



HIGH COMMISSION OF INDIA

BIDDING DOCUMENT

FOR

CONSTRUCTION OF 70X25FT SCHOOL BUILDING, CAFETERIA, TOILET BLOCK, MAIN GATE, CHAIN LINK FENCE, REPAIR WORKS OF BUILDINGS, MODIFY PLAY AREA AND ACCESS AREA, ANCILLARY WORKS, STORM WATER SYSTEM, REPAIR WORKS OF BOUNDARY WALL, DRINKING WATER SYSTEM, SURVEYING WORKS, ELECTRICAL WIRING (INTERNAL) AT SHRI KALEIVAANI VIDYALAYA, RUWANWELLA

CONTRACT NO: COL/DC/228/03/2018 - 8

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Invitation for Bids
High Commission of India
Grant Number: COL/DC/228/10/2017

Construction of 70x25ft School Building, Cafeteria, Toilet Block, Main gate, Chain link fence, Repair works of Buildings, Modify play area and Access area, Ancillary works, Storm water system, Repair works of boundary wall, Drinking Water System, Surveying Works, Electrical Wiring (Internal) at Shri Kaleivaani Vidyalaya, Ruwanwella

1. The Counsellor (Development Cooperation), on behalf of the High Commission of India invites sealed bids from eligible and qualified bidders for **Construction of 70x25ft School Building, Cafeteria, Toilet Block, Main gate, Chain link fence, Repair works of Buildings, Modify play area and Access area, Ancillary works, Storm water system, Repair works of boundary wall, Drinking Water System, Surveying Works, Electrical Wiring (Internal) at Shri Kaleivaani Vidyalaya, Ruwanwella** at an estimated cost of **Rs.31.9 Million**.
2. Scope of works include the Construction works but not limited to Earthwork, Masonry, Concrete, Doors and Windows, Finishes, Roof work, Electrical and Plumbing, etc. and Total Construction period is **365** calendar days.
3. **Counsellor (Development of Cooperation) on behalf of the High Commission of India, Colombo** now invites sealed bids from eligible and qualified bidders for construction of the above under National Competitive Bidding procedure. **Since the Total Cost Estimate of this procurement is below Rs. 50 Million, regional preference and CIDA grade preference shall apply as stipulated in Public Finance Circular No. 04/2016(ii).**
4. The technical bid (Original & Duplicate) and the financial bid (Original & Duplicate) documents should be sealed by the bidder in separate covers duly super scribed and these four sealed covers are to be put in a bigger cover which should also be sealed and duly super scribed.
5. To be eligible for contract award, the successful bidder shall not have been blacklisted and shall meet the requirements of CIDA registration as above or its equivalent.
6. Qualification requirements are indicated in the Bidding document. Additional details are provided in the Bidding Data & Contract Data.
7. The Bidding Documents can be seen on Mission's website www.hcicolombo.org.
8. A complete set of Bidding Documents in English language may be purchased by interested bidders from the Project Officer (Development Cooperation), High Commission of India, 36-38, Galle Road, Colombo-03 from **26 October 2020 to 10 November 2020** between 09:30 hrs to 16:00 hrs, upon payment of a non refundable fee of Rs. 5,000.00 in cash. The bidding documents may also be downloaded free of cost from Mission's website www.hcicolombo.gov.in.
9. Pre Bid meeting will be held at the Conference Hall, High Commission of India, 36-38, Galle Road, Colombo-03 commencing at **11:00 Hrs on 06 November 2020**
10. Site Visit will be notified on the day of Pre bid meeting on **06 November 2020**
11. Bids shall be submitted by hand to the **Project Officer (Development Cooperation), High Commission of India, 36-38, Galle Road, Colombo-03** on or before **15:00 hrs on 16 November 2020** Late bids will be

rejected. Technical bids will be opened at **15:30 hrs on the 16 November 2020** at the High Commission of India in the presence of the bidders' representatives who choose to attend.

12. Bidders or their authorized representatives are requested to be present at the opening of bids.

13. Each bidder shall provide the name and contact details of an individual to act as a point of contact during the tender process. That person may be asked to clarify the bid to provide additional information during the evaluation process.

14. The High Commission of India, Colombo shall provide a copy of all questions and answers provided during the tendering process to all bidders.

15. Only communications that are in writing from the High Commission of India, Colombo may be considered as properly authorized expressions on the Mission's behalf.

16. In submitting a bid to the Mission, the bidder will be deemed to have understood this bidding document, obtained all requisite information and verified the correctness of any information to be relied upon.

17. In submitting a bid to the Mission, the bidder will be deemed to be fully informed and to have accepted the terms and conditions outlined in this bid document.

18. The bidding company and its sister company or subsidiary should not bid separately in the same bid. A certificate to this effect should be given by the bidding company at the time of bidding.

19. The decision of High Commission of India in deciding the eligibility of the company to take part in the tender process is final.

20. The Mission reserves the right to accept or reject any or all Bid(s) and to annul the bidding process, at any time, thereby rejecting all bids, prior to any Contract being awarded.

21. The High Commission of India, Colombo reserves the right to clarify without restriction with bidders on any matter contained in the bids, without disclosing this to any other person.

22. The bidders should note that in the event of Contract having been awarded, the contractor will not assign in whole or in part its rights or obligations without the prior approval of the Mission.

23. The contract will also include provisions for the bidding company to adhere to all local laws applicable. The contract will also include provisions of *Force Majeure*, termination of contract, consequences of termination and re-tendering after termination of contract.

24. Any dispute or difference regarding the interpretation of the provisions of the Agreement/Contract shall be resolved amicably between the parties. If the dispute is not resolved through mutual consultations within a period of six months, either party may refer the dispute to arbitration in accordance with the Arbitration & Conciliation Act 1996 of India as amended from time to time. The number of arbitrators shall be one and that the place of arbitration shall be New Delhi, India. In such a situation the applicable law will be the law of India. The language of the Tribunal shall be English. The cost shall be borne by the parties equally unless otherwise determined by the Arbitral Tribunal.

25. The Bids shall be valid for 120 days from the date of closing of bids or any extended period. All bids shall be accompanied by a Bid Security as Clause 16.2 of the Bidding Data.

26. Preference will be given to those who are not currently handling more than two projects awarded by the High Commission.

Counsellor (Development Cooperation)
High Commission of India,

**36-38, Galle Road,
Colombo -03**

Section 1

Instructions to Bidders (ITB)

Instructions to Bidders

Instructions to Bidders that will be applicable for this bid is given in Section I of the Standard Bidding Document for Procurement of Works, CIDA publication NO: ICTAD/SBD/01, Second Edition, January 2007, Published by the Construction Industry Development Authority (CIDA)

Instructions to Bidders shall be read in conjunction with Bidding Data

All conditions and the content of CIDA Publication No. ICTAD/SBD/01*(Second Edition– January 2007)* **is valid for this bid**, unless otherwise amended, substituted or added by “Section V – Bidding Data & Contract Data” of this document.

(Refer CIDA Publication No. ICTAD/SBD/01 – Second Edition– January 2007, Pages from 07 to 19)

Section II

Standard Forms [Contract]

Notes on form of Letter of Acceptance

The letter of Acceptance will be the basis for formation of the contract as described in Clause 33 of the Instructions to Bidders. This form of Letter of Acceptance should be filled in and sent to the successful bidder only after evaluation of Bids and after obtaining approval from the relevant Authority.

Letter of Acceptance

Date 20...

To:

This is to inform you that your bid (Ref No) dated 20.. for the for the Contract price of SLR [Sri Lankan Rupees], as corrected, in accordance with Instructions to Bidders, is hereby accepted.

2. You are hereby instructed to proceed with the execution of the said Works in accordance with the Contract Document.

3. You are hereby instructed to submit a performance security of 5% of initial contract price within 14 days on receipt of this Letter of Acceptance. The performance security shall be in the form of Bank Guarantee from a reputed Commercial Bank operating in Sri Lanka or Construction Guarantee Fund. The Performance Security shall be in favour of the High Commission of India, Colombo and valid till20.....

4. The site possession date shall be within 14 days from the date of the Letter of Acceptance. The Contract Period shall be sixteen (16) months from the date of signing of contract.

5. You may contact Secretary, Ministry of Education to make arrangements for taking over the site in order to commence the Works.

6. This Letter of Acceptance and your Bid will form a binding contract until the formal contract is signed.

Authorized Signature:

Name and title of Signatory :

Counsellor (Development Cooperation)

Name of Agency : High Commission of India, Colombo.

STANDARD FORM: AGREEMENT

This AGREEMENT, made the -----[day] day of -----[month] 20----- [year] between -
-----[name and address of Employer] (hereinafter called “the Employer”) of
the one part, and ----- [name and address of Contractor]
(hereinafter called “the Contractor”) of the other part.

WHEREAS the Employer desires that the Contractor execute -----[name
and identification number of Contract] (hereinafter called “the Works”) and the Employer has
accepted the Bid by the Contractor for the execution and completion of such Works and the
remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expressions shall have the same meanings as are respectively
assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to
form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter
mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works
and remedy any defects therein in conformity in all respects with the provisions of the Contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution and
completion of the Works and the remedying of defects wherein the Contract Price or such other sum
as may become payable under the provisions of the Contract at the times and in the manner
prescribed by the Contract.

In Witness whereof the parties thereto have caused this Agreement to be executed the day and year
aforementioned, in accordance with laws of Sri Lanka.

.....
Authorized signature of Contractor

.....
Authorized signature of Employer

In the presence of:

Witnesses :

1. Name and NIC No.
Signature
Address
2. Name and NIC No.
Signature
Address

**FORM OF PERFORMANCE SECURITY
(Unconditional)**

----- *[Issuing
Agency's Name, and Address of Issuing Branch or Office]*

Beneficiary: The Counsellor, High Commission of India

Date: -----

PERFORMANCE GUARANTEE No.: -----

We have been informed that ----- *[name of Contractor]*
(hereinafter called "the Contractor") has entered into Contract No. ----- *[reference
number of the contract]* dated ----- with you, for the ----- *[insert
"construction"]* of ----- *[name of contract, contract
number and brief description of Works]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Contractor, we ----- *[name of Agency]*
hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of -----
----- *[amount in figures]* (-----) *[amount in words]*,
upon receipt by us of your first demand in writing accompanied by a written statement stating that
the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or
to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the -----day of -----, 20---- *[insert date, 60 days
beyond the Intended Completion Date]* and any demand for payment under it must be received by us
at this office on or before that date.

[signature(s)]

FORM OF ADVANCE PAYMENT SECURITY

----- [Name and address of
Agency, and Address of Issuing Branch or Office]

Beneficiary: The Counsellor, High Commission of India

Date: -----

ADVANCE PAYMENT GUARANTEE No.: -----

We have been informed that ----- [name of Contractor]
(hereinafter called "the Contractor") has entered into Contract No. ----- [reference
number of the contract] dated ----- with you, for the -----
----- [name of contract and brief description] (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, an advance payment in
the sum ----- [amount in figures] (-----) [amount in
words] is to be made against an advance payment guarantee.

At the request of the Contractor, we ----- [name of issuing
agency] hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount
of ----- [amount in figures] (-----) [amount in
words] upon receipt by us of your first demand in writing accompanied by a written statement stating
that the Contractor is in breach of its obligation in repayment of the Advance payment under the
Contract.

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance
payment repaid by the Contractor.

This guarantee shall expire on -----[Insert the date, 60 days beyond the Intended
Completion Date]

Consequently, any demand for payment under this guarantee must be received by us at this office on
or before that date.

[signature(s)]

Section III

Conditions of Contract (CoC)

Conditions of Contract (CoC)

Conditions of contract will be applicable for this bid which is given in Section III of the Standard Bidding Document for Procurement of Works, CIDA publication NO: ICTAD/SBD/01, Second Edition, January 2007, Published by the Construction Industry Development Authority(CIDA)conditions of contract shall be read in conjunction with Contract Data

All conditions and the content of CIDA Publication No. ICTAD/SBD/01*(Second Edition – January 2007)* **is valid for this bid and / or contract**, unless otherwise amended, substituted or added by “Section V -Bidding Data & Contract Data” of this document.

Conditions of Contract shall be read in conjunction with the “Section V – Bidding Data & Contract Data” in this Document.

Note:

The ICTAD Document referred to in Sections 1 & 3 above will not be issued with this Document.

The bidders are advised to purchase this document from
Construction Industry Development Authority
(CIDA), “Savsiripaya”, No.123, Wijerama Mawatha, Colombo 07.

Section IIIA
Special Conditions of Contract

SPECIAL TENDER CONDITIONS

1. The bidders are advised to visit the site (with prior permission from the Principal of the College) and get a clear understanding of the work site before bidding.

2. The bidders shall note that the site for the works is situated in a premises where hundreds of Students and taking part in educational activities.

3. NOISE AND VIBRATION CONTROL MINIMIZE NOISE:

(a) Take all practicable precautions to minimize noise resulting from work under the contract. Fit all construction equipment with noise suppressors and use so that noise is minimized.

(b) Under mentioned condition shall be included in the Tender documents as “The Contractor should take steps to ensure that the smooth functioning of the College won’t be disturbed during the entire construction period within the premises.”

4. DISPOSAL OF REFUSE

Remove refuse from the site (including food scraps and the like) resulting from work under the contract. Handle refuse in a manner so as to confine the material completely and prevent dust emission. The site shall be left clean and tidy on completion of the contract.

Unless otherwise specified contractor should hand over the usable materials to the Employer during the demolition work and all the care should be taken to remove such item without any damages.

5. DUST CONTROL

Restrict dust and windblown sand caused by the works as required.

6. TRUCKING

Convey soils, earth, sand, loose debris, and similar loose materials to or from the site in a manner that will prevent dropping of materials on footpaths and streets. Ensure that the wheels, tracks and body surfaces of all vehicles and plant leaving the site are free of mud. Ensure that no motor vehicle leaves the site loaded with any material unless it is locked in a manner which prevents the discharge or dropping of any of the materials.

Ensure that a cleanup is performed on a daily basis or as required along the route taken by the trucks.

7. EXISTING BUILDING ADJOINING THE PROPOSED BUILDING

Adequately protect from damage Buildings, grass and other plants and trees which need not be removed or destroyed for construction operations, or which are shown on the drawings and /or specified to be retained, or which are beyond the limits allowed to the contractor as shown or specified.

8. TEMPORARY FENCE

Enclose the areas defined in CONTRACTOR’S SITE AREAS with a temporary man proof security fence with adequate gates. Remove on completion and make good the grounds.

9. SAFETY

Priced quoted for item should be included with all necessary costs of provisions for safety of materials, workmen, visiting parties from consultant and client. Also the price quoted for items should be included with all necessary costs of provisions to keep the site clean at all times preventing sources and places for mosquito breeding and preventing measures for spreading disease from the site.

Section IV

Form of Bid and Qualification Information

Form of Bid

Name of Contract: **Construction of 70x25ft School Building, Cafeteria, Toilet Block, Main gate, Chain link fence, Repair works of Buildings, Modify play area and Access area, Ancillary works, Storm water system, Repair works of boundary wall, Drinking Water System, Surveying Works, Electrical Wiring (Internal) at ShriKaleivaaniVidyalaya, Ruwanwella**

Contract No: COL/DC/228/03/2018 - 8

To: The Counsellor, High Commission of India

Gentleman,

1. Having examined the Standard Bidding Document - Procurement of Works [ICTAD/SBD/01 - Second Edition, January 2007], Conditions of Contract, Specifications, Drawings, Schedules and Addenda for the execution of the above-named Works, we the undersigned, offer to execute and complete such Works and remedy any defect therein in conformity with the aforesaid Conditions of Contract, Specifications, Drawings, Schedules and addenda no.....for the sum of Sri Lankan Rupees..... (LKR) or such other sums as may be ascertained in accordance with the said Conditions.

2. We acknowledge that the Contract Data forms part of our Bid.

3. We undertake, if our Bid is accepted, to commence the Works as stipulated in the Contract Data, and to complete the whole of the Works comprised in the Contract within the time stated in the Contract Data.

4. We agree to abide by this Bid for the period of **91 Days** from the date fixed for receiving or any extended period and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

5. Unless and until a formal agreement is prepared and executed this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.

