/	)	0	į

Sl.no	Description of Items	No	L	В	D	Unit	•Qty	Rate	Amount
	necessary fittings such as spikes bolts and nuts,		4 9					er at	E 4
	nails etc and applying wood preservative for		1 Jan 1	- u - n			A-1		
	unexposed surface etc. complete.		Part to						4.6
	Rafter struts, purlins, etc	268	3.6	0.075	0.1	cum	7.236		
	Ceiling	160	3.6	0.075	0.05	cum	2.160		
	Ceiling Hanger	60	2	0.075	0.05	cum	0.450		
	Tile Clip	1	485.44	0.05	0.025	cum	0.607		San rem.
× 1					Total::	cum	10.453	38740.90	404950.88
25/15. 07	Supplying, fitting and fixing 4mm thick plain asbestos cement sheet ceiling with necessary nails complete excluding frame work of base and beading								
	Deading	- 1	21.60		7 720	9 m²	166.946	-	
		4	21.18			4 m <sup>2</sup>	191.467		
			21.10	Tot		m²		270.40	135516.18
26/7.0	Coursed masonry with rectangular sized hard			100	al	Im-	358.414	378.10	133310.16
	stone in foundation up to one storey above and below ground level including curing, etc. complete.	•							
	(b) in cement mortar 1 : 4 ( 1cement : 6 fine sand)								
-	Plinth protection	1	15.00	0.66	1.2	cum	11.880		
				10.7	Total::	cum	11.880	6473.70	76907.56
	Supplying and fixing MS decorative railing 80 cm high in staircase consisting of 25 mm alluminium square sections inserted into 20 mm dia MS bars								
	@ 30 cm centres 60x60x4mm thick plate at the								
	base fixed with wooden wedge by IW screws to				1	1			
	receive the wooden handrails 12.5cmx10cm								
	including cost of polishing teh wooden rail				<b>-</b>	Rm	29.550	1708.00	50471.40
	Providing and fixing on terrace (at all floor levels) Polyethylene storage tank of approved brand and	ar X			8				
	manufacture with cover and mosquito proof	4 5 F.W.					64		
	coupling and suitable locking arrangement and			79			W 8	+:	
	making nescessary connections for inlet, outlet		- 1					g s	*
	and overflow pipes but without the cost for base	4			2000	lit	8000.00	12.00	96000.00
1/17 51	support. Providing and fixing SWRPVC bend with access				1 2000	-			
	door of required degree including jointing with				+	+			
	J		D.	900 Q					

16	1	
*,	7	)
`	_	

.

SI.no		No	L	В	D	Unit	*Qty	Rate	Amount
	rubber lubricani/cement solvent complete.								
-	(a) 110mm dia SWRPVC bend with access door.		10 July 10			100			
		6	ar Marca	10 10 10 10 10 10 10 10 10 10 10 10 10 1		No	6.00	197.00	1182.00
2/17.0	Providing and fixing white vitreous china pedestral		13		1.2				
	type water closet (European Type) with seat and		-						
	lid, 10 litre low level white vitreous china flushing cistern etc. complete.	1	4		+ 45	1484 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ANG T	
*	-cistem etc. complete.	E 10	,						Section 1
	(a) W.C. pan with ISI marked white solid plastic seat and lid					12			
	For toilet of Boys			. E			2.000		
	For toilet of Girls						2.000		7 7 2
72	For Head Master		2		74	14.	1.000		, N. 18
	Differently Student	1 - 7 V.					1.000	•	
	we freeze to see the second					Total::	6.000		- *
* **	(i) White	* **				each	6.000	9352.70	56116.20
	Providing and fixing on wall face SWRPVC soil, waste and vent pipes including jointing with rubber lubricant/cement solvent complete.		1					2.2	
	(a) 110mm dia.	7.2				Rm	60.000	383.80	23028.00
	Providing and fixing single equal SWRPVC plain junction of required degree ( <i>T-junction</i> )					74.04	A		
	(a) 110x110x110mm.			**		No	8.000	197.00	1576.00
1	Providing and fixing vitreous china Urinal corner 44 x 26.5 x 31.5cm size of Parryware/ Hindware/ Cera		Ty 1						-/H
	and equivalent make with flush valve/spray with		\$ 15		0 90				
	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 painting of fittings	¥ -	÷ 1				7 9	·	
	and brackets, cutting and making good the walls				,				15 49
	and floors wherever required.							1	
	(i) white	77.0				each	4.000	6864.00	27456.00
	Providing and fixing G.I. pipes complete with G.I. fitting and clamps, including cutting and making								* 1
	good the walls etc. (internal works).								100)
	(a) [45 dis		5		1	Rm	46.000	260.40	11964.6
7/18 0	(a) 15mm dia nominal bore		7			rxIII	46.000	260.10	11904.0
22	Providing and fixing brass stop cock of approved quality.			(*				6	7.
			15	14.2		1 8			20

Dago 0





Sl.no		Description of Items	No	L	В	D	Unit	Qty	Rate	Amount
8	(a)	15mm nominal bore			a 15 or	- 21	No.	24.000	493.00	11832.00
4 10 1			lating	300				port of the second	· · ·	
8/18.1	Pro	oviding and fixing G.I. Union in G.I. pipe								
	inc	luding cutting and threading the pipe and						<u> </u>		
		king long screws etc. complete (New work).								
					A-1-1					<del></del>
	-	T				120 100	No.	45.000	474.00	2622.00
39/17.2		15 mm nominal bore					NO.	15.000	174.80	
7		widing and fixing wash basin with CI brackets, nm CP brass pillar ttaps, 32 mm CP brass					(tr	*	9	
		ste of standard pattern including making good	= 1			34	-		Σ. μ.	pi pi
		walls wherever required.			- K		N <sub>R</sub> ty i			
			****			21.1		1 0		
-	a)	White vitreous China wash basin size			+ 2 = 10					F 18 5 7980
		630x450mm with a single 15mm C.P. brass	9 K N		* u					
	_	pillar tap.				-			101-00	40000.00
							each	4.000	4817.30	19269.20
		SEPTIC TANK	r r				** at	7 7 7 F 9	W	
1/2.08	2 0	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including				210 H				
		Oridinary Soil	-							2
	` '	septic tank	1	2.80	2.80	2.00	m³	15.680		#38 <b>%</b> 8
	-ν.	soak pit	1	1.70	2.00	1.20	m³,	4.085		•
		6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Y	. 200	Tota	d::	m³	19.765	218.10	4310.70
		viding and laying in position machine batched, chine mixed and machine vibrated design mix								
		Beams, suspended floors, roofs	-							
	` '	septic tank cover and bottom slab	2	2.24	1.14	0.15	m³	0.766		
	_	soakpit cover and bottom slab	2	1.04	1.04	0.15	m³	0.324		
		bafflewall	2	0.90	0.70	0.15	m³	0.189		
					Tota	d:	m³	1.280	9393.30	12019.29
		ntering and shuttering including strutting, oping, etc. and removal of form works in -								
		Suspended floors, roofs, landings,	· ·	(a) (i)			- ,			e 1 e 1 f
	(-)	bafflewall	4	0.90	0.70		m²	2.520		
			2	0.90	0.15	The second second second	m²	0.270	1	
-7		Septic tank Cover and bottom slab	4	2.24	0.15		m²	1.344		
, 1	-	Copile tarik Gover and Bottom slab	4	1.14	0.15		m²	0.684		
. —		Soak pit Cover and bottom slab	4	1.04	0.15		m²	0.624		