6. We accept / we do not accept the Adjudicator.

7. We understand that you are not bound to accept the lowest or any Bid you may receive.

Dated this day of 20... in the capacity ofduly authorized to sign tenders for and on behalf of

(IN BLOCK CAPITALS)

Signature :

Name :

Designation :

COMPANY SEAL

Address :

Witness :

Qualification Information

ICTAD Registration	
Registration number	<i>(attach copies of relevant pages from the registration book)</i>
Grade	
Specialty	
Expiry Date	
Blacklisted Contractors	
Have you been declared as a defaulted contractor by NPA or any other Agency?	
IF yes provide details	
VAT Registration Number	
Construction Program	<i>(attach as annex)</i>
Legal status	<i>(attach relevant status copies, as annex)</i>
Value of Construction works performed in last 5 years	<i>(attach copies of Certificate of Completion etc. and other documents such as profit-loss and income expenditure statement)</i>
Year	
Year	
Year	
Year	
Year	
Value of similar works completed in last 10 years (indicate only the three largest projects) - As per Format 1	1. Value Year 2. Value Year 3. Value Year <i>(attach copies of Certificate of Completion etc., as annex)</i>
Value of work in hand As per Format 2	Rs:.....
Major items of construction equipment proposed	1. type Capacity 2. type Capacity 3. type Capacity 4. type Capacity 5. type Capacity
Qualification and experience of key staff – Site & Head Office (Permanent, Contract basis & Consultants) A per Format 3	Technical: 1. 2. 3.
	Managerial: 1. 2. 3.
Other information requested under ITB Clause 4.1	

Format -1

Works of Similar Nature Completed- (Since)

Name and Location of Project	Description of Work	Name, Address, Contract no & Client Name	Nature of Work	Value of Work	Date of Commencement	Date of Completion

Format - 2

Work in Hand (As on 21 days prior to Last Date of Close of Bid)

Name of the Client	Nature of Work	Value of Contract	Scheduled Date of Completion	Value of work Completed	Value of outstanding construction work

Format - 3

Qualification and experience of key staff – Site & Head Office

(a) Professional Staff

Name	Proposed Position	Qualification and Date of Achievement(Attached copies of Certificates)	No. of years of Post Qualification Experience	Engagement with Company (Permanent/Part Time)

(b) Technical Staff

Name	Proposed Position	Qualification and Date of Achievement(Attached copies of Certificates)	No. of years of Post Qualification Experience	Engagement with Company (Permanent/Part Time)

Section V

Bidding Data and Contract Data

Bidding Data

Instructions to Bidders

Clause Reference	
(1.1)	<p>The Employer is</p> <p>Name: High Commission of India</p> <p>Address: No. 36-38, Galle Road, Colombo 03</p> <p>The works consists of Construction of 70x25ft School Building, Cafeteria, Toilet Block, Main gate, Chain link fence, Repair works of Buildings, Modify play area and Access area, Ancillary works, Storm water system, Repair works of boundary wall, Drinking Water System, Surveying Works, Electrical Wiring (Internal) at Shri KaleivaaniVidyalaya, Ruwanwella</p>
(1.2)	Intended Completion Date is 365 calendar days
(1.3)	<p>The office for collection of bid forms is Project Officer High Commission of India Colombo 03</p> <p>The non-refundable fee is Rupees <u>Rs. 5,000.00</u></p> <p>The Bid forms will be issued until 10 November 2020</p> <p>The bidding documents may also be downloaded free of cost from Mission's website www.hcicolombo.gov.in.</p>
(2.1)	The source of funds is Government of India
(4.2)	<p>The registration required Specialty-Building Construction</p> <p>Grade- C4 and C6 of the ICTAD (presently CIDA) registration</p> <p>The <u>Successful Bidder</u> should be registered in terms of the Public contract Act no.3 of 1987 prior to the contract award</p>
(4.3)	<p>The following information shall be provided in Section 4:</p> <p>* ICTAD (Now CIDA) Registration; Registration number Grade</p>

	<p>Specialty</p> <p>Expiry Date</p> <ul style="list-style-type: none"> * VAT Registration number and certificated copy should be attached * Construction Programme * Business Registration * Audited Accounts for Last 5 Years(2019-2015) to prove annual turnover * Legal Status (Sole proprietor, Partnership, Company etc.) * Power of Attorney from Board of Directors or Board of Resolution for signatory * Authentication for signatory by Affidavit * Total monetary value of construction work performed for each of the last five years; * One similar work value not less than 80% of the project value or two similar work value not less than 50% of the project value or three similar work value not less than 40% of the project value. * Works in hand * Major items of construction equipment proposed to carry out the Contract; * Qualifications and experience of key site management and technical personnel proposed for the Contract; * any other <p>Note:</p> <p>1. Bids will be evaluated in two stages. Technical bids will be evaluated initially. Financial bids of the technically qualified bidders will be evaluated.</p> <p>2. Failure to submit above document, bid will be treated as None responsive and rejected</p>
(4.4)	<ul style="list-style-type: none"> * Average of the annual volume of construction work (Annual Turnover) performed in the last five years shall be at least Rs.48Million * Experience in the construction of at least one contract of a nature and complexity equivalent to the Works over the last 5 years (to comply with this requirement, works cited should be at least 70 percent completed); * Following technical and managerial Staff: <ul style="list-style-type: none"> • Engineer 01 no. (Part time) - B.Sc (Civil) with 05 years experience • Technical officer 02 nos. having of NDT(Civil) or equivalent with 05years experience or NCT (civil) or equivalent with 10years experience <p>*The minimum amount of liquid assets and/or credit facilities net of other contractual commitments and exclusive of any advance payments which may be made under the contract shall be not less than Rs.11Million. Credit/Overdraft facility should be issued by the Bank exclusively for this project</p>
(9.1)	Employer's address for the purpose of clarification is

	<p>Name: The Counsellor</p> <p>Address: High Commission of India</p> <p>No. 36-38, Galle Road, Colombo 03</p> <p>Telephone :0112422788</p> <p>Fax:0112446403</p>
(11.1)	The language of the bidding document shall be English
(13.3)	VAT component shall not be included in the rates. The amount written in the Form of Bid shall be without VAT. However VAT component shall be shown separately at the end of the BOQ.
(13.4)	The Contract is not subjected to price adjustment.
(15.1)	The Bid shall be valid 120 days from opening of bids
(16.1)	Bid shall include a Bid Security using the form included in Section 9
(16.2)	<p>Bid Security shall be:</p> <ul style="list-style-type: none"> for an amount <u>Rs.638,900.70</u> Valid until 30 April 2021 (165 days from opening of bids) Issued by a commercial bank operating in Sri Lanka and approved by the Central Bank of Sri Lanka in favour of the The Counsellor, High Commission of India, No. 36-38, Galle Road, Colombo 03 using the form for bid security (unconditional guarantee) included in Section 9, Standard Forms
(17.0)	<p>Pre Bid meeting -</p> <p>venue High Commission of India, Colombo 03</p> <p>date 06 November 2020</p> <p>time 11pm</p>
(19.2)a	<p>The Employer's address for the purpose of Bid submission is</p> <p>High Commission of India</p> <p>No. 36-38, Galle Road,</p> <p>Colombo 03</p>
(19.2)b	<p>Contract Name:</p> <p>Construction of 70x25ft School Building, Cafeteria, Toilet Block, Main gate, Chain link fence, Repair works of Buildings, Modify play area and Access area, Ancillary works, Storm water system, Repair works of boundary wall, Drinking Water System, Surveying Works, Electrical Wiring (Internal) at Shri Kaleivaani Vidyalaya, Ruwanwella</p>

	Contract no. COL/DC/228/03/2018 - 8
(20.1)	The deadline for submission of Bids shall be 16 November 2020
(34.0)	Amount of Performance Security required is 5% of the Initial Contract Price valid up to 60 days beyond the retention period, issued by a reputed commercial bank operating in Sri Lanka approved by Central Bank. The form acceptable is the one that given in the section II of this document
(36.0)	Any dispute or difference regarding the interpretation of the provisions of the Agreement/Contract shall be resolved amicably between the parties. If the dispute is not resolved through mutual consultations within a period of six months, either party may refer the dispute to arbitration in accordance with the Arbitration & Conciliation Act 1996 of India as amended from time to time. The number of arbitrators shall be one and that the place of arbitration shall be New Delhi, India. In such a situation the applicable law will be the law of India. The language of the Tribunal shall be English. The cost shall be borne by the parties equally unless otherwise determined by the Arbitral Tribunal.

Contract Data

(1.1)	<p>Employer is: High Commission of India</p> <p>Address: No.36-38, Galle Road, Colombo 03</p> <p>Employer's Representative: Ministry of Education</p> <p>Address : Ministry of Education Isurupaya, Battaramulla</p>
	<p>Engineer is:</p> <p>Project Engineer (Sabaragamuwa Province)</p> <p>Address : Project Engineer's Office (NSBS) „NSBS' Project, Premises No-04 Ruwanpura National College of Education, Wellandura, Kahawatte. TP. 045-2273553</p>
(1.1)	<p>The works consists of</p> <p>Construction of 70x25ft School Building, Cafeteria, Toilet Block, Main gate, Chain link fence, Repair works of Buildings, Modify play area and Access area, Ancillary works, Storm water system, Repair works of boundary wall, Drinking Water System, Surveying Works, Electrical Wiring (Internal) at Shri Kaleivaani Vidyalaya, Ruwanwella</p>
(1.1)	The Site is located at Shri Kaleivaani Vidyalaya, Ruwanwella
(1.1)	The Start Date shall be 14Days from the Letter of Acceptance
(8.1)	None
(9.1)	<p>Schedule of Key Personal</p> <ul style="list-style-type: none"> • Engineer 01 no. (Part time) - B.Sc (Civil) with 05 years experience • Technical officer (02 nos.) having of NDT(Civil) or equivalent with 05years experience or NCT (civil) or equivalent with 10 years experience
(13.1)	<p>The minimum insurance covers shall be :</p> <p>(a) • The minimum cover for insurance of the Works and of Plant and Materials is 110% of Initial Contract Price</p>

	<ul style="list-style-type: none"> The maximum deductible for insurance of the Works and of Plant and Materials is 5% of Initial Contract Price <p>(b) • The minimum cover for loss or damage to Equipment is 100% of equipment cost</p> <ul style="list-style-type: none"> The maximum deductible for insurance of Equipment is 5% of minimum cover for equipment. <p>(c) • The minimum cover for insurance of other property (other than the Site) is Rs. 5,000,000.00</p> <p>(d) The minimum cover for personal injury or death,</p> <ul style="list-style-type: none"> for third party and employees of the Employer and other persons engaged by the Employer in the Works Rs.1,000,000.00 per event
(13.2)	<p>a) The minimum cover for personal injury or death,</p> <ul style="list-style-type: none"> for the Contractor's workmen is Rs.1,000,000.00 per event Contractor's employees other than workmen is Rs.1,000,000.00 per event
(17.1)	The Intended Completion Date for the whole of Works shall be 365 calendar days
(21.1)	The Site Possession Date shall be 14 Days from Letter of Acceptance
(27.1)	The Contractor shall submit a programme for the Works within 14 Days of delivery of the Letter of Acceptance.
(27.3)	The period between Programme update is Monthly
(27.4)	The amount to be withheld for late submission of a Programme is Rupees Fifteen Thousand
(35.1)	The Defects Liability Period is 365 Days .
(42.3)	Minimum amount of Interim payment Certificate shall be SLR 5 million.
(47.1)	The Contract Price is not subjected to price adjustment
(48.1)	The retention from each payment shall be 10% of the certified work done. The limit of retention shall be 5% of the Initial Contract Price.
(48.3)	Not Applicable (Retention Money Guarantee)
(49.1)	The liquidated damages for the whole of the Works shall be 0.08% of the Initial Contract price per Day.
(50.1)	The maximum amount of liquidated damages for the whole of the Works shall be 10% of the Initial Contract Price.

(51.1)	<p>Modified as per rules of Government of India</p> <p>An interest-bearing mobilization advance may be paid to the contractor exclusively for the costs of mobilization at 10 % of the contract price on the provision by the contractor of an unconditional Bank Guarantee (BG). Such BG shall remain effective until the advance payment has been fully repaid, but the amount thereof shall be progressively reduced by the amount repaid by the contractor, as indicated in the interim payment certificates (IPCs). The advance will be paid in two installments, each of 5%. The first installment may be paid on commencement of the work against an unconditional BG in respect of the advance. The second installment may be paid on certification by the engineer of the contractor's having achieved a financial progress of 10% of the contract price, as also provision of a BG by the contractor for this part of the advance. Mobilization expenditure mentioned herein shall not include the margin money and bank commission, and so on, paid by the contractor for procurement of BGs against performance security and mobilization advance. A simple interest @ 10% will be charged on the mobilization advance.</p> <p>Advance Payment Security shall be issued by an agency acceptable to Employer using the form for Advance Security (unconditional guarantee) included in Section 05 Standard Forms and it should be valid for 60 Days beyond the Intended Completion Date and shall be in favour of Counsellor (Development Cooperation), High Commission of India, Colombo.</p> <p>The agencies acceptable to Employer are:</p> <ul style="list-style-type: none"> • A commercial bank operating in Sri Lanka approved by Central Bank of Sri Lanka; • a bank based in another country but the guarantee "confirmed" by a bank operating in Sri Lanka approved by Central Bank of Sri Lanka • Construction Guarantee Fund.
(52.1)	<p>The Performance Security shall be 5% of the Initial Contract Price Valid up to 60 days beyond the retention period, issued by a reputed commercial bank operating in Sri Lanka approved by the Central Bank on the format issued with the bidding document.</p>
(60.1)	<p>The percentage to apply to the value of the work not completed, representing the Employer's additional cost for completing the Works, is 25% of Initial Contract price.</p>
(63.7)	<p>The attendance fee payable to the Contractor on nominated sub contract work shall be not exceed 8%</p>

Section VI

Specifications

General Specifications

1. Specification for Building works – Volume I – ICTAD publication No. SCA/4/1
3rd Edition (Revised) – 2004 July
2. Specification for Building works – Volume II Sanitary Installations – ICTAD
publication No. SCA/4/II
2nd Edition (Revised) – 2001 October
3. Specification for Water Supply & Sewerage and Storm Water Drainage works–
ICTAD publication No. SCA/3/2
2nd Edition (Revised) – 2002 April
4. Specification for Electrical and Mechanical works associated with Buildings & Civil
Engineering –ICTAD publication No. SCA/8
2nd Edition (Revised) – 2000 August

Section VII

Bills of Quantities

	<p>A - NOTES</p> <p>This Bill of quantities are contained with numbered pages in consecutive order. Therefore, please check to see that no page is missing, nor any in duplicate &. that all TRADES are carried to SUMMARY at the end of this Bills of Quantities.</p> <p>A₁ - Extent of work.</p> <p>The extent of work to be carried out shall consist of the following:-</p> <ul style="list-style-type: none"> a) Proposed Construction of buildings, repair works, etc. b) All other work as specified or shown in drawings. <p>A₂ - Specifications:</p> <p>All items of work are to be strictly as shown in drawings accordance with and read in conjunction with the Sri Lanka specification for Building works (ICTAD Publications).</p> <p>A₃ - Inspection of site:</p> <p>Tenderers are requested to visit the site & acquaint themselves with all existing conditions & with the nature & extent of work to be done under this contract.</p> <p><u><i>As no extras will be allowed on the plea of want of information due to neglect on their part in this regard.</i></u></p> <p>A₄ - Materials</p> <p>Sand : River Sand & granite metal to be used for all concrete works</p> <p>A₅ - Trades Names</p> <p>Where trade names, brands and / or catalogue numbers are referred to sole preference to any material or equipment is not intended. Any other material or equipment may be used, provided that the characteristics of type, quality, appearance, finish, method of construction and / or performance is not less than specified and provided also that <u><i>approval is first obtained.</i></u></p>
	<p>A₆ - Method of Measurement :-</p> <p>This Bill of Quantities has been prepared generally in accordance with:-</p> <ul style="list-style-type: none"> (a) The principles of the Standard method of measurements for building works in Sri Lanka (SLS : 573 : 1999)

	<p>A₇ - Rates for all items shall be inclusive of the following:</p> <p>(a) All supply of materials labour, Plant, Scaffolding, Waste, and Incidental Materials, Fixing media, Cartage, Hoisting, and Fitting & Fixing complete.</p> <p>(b) Providing holes, chasings etc. as directed for electrical installation & all other services, making good the same as when such installations are provided.</p> <p>(c) Providing samples, Specimens etc. for such items of work as required.</p> <p>(d) All overheads & profits except where otherwise stated.</p> <p>(e) Testing of all building materials and Mechanical, Electrical and Plumbing System.</p> <p>(f) Furnishing monthly 3 sets of photograph for the building under construction, from three locations identified by the Engineer.</p> <p>(g) All Protective and safety measures shall be taken in compliance with relevant standards and regulations.</p> <p>(h) Carry out the works carefully with adequate protection in order to avoid any damage to the existing building during the repair works.</p> <p>(i) Providing security and safeguarding the works, material and plant against damage, vandalism and trespass.</p> <p>Electrical Installations;</p> <p>(j) All Electrical installation shall be done according to the IET wiring regulations – 17th edition (BS7671:2008 incorporating amendment number 3:2015).</p> <p>(k) All MCCB, RCD, MCB and isolators shall be European, Japanese or equivalent.</p> <p>(l) All types of fans shall be approved quality and shall have minimum one year warranty period.</p> <p>(m) Ceiling fans shall be complied with the SLS 814 and shall have cut off safety switch and safety wire provided to prevent detachment of fan motor from the rod.</p> <p>(n) All types of LED lamp fittings should have minimum Two years warranty period.</p> <p>(o) Samples of all materials shall be approved by the Engineer prior to installation.</p>
	<p>A₈ - Measurement</p> <p>Tenderers are to note that the measurements are taken absolutely net, unless otherwise stated and they must, therefore, allow in their prices for all straight cutting & waste, laps, etc. throughout even through not specifically mentioned.</p>
	<p>A₉- Discrepancies:</p> <p>Any discrepancies in Drawings, Specifications, Bills of Quantities or any other documents</p>

shall be brought to the notice of the employer *before bidding*.

A₁₀ - Payments.

Payments shall be made on actual quantity of work carried out at the site as per contract. The quantities set out in the Bill of Quantities are provisional and cover the approximate scope of the work, which is anticipated to be performed by the Contractor. The actual quantities used for final measurement purposes will be determined by the Engineer by measurement of the work completed by the Contractor.

The attention of the tenderer is drawn to the requirements of the contract, the specifications and any other particulars of the tender. It is the tenderers responsibility to see that his prices include for complying with all the requirements of the conditions of contract and any other documents whether specifically referred to in the Bill of Quantities or not.

Day Work

The cost of labour included in a sum shall include wages, bonuses, all allowances paid to operatives directly engaged on day works and overhead& profit. the actual payments made to the work people concerned.

The cost of materials included in a sum shall be the net invoiced price, including delivery to site, loading, unloading material and overhead& profit.

The cost of constructional plant included in a sum shall include fuel, consumable stores, repairs, maintenance, insurance of plant and overhead& profit.

Item No:	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Mason	Hr.	1		
2	Carpenters	Hr.	1		
3	Joiner	Hr.	1		
4	Bar Bender	Hr.	1		
5	Welder	Hr.	1		
6	Electrician	Hr.	1		
7	Painter	Hr.	1		
8	Aluminium Fabricator	Hr.	1		
9	Glazier (Glass fixing)	Hr.	1		
10	Tiler	Hr.	1		
11	Plumber	Hr.	1		
12	Machine Operator	Hr.	1		
13	Un Skilled worker	Hr.	1		
14	Cement (50Kg bag)	Bag	1		
15	River Sand	Cube	1		
16	Slacked Lime(50Kg bag)	Bag	1		
17	Metal 20mm	Cube	1		
18	Metal 25mm	Cube	1		
19	Reinforcing steel High Yield Steel (fy=425 N/mm2)	Kg	1		
20	Reinforcing steel Mild Street (fy=250 N/mm2)	Kg	1		
21	Rubble 150 – 225mm	Cube	1		
22	Wire cut bricks (1000 Nos.)	Nr.	1		
23	Common Bricks (1000 Nos.)	Nr.	1		
24	Imported earth	Cube	1		
25	Query dust	Cube	1		
26	Imported timber for carpentry work- (Malaysian seasoned to treated)	Ft ³	1		
27	Imported timber for joinery work (- Ditto-)	Ft ³	1		

28	Local timber for carpentry work (- Ditto-)	Ft ³	1		
Item No:	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
29	Local timber for Joinery work(-Ditto-)	Ft ³	1		
30	Plywood for lining etc.	Sqr.	1		
31	Plywood for formwork	Sqr.	1		
32	Local timber for Temporary work(- Ditto-)	Sqr.	1		
33	Driver with vehicle up to 14 ton	Hr.	1		
34	Operator with Excavation Dragline, Shovel or Crane	Hr.	1		
35	Operator with Tractor (Tracked) with Dozer blade or Ripper	Hr.	1		
36	Concrete Mixer	Hr.	1		
37	Concrete Pump	Hr.	1		
38	Plate Compactor	Hr.	1		
39	Poker Vibrator	Hr.	1		
40	Air Compressor	Hr.	1		
41	Compressed Air Operated Breaker (Heavy duty)	Hr.	1		
42	Operator with Mobile Crane	Hr.	1		
43	Operator with Tipper Truck	Hr.	1		
44	Operator with Baby Dumper	Hr.	1		
45	Operator with Truck Mixers (Concrete transporters)	Hr.	1		
46	Water Pumps	Hr.	1		
47	Welding plant	Hr.	1		
	Operator with Excavator, face shovel or dragline				
48	a. Up to and including 1 cu.m	Hr.	1		
49	b. Over 1 cu.m but not over 2 cu.m	Hr.	1		
50	c. Over 02 cu.m	Hr.	1		
51	Operator with Tractor (tracked) including bull or angle dozer	Hr.	1		
	Generator				
52	a. Up to and including 150 KW	Hr.	1		
53	b. Over 150, 200 KW	Hr.	1		
54	c. Over 200, 250 KW	Hr.	1		
	Operator with Tractor with Trailer				
55	a. 3.0 m ³ capacity	Hr.	1		
56	b. 2.0 m ³ capacity	Hr.	1		
	Operator with Front End Loader / Mechanical Shovel				
57	a. 1.0m ³ to 2.0 m ³ capacity	Hr.	1		

Section VIII

Drawings

List of Drawings

SN.	Description	Drawing No.
	<u>Construction of 70x25 ft. School Building (Three Storied) at Sri Kaleyvaani Vidyalaya at Ruwanwella</u>	
1	Elevations, section, Detail of Doors & Windows	SN-01
2	Floor plans	SN-02
3	Details of foundation	SN-03
4	Layout of staircase	SN-04
5	Section X-X (Stairway) & detail of stairway	SN-05
6	Reinforcement detail of stairway (Type-1)	SN-06
7	Reinforcement detail of stairway (Type-2 & Type-3)	SN-07
8	Reinforcement detail of stairway (Type-4)	SN-08
9	Detail of Beam – B1	SN-09
10	Layout & slab	SN-10
	<u>Construction of Cafeteria at ShriKaleiwaniVidyalaya, Ruwanwella</u>	
11	Plan, elevation, section, foundation detail	ED/09/NSBS/181/SG/P/33/ND2
	<u>Construction of Toilet Block at ShriKaleivaaniVidyalaya, Ruwanwella</u>	
12	Plan, elevation, section, foundation, door window detail	ED/09/NSBS/181/SG/P/35/ND229
	<u>Supply & Erection of Main Gate Including Name Arch at ShriKaleivaaniVidyalaya, Ruwanwella</u>	
13	Details	ED/09/NSBS/181/SG/P/128

Section IX

Standard Forms (Bid)

FORM OF BID SECURITY

[this Guarantee form shall be filled in accordance with the instructions indicated in brackets]

----- *[insert issuing agency's name, and address of issuing branch or office]*

Beneficiary: The Counsellor, High Commission of India

Date: ----- *[insert (by issuing agency) date]*

BID GUARANTEE No.: ----- *[insert (by issuing agency) number]* We have been informed that ----- *[insert (by issuing agency) name of the Bidder]* (hereinafter called "the Bidder") has submitted to you its bid dated ----- *[insert (by issuing agency) date]* (hereinafter called "the Bid") for the execution of *[insert name of Contract]* under Invitation for Bids No. ----- *[insert IFB number]* ("the IFB").

Furthermore, we understand that, according to your conditions, Bids must be supported by a Bid Guarantee.

At the request of the Bidder, we ----- *[insert name of issuing agency]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of ----- *[insert amount in figures]* ----- *[insert amount in words]* upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

- (a) has withdrawn its Bid during the period of bid validity specified; or
- (b) does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB") ; or
- (c) having been notified of the acceptance of its Bid by the Employer during the period of bid validity, (i) fails or refuses to execute the Contract Form, if required, or (ii) fails or refuses to furnish the Performance Security, in accordance with the ITB.

This Guarantee shall expire: (a) if the Bidder is the successful bidder, upon our receipt of copies of the Contract signed by the Bidder and of the Performance Security issued to you by the Bidder; or (b) if the Bidder is not the successful bidder, upon the earlier of the successful bidder furnishing the performance security, otherwise it will remain in force up to ----- *(insert date)*

Consequently, any demand for payment under this Guarantee must be received by us at the office on or before that date.

[signature(s) of authorized representative(s)]

CHECK LIST FOR BIDDERS

BIDDERS ARE ADVISED TO FILL THE FOLLOWING TABLE:

ITEM	ITB Clause	YES (tick)	REFERENCE
Form of Bid			
Addressed to the Employer?	18		
Completed?	18		
Signed?	18		
Bid Securing Declaration Form(If required)			
Properly filled and signed	16		
Bid Security (If required)			
Addressed to the Employer?	16		
Format as required ?	16		
Issuing Agency as specified?	16		
Amount as requested?	16		
Validity 45 days beyond the validity of Bid?	16		
Qualification Information			
All relevant information completed?	4		
Signed?	4		
Addendum			
Contents of the addendum (if any) taken in to account?	10		
BID package			
All the documents given in ITB Clause 12 enclosed in the original and Copy?	12		
ITB Clause 19 followed before Sealing the Bid Package?	19		

Bills of Quantities for Construction of 70x25ft School Building, Cafeteria, Toilet Block, Main gate, Chain link fence, Repair works of Buildings, Modify play area and Access area, Ancillary works, Storm water system, Repair works of boundary wall, Drinking Water System, Surveying Works, Electrical Wiring (Internal) at Shri Kaleivaani Vidyalaya, Ruwanwella					
Item no	Description of work	Unit	Qty	Rate(Rs.)	Amount (Rs.)
	PRELIMINARIES				
A-01	Allow lump sum for providing a Performance Guarantee and Mobilization Advance Guarantee.	P.sum			72,000.00
A-02	Allow lump sum for Insurance of Property, Material, Equipment ,Works at site, third party Employer's personnel, property at site and Insurance against accidents and injury to workmen.	P.sum			40,000.00
A-03	Allow lump sum for the Construction management services and Supervisory services as per the contract	Item	1.00		
A-04	Allow lump sum for constructing, maintaining and dismantling on completion of the works a temporary site office of adequate size including toilets, electricity & water services for the Engineer's staff , Contractor's site management staff . Engineers staff allocate space for the furniture and sanitary facilities.	Item	1.00		
A-05	Allow lump sum for constructing, maintaining and dismantling on completion of the works buildings to be used as workshops and stores for perishable materials and plant to the approval of the Engineer.	Item	1.00		
A-06	Allow lump sum for providing of name board, (Size 8'-0x4'-0), complete to the approval of the Engineer.	Item	1.00		
A-07	Allow lump sum for carrying out tests including concrete test cubes,tests and approvals.	Item	1.00		
A-08	Allow lump sum for Providing water for use	Item	1.00		
A-09	Allow lump sum for Providing electricity for use	Item	1.00		
A-10	Allow lump sum for provision of As -built. Drawing etc.	Item	1.00		

Item no	Description of work	Unit	Qty	Rate(Rs.)	Amount (Rs.)
A-11	Allow lump sum for necessary protective fencing , dust screen, dust sheets, temporary hoarding, barricade, netting, protection screen etc. with warning signs and in compliance with relevant standards and regulations.	Item	1.00		
A-12	Allow lump sum for removal of all temporary works, rubbish and debris and cleaning up site on completion, leaving all in good order and handing over.	Item	1.00		
	Total Amount carried to Grand Summary				

**Bills of Quantities for Construction of 70x25 ft. School Building (Three Storied) at Sri Kaleyvaani
Vidyalaya at Ruwanwella**