=	-	2000
	9	)
1	-	1

SI.no		Description of Items	No	L	В	D	Unit	Qty	Rate	Amount
	100		4	1.04	0.15		m²	0.624		
	(8			1/400	Tot	al::	m²	6.066	536.30	3253 1
4/21.0	712	mm cement plaster 1 : 4 (1 cement : 3 fine	Sec. 10, 100 1		***************************************					
		septic tank								
		inner wall	1	5.80	4.7	1.00	m²	5.800	<del>-</del>	<del></del>
11.5		bottom slab	1	2.00		0.90	m²	1.800		. 75
		bafflewall	4	0.90		0.70	m²	2.520		<u> </u>
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	0.90		0.15	m²	0.270		
					Tota	al::	m²	10.390	190.40	1978.2
5/5.21	stra	eel reinforcement for RCC work including aightening, cutting, bending, placing in position								10/0.2
	(f)	Thermo-Mechanically Treated Bars	- 0, j							
		Using 10mm Dia. Bar	7 10 1							-
		Septic tank cover	1	8	X	2.240	rm	17.92		
		The second of th	. 1	15	X .	1.140	m	17.10		
ŭ.		Septic tank bottom slab	1	8	x	2.240	rm	17.92		
	A - 75 II		1	15	x	1.140	rm	17.10		
		Soak Pit Cover	1	7	Х	1.040	rm	7.28		9
			1	7	x	1.040	rm	7.28		
		Soak Pit bottom slab	1	7	X	1.040	rm	7.28		
	DIECEI		1	7	x	1.040	rm.	7.28		
3 2		Baffle Wall	2	5	x	0.900	rm	4.50	1 1	
· ·	W.		2	6	X	0.700	rm	4.20		
						Total::	rm .	107.86		* =x & #E
	¥	@ 0.62/ Rm						66.87	83.70	5597.2
			;							
6.09	supe	om thick brick masonry with first class brick in erstructure above plinth level upto floor two			12 E			12. Tale 1		
	b)	in cement mortar 1:3 (1 cement : 3 fine sand)						4		
	_	Septic tank :								
		Long Walls	2	2.24	.1		m² ·	4.48 s		
		Short walls	2	0.9	1		m²	1.8		
	1			)		Total:	m²	6.28	656.10	4120.3
t	rick	ey-comb of half brick masonry with first class in foundatio up to one storey above and ground level including curing, etc. complete			60					4
		grand in the state of the state								

i ilito	scription of terms	e!4	L	
	a) in cement mortar 1:3 (1 cement : 3 fine sand)			
*	Soak Pit:	4 1 7 , 12		1
	Long Walls	2	1.04	
				-

			41					
Soak Pit:	1 1 1 1 1 1					17 1 1 . 7 .		
Long Walls	2	1.04	1		m².	2.08		
Short walls	2	0.8	1		m²	1.6	a a	
	6	1 2 20	Tota	<b>::</b>	m²	3.68	957.20	3522.50
	8 8 %	3 1					G.T.:	9,217,617.27
Add 12.5% for internal and external Electrification	as well as in	nstallation	s, complete	1. 1.7		400		1,152,202.16
Add 5% for Furniture								460,880.86
Total			· · · · · · · · · · · · · · · · · · ·					10,830,700.29
					60 8	0 0	G.T::	10,830,700.29
		1					Say	10,830,700.00

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

Rate

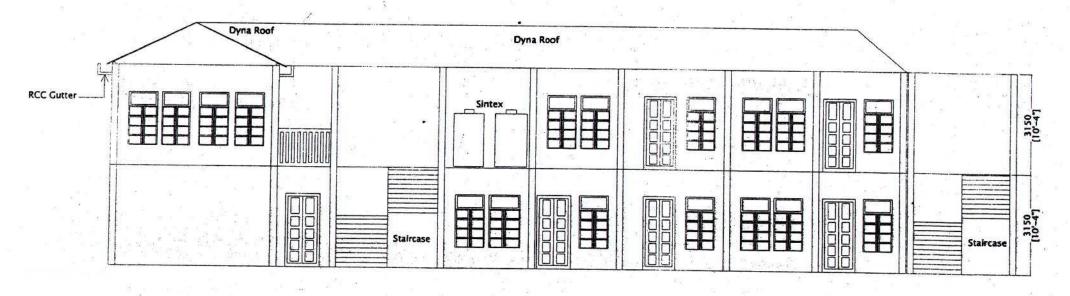
Amount.

Unit

· Qty

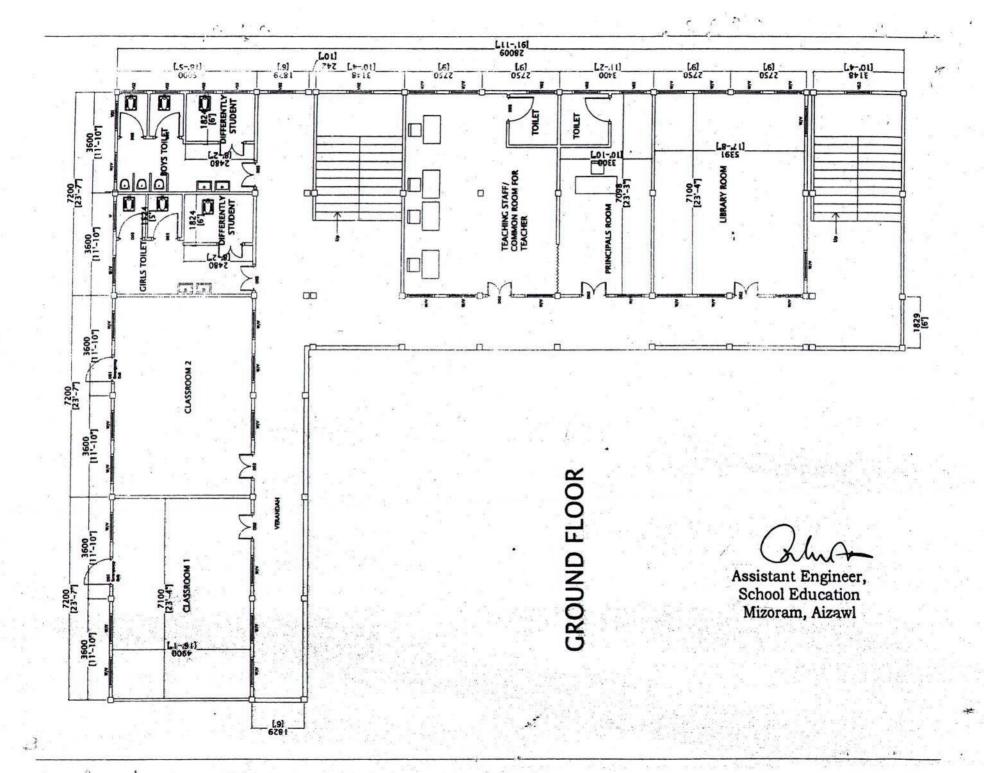
Assistant Engineer, School Education Mizoram, Aizawl