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.1.1.0	<u>Substructure - Work</u>				
3.1.2.0	EXCAVATION AND EARTHWORK				
3.1.2.1	Clearing site vegetation, bushes, shrubs, under growth hedges, trees and stumps	m ²	383.00		
3.1.2.2	Remove top soil to an average depth of 150mm as directed by the Engineer	m ²	383.00		
3.1.2.3	Trenches depth not exceeding 1.00 m	m ³	25.00		
3.1.2.4	Trenches depth not exceeding 1.50 m	m ³	18.00		
3.1.2.5	Filling to make up levels under floors in 150mm thick layers well rammed and consolidated with selected fill materials	m ³	37.00		
3.1.2.6	Anti termite treatment prior to the floor concreting for new construction in Bifenthrin or approved equivalent chemical in accordance with manufactured specification by an approved specialist pest control contractor. Pest control contractor shall submit a guaranty for a minimum of 10 years for new construction works from the date of application.	m ²	224.00		
3.1.3.0	MASONRY WORKS				
3.1.3.1	Random rubble stone work in cement and sand, 1:5 using 150 - 225mm broken stones in foundations	m ³	22.50		
3.1.4.0	CONCRETE WORKS				
	Foundation				
	Mass concrete, 1:3:6 (35mm aggr.)				
3.1.4.1	50mm thick screed in column & stair bases	m ²	30.00		
3.1.4.2	Strip	m ³	7.00		
	Mass concrete, 1:2 1/2 :5 (25mm aggr.)				
3.1.4.3	Beds and slabs on ground thickness ≤ 150mm	m ²	146.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
	Reinforced concrete, 1:2:4 (20mm aggr.)				
3.1.4.4	Column bases	m ³	9.50		
3.1.4.5	Columns shaft & stiffener shaft	m ³	1.00		
3.1.4.6	Stairs	m ³	0.45		
3.1.4.7	Cement concrete 1:2:4(3/4") in Plinth beams in ground floor (reinforcement a shuttering and finishes paid for separately) using mixer and vibrator.	m ³	8.50		
	Formwork				
3.1.4.8	Strip	m	190.00		
3.1.4.9	Column bases	m	86.40		
3.1.4.10	Stairs	m	5.00		
3.1.4.11	Stairs	m ²	3.25		
3.1.4.12	Sides of isolated columns, square or rectangular	m ²	9.75		
3.1.4.13	Shuttering for Plinth beam concrete and dismantling	m ²	74.00		
	Reinforcements in Insitu Concrete				
	Mild steel bar reinforcement to BS 4449 and strength (FY= 250 N/mm²) including bends, hooks, tying wire, distance blocks and ordinary spacers				
	High yield tor steel bar reinforcement to BS 4449 and strength (FY=460 N/mm²) including bends, tying wire distance blocks and ordinary spacers.				
	Mild Steel				
3.1.4.14	In columns (R6)	kg	18.00		
3.1.4.15	In stairs (R6)	kg	9.00		
3.1.4.16	Mild steel rods in Plinth beam reinforcing, cutting bent to shape, laid in position and fabricating with G.I wire as directed.- up to DPC	Kg	225.00		
	Tor Steel				
3.1.4.17	In column bases (Y10)	kg	232.00		
3.1.4.18	In stairs	kg	20.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.1.4.19	In stiffener columns	kg	3.00		
3.1.4.20	In columns (Y20)	kg	185.00		
3.1.4.21	Tor steel rods in Plinth beam reinforcing ,cutting bent to shape, laid in position and fabricating with G.I wire as directed.	Kg	440.00		
3.1.5.0	WATERPROOFING				
3.1.5.1	Damp proof course horizontal on top of rubble foundations 20mm thick screed in cement sand (1:3) with two applications of penetration asphalt laid hot/DPC tar and sand blinded.	m ²	35.00		
3.1.5.2	Damp proof membrane, 1000 gauge polythene membrane laid on top of compacted and prepared fill under floors. All joints shall be lapped at least 150mm.	m ²	163.00		
3.1.6.0	<u>Super Structure Work</u>				
	Reinforced concrete, 1:2:4 (20mm aggr.)				
	Ground Floor - First Floor				
3.1.6.1	Slab	m ³	19.00		
3.1.6.2	Isolated columns & stiffener	m ³	3.60		
3.1.6.3	Attached beams	m ³	7.00		
3.1.6.4	Lintol	m ³	0.72		
	Stairs				
3.1.6.5	Steps waist and the like	m ³	1.50		
3.1.6.6	Landings & beams	m ³	0.90		
3.1.6.7	Window sill (50mm thick)	m ³	0.26		
	First Floor - Second floor				
3.1.6.8	Slab	m ³	26.00		
3.1.6.9	Isolated columns & stiffener	m ³	3.85		
3.1.6.10	Attached beams	m ³	9.70		
3.1.6.11	Lintol	m ³	0.55		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
	Stairs				
3.1.6.12	Steps waist and the like	m ³	1.70		
3.1.6.13	Landings & beams	m ³	0.90		
3.1.6.14	Window sill (50mm thick)	m ³	0.40		
	Second Floor - Roof				
3.1.6.15	Isolated columns & stiffener	m ³	2.75		
3.1.6.16	Lintol	m ³	2.00		
3.1.6.17	Window sill (50mm thick)	m ³	0.40		
	Formwork				
	Ground Floor - First Floor				
3.1.6.18	Soffit of landings	m ²	4.00		
3.1.6.19	Soffit of stairs flights	m ²	8.50		
3.1.6.20	Sides and soffit of landing beam	m ²	2.50		
3.1.6.21	Sides of stairs flights	m	12.00		
3.1.6.22	Sides of risers	m	30.00		
3.1.6.23	Soffit of slabs	m ²	167.00		
3.1.6.24	Sides of isolated columns & stiffener, square or rectangular	m ²	51.00		
3.1.6.25	Sides and soffit of beams, attached, square or rectangular	m ²	83.00		
3.1.6.26	Sides and soffit of Lintol, attached, square or rectangular	m ²	17.00		
	First Floor - Second floor				
3.1.6.27	Soffit of slabs	m ²	167.00		
3.1.6.28	Sides of isolated columns & stiffener, square or rectangular	m ²	48.00		
3.1.6.29	Sides and soffit of beams, attached, square or rectangular	m ²	83.00		
3.1.6.30	Sides and soffit of Lintol, attached, square or rectangular	m ²	17.00		
	Stairs				
3.1.6.31	Soffit of landings	m ²	6.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.1.6.32	Soffit of stairs flights	m ²	10.00		
3.1.6.33	Sides and soffit of landing beam	m ²	2.55		
3.1.6.34	Sides of stairs flights	m	12.10		
3.1.6.35	Sides of risers	m	31.00		
	Second floor - Roof				
3.1.6.36	Sides of isolated columns & stiffener, square or rectangular	m ²	48.00		
3.1.6.37	Sides and soffit of Lintol, attached, square or rectangular	m ²	17.00		
	Reinforcements in Insitu Concrete				
	Mild steel bar reinforcement to BS 4449 and strength (FY= 250 N/mm²) including bends, hooks, tying wire, distance blocks and ordinary spacers				
	High yield tor steel bar reinforcement to BS 4449 and strength (FY=460 N/mm²) including bends, tying wire distance blocks and ordinary spacers.				
	Mild Steel				
	Ground Floor - First Floor				
3.1.6.38	In Columns and Stiffener	kg	67.00		
3.1.6.39	In Beams	kg	420.00		
3.1.6.40	In stairs	kg	46.00		
3.1.6.41	In slabs	kg	475.00		
3.1.6.42	In Lintols	kg	27.00		
	Tor Steel				
3.1.6.43	In suspended slabs	kg	945.00		
3.1.6.44	In Stiffener Columns	kg	26.00		
3.1.6.45	In Lintols	kg	58.00		
3.1.6.46	In Stair	kg	120.00		
3.1.6.47	In Beams (Y12 & Y16)	kg	525.00		
3.1.6.48	In stair case & beams	kg	25.00		
3.1.6.49	In Lintols	kg	85.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.1.6.50	In Columns (Y20)	kg	500.00		
3.1.6.51	In Beams (Y20)	kg	990.00		
	First Floor - Second floor				
3.1.6.52	In Columns and Stiffener (R6)	kg	52.00		
3.1.6.53	In Beams (R10)	kg	429.00		
3.1.6.54	In stairs	kg	20.00		
3.1.6.55	In slabs	kg	475.00		
3.1.6.56	In Lintols R6	kg	27.00		
	Tor Steel				
3.1.6.57	In suspended slabs	kg	945.00		
3.1.6.58	In Stiffener Columns	kg	16.00		
3.1.6.59	In Lintols	kg	58.00		
3.1.6.60	In Stair	kg	82.00		
3.1.6.61	In Beams (T12 & T16)	kg	560.00		
3.1.6.62	In Columns (T16)	kg	378.00		
3.1.6.63	In stair case & beams	kg	105.00		
3.1.6.64	In Lintols	kg	85.00		
3.1.6.65	In Beams (T20)	kg	815.00		
	Second floor - Roof				
3.1.6.66	In Columns and Stiffener (R6)	kg	52.00		
3.1.6.67	In Lintols R6	kg	27.00		
	Tor Steel				
3.1.6.68	In Stiffener Columns	kg	16.00		
3.1.6.69	In Lintols	kg	58.00		
3.1.6.70	In Columns (Y12)	kg	378.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.1.6.71	In Lintols (Y12)	kg	85.00		
3.1.7.0	MASONRY WORKS				
	Mortar mix for brick work shall be (1:5) for 112.5 mm and 1:8 for 225 mm in super structure Vertical solid walls				
	Ground Floor - First Floor				
3.1.7.1	225mm thick	m ²	98.00		
3.1.7.2	112.5mm thick	m ²	58.00		
3.1.7.3	Step-1200x300x150 mm brick in cement and sand 1:5 with 12 mm thick cement rendering 1:3. Top finished as per given instructions.	m	6.00		
3.1.7.4	Supplying and fixing approved quality cement grill work (300x300x75mm)	nr	3.00		
	First Floor - Second Floor				
3.1.7.5	225mm thick	m ²	59.00		
	Mortar mix for 112.5mm thick brick work shall be cement sand 1:6, vertical solid walls				
3.1.7.6	112.5mm thick	m ²	70.00		
3.1.7.7	Supplying and fixing approved quality cement grill work (300x300x75mm)	nr	3.00		
3.1.7.8	300x300x75mm cement grill fixed to dwarf wall and 16mm thick plaster band in cement and sand 1:3 on existing plaster. 225mm wide on either side and triangular shape plaster band at bottom of grill as per given detailed drawing. Painted with cement outer plaster band as per given instruction by Engineer.	nr	7.00		
	Second floor - Roof				
	Mortar mix for brick work shall be (1:5) for 112.5 mm and 1 :8 for 225 mm in super structure Vertical solid walls				
3.1.7.9	225mm thick	m ²	92.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
	Mortar mix for 115 mm thick brick work shall be cement sand 1:5, vertical solid walls				
3.1.7.10	112.5mm thick	m ²	84.00		
3.1.7.11	Supplying and fixing approved quality cement grill work (300x300x75mm)	nr	3.00		
3.1.7.12	300x300x75mm cement grill fixed to dwarf wall and 16mm thick plaster band in cement and sand 1:3 on existing plaster. 225mm wide on either side and triangular shape plaster band at bottom of grill as per given detailed drawing. Painted cement grill and outer plaster band as per given instruction by Engineer.	nr	7.00		
3.1.8.0	CARPENTRY AND JOINERY				
	Ground Floor - First Floor				
3.1.8.1	DW - 25mm thick panelled door sash with 95x70mm frame (imported hard wood) and fully glazed window sash 25mm thick with heavy quality brass furniture and fittings including painting two coats of oil paint with primer under coat and mortice union lock (imported guarantee is essential).	m ²	3.35		
	First Floor - Second Floor				
3.1.8.2	Door 32mm plywood sash single hunch ordinary finished on 95x70mm frame in imported timber kempus complete with heavy quality brass furniture and fittings rate to include two coats of enamel paint and primer under coat and mortice, union single lever door lock (Guarantee essential)	m ²	1.90		
3.1.8.3	Glazed window with 95x70mm frame and 25mm finished thick sashes in approved quality imported timber Kempus fixed complete with heavy quality bras furniture and fittings. Rate to include two coats of enamel paint and primer under coat.	m ²	2.20		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
	Second Floor - Roof				
3.1.8.4	Door 32mm plywood sash single hunch ordinary finished on 95x70mm frame in imported timber kempus complete with heavy quality brass furniture and fittings rate to include two coats of enamel paint and primer under coat and mortice, union single lever door lock (Guarantee essential)	m ²	1.90		
3.1.8.5	Glazed window with 95x70mm frame and 25mm finished thick sashes in approved quality imported timber Kempus fixed complete with heavy quality bras furniture and fittings. Rate to include two coats of enamel paint and primer under coat.	m ²	2.20		
3.1.9.0	FLOOR/WALL/CEILING FINISHES				
	Ground Floor - First Floor				
	Cement render 20mm thick in cement and sand 1:3 and finished smooth with a floating of ordinary grey cement.				
3.1.9.1	On concrete floor	m ²	152.00		
3.1.9.2	In 100X12mm skirting	m	91.00		
3.1.9.3	Plinth plaster	m ²	55.00		
3.1.9.4	Landing	m ²	4.60		
3.1.9.5	275mm wide	m	27.00		
3.1.9.6	150mm high.	m	30.00		
3.1.9.7	100X12mm raking skirting	m	18.00		
	16mm thick cement lime and sand 1:1:5 plaster finished smooth with neat lime putty (internally)				
3.1.9.8	On brick/concrete surfaces in walls width < 300mm	m	95.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.1.9.9	On brick/concrete surfaces in walls width > 300mm	m ²	185.00		
3.1.9.10	To side and soffit of beam/slabs in Ceiling width > 300mm	m ²	200.00		
	Stairs				
3.1.9.11	Walls width > 300mm	m ²	9.75		
3.1.9.12	To soffit of slab & beams	m ²	8.00		
3.1.9.13	To sloping ceiling	m ²	8.50		
3.1.9.14	Sides of waist, steps and the like width ≤ 300mm	m	12.00		
	16mm thick cement lime and sand 1:1:5 plaster finished semi-rough (Externally)				
3.1.9.15	On brick/concrete surfaces in walls width =< 300mm	m	200.00		
3.1.9.16	On brick/concrete surfaces in walls width > 300mm	m ²	85.00		
	Miscellaneous				
	Green Board				
3.1.9.17	Supply & fixing of green board 2400mmx1200mm as directed by the engineer	nr	3.00		
	Coping				
3.1.9.18	Forming coping on staircase guard wall as per drawing Cement and sand 1:3 finished smooth with cement floating and two coats of black floor paint as directed by the Engineer.	m	6.50		
3.1.9.19	Forming coping on drawft wall on cement and sand 1:3 finished smooth with cement floating and two coats of black floor paint as directed by Engineer	m	46.00		
3.1.9.20	Forming coping on drawft wall on cement and sand 1:3 finished smooth with cement floating and two coats of black floor paint as directed by Engineer	m	46.00		
	First Floor - Second Floor				
3.1.9.21	On concrete floor	m ²	150.00		
3.1.9.22	In 100X12mm skirting	m	92.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
	In concrete stairs				
3.1.9.23	Landing	m ²	4.60		
	Treads				
3.1.9.24	275mm wide	m	23.00		
	Sloping riser				
3.1.9.25	150mm high	m	23.00		
3.1.9.26	100X12mm raking skirting	m	12.10		
	16mm thick cement lime and sand 1:1:5 plaster finished smooth with neat lime putty (internally)				
3.1.9.27	On brick/concrete surfaces in walls width < 300mm	m	121.00		
3.1.9.28	On brick/concrete surfaces in walls width > 300mm	m ²	232.00		
3.1.9.29	To side and soffit of beam/slabs in Ceiling width > 300mm	m ²	200.00		
3.1.9.30	To side of column	m ²	6.85		
	Stairs				
3.1.9.31	Walls width > 300mm	m ²	9.70		
3.1.9.32	To soffit of slab & beams	m ²	8.10		
3.1.9.33	To sloping ceiling	m ²	8.20		
3.1.9.34	Sides of waist, steps and the like width < 300mm	m	12.10		
	16mm thick cement lime and sand 1:1:5 plaster finished semi-rough (Externally)				
3.1.9.35	On brick/concrete surfaces in walls width =< 300mm	m	78.00		
3.1.9.36	On brick/concrete surfaces in walls width > 300mm	m ²	120.00		
	Miscellaneous				
	Green Board				
3.1.9.37	Supply & fixing of green board 2400mmx1200mm as directed by the engineer	nr	3.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
	Coping				
3.1.9.38	Forming coping on staircase guard wall as per instruction cement and sand 1:3 finished smooth with cement floating and two coats of black floor paint as directed by the Engineer.	m	6.50		
3.1.9.39	Forming coping on drawft wall on cement and sand 1:3 finished smooth with cement floating and two coats of black floor paint as directed by engineer	m	70.00		
	Second Floor - Roof				
	Cement render 20mm thick in cement and sand 1:3 and finished smooth with a floating of ordinary grey cement.				
3.1.9.40	On concrete floor	m ²	155.00		
3.1.9.41	In 100X12mm skirting	m	76.00		
	16mm thick cement lime and sand 1:1:5 plaster finished smooth with neat lime putty (internally)				
3.1.9.42	On brick/concrete surfaces in walls width < 300mm	m	108.00		
3.1.9.43	On brick/concrete surfaces in walls width > 300mm	m ²	207.00		
	16mm thick cement lime and sand 1:1:5 plaster finished semi-rough (Externally)				
3.1.9.44	On brick/concrete surfaces in walls width =< 300mm	m	96.00		
3.1.9.45	On brick/concrete surfaces in walls width > 300mm	m ²	145.00		
	Miscellaneous				
	Green Board				
3.1.9.46	Supply & fixing of green board 2400mmx1200mm as directed by the engineer	nr	3.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.1.9.47	Forming coping on drawft wall as per instruction.Cement and sand 1:3 finished smooth with cement floating and two coats of black floor paint as directed by the Engineer.	m	70.00		
3.1.9.48	Forming coping on staircase guard wall as per instruction cement and sand 1:3 finished smooth with cement floating and two coats of black floor paint as directed by the Engineer	m	6.50		
3.1.10.0	PAINTING				
	Ground Floor - First Floor				
	Prepare and apply two coats of white or colour wash after preparing surface (internally)				
3.1.10.1	On walls, columns, stairs and the like	m ²	227.00		
3.1.10.2	On ceiling - sides and soffit of beams/slabs	m ²	200.00		
	Prepare and apply two coats of weathershield emulsion paint with primer filler (externally)				
3.1.10.3	On walls	m ²	115.00		
3.1.10.4	Apply two coats of floor paint to skirting and plinth	m ²	32.90		
	First Floor - Second Floor				
	Prepare and apply two coats of white or colour wash after preparing surface (internally)				
3.1.10.5	On walls, columns, stairs and the like	m ²	258.00		
3.1.10.6	On ceiling - sides and soffit of beams/slabs	m ²	200.00		
	Prepare and apply two coats of weathershield emulsion paint with primer filler (externally)				
3.1.10.7	On walls	m ²	120.00		
3.1.10.8	Applying two coats of floor paint to skirting	m ²	10.41		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
	Second Floor - Roof				
	Prepare and apply one coat of primer and coats of emulsion paint (internally)				
3.1.10.9	On walls, columns	m ²	207.00		
	Prepare and apply two coats of weathershield emulsion paint with primer filler (externally)				
3.1.10.10	On walls	m ²	145.00		
3.1.10.11	Applying two coats of white washing under side of the roofing sheets	m ²	265.00		
3.1.10.12	Applying two coats of floor paint to skirting	m ²	7.60		
3.1.11.0	ROOF COVERING/ROOF PLUMBING				
3.1.11.1	Asbestos Large corrugated sheet laid on steel purling including fixing 6mm dia. bolt and nuts with limpet and G.I. diamond washer rate include for necessary angle cutting to fits the asbestos sheet "U" bolt and nuts to be fits to the top bottom and the middle purlin of each sheet including 2 coats of white washing.	m ²	265.00		
3.1.11.2	Asbestos close fittings ridging supplied and fixed including hook bolts and nuts.	m	25.00		
3.1.11.3	Valance board - Supply and fixing Zn/Al Colour bonded 0.47 mm thick 470 mm girth Valance board with angle iron frame	m	59.00		
3.1.11.4	Barge flashing - Supply and fixing Zn/Al Colour bonded 0.47 mm thick 470 mm girth Barge flashing with angle iron frame	m	24.00		
3.1.11.5	Eaves gutter- Supply and fixing Zn/Al Colour bonded 0.47 mm thick 470 mm girth Gutter consist of internal bracket , reverts etc.	m	50.00		
3.1.11.6	Down pipe- Supply and fixing Zn/Al Colour bonded 0.47 mm thick 470 mm girth down pipe consist of external bracket , reverts etc.	m	75.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.1.12.0	STRUCTURAL METAL WORK				
3.1.12.1	Making and fixing steel roof truss 25' span consisting of 2/65x65x6 mm top and bottom chord and 1/50x50x6 mm intermediate etc. rate include for the application of 2 coats of red anticorrosive paint and two coats of black enamel paint.	nr	5.00		
3.1.12.2	Making and fixing steel sleeper rafter consist of 50x50x6 mm angle iron 18' long and as per detailed drawing including necessary concrete pad as directed. Concrete pad paid separately steel work to be treated with 2 coats of red anticorrosive paint and two coats of black enamel paint including rag bolts and brackets	m	33.00		
3.1.12.3	65x65x6 mm angle iron purlin laid on steel roof trusses fixing with 6 mm M.S. bolts and nuts including 2 coats of red anticorrosive paint and two coats of black enamel paint	m	232.00		
3.1.13.0	METAL WORK				
	Doors/ Grills				
	Ground Floor - First Floor				
3.1.13.1	<u>Security iron grill with door - 23 x 23x 5mm</u> angle iron sash frame upper section 5mm dia. M.s. rods welded at 70° to horizontal at 75 mm crs. diagonally. Bottom section welded to GI sheets (bwg 20)with 23x23x5mm angle iron bracers and fixed complete with 40 x 40 x 5 mm angle iron door frame with fixed to walls with rowl plugs and screws. Rate shall include for 3 no iron hinges locking arrangements and two coats of red colour anticorrosive paint and two coats of black colour enamel paint.	m ²	3.15		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.1.13.2	<u>Security iron grill for buildings</u> 23x5mm flat iron outer frame and 23x23x5mm angle iron inside as per detail drawing 5mm dia. M.s. rods welded at 70° to horizontal at 75 mm crs. Diagonally. Rate include for applying 2 coats of red colour Anticorrosive paint and two coats of black colour Enamel paint, weld mesh frame to be fixed to wall	m ²	81.75		
3.1.13.3	Open type steel shutter door for stair case area. Rate shall include 16x6mm channel iron, 12x5mm flat iron 23x23x5mm angle iron gate raisers etc and necessary locking arrangement and two coats of red anticorrosive paint and two coats of black enamel paint as per instruction by engineer	m ²	8.50		
3.1.13.4	<u>Security iron grill for timber window</u> Making and fixing iron grill to existing window and out of 12x5mm flat iron frame and 5mm mild steel rods welded diagonally 75mm crs 70° horizontal . Rate shall include for two coats of red colour anticorrosive paint and two coats of black colour enamel paint weldmesh frame to be fixed to window frame	m ²	1.00		
	First Floor - Second Floor				
3.1.13.5	<u>Security iron grill with door - 23 x 23x 5mm</u> angle iron sash frame upper section 5mm dia. M.s. rods welded at 70° to horizontal at 75 mm crs. diagonally. Bottom section welded to GI sheets (bwg 20)with 23x23x5mm angle iron bracers and fixed complete with 40 x 40 x 5 mm angle iron door frame with fixed to walls with rowl plugs and screws. Rate shall include for 3 no iron hinges locking arrangements and two coats of red colour anticorrosive paint and two coats of black colour enamel paint.	m ²	3.15		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.1.13.6	<u>Security iron grill for buildings</u> 23x5mm flat iron outer frame and 23x23x5mm angle iron inside as per detail drawing 5mm dia. M.s. rods welded at 70° to horizontal at 75 mm crs. Diagonally. Rate include for applying 2 coats of red colour Anticorrosive paint and two coats of black colour Enamel paint, weld mesh frame to be fixed to wall	m ²	81.75		
3.1.13.7	<u>Security iron grill for timber window</u> Making and fixing iron grill to existing window and out of 12x5mm flat iron frame and 5mm mild steel rods welded diagonally 75mm crs 70° horizontal . Rate shall include for two coats of red colour anticorrosive paint and two coats of black colour enamel paint weldmesh frame to be fixed to window frame	m ²	1.45		
3.1.13.8	Double hung steel Gate sash 38x38x5mm angle iron outer frame 5mm dia M.S rods welded at 70° to horizontal at 75mm crs. Diagonally. Rate to include two coats of red anticorrosive paint and two coats of black enamel paint and 4 Nos pintols and locking arrangements.	m ²	2.30		
	Second Floor - Roof				
3.1.13.9	<u>Security iron grill with door</u> - 23 x 23x 5mm angle iron sash frame upper section 5mm dia. M.s. rods welded at 70° to horizontal at 75 mm crs. diagonally. Bottom section welded to GI sheets (bwg 20)with 23x23x5mm angle iron bracers and fixed complete with 40 x 40 x 5 mm angle iron door frame with fixed to walls with rowl plugs and screws. Rate shall include for 3 no iron hinges locking arrangements and two coats of red colour anticorrosive paint and two coats of black colour enamel paint.	m ²	3.15		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.1.13.10	<u>Security iron grill for buildings</u> 23x5mm flat iron outer frame and 23x23x5mm angle iron inside as per detail drawing 5mm dia. M.s. rods welded at 70° to horizontal at 75mm crs. Diagonally. Rate include for applying 2 coats of red colour Anticorrosive paint and two coats of black colour Enamel paint, weld mesh frame to be fixed to wall	m ²	81.75		
3.1.13.11	<u>Security iron grill for timber window</u> Making and fixing iron grill to existing window and out of 12x5mm flat iron frame and 5mm mild steel rods welded diagonally 75mm crs 70° horizontal . Rate shall include for two coats of red colour anticorrosive paint and two coats of black colour enamel paint weldmesh frame to be fixed to window frame.	m ²	1.45		
3.1.13.12	Double hung steel Gate sash 38x38x5mm angle iron outer frame 5mm dia M.S rods welded at 70° to horizontal at 75mm crs. Diagonally. Rate to include two coats of red anticorrosive paint and two coats of black enamel paint and 4 Nos pintols and locking arrangements.	m ²	2.30		
3.1.14.0	ELECTRICAL INSTALLATIONS				
	Ground Floor - First Floor				
3.1.14.1	One gang one way plate switch	nr	2.00		
3.1.14.2	Three gang one way plate switch	nr	3.00		
3.1.14.3	Four gang one way plate switch	nr	2.00		
3.1.14.4	13 amp switch socket outlet wired using 2 x 1.5mm ² + 2.5mm ² earth insulated wire in fully concealed / surface pvc conduit	nr	4.00		
3.1.14.5	Fan regulator wired with a switch using insulated wire and copper earth wire in fully concealed / surface pvc conduit	nr	3.00		
3.1.14.6	Ceiling fan	nr	3.00		
3.1.14.7	Fluorescent lamp double 4' 0"	nr	6.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.1.14.8	Pendant Lamp with CFL (20W) bulb with one year guarantee (Clipsal, Osram, Philips or approved equivalent)	nr	4.00		
3.1.14.9	6 - Way SP & N distribution unit with 30 A MCB SP & N 25 A (30 mA) SP & N RCCB and 6 to 40 A circuit breakers with plastic frame and door. Earth and Neutral bar din rail type.	nr	1.00		
3.1.14.10	Ceramic D brackets 3 "	nr	1.00		
3.1.14.11	7/044 main wire	m	15.00		
	First Floor - Second Floor				
3.1.14.12	One gang one way plate switch	nr	2.00		
3.1.14.13	Three gang one way plate switch	nr	3.00		
3.1.14.14	Four gang one way plate switch	nr	2.00		
3.1.14.15	13 amp switch socket outlet wired using 2 x 1.5mm ² + 2.5mm ² earth insulated wire in fully concealed / surface pvc conduit	nr	4.00		
3.1.14.16	Fan regulator wired with a switch using insulated wire and copper earth wire in fully concealed / surface pvc conduit	nr	3.00		
3.1.14.17	Ceiling fan	nr	3.00		
3.1.14.18	Fluorescent lamp double 4' 0"	nr	6.00		
3.1.14.19	Pendant Lamp with CFL (20W) bulb with one year guarantee (Clipsal, Osram, Philips or approved equivalent)	nr	4.00		
3.1.14.20	6 - Way SP & N distribution unit with 30 A MCB SP & N 25 A (30 mA) SP & N RCCB and 6 to 40 A circuit breakers with plastic frame and door. Earth and Neutral bar din rail type.	nr	1.00		
3.1.14.21	Ceramic D brackets 3 "	nr	1.00		
3.1.14.22	7/044 main wire	m	5.00		
	Second Floor - Roof				
3.1.14.23	One gang one way plate switch	nr	2.00		
3.1.14.24	Three gang one way plate switch	nr	3.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.1.14.25	Four gang one way plate switch	nr	2.00		
3.1.14.26	13 amp switch socket outlet wired using 2 x 1.5mm ² + 2.5mm ² earth insulated wire in fully concealed / surface pvc conduit	nr	4.00		
3.1.14.27	Fan regulator wired with a switch using insulated wire and copper earth wire in fully concealed / surface pvc conduit	nr	3.00		
3.1.14.28	Ceiling fan	nr	3.00		
3.1.14.29	Fluorescent lamp double 4' 0"	nr	6.00		
3.1.14.30	Pendant Lamp with CFL (20W) bulb with one year guarantee (Clipsal, Osram, Philips or approved equivalent)	nr	4.00		
3.1.14.31	6 - Way SP & N distribution unit with 30 A MCB SP & N 25 A (30 mA) SP & N RCCB and 6 to 40 A circuit breakers with plastic frame and door. Earth and Neutral bar din rail type.	nr	1.00		
3.1.14.32	Ceramic D brackets 3 "	nr	1.00		
3.1.14.33	7/044 main wire	m	10.00		
	<u>Miscellaneous</u>				
	Ground Floor - First Floor				
3.1.14.34	1:2:4 (20mm aggr.) concrete in sunshade 900mm projected, 100mm taper to 85mm. R10 @150mm c/c and R6 @ 150mm c/c with all necessary formwork. Rate shall include for 12.5mm thick 1:3 cement sand rendering, applying two coats of hot tar blinded with river sand and 1:3 cement & sand soffit plaster finished smooth lime putty with drip or trouting at out edge.	m	43.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
	First Floor - Second Floor				
3.1.14.35	1:2:4 (20mm aggr.) concrete in sunshade 900mm projected, 100mm taper to 85mm. R10 @150mm c/c and R6 @ 150mm c/c with all necessary formwork. Rate shall include for 12.5mm thick 1:3 cement sand rendering, applying two coats of hot tar blinded with river sand and 1:3 cement & sand soffit plaster finished smooth lime putty with drip or trouting at out edge.	m	43.00		
3.1.15.0	<u>General Work</u>				
	Random rubble retaining wall				
3.1.15.1	Excavation in trenches for walls/ column pits in soft disintegrated rock (not requiring blasting) up to a depth of 5' 0" and depositing excavated material to a distance not excavated material to a distance not exceeding 50 m	m ³	14.00		
3.1.15.2	1:3:6(50mm) thick screed in retaining wall	m ³	2.00		
3.1.15.3	Random rubble stone work in cement and sand, 1:5 using 150 - 225mm broken stones in steps	m ³	30.00		
3.1.15.4	Filling under floors with gravel or other approved quality of filling, spread, watered and well rammed in 3" layers (Material not available at site)	m ³	10.00		
3.1.15.5	Surface preparing & protecting layers as specified by manufactured	m ²	25.00		
3.1.15.6	Water proofing with approved water proofing chemical. including cleaning and protect the water proofing area.	m ²	25.00		
	RRM Staircase with Steel hand rail				
3.1.15.7	Excavation in trenches for walls/ column pits in ordinary soil from 0'0" to 5'0" deep and depositing excavated material not exceeding 50m	m ³	1.00		
3.1.15.8	Filling under floors with gravel or other approved quality of filling, spread, watered and well rammed in 3" layers (Material not available at site)	m ³	0.50		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.1.15.9	Random rubble stone work in cement and sand, 1:5 using 150 - 225mm broken stones in steps	m ³	8.00		
3.1.15.10	16mm thick cement lime and sand 1:1:5 plaster finished semi-rough on R.R,Masonry work.	m ²	25.00		
3.1.15.11	Steel Hand Rail	m	14.00		
3.1.16.0	DRAINAGE				
3.1.16.1	Surface water drain 300x225 (approx) 1:2,1/2:5(25) concrete 75mm thick 1:3 cement rendering laid to falls including including outlet drain	m	63.00		
3.1.16.2	900mm wide ramp same materials as above and RCC slabs at entrance. Rate to include for laying 1000G D.P.M. and cement rendering 12mm thick 1:3 top finish with neat cement floating on top and expansion joists filled with cement and and sand.	m ²	56.00		
3.1.16.3	Surface water drain 300x225 (approx) 1:2,1/2:5(25) concrete 75mm thick 1:3 cement rendering laid to falls including including outlet drain	m	63.00		
3.1.16.4	900mm wide ramp same materials as above and RCC slabs at entrance. Rate to include for laying 1000G D.P.M. and cement rendering 12mm thick 1:3 top finish with neat cement floating on top and expansion joists filled with cement and and sand.	m ²	56.00		
	Total Amount carried to Summary - 1				

Bills of Quantities for Construction of Cafeteria at Shri Kaleiwani Vidyalaya, Ruwanwella

Item No.	Description of Work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.2.1.0	EXCAVATION AND EARTHWORK				
3.2.1.1	Allow for Clearing site including removal of roots and growth of every description, cutting top soil & existing 3nos of twin toilets blocks, if any all up to a depth of 0' 6" & extended up to 10' beyond the outer walls of the proposed building.including building as per directed by engineer.	Item	1.00		
3.2.1.2	Clearing & tiding up end the of the site construction.	Item	1.00		
3.2.1.3	Rock blasting	m ²	5.00		
3.2.1.4	Anti - termite treatment on excavated foundation and compacted soil under floors.Recommended to use Chemical s available in the market with the directions of the manufacturer .Approval of Engineer should be obtained prior to use.	m ²	60.00		
3.2.1.5	Excavation in trenches for walls/ column pits in ordinary soil from 0'0" to 5'0" deep and depositing excavated material not exceeding 50m	m ³	7.46		
3.2.1.6	Filling under floors with gravel or other approved quality of filling, spread, watered and well rammed in 3" layers (Material not available at site)	m ³	1.06		
3.2.2.0	CONCRETE WORKS				
3.2.2.1	Cement concrete 1:3:6 with 1 1/2" metal up to one cube	m ³	0.60		
3.2.2.2	Cement concrete 1:2:4 (3/4") plinth beam, work top & bench.	m ³	1.70		
3.2.2.3	Lintol, cement concrete 1:2:4 (3/4") 9"x6"	m	26.00		