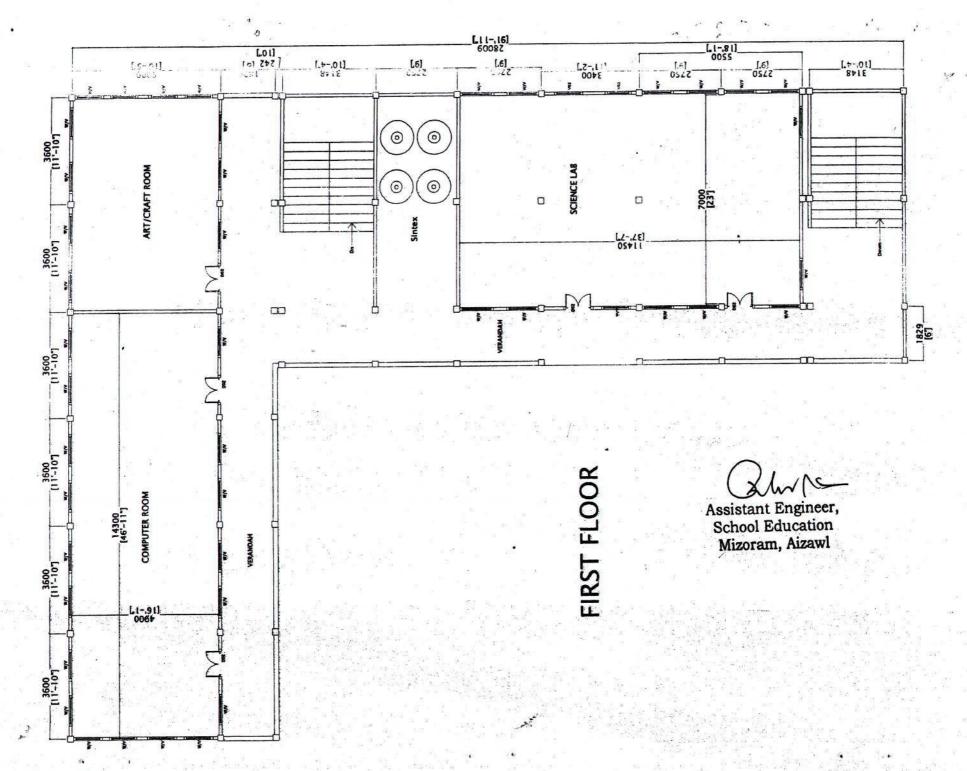


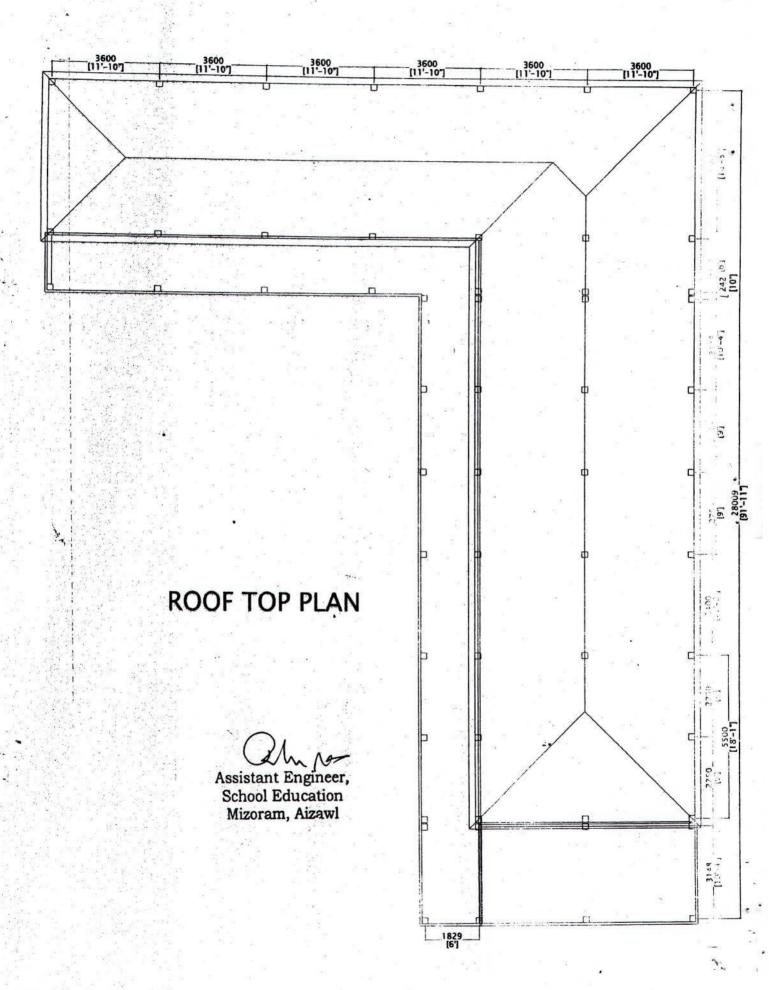
## **FRONT ELEVATION**

Assistant Engineer, School Education Mizoram, Aizawl



E S







# (1)

#### DETAILED ESTIMATE FOR MAJOR REPAIRS OF SCHOOL BUILDING

Item No.	Particulars of items and details of works	No.	L m	B m	H/D in m	Qnty.	Unit	Rate in Rs.	Amount in Rupees
	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(1cement:4fine sand)								
	Main Building Wall	4	5.5		2.8	61.60	m <sup>2</sup>	19 1	
		2	4.6	***	2.8	25.76	m <sup>2</sup>		
		2	3.6		2.8	20.16	m <sup>2</sup>	1	56
	All presents of the second	2	2.1		2.8	11.76	m <sup>2</sup>		
					Total	119.28			
	Deduct				Ittal	117.20	***		
	Main Door	5	2.00		1.00	10.00	m <sup>2</sup>		- 4
*	Windows	16	- Santa - William		1.00	7.20	m <sup>2</sup>	To top the	,
til mi was	Williaows	10	1.2		Total	102.08	m <sup>2</sup>	, 'A	
						102.08	2		CA452
				سمياني بين	N. Total	102.08	m	631.40	64453
2/9.11	Providing and fixing 1st class local wood panelled shutters for doors etc. including M.S. butt hinges with necessary screws, etc. complete.								
	©25 mm thick		~					- Temporary	1457
100	Main Door	5	0.914		1.828	8.35	m <sup>2</sup>	2284.30	8846.84
3/9.13	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.								
<del>. Bandarata</del>	©25 mm thick		1		Ten face		4.4	The state of	
	Windows	10	0.91		1.2	17.55	m <sup>2</sup>	2153.30	37,787.83
4/14.07	Providing and fixing M.S. Tower bolts (socket bolts) bright finished with necessary screws etc. complete.		0.51						
	(a) 300 mm	-		-	i ja ja	- A - A - A		1	4 /
<u>ئىنىم دىندىم</u>	Doors (Main Bldg)		1		****	10	nos	. 110.20	1,102
	(c) 200 mm				1		1	1.0.50	
	Windows	+-	1			32	nos	80.10	2,563
5/14.10	Providing and fixing M.S. handles with necessary screws, etc. complete					3 1			