Item No.	Description of Work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.2.2.4	Floors/ramp, cement concrete 1:2 1/2 : 5 (1" Metal) 3" thick, with expansion joints filled with cement and sand. Rate to include for laying 1000G damp proof membrane before concreting with necessary laps.	m ²	20.00		
3.2.2.5	Tor steel rods in reinforcing lintels, beams columns and slabs, cutting bent to shape, laid in position and fabricating with G.I wire as directed.	kg	250.00		
3.2.2.6	Mild steel rods in reinforcing lintels, beams, columns and slabs, cutting bent to shape, laid in position and fabricating with G.I wire as directed.	kg	50.00		
3.2.3.0	MASONRY WORKS				
3.2.3.1	Brick - work in cement sand 1:8 in superstructure in ground floor	m ³	9.50		
3.2.3.2	Random Rubble Masonry in cement mortar 1:6 above one cube.	m ³	7.50		
3.2.4.0	FLOOR/WALL/CEILING FINISHES				
3.2.4.1	Tile glazed, with all specials, supplied and fixed to walls including raking plaster and bedding in cement mortar 1:2 rate to include filling joints with polymer grout.[work top & counter]	m ²	4.00		
3.2.4.2	Cement, lime and sand plastering 1:1:5(5/8") thick finish semi rough	m ²	42.00		
3.2.4.3	Cement, lime and sand plastering 1:1:5(5/8") thick smooth with lime putty	m ²	42.00		
3.2.4.4	Rendering cement 1/2" 1:3 to 1 Sqr with neat cement floating on top	m ²	28.00		
3.2.5.0	WATERPROOFING				
3.2.5.0	D.P.C. 3/4" thick in cement sand 1:3 finished smooth with two coats of hot tar blinded with sand	m ²	8.96		
3.2.6.0	ROOF COVERING				
3.2.6.1	Timber Imported - Kempus fixed or renewed in roof and other carpentry work:	m ³	0.65		

Item No.	Description of Work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.2.6.2	Corrugated Asbestos sheets (sound) fixed to roof or wall on existing frame work with necessary coach screw and limpet washers, or hook bolts. (including Two coats of emulsion paint to underside)	m ²	55.00		
3.2.6.3	Riding, Calicut pattern, bedded in cement and lime mortar 1:1:4 mortar joints, coloured to, match tiles.	m	6.45		
3.2.6.4	Boards, Valance, Boards, barge 9" x (225 mm), 7/8" (22mm) to 1" (25mm) thick in ginisapu timber fixed complete with necessary brass screws new or renewed to end supports. Rates shall include for applying necessary painting.	m	22.00		
3.2.6.5	Ceiling, asbestos, flat, fixed with nails to imported timber - Kempus frame work consisting with to 4" x 2" (100 x 50 mm) main joists at 4feet (1200 mm) c/c and 2"x 2 " (50 x 50 mm) secondary joists at 2 feet(600 mm) c/c.with 150 x 50 x 25 mm cleats, including 1/1/2" x 1/2" cover filets and 1/1/2" x 1 1/2" cove mouldings screw to ceiling by using 1 1/4" brass screws. Rate shall include for applied two coats of wood preservative to frame work and two coats of approved colour emulsion paint with piller to sheets, and two coats of enamel paint for beading and mouldings.	m ²	28.00		
3.2.6.6	Eaves ceiling asbestos fixed flat or slope with timber frame work of 45x45 mm bearers and joists at maximum of 600mm c/c including 40x12 mm cover fillets (beading) and 40x40 mm coves moulding of approved timber. Primer undercoat and two coats of emulsion paint to asbestos sheets, two coats of enamel paint for beading and moulding and two coats of wood preservative for all timber members- (approved imported timber)	m ²	15.00		

Item No.	Description of Work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.2.7.0	METAL WORK				
3.2.7.1	Supplying & Fixing Aluminium casement window , section 60mm type without louver panel . consist of Bronze/Natural/Powder coated Completed section, Stainless steel bar hinges good quality fistners,5mm thick glass pannel,casement lock,S.T.Screws,pop revert, rubber beading,wether strip,silican seal, wall plug,S.S.T.screws etc..... All Aluminium Sections should be in accordance with the the specification given in preamble for Aluminium work.	m ²	4.60		
3.2.7.2	Supplying & Fixing of Aluminium fully glazed (full glass) Door with louver panel on top .section 100mm, consist of Bronze/Natural/Powder Coated. All aluminium sections should be in accordance with the specifications given in preamble for Aluminium work. Rate shall include for glazing beading in sash ,rubber gasket , lock, S.S - Door handle and 100 x 75 mm hinges, pop revert, wool felt,treded bar with nut,5mm thick glass,silican seal etc...	m ²	2.40		
3.2.7.3	Supplying & Fixing of Aluminium door frame plywood shas Door . section 76mm, consist of Bronze/ Natural/ Powder Coated. All aluminium sections should be in accordance with the specifications given in preamble for Aluminium work. Rate shall includ for glazing beading in sash ,rubber gasket , lock, S.S - Door handle and 100 x 75 mm hinges,pop revert, etc...	m ²	1.96		

Item No.	Description of Work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.2.7.4	Supplying & Fixing of Aluminium glazed Partition , 76 mm Section consist of Bronze/Natural/Powder Coated. All Aluminium sections should be in accordance with the specification given in preamble for Alluminium work. Top & Bottom partition to fix with 3mm white P.V.C board both side (bottom) & 5mm thick plain float glass to be provided in balance area of the partition. Doors to be measured as a separate item.Rate shall include for pop revert,rubber beading,G.I channal,wall plug,S.T.screws,silicasl seal etc.....	m ²	9.76		
3.2.8.0	PLUMBING/SANITARY INSTALLATIONS				
3.2.8.1	Cock (bib tap) fit 1/2" chromium plate, supplied and fixed	nr	1.00		
3.2.8.2	Pipes P.V.C. 1/2" - 20mm supplied and fixed with all specials. Type 1000	m	10.00		
3.2.8.3	18"x15" Stainless Steel Sink Supplying & Fixed with tilling woke top	nr	1.00		
3.2.8.4	Pipes P.V.C. 50mm supplied and fixed with all specials. Type 600	m	5.00		
3.2.8.5	Stop cocks, approved quality PVC 1/2" supplied and fixed	nr	2.00		
3.2.8.6	Chromium Type Angle Valve Supplying & Fixed	nr	1.00		
3.2.8.7	PVC Flexible Hose Supplying & Fixed (2'-0")	nr	1.00		
3.2.8.8	Gully, approved quality PVC 4" supplied & Fixed	nr	1.00		
3.2.9.0	PAINTING				
3.2.9.1	Prepare and apply one coats of approved wall filler and two coats of emulsion paints to new wall.	m ²	45.00		
3.2.9.2	Painting walls with approved quality weather shield (Emulsion) paint 2 coat including preparing surface of old work	m ²	45.00		
3.2.10.0	ELECTRICAL INSTALLATIONS				
3.2.10.1	18 W surface type LED light fitting.(two year warranty). As per the given instruction.	nr	10.00		

Item No.	Description of Work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.2.10.2	15 amp switch socket outlet wired using insulated wire (7/0.53) and copper earth wire (7/0.67) in fully concealed / surface pvc conduit	nr	1.00		
3.2.10.3	13 amp switch socket outlet wired using 2 x 1.5mm ² + 2.5mm ² earth insulated wire in fully concealed / surface pvc conduit	nr	3.00		
	Point wired through a 5 Amp plate switches using PVC insulated copper wire in fully concealed/ surface PVC conduits with plastic switch box and ceiling box etc.				
3.2.10.4	One gang one way plate switch	nr	2.00		
3.2.10.5	Three gang one way plate switch	nr	1.00		
3.2.10.6	Five gang one way plate switch	nr	1.00		
3.2.10.7	4 - Way SP & N distribution unit with 40 A MCB SP & N 40 A (30 mA) SP & N RCCB and 6 to 40 A circuit breakers with plastic frame and door. Earth and Neutral bar din rail type.	nr	1.00		
	Supply and installation of the following				
3.2.10.8	Ceiling fan	nr	3.00		
3.2.10.9	Fan regulator wired with a switch using insulated wire and copper earth wire in fully concealed / surface pvc conduit	nr	3.00		
3.2.10.10	Earth electrode , 2 mm thick 50 mm dia GI pipe of 1500 mm in length with earth clip. Rate to includes fixing charges	nr	1.00		
3.2.10.11	Angle iron 65 x 65 x 5 mm 1500 mm in length fix to wall or roof with using anchor bolts or GI bolts	nr	1.00		
	Total Amount carried to Summary - 1				

Bills of Quantities for Construction of Toilet Block at Shri Kaleivaani Vidyalaya, Ruwanwella

Item No	Description of Work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.3.1.0	EXCAVATION AND EARTHWORK				
3.3.1.1	Allow for Clearing site including removal of roots and growth of every description, cutting top soil & existing foundation, if any all up to a depth of 0' 6" & extended up to 10' beyond the outer walls of the proposed building.including 1no of decayed toilet building as per directed by engineer.	Item	1.00		
3.3.1.2	Clearing & tiding up end of the site construction.	Item	1.00		
3.3.1.3	Excavation in trenches for walls/ column pits in ordinary soil from 0'0" to 5'0" deep and depositing excavated material not exceeding 50m	m ³	4.37		
3.3.1.4	Filling under floors with gravel or other approved quality of filling, spread, watered and well rammed in 3" layers (Material not available at site)	m ³	1.30		
3.3.2.0	CONCRETE WORKS				
3.3.2.1	Cement concrete 1:3:6 with 1 1/2" metal up to one cube	m ³	0.39		
3.3.2.2	Cement concrete 1:2:4 (3/4")	m ³	0.78		
3.3.2.3	Lintel, cement concrete 1:2:4 (3/4") 4 1/2" x 6"	m	14.57		
3.3.2.4	Lintol, cement concrete 1:2:4 (3/4") 9"x6"	m	12.40		
3.3.2.5	Floors/ramp, cement concrete 1:2 1/2 : 5 (1" Metal) 3" thick, with expansion joints filled with cement and sand. Rate to include for laying 1000G damp proof membrane before concreting with necessary laps.	m ²	9.49		

Item No	Description of Work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.3.2.6	Tor steel rods in reinforcing lintels, beams columns and slabs, cutting bent to shape, laid in position and fabricating with G.I wire as directed.	kg	86.00		
3.3.2.7	Mild steel rods in reinforcing lintels, beams, columns and slabs, cutting bent to shape, laid in position and fabricating with G.I wire as directed.	kg	10.66		
3.3.2.8	1'-0" X 1'-0" Cement grill supply and fixing	m ²	2.00		
3.3.3.0	DRAINAGE				
3.3.3.1	Manhole 2'-0 x 2'-0 and upto 2'0" deep 9" thick brick in cement 1:3 walls and cement rendered 1/2" (1:2) with 6" cement concrete foundation 1:3:6 (2" metal) including forming channels, but without cover all as per detail drawings	nr	2.00		
3.3.3.2	Manhole cover, reinforced concrete 3" thick 2' 0" x 2' 0" approx. Supplied and fixed reinforced with 1/4" dia m.s rods at 3 1/2 Crs. Bothways. - all as per detail drawings.	nr	2.00		
3.3.4.0	MASONRY WORKS				
3.3.4.1	Brick - work in cement sand 1:8 in superstructure in ground floor	m ³	6.53		
3.3.4.2	Random Rubble Masonry in cement mortar 1:6 above one cube.	m ³	3.98		
3.3.4.3	Brick work 4 1/2" thick in cement motor 1:5 above 1 square.	m ²	31.02		
3.3.5.0	FLOOR/WALL/CEILING FINISHES				
3.3.5.1	Non skid pattern, homogenous floor tiles, supply and laid with all specials, including bedding in cement and sand mortar 1:3 and joints filled with polymer grout.	m ²	10.00		

Item No	Description of Work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.3.5.2	Tile glazed, with all specials, supplied and fixed to walls including raking plaster and bedding in cement mortar 1:2 rate to include filling joints with polymer grout.	m ²	24.00		
3.3.6.0	ROOF COVERING				
3.3.6.1	Timber Imported - Kempus fixed or renewed in roof and other carpentry work:	m ³	0.42		
3.3.6.2	Corrugated Asbestos sheets fixed to roof or wall on existing frame work with necessary coach screw and limpet washers, or hook bolts. (including Two coats of emulsion paint to underside)	m ²	30.50		
3.3.6.3	Riding, Calicut pattern, bedded in cement and lime mortar 1:1:4 mortar joints, coloured to, match tiles.	m	6.45		
3.3.6.4	Boards, Valance, Boards, barge 9" x (225 mm), 7/8" (22mm) to 1" (25mm) thick in ginisapu timber fixed complete with necessary brass screws new or renewed to end supports. Rates shall include for applying necessary painting.	m	22.00		
3.3.7.0	METAL WORK				
3.3.7.1	Supplying and fixing 2"x1" Aluminum box bar frame with 3mm cladding sheet sash and aluminum box bar door frame with locking arrangement, handle and hinges.	m ²	5.79		
3.3.7.2	Aluminium louvers fanlight as per the detail drawing.	m ²	1.04		
3.3.8.0	FLOOR/WALL/CEILING FINISHES				
3.3.8.1	Cement, lime and sand plastering 1:1:5(5/8") thick finish semi rough	m ²	114.03		
3.3.8.2	Rendering cement 1/2" 1:3 to 1 Sqr with neat cement floating on top	m ²	2.00		

Item No	Description of Work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
3.3.9.0	WATERPROOFING				
3.3.9.1	D.P.C. 3/4" thick in cement sand 1:3 finished smooth with two coats of hot tar blinded with sand	m ²	8.00		
3.3.10.0	PLUMBING/SANITARY INSTALLATIONS				
3.3.10.1	Closet, squatting, type, (approved quality) with trap supplied & fixed.	nr	3.00		
3.3.10.2	Closet, pedestal type, (approved quality) with low level glazed earthenware flushing cistern, flush pipe double plastic seat cover, trap etc. supplied and fixed complete.	nr	1.00		
3.3.10.3	Cock (bib tap) fit 1/2" chromium plate, supplied and fixed	nr	4.00		
3.3.10.4	Drains P.V.C. 4" dia type 600 laid on cement concrete 6" thick upto 2'0" depth of invert including excavation and cement concrete haunching 1:3:6 (1")	m	10.80		
3.3.10.5	Pipes P.V.C. 1/2" - 20mm supplied and fixed with all specials. Type 1000	m	8.60		
3.3.10.6	PVC Bidet Shower Supplying & Fixed	nr	1.00		
3.3.10.7	18"x15" Stainless Steel Sink Supplying & Fixed with tilling woke top	nr	2.00		
3.3.10.8	Pipes P.V.C. 50mm supplied and fixed with all specials. Type 600	m	5.00		
3.3.10.9	Stop cocks, approved quality PVC 1/2" supplied and fixed	nr	1.00		
3.3.10.10	Chromium Type Angle Valve Supplying & Fixed	nr	1.00		

Item No	Description of Work	Unit	Qty	Rate		Amount	
				Rs.	Cts.	Rs.	Cts.
3.3.10.11	PVC Flexible Hose Supplying & Fixed (2'-0")	nr	1.00				
3.3.10.12	Gully, approved quality PVC 4" supplied & Fixed	nr	4.00				
3.3.10.13	Soakage pit 4'-0" dia. (Hard soil) as per detail drawing no:	nr	1.00				
3.3.11.0	PAINTING						
3.3.11.1	Prepare and apply one coats of approved wall filler and two coats of emulsion paints to new wall.	m ²	120.00				
	Total Amount carried to Summary - 1						

**Bills of Quantities to Supply & Erection of Main Gate Including Name Arch at Shri Kaleivaani
Vidyalaya, Ruwanwella**

Item No	Description of work	Unit	Qty	Rate Rs. cts.	Amount Rs. cts.
	Necessary sketched for the gate & arch to be submitted for engineers approval prior to stat work				
3.4.1.0	DEMOLITIONS				
3.4.1.1	Cement concrete demolished, and debris cleared away. (1'x1' gate column)	Item	1.00		
3.4.2.0	EXCAVATION AND EARTHWORK				
3.4.2.1	Excavation in trenches for walls/ column pits in hard rock requiring blasting up to a depth of 5' 0" and depositing excavated material to a distance not exceeding 50 m and part return fill.	m ³	5.78		
3.4.3.0	CONCRETE WORKS				
3.4.3.1	Cement concrete 1:3:6 with 1 1/2" metal up to one cube (shuttering paid for separately)	m ³	0.14		
3.4.3.2	Cement concrete 1:2:4 (3/4") up to 1 cube (shuttering paid for separately)	m ³	0.40		
3.4.3.3	Cement concrete 1:2:4 (3/4") in column shafts (reinforcement & shuttering and finishes paid for separately) in ground floor using mixer and vibrator.	m ³	0.86		
3.4.3.4	Cement concrete 1:2:4(3/4") in semi circular arch in first floor (reinforcement a shuttering and finishes paid for separately) using mixer and vibrator.	m ³	0.50		
3.4.3.5	Tor steel rods in reinforcing foundation, cutting bent to shape, laid in position and fabricating with G.I wire as directed.	Kg	60.00		
3.4.3.6	Tor steel rods in reinforcing lintels, beams columns and slabs, cutting bent to shape, laid in position and fabricating with G.I wire as directed.	Kg	20.00		

Item No	Description of work	Unit	Qty	Rate Rs. cts.	Amount Rs. cts.
3.4.3.7	Forming coping on gate column as per the drawing cement and sand 1:3 finished smooth with cement floating and two coat of paint as directed by engineer.	nr	2.00		
3.4.4.0	FLOOR/WALL/CEILING FINISHES				
3.4.4.1	Cement, lime and sand plastering 1:1:5(5/8") thick finish semi rough	m ²	14.00		
3.4.5.0	METAL WORK				
3.4.5.1	Supplying & fixing stainless steel name board as directed by Engineer.	Item	1.00		
3.4.5.2	Gate fabricating and fixing sliding gate sash {3.5mx2.0 m} as per the drawing 50 mm x 25 mm heavy duty G.I. box bar outer frame and same size vertical box bar at 75 mm C/C including locking arrangement with 75 mm Brass pad lock . Rate to include two coat of primer finishing coat enamel paint as per the detail drawing. (Design given by the engineer)	nr	1.00		
3.4.6.0	PAINTING				
3.4.6.1	Painting columns with approved quality weather shield (Emulsion) paint 2 coat including preparing of surface	m ²	6.00		
	Total Amount carried to Summary - 1				

Bills of Quantities to Construction of Chain Link Fence at Shri Kaleivaani Vidyalaya, Ruwanwella					
Item No	Description of work	Unit	Qty	Rate Rs. cts.	Amount Rs. cts.
3.5.1.0	DEMOLITIONS				
3.5.1.1	Removing existing decayed chain link fence material stacking serviceable materials & debris cleared away as directed by engineer.	Item	1.00		
3.5.2.0	CHAIN LINK FENCE				
3.5.2.1	Construction of green colour PVC coated chain link fence (50x50) size gauge 10 fixed to frame consist of 50mm Dia.vertical heavy duty G I pipes and 50mm Dia.horizontal heavy duty pipes with 25 Dia. GI pipe bracing. Rate to included treated with oil primer and two coats of enamel painting. All completed as per the Engineers instruction.	m	70.00		
3.5.2.2	Breaking 300x150x150 mm size pocket on the existing R/R Masonry wall to fixed vertical GI Pipes with concrete for fence and roof without any damage in wall as directed by the Engineer.	nr	27.00		
3.5.2.3	Cement concrete 1:2:4(3/4:) in column pocket of fence and roof	m ³	1.10		
3.5.2.4	Forming coping on existing R/R Masonry wall, 3/4" thk. cement and sand 1:3 finish smooth with cement floating .Copping slope to out side of the wall	m ²	30.00		
3.5.2.5	Supply & fixing of wicket gate including G.I. post	nr	1.00		
	Total Amount carried to Summary - 1				

Bills of Quantities for Construction of 70x25ft School Building, Cafeteria, Toilet Block, Main gate, Chain link fence at Shri Kaleivaani Vidyalaya, Ruwanwella		
Summary - 1		
SN	Description	Amount (Rs.)
1	Construction of 70x25 ft. School Building (Three Storied)	
2	Construction of Cafeteria	
3	Construction of Toilet Block	
4	Supply & Erection of Main Gate	
5	Construction of Chain Link Fence	
	TOTAL CONSTRUCTION COST CARRIED TO GRAND SUMMARY	

Bills of Quantities for Repair works of 100x20 ft. Single Storied Building [MAIN HALL] at Shri Kaleivaani Vidyalaya, Ruwanwella

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. cts.
1.1.1.0	EXCAVATION AND EARTHWORK				
1.1.1.1	Clearing & tiding up end the of the site construction.	Item	1.00		
1.1.2.0	DEMOLITIONS				
1.1.2.1	Door or window, size up to 40 s.ft removed from existing walls and stacked as directed (wall cupboard doors)	nr	10.00		
1.1.2.2	Door or Window, with frames size over 40 s.ft removed from existing walls and stacked as directed.(Doors & 2'x2' mesh with frame)	nr	20.00		
1.1.2.3	Valance/Barge boarding removed, materials stacked and debris cleared away from the site as directed by engineer.	m	86.00		
1.1.2.4	Floors brick paved, demolished and debris cleared away. (3" thick)	m ²	186.00		
1.1.2.5	Tiles Calicut or half round, removed from roof of single storey buildings and stacked at site.	m ²	408.00		
1.1.2.6	Cement plastering, chipped and debris cleared away from the site.	m ²	220.00		
1.1.2.7	Allow for the removing of necessary root parts including praying as directed by the engineer.	P.Sum			100,000.00

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. cts.
1.1.3.0	EXCAVATION AND EARTHWORK				
1.1.3.1	<p>Anti - termite treatment on excavated foundation and compacted soil under floors. Recommended to use Chemicals available in the market with the directions of the manufacturer. Approval of Engineer should be obtained prior to use.</p> <p>a) Copper Naphthenate (5% in 4 to 8 gals of fuel oil)</p> <p>b) Sodium Arsenate (10% in 12 to 20 gals) of water</p> <p>c) Dieldrine (0.3% in 19 gals of water)</p>	m ²	260.00		
1.1.4.0	CONCRETE WORKS				
1.1.4.1	Lintol - 225 x 150 mm section grade 25 concrete with 2 no. 12 mm dia. Tor steel bars at bottom and 2 no. 10mm dia. tor steel bars at top and 6mm dia. stirrups at 150mm c / c and necessary form work	m	61.00		
1.1.4.2	Lintol - 112.5 x 150 mm section grade 25 concrete with 2 no. 10mm dia. tor steel bars at top and 6mm dia. stirrups at 150mm c / c and necessary form work	m	57.00		
1.1.4.3	Floors/ramp, cement concrete 1:2 1/2 : 5 (1" Metal) 3" thick, cement rendered 1/2", 1:3 top finish with neat cement floating with expansion joints filled with cement and sand. Rate to include for laying 1000 G damp proof membrane before concreting with necessary laps	m ³	185.00		
1.1.4.4	Cement concrete 1: 2 1/2:5(1") up to one cube Pavement area.(Inside the mainhall & boundary wall)	m ³	2.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. cts.
1.1.5.0	DRAINAGE				
1.1.5.1	Drains with circular edges , cement concrete 1: 2 1/2 : 5 (1") laid on 1000g DPM , 9" wide and 9 " average depth 3 " thick sides and base inclusive of 1/2 inch thick cement rendering 1:3 with necessary expansion joints and excavation	m	81.00		
1.1.6.0	MASONRY WORKS				
1.1.6.1	Brick work 4 1/2" thick in cement motor 1:5.	m ²	6.00		
1.1.6.2	Steps, 12" wide and 6" to 9" high masonry or brick work in cement mortar 1:5 rendered 1/2" thick cement 1:2 with neat cement floating on top as per instructions.	m	6.00		
1.1.7.0	FLOOR/WALL/CEILING FINISHES				
1.1.7.1	Rendering cement 1/2" 1:3 up to 1 Sqr with neat cement floating on top	m ²	20.00		
1.1.7.2	Cement, lime and sand plastering 1:1:5(5/8") thick smooth with lime putty	m ²	110.00		
1.1.7.3	Cement, lime and sand plastering 1:1:5(5/8") thick finish semi rough	m ²	110.00		
1.1.7.4	Skirting in cement mortar 1:3 1/2" x 4" Projected or flush with wall and including forming groove.Top finish with neat cement rendering.	m	75.00		
1.1.8.0	ROOF COVERING/ROOF PLUMBING				
1.1.8.1	Corrugated Asbestos sheets fixed to roof or wall on existing frame work with necessary coach screws and limpet washers, or hook bolts.	m ²	408.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. cts.
1.1.8.2	Board Barge - Supply and fixing 20 x 250 mm barge board to the end of purlins including a 600 mm long 50 x 50 x 5 mm angle iron , 32 x 5 mm flat iron brackets as per detail drawing , with 10 mm dia GI bolts and nuts. Rates shall include for applying necessary painting	m	20.00		
1.1.8.3	Board valance (9" x 3/4") 20 x 225 mm with Ginisapu planks supply and fixing to the end purlin including welding MS brackets at 1 m c/c , s per detail drawing and MS bolts and nuts. Rates shall include for applying necessary painting.	m	66.00		
1.1.8.4	Timber Imported - Kempus fixed or renewed in roof and other carpentry work	m ³	3.00		
1.1.8.5	Ridging with ridge tile shape asbestos cement ridge fixed complete with roofing screws or hook bolts.	m	33.00		
1.1.8.6	Down pipes 3 1/2" dia P.V.C fixed with brackets to 6 x4 x2 inch wooden sleepers, rowl plugs to wall using brass screws etc.	m	50.00		
1.1.8.7	Eaves gutters 6 inch P.V.C fixed with relevant PVC injection moulded brackets at 12 c/c including brass screws:	m	66.00		
1.1.9.0	PAINTING				
1.1.9.1	Apply one coat of anti-corrosive primer and two coats enamel paint on already shop primed and erected steel roof truss.	m ²	30.00		
1.1.9.2	Prepare and apply one coats of approved wall filler and two coats of emulsion paints to new wall.	m ²	110.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. cts.
1.1.9.3	Painting walls with approved quality weather shield (Emulsion) paint 2 coat including preparing surface.	m ²	110.00		
1.1.9.4	Apply two coats of floor paint to plinth wall and skirting after preparing surface.	m ²	35.00		
1.1.10.1	ELECTRICAL INSTALLATIONS				
	Supply and installation of the following				
1.1.10.1	Ceiling fan	nr	10.00		
	Lighting point wired through a 5 Amp plate switches using PVC insulated copper wire in fully concealed/ surface plastic casing and capping with plastic switch box and ceiling box etc.				
1.1.10.2	Five gang one way plate switch	nr	2.00		
1.1.10.3	13 amp switch socket outlet wired using insulated wire and copper earth wire in fully surface plastic casing and capping	nr	8.00		
1.1.10.4	Fan regulator wired with a switch using insulated wire and copper earth wire in fully surface plastic casing and capping	nr	10.00		
1.1.10.5	Pendant Lamp with CFL (20W) bulb with one year guarantee (Clipsal , Osram, Philips or approved equivalent)	nr	10.00		
1.1.10.6	12 - Way SP & N distribution unit with 30 A MCB SP & N 25 A (30 mA) SP & N RCCB and 6 to 40 A circuit breakers with plastic frame and door. Earth and Neutral bar din rail type.	nr	1.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. cts.
1.1.10.7	Earth electrode , 2 mm thick 50 mm dia GI pipe of 1500 mm in length with earth clip. Rate to includes fixing charges	nr	1.00		
1.1.11.0	METAL WORK				
1.1.11.1	Angle iron 65 x 65 x 5 mm 1500 mm in length fix to wall or roof with using anchor bolts or GI bolts	nr	1.00		
1.1.11.2	Supplying & Fixing Aluminium Louver panel . consisting of all other necessary accessories as per drawing Bronze/Natural /Powder Coated. All Aluminium Sections should be in accordance with the specification given in preamble for Aluminium work. Rate shall include for S.S.T screws, pop revert,S.T screws, wall plug, Silicon seal etc.....	m ²	15.25		
1.1.11.3	Supplying & Fixing of Aluminium glazed (Glass on top and Cladding board in bottom) door . section 100mm, consist of Bronze/Natural/Powder Coated. All aluminium sections should be in accordance with the specifications given in preamble for Aluminium work. Rate shall include for 5mm thick glazing beading in sash ,rubber gasket , Alpha Door lock, S.S - Door handle and 100 x 75 mm hinges, pop revert,woolfelt,S.S.T screws, cap nut,treded bar with nut,PVC board, wall plug, etc...	m ²	10.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. cts.
1.1.11.4	Supplying & Fixing Aluminium Sliding Window without louver panel. section 70mm type, consist of * Bronze/Natural/Powder Coated sliding section completed with good quality fasteners. All aluminium sections should be in accordance with the specifications given in preamble for Aluminium work. Rate shall include for cresent lock,Sliding roller,S.T.Screws,Pop revert,End cap,Plsatic gavid,Wool felt, Rubberbeading,wallplug,S.S.T.screws,Glass Silicon etc.....	m ²	52.00		
1.1.11.5	Supplying and fixing 2"x1" Aluminum box bar frame with 3mm cladding sheet sash and aluminum box bar door frame with locking arrangement, handle and hinges.(wall cupboard)	m ²	15.00		
1.1.11.6	<u>Security iron grill for aluminium windows</u> - Making and fixing iron grill to existing window & out of 12 x 5 mm flat iron frame and 5mm m.s. rods welded diagonally 3" crs. 70° degrees to horizontal. Rate include for one coat of anticorrosive paint and two coats of enamel paint include opening to leaking	m ²	67.50		
	Total Amount carried to Summary - 2				