	(a) 150 mm	in adapted			a min to it is		See.		
	Doors (Main Bldg)					23	nos.	73.20	1,684
	(b) 125 mm			,					
	Windows			8 1 2		32	nos.	49.70	1,590
6/14.11	Providing and fixing bright finished M.S two lever mortise door lock with necessary screws, etc. complete.								
12 3	complete.	-				100			
,	(a) Union type	•••			1. 1. 1.	5	nos	550.00	2,750
7/14.57	Providing and fixing M.S. hooks and eyes.		,						
	(a) 200mm	1.5	1.0				A		
And the same	Windows					32	nos	38.00	1,216
8/21.09	15mm cement plaster 1 : 4 (1 cement : 4 fine sand).								
	(1) Qnty BF from item no-1/6.09					184.80	m²	170.70	31,545
9/21.61	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.					4.00			
	(a) Ready mix white primer.	-							
	Chaukhat for:-	+					14. 1	-	
-	Door	5	6.20	0.25		7.75	m <sup>2</sup>		
	The state of the s	14.15	an in the state of the	<del></del>					<del></del>
	Windows	16	5.26	0.25		21.04	m		7
<del>\</del>	Frame for:-				*********		2		
ح عمال م	Door (Both Sides)	5	0.91	1.828		16.71	_		
	Windows	16	13.26	0.08	46.5	16.12	m <sup>2</sup>	7, 4	in A
					Total	61.62	m <sup>2</sup>	45.00	2,773
10/21.75	Applying priming coat with ready mixed primer of approved brand and manufacture on plaster surface.								
The state of the s	(a) Ready mix white primer.		1,	**************************************	18, 11, NOV. 111, 12, 1	T			
	Qnty BF from item No-9/21.13				1.	184.80	m <sup>2</sup>	42.40	7,836
1/21.93	Painting with synthetic enamel paint of approved brand and manufacture in all shades on new work (two or more coats).	2.					. 2.		
*******	Qnty BF from item No-9/21.61				-		-		
	(a) General quality	*****				61.62	m <sup>2</sup>	81.50	5,022
12/9.08	Providing 1st class local wood in					01.02	-	01.30	3,022
	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.			8 8		24 6		*	

	Trusses	14	6.4	0.08	0.1	0.70	m <sup>3</sup>		
		7	6.4	0.08	0.1	0.35	m³		i i
	Rafter*	6	3.9	0.08	0.1	0.18	m <sup>3</sup>		
1	Jack Rafter	8	1.95	0.08	0.1	0.12	m³		w
3	Verandah	8	2.4	0.08	0.1	0.15	m³		
		7	2.4	0.08	0.1	0.13	m³		7
	Colar	12	2.5	0.08	0.1	0.23	m³		a as a fr
i .	Purlin	6	17.2	0.08	0.05	0.40	m³		
		6	9.3	0.08	0.05	0.22	m <sup>3</sup>		
			1 2		Total	2.49	m³	33809.20	84098
13/16.0 1	(e) 0.63mm thick with zinc coating not less than 275gm/m <sup>2</sup>					ж.			
	Main Building	1	25.00	5.40	1.5	202.50	m²		0.10
	Office	1	5.40	5.40	1.5	43.74	m² .		
	Verandah	1	15.00	2.10	1.5	47.25	m <sup>2</sup>		
					Total	293.49	m <sup>2</sup>	432.60	126964
14/16.0 6	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 <sup>2</sup>								
	Main Building	1	25.00	7		25.00	Rm	5 3	
	Office .	1	5.40		100	5.40			1.1
١		6	3.90		- E.	23.40	Rm	20.00	9 8 3
	+= * * 9			- 7	Total	53.80	Rm	368.50	19825

Total

Say

400,056 400,000

(Rupees four lakh) only.

Assistant Engineer, School Education Mizoram, Aizawl



## DETAILED ESTIMATE FOR PROPOSED DINING HALL (elementary) (Based on PWD SOR 2013)

Item No.	Particulars of items and details of works		No.	L m	B	H/D in	Qnty.	Unit	Rate	Amount
1/2.06	Earthwork in excavation over areas		T	1	1			-		-
	(exeeding 30cm in depth,1.5m in width as			T						
	well as 10sqm on plan) including disposal									
	of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled		ļ				<u> </u>			
	and neatly dressed.									2 4
	(a) Oridinary and Hard Soil	1		10.00	5.1	1	51	cum	284.30	14,499.3
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	12								
	and compaction in 15cm layers as in									10 10
: :	column foundations, fence posts, etc. and							4		
W.	disposal of all surplus soil as directed within a lead of 30 metres.				= 1					
	(b) Hard Soil (pick work)		-			-		-	<del> </del>	
1	Foundation F <sub>1</sub>	6		1.2	1.2	1.8	45.550			
	Foundation F <sub>2</sub>	3	<b></b>	0.9	0.9	-	15.552			
<del></del>	•	3		0.9	0.9	1.8	4.374	-	327.20	
	The second secon			شحبط			19.926	cum	327.20	6,519.7
· \	(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.						Hell	*	20	*
	2/3 of qty taken from /2.08				***********		13.28	1		
	Filling for floor	1		8.00	4.50	0.45	16.20	<u> </u>		-, -
	to the second of						29.48	cum	90.30	2,662.41
	***									THE STREET
5/4.05	Providing and laying cement concrete of					Land Care				
	specified grade excluding cost of centering and shuttering- All work upto plint level.	at .					ŧ	-: 40 1 <sup>18</sup> 86	Mi St	8
	1:5:10 (1 cement: 5 course sand: 10 (a) stone aggregate 40mm nominal size)								58	
	Foundation F <sub>1</sub>	6		1.2	1.2	0.1	0.864			
	Foundation F <sub>2</sub>	3		0.9	0.9	0.1	0.243	4 1 4 4		
٠							1.11	cum	4806.10	5,320.35
3/5.01	Providing and India.				and the second				.000.10	0,020.33
.0.01	Providing and laying in position reinforced cement concrete excluding cost of centering and shuttering and reinforcement in - All work upto plint level									
1	(a) 1:1.5:3 ( 1 cement: 1.5 coarse sand: 3	-								-
*	graded stone aggregate 20mm nominal size)									-
	Foundation F <sub>1</sub> Foundation F <sub>2</sub>	6		1.2	1.2	0.15	1.30			

Item *		Particulars of Items and details of works	,	No.	L	B	H/D in	Qnty.	Unit	Rate	Amount
	! _	Column C <sub>1</sub>	6		0.3	0.3	1.80	0.97			
9		Column C <sub>2</sub>	3		0.25	0.25	1.80	0.34			
	_	And the second s						2.97	cum	7832.30	23,261.93
ME.03	-	Reinforce cement concrete work in		-	<del> </del>				-		
	$\vdash$	walls, including attached pillasters,	Section 2		ļ				+	-	
		columns, pillers, posts, piers,	*****	100	ļ			<u> </u>	<del> </del>		
		abutments, return walls, retaining walls, struts, buttresses, string or lacing courses, fillets etc. upto floor five level excluding cost of centering shuttering etc complete.					2 7 8	2			a :
	(a)	1:1.5:3 ( 1 cement: 1.5 coarse sand: 3					1		1	*****	
		graded stone aggregate 20mm nominal size)		, A. 4 S		8					
		Column C <sub>1</sub>	6		0.3	0.3	3	1.620			
1.1		Column C <sub>2</sub>	3		0.25	0.25	3	0.563			-
			C. C.					2.183	cum	7847.20	17,126.51
B/5.04		Reinforce cement concrete work in									
		beams, suspended floors, roofs					عنسا				
		having slope upto 15 degree landings, balconies, shelves, chajjas, lintels,		<b></b>					<del> </del>		
		bands, window sills, stair cases, cantilivers upti floor five level excluding cost of centering etc complete with 1:2:4( 1 cement: 2 Coarse sand: 4 stone aggregate 20mm)				a a c			8	to the second se	9 (F 18)
V	35	1:2:4( 1 cement: 2 Coarse sand: 4 graded stone aggregate 20mm						, , , , , , , , , , , , , , , , , , ,			
1.		Beam B <sub>1</sub>	4		8.00	0.25	0.35	2.800			8
	1	Beam B <sub>2</sub>	4		4.50	0.25	0.35	1.575			
13.5	-	Beam B <sub>3</sub>	2		8.00	0.2	0.3	0.960			-
		RCC gutter	1		25.00	0.1	0.3	0.750	-		
		Sub Total	1	- in a second	19 20 ECT 1			6.085	cum	7387.20	44,951.11
- 1		· · · · · · · · · · · · · · · · · · ·		1 1							
9/5.21	pla	el reinforcement for RCC work uding straighthening, cutting, bending, cing in position and binding all nplete.							2,	,	
	(f)	Thermo- Mechanically Treated bars.								***	
	1	(i) Main column Footing (qty b/f from 5.42(a))		** **				4.00			
Was to		100 kg/cum						1.30 129.60	cum Kg		Variation 1
9 (	78.	Verandah column Footing(qty b/f from						120,00	Ng .		1997
₹		5.42(a))				Santaria.		0.36	cum	15	19
		100 kg/cum		7.				36.45	Kg		***************************************
400		(ii) Main Column	10			ur i lityr	7	3.49	cum		1
		310 kg/cum						1082.52	Kg		
		Beam						5.34	cum		
7.4		270 kg/cum				فتتنبث		1440.45	Kg		
	1.4	Slab & Gutter						0.75	cum		1 2 E E
	-	100 kg/cum				3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		75.00	Kg		
		Total Weight	8, 18		5			2764.02	Kg	83.70	231,348.47

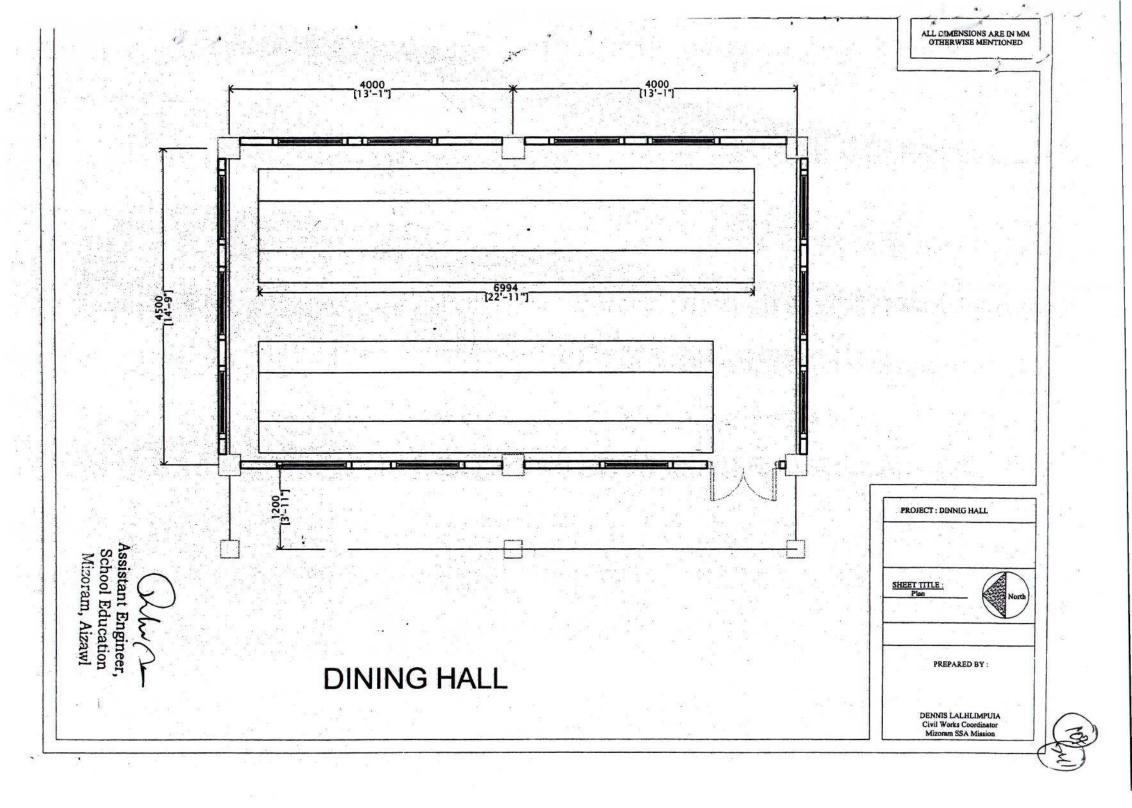
Item No.		Particulars of items and details of works	N	lo.	L	B	H/D in m	Qnty.	Unit	Rate	Amount
10/5.11		Centering and shuttering including strutting, propping, etc. and removal of form works in -	*****								
	(a)	Foundations, footings, bases of columns etc. for mass concrete.					,				
7		Foundation F <sub>1</sub>	6	4	1.2		0.1	2.880			
	-	Foundation F <sub>2</sub>	3	4	0.9		0.1	1.080	<del> </del>		
	-	T ouridation 1 2			0.5		0.1	3.960	sqm	299.70	1,186.8
	(c)	Columns, pillars, piers, abutments,									
		posts and struts.							2.		
1		Column C <sub>1</sub>	6	4	4.80	0.3	2	34.560			
	10	Column C₂	3	4	4.80	0.3		17.280			
								51.840	sqm	506.30	26,246.59
	(d)	Lintels, beams, plinth beams, girders,									
	_	bressumers and cantilevers, etc.	4	-							
		Beam B <sub>1</sub>		1	8.00	0.25	0.05	8.000			
	-	Beam B <sub>2</sub>	4	1	8		0.35	22.400	<u> </u>		
	-	Deam D2			4.50	0.25	0.35	4.500			
	-	Beam B <sub>3</sub>	2	2	4.50	-	0.35	12.600			
	-	Deam D <sub>3</sub>	2	2	8.00	0.2	0.3	3.200 9.600			
	-				0.00		0.5	60.300	sqm	400.10	24,126.0
gar e	(e)	Suspended floors, roofs, landings,	•								
		shelves and their support, balconies									Machine Service Servic
		RCC gutter	2		24.00	0.20		9.600			
	-	- 1833 CO. 18 C. 1	20.00		نسسنا	<u> </u>		9.600	sqm	536.30	5,148.4
•	sur V le	If brick masonry with first class brick in berstructure aboveplint level upto floor evel.  In cement moratar 1:3 (-1 cement : 3 fine sand)								7	
-5						20.00				1 , .	
	-	Outer walls	- 1	-	0.00	<u> </u>	0.0				
1	-	W <sub>1</sub> W <sub>2</sub>	2	,	8.00		3.3	52.800	-		
أعبانه الم	-	VV2			4.50		3.3	29.700	****		
120	-	Deduct for openings		4014			-	82.500	<u> </u>		
	7.	Door D	1	-	1.2	-	2.1	2.520		<b>.</b>	
100	-	Windows&Ventilations	13		0.90		1.65	19.305			
10 V NN/				-110/2-14				21.825	<b></b>		nisawijas ijas — — — —
								60.675	sqm	1040.90	63,156.6
		La company of the contract of									1
3/9.06		oviding lst class local wood dressed in									
100		mes of chaukat for doors, windows, restory windows fixed in position.									
	CIG	restory windows fixed in position.	4				* 11 -				
	1	Door D	1	-	4.80	0.10	0.076	0.036			
	-				4.00	0.10	0.070	0.036	cum	43660.30	1 502 7
		a management of the second of		-				9.000	Juili	10000.00	1,592.7
4/10.05	Pro	oviding and fixing steel glazed doors,							-		
A COL		dows, ventilators of standard rolled									
		el sections, joints, mitered and welded									
		h 15x3mm lugs 10cm long embedded cement concrete blocks 15x10x10cm									
		e of 1:3:6 (1 cement : 3 coarse sand : 6			1 - 1						24
	sto	ne aggregate 20mm nominal size) or									
		h wooden plugs and screws or rawl								4	
		gs and screws or with fixing clips or			114				A market		
	with	h bolts and nuts as required, including									
	pro	viding and fixing of glass panes with		+				4			

No.		Particulars of items and details of works		No.	L m	B	H/D in	Qnty.	Unit	Rate	Amount
		azing clips and special metal sash putty		T			1		1		
	of	approved make complete including					-				
1	ар	plying a priming coat of approved stee								1	
1	pri	mer excluding the cost of metal beading				1		· · · · · · · · · · · · · · · · · · ·	F. 1		
*		d other fittings except necessary hinges pivots as required.		1			2/4				
	"	pivots as required.				V 0					
	(a	Using 3mm thick glass panes.	-				-				
	1	qty taken from	11	/6.06				19.305	sqm	3604.40	60 500 0
		The state of the s		70.00			· · · · · · · · · · · · · · · · · · ·	13.505	Sqiii	3004.40	69,582.9
6/7.05	ha	oursed rubble masonry( first sort) with rd stone in superstructure above plint rel and upto five level with:									
	a)	cement mortar 1 : 3 ( 1cement : 3 fine sand)									
	_							20 .00			
		Plith	1		8.00	0.35	0.45	1.26			
							\$1	1.26	m <sup>3</sup>	5841.90	7,360.79
17/0 44	_	- Annual Control of the Control of t									7,000.71
17/9.11		Providing and fixing 1st class local wood panelled shutters for doors etc. including M.S. butt hinges with necessary screws, etc. complete.		***							
1	T	(c) 30 mm thick		استسد				and the second			
		Door D <sub>1</sub>									
		30,01	1_		1.8	1.2	ins.	2.16	m <sup>2</sup>		
**********	-	The second secon					Total	2,160	m <sup>2</sup>	2400.00	5,184.00
8/12.01	: 2 20r nea con	ment concrete flooring 1:2:4 (1 cement sand : 4 well graded stone aggregate nm size) finished with a floating coat at cement including cement slurry etc. inplete but excluding the cost of nosing steps etc.			2 20 2 83 80						
		40mm thick.	1		8	4.5			2		
	- 44	TOTAL UTCK.						36.000	m <sup>2</sup>	432.80	
	حمد	The same of the same of the same of the same of	111			-	Total	36.000	m <sup>2</sup>	2474.70	89,089.20
<b>2/15.18</b>		Supplying, fitting and fixing 3.20mm thick decocial asbestos board ceiling with nescessary screws etc. complete excluding frame work of base and beading.									
			1	-+	8	4.5		36.000		060.00	20 070 00
N. L.						7.0		30.000	sqm	852.00	30,672.00
3/15.24		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							1 EVE		
		Ceiling	4		8	0.05	0.07	0.112			
and the second				******		0.00	0.07	0.112	m <sup>3</sup>	200.20	22.40
4/9.49		Providing and fixing dressed 2nd class local wood shelves supported on wooden brackets fixed at suitable distance but not exceeding 75cm apart etc. complete.					ni.	0.112	m	298.20	33.40
	(a)	35mm thick (For Cupboard)						1.500	m <sup>2</sup>	2734.60	4,101.90
								-,,,,,,,		2734.00	4,101.90

No.	Particulars of items and details of works		No.	L m	B	H/D In m	Qnty.	Uni	Rate	Amount
5/21.12	15mm cement plaster 1 : 3 (1 cement		T				ana entire de ance	1		····
4	: 3 fine sand). (1) Qnty BF from item no-7/6.05 (Both	-	-			- 0		-		25 8
	sides)						121.35			
							121.35	m <sup>2</sup>	206.10	25,010.2
3/21.61	And the sale in a set of the sale									
721.01	Applying priming coat with ready mixed primer of approved brand and manufacture on wood work and plywood complete.			119 2	5	2 (1)			or -	
	(a) Ready mix pink/grey primer.  Chaukhat for:-									W
	Door D <sub>1</sub>	1		5.40	0.24		1.30	m <sup>2</sup>	1	
	Frame for:-			3.40	0.24		1.30	m		
7	Door D <sub>1</sub>	1	2	1.20	-	2.1	5.04	m <sup>2</sup>		
	Cupboard Wood Plank	1	-	1.20	0.4	-2.1	0.48	m <sup>2</sup>		10
- Marie Company		<u> </u>		1.20	, 0.4	Total	6.82	m <sup>2</sup>	45.00	200.7
						Total	0.02	100	45.00	306.72
/21.75	Applying priming coat with ready mixed primer of approved brand and manufacture on plaster surface.									
	(a) Ready mix white primer.			150			10			
	Onty BF from item No-	25/	21.12				121.35	m <sup>2</sup>		
	AP A TOLER			dan made over be		Total	121.35	m²	61.30	7,438.7
3/2,1.84	Applying one coat of distemper primer of approved brand and manufacture on wall surface.							TI.		-
- 1	Qnty BF from item No-	22/	15.18				36.00	m <sup>2</sup>	26.10	939.60
/21.79	Distempering 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).		7.50					æ		
	Qnty BF From item No-	28/2	21.84				36.00	m <sup>2</sup>	102.80	3,700.80
/21.92	Painting with synthetic enamel paint of approved brand and manufacture in all shades on new work (two or more coats).						2.			
	Qnty BF from item No- (a) General quality	26/2	21.61		نت مند					
	(c) contrar quanty				نفسحم س		6.82	m²	81.50	555.50
o ir	Providing Trapezoidal Polyester Coated Salvanised Steel Sheets Roofing of any clour of 1.06m width at all levels acluding fitting and fixing ridging with self						- 51			
0	rilling , self tapping screws, EPDM rashers etc. complete excluding the cost f purlin, rafter and trusses.			-						**
	i) For 0.50mm thick:	1		9.00	5		45.00	sqm	1015.00	45,675.00
G	roviding and fixing of Polyester Coated alvanised Steel Sheets of any colour									

Item.		Particulars of items and details of works	-	No.	L	B m	H/D In	Qnty.	Unit	Rate	Amount
).		h 0.50mm thick with 150 mm dapping fixed with Self Drilling &									
X		ping Screws with EPDM washer but uding the cost of base frame.						в		#7	
*	(i)	For 0.50mm thick:	_1_		7.65	6.1		46.67	sqm	1015.00	47,364.98
2/16.37	Prov	viding Trapezoidal Polyester Coated									
		vanised Steel Sheets Roofing of any			. 5						
		our of 1.06m width at all levels uding fitting and fixing ridging with self.	7.			1 22 23	- 1	E#	100	381	
	drilli was	ng , self tapping screws, EPDM hers etc. complete excluding the cost urlin, rafter and trusses.	(6)			85)					
- 4 ,	(i)	For 0.50mm thick:						-8			
		Ridges & Valley	1		18.89	Contract of the contract		18.89	m	486.40	9,188.10
											1
		ctural steel work rivetted, bolted	=1								70
		ded in built up sections, trusses and ned works, including cutting, hoisting,							3,		10
		g in position and applying a priming								THE STATE OF THE S	V.
	(In	of approved steel primer all complete. Tees, R.S. Joists, Angles, Flats and nnels.)							18		
		Steel truss @4kg/sqm	-	1				185.00	kg	90.80	16,798.00
	1		10						1 14	Total	830,149.04
urniture	and	fixtures - @ Rs.500 per child	-	-	Ti and a st				0 8		20,000.00
100		44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				*********			-	Total	850,149.04
$\lambda_{\epsilon}$			100				1	A 20.00		Say	850,000.00
						- eve locate	(	Rupees e	ight la	Say kh fifty tho	

Assistant Engineer, School Education Mizoram, Aizawl



CL	Description of Home	11-	- · ·			I I iA	04:	Data I	A
Sl.no 1/2.06	Description of Items  Earthwork in excavation over areas (exceeding	No	L	В	D	Unit	Qty	Rate	Amount
	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.				7, 4				
	a) Ordinary and hard soil	1	10.000	4.200	0.400	cum	16.800	284.30	4776.24
2/2.08	Earth work in excavation in foundation trenches								
	( b ) Hard Soil ( Pick work )						• •		1 2 3 4
	Foundation for main column	4	1.00	1.00	1.00	cum	4.00		
	Foundation for verandah column	2	1.00	1.00	1.00	cum	2.00	t seed by	- X
		W			Total:	cum	6.00	327.20	1,963.20
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.							Tager	
	Qnty. BF from S.No.	2/2.08					6.00		
# 1	Deduct from earthwork			7 .	9	1 10 V		(*)	
	Main Column	4	0.25	0.25	0.60	cum	-0.150		30 4 7
	Verandah column	2	0.20	0.20	0.60	cum	-0.048		The second secon
	Footing	6	1.00	1.00	0.30	cum	-1.800	are a contract	
70	Column Foundation	6	1.00	1.00	0.10	cum	-0.600		
		- 1		11.53	Total:	cum	3.40	90.30	307.20
	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering in - All work upto plinth level:							X-	*
	(a) 1: 3: 6								3.
4. 2	Column Foundation	6	1.00	1.00	0.10	cum	0.600		
	Floor	1	4.80	3.00		cum	1.440		
					Total	cum	2.040	5968.30	12,175.3
	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		*				120 120 120		

-	(2)	All work upto foundation & plinth level.		T	T	r	Г	r	T	
-	(4)	Footing	- 6	1.00	4.00	0.30	cum	1.800		
-		Main Column	4	0.25	W		1000 TC1010	0.15		<u>_</u>
-		Verandah column		0.20				0.15		
-+		Verandan berahin		0.20	0.20	Total		2.00	8847.30	47.676./
	(b)	All work above plinth level up to Floor V level				- I Otal	cum	2.00	6647.30	17,676.9
4				* - * -			1.00 × W	- x		
		Main column	2	0.25	0.25	2.800	cum	0.35		
			2	0.25	0.25	2.800	cum	0.35	- F	1 <del>1</del>
		Verandah column	2	0.20	0.20	2.800	cum	0.22		
						Total	cum	0.92		
		Tie beam								
			3	2.75	0.20	0.250	cum	0.41		
			2	2.75	0.20	0.250	cum	0.28		
			2	1.55	0.18	0.250	cum	0.14		4
			Take 1	440			GT::	2.68	9393.30	25,127.0
		el reinforcement for RCC work including ghtening, cutting, bending, placing in position				X	h h			
(	f)	Thermo-Mechanically Treated Bars			CONTRACTOR OF THE CONTRACTOR O					
	2	12mm bar							The second secon	
		Column	4	4	3.95		rm	63.200		Tarte in C
	- 9		2	4	3.55		rm	28.400		· · · · · · · · · · · · · · · · · · ·
		Tie beam	3	4	5		rm	60.000		and the second
			. 2	4	4		rm	32.000		**************************************
		Footing	6	2	8	The state of the s	rm	96.000		
		Total		:	The state of the s		rm	279.600		
		@	0.89	kg/cum	•			248.844		
	$\dashv$	10mm bars for								
	_	Wash	2	3.1	6		rm .	37.200		
	$\dashv$		2				rm	30.800		
	1	Counter	2	1.2			rm .	14.400		
_	+		2				rm	30.800		
	1			0.70	22		rm	113.200		
	+		@	0.62	kg/cum		Name and Address of the Owner, where the Owner, which is the Owne	70.184		
-+	-	8mm bars for stirrups		0.02	kg/cum		Kg	70.104		n si

	I	250x250 column		T		length		rm	13.600		1 - 1
	7.	@	0.125mn	nc/c	1					7	
		No.of stirups		A				nos	108.000		
40		Total length	0.78	x	108.000			rm	84.240		
	1	200x200mm column		a a	0 K S	length		rm	6.800		
		@	0.125mm	nc/c	l	-					<del>- /- ,</del>
		No.of stirups					a .	nos	55.000		
		Total length	0.58	x	55.000			rm	31.900		
		200x250 beam				length		rm	18.650		
		No.of stirups				longui		nos	150.000		
		Total length	0.75	v .	150.000			rm	112.500		
		Total length of stirrups	0.70	^	150.000			m	196.740		<del></del>
			@	0.4	kg/cum			Kg	78.696	3 3	
						Total		Kg	397.724		
	<u></u>	Add 5% for wastage and lap joint etc.		F., 1		÷		Kg	19.886		
19		, 10 m					GT	Kg	417.610	83.70	34,953.9
7/5.11	Cer	ntering and shuttering including strutting, pping, etc. and removal of form works in -			(2)						
		Columns, pillars, piers, abutments,	. 22	100 2 10							
		posts and struts.				8.					
2	- 1	Column	W. 7								1
		250x250 column	. 1	13.60			1.00	sqm	13.600		
				,			Total:	sqm	13.600	506.30	6,885.6
	d)	Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc.					5)		Tree Arms		
		Beams.							- S - 111 Au		
		200X250mm beam		40.050	<u>**                                   </u>		0.05		11.000		
	F-16	200/200mm beam	- 1	16.850			0.85		14.323		
8/6 00	7.5	om thick brick magazine with first class brick in		1,8	•	Total:		sqm	14.32	400.10	5,730.4
	supe	cm thick brick masonry with first class brick in erstructure above plinth level upto floor two l including curing, etc. complete.	W.	•		3.1					
		in cement mortar 1 : 4 ( 1 cement : 4 fine sand )					72/19		(c) 10 8-0		
		Wall	2	3.00	2.70	*		sqm	16.200		
			2	3.00				sqm	16.200		With the second second second
		Deduction									<u>_</u>
		Main Door	1	2.10	1.20			sqm	-2.520		
	$\neg$	Windows	2	1.65	The second secon			sqm	-2.970		

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至

		Ventilation	2	0.90	~ 0.45		sqm	-0.810		· Are
		Counter	1	1.20	0.90		sqm	-1.080	*	
	- 8		·			Total:	sqm	25.020	631.40	15,797/33
		viding 1st class local wood dressed in frames of ukat for doors, windows, clerestory windows		430 Jac				v .	2.	
	Orica	Main door	1	1.20	0.075	0.10	cum	0.009		
-			2	2.10	0.075	0.10	cum	0.032		×
		Windows & Ventilation	4	1.65	0.075	0.10	cum	0.050		er eraju
			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	Prov	viding and fixing 30mm thick panelled door tter comprising of styles and rails of seasoned	-8 -					9		
	5110	main door	1		1.20	2.10	sqm	2.52		
	_	Counter door	1		1.20	0.90	sqm	1.08	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	163
						Total =	sqm	3.60	6427.60	23,139.36
11/9.1 5		viding and fixing 1st class local wood glazed litters using 3mm thick plate sheet glass for				2 N	ar ar	35.	is .	3 100
	0	30mm thick		100	8		1 1		7. 11	
		Windows & Ventilations	2	1.65	0.90		sqm	2.97	- M	
		Single ventilation	2	0.45	0.90	I I	sqm	0.81		
anti-triff			7 0		<b>*</b>	Total =	sqm	3.78	2140.10	8,089.58
12/9.43	fran	oviding 1st class local wood work dressed in mes of false ceiling, partition, etc. sawn and ed in position.			2		# # # # # # # # # # # # # # # # # # #			
		Roof beam	3	3.40	0.08	0.10	cum	0.08		
10.00			2	4.80	0.08	0.10	cum	0.07		
	1					Total	cum	∠ 0.15	35891.80	5,329.93
13/21.	12n	mm cement plaster 1 : 4				20	4			
07		cement : 3 fine sand).		1				* W		
	+	Qnty. B.F from S. No.8/6.06(twice)	2	25.02		0	sqm	50.040		
		Counter	1	1.20	0.70		sqm	0.840	14 15	e ee ee
	+		1	1.90	0.10		sqm	0.190		
	+	Wash	1	3.10	0.70		sqm	2.170		The state of the s
	+	1	1	3.80	0.10		sqm	0.38		## 15 m
-	+					Total::	sqm	53.62	190.40	10,209.25



5/21.6	app	blying priming coat with ready mixed primer of proved brand and manufacture on wood work I plywood complete.		76				q		
	(a)	Ready mix pink/grey primer.								
1.0		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
	bra	nting with synthetic enamel paint of approved and manufacture in all shade on new work or more coats).								* 1
	a)	General quality	Qnty. BF	from	15/21.61		sqm	1.62		
			Qnty. BF	from	10/9.37	(both sides)	sqm	7.20		s - 20
						Total	sqm	8.82	81.50	718.83
17/21. 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.		. d. 55						
	(b)	Premium exterior emulsion like weathercote, weather shield etc.					4		33.	
		Qnty. BF from S/No.	13/2	1.07	127		sqm	53.62		
						Total::	sqm	53.62	93.00	4,986.66
18/21. 60		Applying one coat of cement primer of approved brand and manufacture on wall surface.					\$ 4 \$20000			2741 #
		Qnty. BF from S/No.	17/2	1.81			sqm	53.62	53.80	2,884.76
19/14. 07		Providing and fixing M.S. Tower bolts (socket bolts) bright finished with necessary screws etc. complete.								
	(a)	300 mm			•		Nos	1.00	110.200	110.20
20/14. 10	*	Providing and fixing M.S. handles with necessary screws, etc. complete				*	1			
	(d)	150mm		24 2				12.000	64.100	769.20
21/16. 01	THE PARTY NAMED IN	viding corrugated G.S sheet roofing fixed with								
		1mm thick with zinc coating not less than 275gm/sqm	1	3.6	3.3		sqm	11.880		M ter
			1	3.6	2.1		sqm	7.560		
	4.0			(Fig.		Total::	sqm	19.440	1015.70	19,745.21

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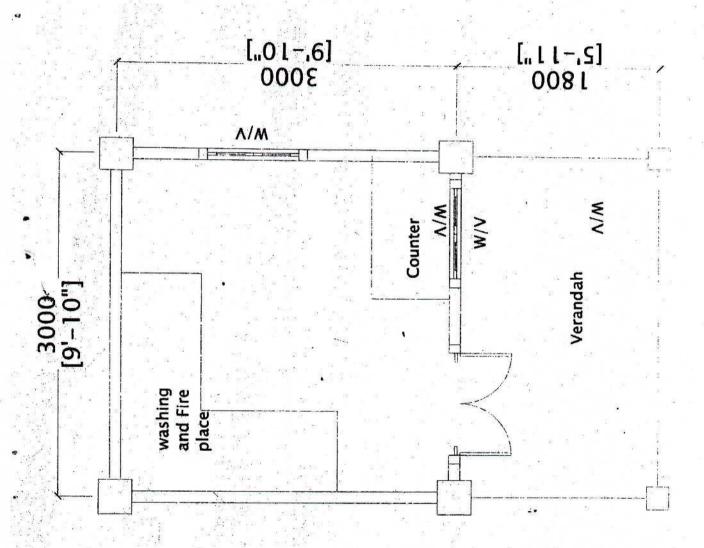
22/16. 09	Pro	oviding and fixing ∮5cm wide 45cm over all semi cular plain Gs sheet gutter			•/ 3					
	(b)	0.63mm thick							3	
	(5)		2	3.60			m	7.200	404.80	2,914.56
23/9.0 8	100 Per 100 Pe	oviding 1st class local wood in trusses etc. luding hoisting fixing in position supplying	to te	10.00 (8.0 t) 10.00 (8.0 t) 10.00 (8.0 t)						
	nec	cessary fittings such as spikes bolts and nuts,		7.					97.2	
	nail	ls etc and applying wood preservative for exposed surface etc. complete.	1994							
10	une		3			A X			e de Mil	
		Rafter	4	3.2	0.075	0.1	cum	0.096		
			4	2	0.075	0.1	cum	0.060		
		Purlin	6	3.6	0.075	0.05	cum	0.081		
			u e y i		18 8	Total::	cum	0.237	38740.90	9,181.59
25/14.0 8	Pro	viding and fixing m.s pull bolt lock conforming	, 9/ - +2 s.							
			7.			4	No	4.000	34.30	137.20
			- a .			4			Total	220,755.86
		6 multi tap Hand washing (L.S)						E is		13,510.00
- 1. I	1 ,	Wooden Storage Box 6ftx2ftx1.5ft (L.S)		HT 12				A [		10,200.00
		Total		-, 1.5,	Y Y	47			Say,	244,465.86
		Deduct 10% contactors profit	+ 9 3		1.					24,446.59
8 V 9 3		G.Total	* *	NATE OF SECOND	a star	7 18 - 315		1 12 m		220,019.28
			x + +		T 0 = 744	1 To 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A 1		Say,	220,000.00

(Rupees two lakh twenty thousand) only.

Assistant Engineer, School Education cam, Aizawl







Assistant Engineer, School Education Mizoram, Aizawl