Bills of Quantities for Repair works of 30x25 ft. Single Storied Building [TEACHER QUARTER'S] Shri Kaleivaani Vidyalaya, Ruwanwella					
Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. cts.
1.2.1.0	DEMOLITIONS				
1.2.1.1	Brick work in cement, demolished brick stacked and debris cleared away from site (Bath Room Area)	m ³	1.20		
1.2.1.2	Ceiling, existing, removed materials stacked and debris cleared away from site as directed.	m ²	10.00		
1.2.1.3	Door or window, size up to 40 s.ft removed from existing walls and stacked as directed.	nr	2.00		
1.2.1.4	Down pipes, 4" to 6" dia G.I. Old or decayed, removed from existing building and stacked as directed.	m	20.00		
1.2.1.5	Drains demolished and debris cleared away from site.	m	75.00		
1.2.1.6	Floors brick paved, demolished and debris cleared away from site. (3" thick)	m ²	12.00		
1.2.1.7	Glass panes in doors and windows and fanlights removed and stacked.	m ²	1.00		
1.2.1.8	Gutter, eaves, removed and stacked from roof of single storied buildings as directed.	m	22.00		
1.2.1.9	Lime plastering chipped and debris cleared away from the site.	m ²	15.00		
1.2.1.10	Rendering, cement, chipped and debris cleared away from brick walls and floors.	m ²	7.00		
1.2.1.11	Tiles, glazed demolished and debris cleared away from the site.	m ²	7.00		
1.2.1.12	Ceiling asbestos removing including timber frame work, stacking serviceable materials and debris cleared away in single storied building.	m ²	6.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. cts.
1.2.1.13	Valance/Barge boarding removed, materials stacked as directed and debris cleared away in single storied building	m	48.00		
1.2.1.14	Clearing & tidying up end the of the site construction.	Item	1.00		
1.2.2.0	EXCAVATION AND EARTHWORK				
1.2.2.1	Anti termite treatment for existing buildings in Bifenthrin or approved equivalent chemical in accordance with manufactured specification by an approved specialist pest control contractor. Pest control contractor shall submit a guaranty for a minimum of 05 years for repair works, from the date of application.	m ²	70.00		
1.2.2.2	Excavation in trenches for walls/ column pits in hard rock requiring blasting up to a depth of 5' 0" and depositing excavated material to a distance not exceeding 50 m and part return fill.	m ³	0.85		
1.2.3.0	CONCRETE WORKS				
1.2.3.1	Cement concrete 1: 2 1/2:5(1") up to one cube (shuttering paid for separately)	m ³	3.60		
1.2.3.2	2" thick cement concrete 1:11/2:3(3/4")screed in foundation at depths not exceeding 5' 0"	m ²	1.50		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. cts.
1.2.3.3	Lintol - 225 x 150 mm section grade 25 concrete with 2 no.12 mm dia. Tor steel bars at bottom and 2 no. 10mm dia.tor steel bars at top and 6mm dia.stirups at 150mm c / c and necessary form work	m	61.00		
1.2.4.0	MASONRY WORKS				
1.2.4.1	Brickwork in cement mortar (1:5) upto 1 cube, (Up to first level)	m ³	2.60		
1.2.4.2	Random Rubble masonry in cement mortar 1 : 6 up to one cube	m ³	1.50		
1.2.5.0	FLOOR/WALL/CEILING FINISHES				
1.2.5.1	Non skid patten,homogenoius floor tiles, supply and laid with all specials,including bedding in cement and sand mortar 1:3 and joints filled with polymenr grout. Price between Rs. 237.00 - 240.00 (with Vat 15%)	m ²	4.70		
1.2.5.2	Tile glazed, with all specials, supplied and fixed to walls including raking plaster and bedding in cement mortar 1:2 rate to include filling joints with polymer grout.	m ²	15.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. cts.
1.2.5.3	Ceiling, asbestos, flat, fixed with nails to imported timber - Kempus frame work consisting with to 4" x 2" (100 x 50 mm) main joists at 4feet (1200 mm) c/c and 2"x 2 " (50 x 50 mm) secondary joists at 2 feet(600 mm) c/c.with 150 x 50 x 25 mm cleats, including 1/1/2" x 1/2" cover filets and 1/1/2" x 1 1/2" cove mouldings screw to ceiling by using 1 1/4" brass screws. Rate shall include for applied two coats of wood preservative to frame work and two coats of approved colour emulsion paint with piller to sheets, and two coats of enamel paint for beading and mouldings.	m ²	10.00		
1.2.6.0	ROOF COVERING				
1.2.6.1	Corrugated Asbestos sheet roofing on Imported timber- Kempus purlins supplied and fixed complete including treating timber with wood preservative (Rigging measured separately)	m ²	1.90		
1.2.6.2	Boards, valance , 9" x (225 mm), 7/8"(22 mm) to 1"(25 mm) thick in ginisapu timber fixed complete with necessary brass screws new or renewed to end supports.Rates shall include for applying necessary painting.	m ²	22.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. cts.
1.2.6.3	Boards, barge, 10" (250 mm),x 7/8"(22 mm) to 1"(25 mm) thick in ginisapu timber fixed complete with necessary brass screws new or renewed to end supports.Rates shall include for applying necessary painting.	m ²	25.00		
1.2.6.4	Down pipes 3 1/2" dia P.V.C fixed with brackets to 6 x4 x2 inch wooden sleepers, rowl plugs to wall using brass screws etc.	m	20.00		
1.2.6.5	Eaves gutters 6 inch P.V.C fixed with relevant PVC injection moulded brackets at 12 c/c including brass screws:	m	22.00		
1.2.7.0	CARPENTRY AND JOINERY				
1.2.7.1	Doors or windows (Sash Only) , ledged, braced and battened screwed to tounge & grooved "V " jointed, 25 mm (1") finished thick sash in luxury class (Jak) timber complete with available brass furniture and fittings.	m ²	2.50		
1.2.7.2	Supplying and fix plywood door marine type 32mm (1 1/4") single hung door sash to existing frame. Door lock, and painting paid separately	m ²	0.83		
1.2.8.0	IRONMONGERY				
1.2.8.1	Bolts, Casement fasteners or stays, removed and re-fixed including making good to holes in frames and sashes:	nr	10.00		
1.2.8.2	Casement fasteners, brass with mortice plate, polished heavy quality, supplied and fixed with brass screws	nr	10.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. cts.
1.2.8.3	Locks, Yale or Union, night latch, supplied and fixed with duplicate keys.	nr	3.00		
1.2.8.4	Lock Mortice (local) single leaver supplied and fixed ,Union or other brand .(Main Door)	nr	1.00		
1.2.8.5	Fanlight catches, brass heavy quality with brass screws fixed complete:	nr	1.00		
1.2.9.0	PLASTERING				
1.2.9.1	Cement, lime and sand plastering 1:1:5(5/8") thick finish semi rough	m ²	50.00		
1.2.9.2	Cement, lime and sand plastering 1:1:5(5/8") thick smooth with lime putty	m ²	50.00		
1.2.9.3	Cracks in wall , plastered in cement 1:3 after chipping 2" to 4" wide	m	15.00		
1.2.9.4	D.P.C 3/4" thick in cement sand 1:3 finished smooth with two coats of hot tar blinded with sand	m ²	1.60		
1.2.9.5	Rendering, cement 3/4" 1:2 up to 1 Square with neat cement floating on top	m ²	9.00		
1.2.10.0	METAL WORK				
1.2.10.1	Glass Panes 21 oz. Clear, supplied and fixed with Class 1 beading;	m ²	1.00		
1.2.11.0	PAINTING				
1.2.11.1	Apply two coats of floor paint to plinth wall and skirting after preparing surface.	m ²	16.00		
1.2.11.2	Painting walls with approved quality emulsion paint 2 coats (New work-bath room)	m ²	14.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. cts.
1.2.11.3	Painting walls with approved quality weather shield (Emulsion) paint 2 coat including preparing surface of old work	m ²	115.00		
1.2.11.4	Painting new wood work, with primer undercoat and two coats of approved quality Enamel paint	m ²	12.00		
1.2.11.5	Painting walls with alkali resisting primer where necessary.	m ²	12.00		
1.2.11.6	Prepare and apply one coats of approved wall filler and two coats of emulsion paints to new wall.	m ²	10.00		
1.2.11.7	Painting, Enamel paint, including washing, cleaning and smoothing down with sand paper two coat.(old work)	m ²	110.00		
1.2.12.0	PLUMBING/SANITARY INSTALLATIONS				
1.2.12.1	Wash Basin (lavatory approved quality) waste plug, new brackets, supplied and fixed complete (tap, bottle trap and outlet pipe paid for separately.)	nr	1.00		
1.2.12.2	Closet, pedestal type,(approved quality) with low level glazed earthenware flushing cistern, flush pipe double plastic seat cover, trap etc. .supplied and fixed complete. (1/2" stop cock paid separately)	nr	1.00		
1.2.12.3	Cock (bib tap) 1/2" approved quality plastic, supplied and fixed	nr	1.00		
1.2.12.4	Mirror , bath room 300 x 450 average square with plastic frame , supplied and fixed to wall with rawl plugs.	nr	1.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. cts.
1.2.12.5	Pillar cocks 1/2" approved quality chromium plated, supplied and fixed to basins.	nr	1.00		
1.2.12.6	Pipes P.V.C 1/2"- 20 mm supplied and fixed with all specials. Type 1000	m	15.00		
1.2.12.7	Pipes P.V.C 3/4"- 25 mm supplied and fixed with all specials, type 1000	m	10.00		
1.2.12.8	Soap tray, approved quality chromium plated , supplied and fixed to wall with rawl plugs;	nr	1.00		
1.2.12.9	Supplying and fixing 4" x 1/2" P.V.C shower rose	nr	1.00		
1.2.12.10	Tooth brush holder, chromium plated supplied and fixed to wall with Rawl plugs:	nr	1.00		
1.2.12.11	Towel rail , chrome plated , approved quality, supplied and fixed to wall with rawl plugs	nr	1.00		
1.2.12.12	PVC Bidder Shower Supplying & Fixed	nr	1.00		
1.2.13.0	DRAINAGE				
1.2.13.1	Connection to existing sewer or manhole	Item	1.00		
1.2.13.2	Drains P.V.C 4" dia type 600 laid on cement concrete 6" thick upto 2' o" depth of invert including excavation and cement concrete haunching 1:3:6 (1")	m	3.00		
1.2.13.3	Grating chrome plated or PVC 6" x 6" supplied & fixed:	nr	1.00		
1.2.13.4	Gully , approved quality PVC 4" supplied & fixed	Item	1.00		

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. cts.
1.2.13.5	Manhole 2'-0 x 2'-0 and upto 2' 0" deep 9" thick brick in cement 1:3 walls and cement rendered 1/2" (1:2) with 6" cement concrete foundation 1:3:6 (2" metal) including forming channels, but without cover all as per detail drawings	nr	1.00		
1.2.13.6	Manhole cover, reinforced concrete 3" thick 2'.0" x 2' 0" approx. supplied and fixed reinforced with 1/4" dia m.s rods at 3 1/2 Crs. Bothways. - all as per detail drawings	nr	1.00		
1.2.14.0	ELECTRICAL INSTALLATIONS				
	Supply and installation of the following				
1.2.14.1	Ceiling fan	nr	3.00		
1.2.14.2	Fan regulator wired with a switch using insulated wire and copper earth wire in fully concealed / surface pvc conduit	nr	3.00		
1.2.14.3	Other electrical item	Item	1.00		
	Total Amount carried to Summary - 2				

**Bills of Quantities for Repair works of 40x20 ft. Single Storied Building [PARADHI HALL] at
Kaleivani Vidyalyaya, Ruwanwella**

Item No	Description of work	Unit	Qty	Rate Rs. cts.	Amount Rs. cts.
1.3.1.0	DEMOLITIONS				
1.3.1.1	Floors brick paved, demolished and debris cleared away. (3" thick)	m	7.00		
1.3.1.2	Lime plastering chipped and debris cleared away.	m	130.00		
1.3.1.3	Valance/Barge boarding removed, materials stacked and debris cleared away in single storied building	m	54.00		
1.3.1.4	Clearing & tidying up end the of the site construction.	Item	1.00		
1.3.2.0	EXCAVATION AND EARTHWORK				
1.3.2.1	Anti termite treatment for existing buildings in Bifenthrin or approved equivalent chemical in accordance with manufactured specification by an approved specialist pest control contractor. Pest control contractor shall submit a guaranty for a minimum of 05 years for repair works, from the date of application.	m ²	75.00		
1.3.3.0	CONCRETE WORKS				
1.3.3.1	Floors/ramp , cement concrete 1:2 1/2 : 5 (1" Metal) 3" thick, cement rendered 1/2", 1:3 top finish with neat cement floating with expansion joints filled with cement and sand. Rate to include for laying 1000 G damp proof membrane before concreting with necessary laps	m ³	7.00		
1.3.4.0	FLOOR/WALL/CEILING FINISHES				
1.3.4.1	Cement, lime and sand plastering 1:1:5(5/8") thick finish semi rough	m ²	65.00		
1.3.4.2	Cement, lime and sand plastering 1:1:5(5/8") thick smooth with lime putty	m ²	65.00		

Item No	Description of work	Unit	Qty	Rate Rs. cts.	Amount Rs. cts.
1.3.5.0	PAINTING				
1.3.5.1	Apply two coats of floor paint to plinth wall and skirting after preparing surface.	m ²	2.00		
1.3.5.2	Painting walls with approved quality weather shield (Emulsion) paint 2 coat including preparing surface of old work	m ²	65.00		
1.3.5.3	Painting walls with alkali resisting primer where necessary.	m ²	65.00		
1.3.5.4	Painting, Enamel paint, including washing, cleaning and smoothing down with sand paper two coat.(old work)	m ²	4.00		
1.3.5.5	Prepare and apply one coats of approved wall filler and two coats of emulsion paints to new wall.	m ²	65.00		
1.3.6.0	ROOF PLUMBING				
1.3.6.1	Down pipes 3 1/2" dia P.V.C fixed with brackets to 6 x4 x2 inch wooden sleepers, rowl plugs to wall using brass screws etc.	m	20.00		
1.3.6.2	Eaves gutters 6 inch P.V.C fixed with relevant PVC injection moulded brackets at 12 c/c including brass screws:	m	22.00		
1.3.6.3	Boards, valance , 9" x (225 mm), 7/8"(22 mm) to 1"(25 mm) thick in ginisapu timber fixed complete with necessary brass screws new or renewed to end supports.Rates shall include for applying necessary painting.	m	30.00		
1.3.6.4	Boards, barge ,10" (250 mm),x 7/8"(22 mm) to 1"(25 mm) thick in ginisapu timber fixed complete with necessary brass screws new or renewed to end supports.Rates shall include for applying necessary painting.	m	23.00		
	Total Amount carried to Summary - 2				

Bills of Quantities for Repair works of Buildings at Shri Kaleivaani Vidyalaya, Ruwanwella

Summary - 2

SN	Description	Amount (Rs.)
1	Repair works of 100x20 ft. Single Storied Building [MAIN HALL]	
2	Repair works of 30x25 ft. Single Storied Building [TEACHER QUARTER'S]	
3	Repair works of 40x20 ft. Single Storied Building [PARADHI HALL]	
	TOTAL CONSTRUCTION COST CARRIED TO GRAND SUMMARY	

**Bills of Quantities for Repair works of 20x20 ft. Single Storied Building
[SCIENCE LABORATORY & IT ROOM] at Sri Kalaivaani Vidyalaya, Ruwanwella**

Item No	Description of Work	Unit	Qty	Rate Rs. cts.	Amount Rs. cts.
2.1.1.0	DEMOLITIONS				
2.1.1.1	Cement plastering chipped and debris cleared away from the site as directed by engineer.	m ²	13.00		
2.1.1.2	Clearing & tiding up end the of the site construction.	Item	1.00		
2.1.2.0	FLOOR/WALL/CEILING FINISHES				
2.1.2.1	Cement, lime and sand plastering 1:1:5(5/8") thick finish semi rough	m ²	5.00		
2.1.2.2	Cement, lime and sand plastering 1:1:5(5/8") thick smooth with lime putty	m ²	8.00		
2.1.3.0	PAINTING				
2.1.3.1	Apply two coats of floor paint to plinth wall and skirting after preparing surface.	m ²	13.00		
2.1.3.2	Painting walls with approved quality weather shield (Emulsion) paint 2 coat including preparing surface of old work	m ²	65.00		
2.1.3.3	Painting walls with alkali resisting primer where necessary.	m ²	65.00		
2.1.3.4	Painting, Enamel paint, including washing, cleaning and smoothing down with sand paper two coats. valance board & barge board.(old work)	m ²	30.00		
2.1.3.5	Prepare and apply one coat alkali resistant primer and two coats of emulsion paint to ceiling & eave ceiling.	m ²	32.00		
2.1.4.0	ROOF PLUMBING				
2.1.4.1	Down pipes 3 1/2" dia P.V.C fixed with brackets to 6 x4 x2 inch wooden sleepers, rowl plugs to wall using brass screws etc.	m	10.00		

Item No	Description of Work	Unit	Qty	Rate Rs. cts.	Amount Rs. cts.
2.1.4.2	Eaves gutters 6 inch P.V.C fixed with relevant PVC injection moulded brackets at 12 c/c including brass screws:	m	19.00		
2.1.5.0	METAL WORK				
2.1.5.1	Glass Panes 21 oz. Clear, supplied and fixed with Class 1 beading;	m ²	0.90		
2.1.5.2	Supply & fixing aluminium sliding window fastener.	nr	10.00		
2.1.6.0	ELECTRICAL INSTALLATIONS				
	Supply and installation of the following				
2.1.6.1	Ceiling fan	nr	4.00		
2.1.6.2	Lighting point wired through a 13 Amp plate switches using PVC insulated copper wire in fully concealed/ surface plastic casing and capping with plastic switch box and ceiling box etc.	nr	4.00		
2.1.6.3	Fan regulator wired with a switch using insulated wire and copper earth wire in fully surface plastic casing and capping	nr	4.00		
	Total Amount carried to Summary - 3				

Bills of Quantities for Repair works of 20x25 ft. Single Storied Building [LIBRARY] at Sri Kalaivaani Vidyalyaya, Ruwanwella					
Item No	Description of work	Unit	Qty	Rate Rs. cts.	Amount Rs. cts.
2.2.1.0	DEMOLITIONS				
2.2.1.1	Cement plastering chipped and debris cleared away from the site as directed by engineer.	m ²	13.00		
2.2.1.2	Clearing & tidying up end the of the site construction.	Item	1.00		
2.2.2.0	FLOOR/WALL/CEILING FINISHES				
2.2.2.1	Cement, lime and sand plastering 1:1:5(5/8") thick finish semi rough	m ²	5.00		
2.2.2.2	Cement, lime and sand plastering 1:1:5(5/8") thick smooth with lime putty	m ²	8.00		
2.2.3.0	PAINTING				
2.2.3.1	Apply two coats of floor paint to plinth wall and skirting after preparing surface.	m ²	13.00		
2.2.3.2	Painting walls with approved quality weather shield (Emulsion) paint 2 coat including preparing surface of old work	m ²	65.00		
2.2.3.3	Painting walls with alkali resisting primer where necessary.	m ²	65.00		
2.2.3.4	Painting, Enamel paint, including washing, cleaning and smoothing down with sand paper two coats. valance board & barge board (old work)	m ²	22.00		
2.2.3.5	Prepare and apply one coat alkali resistant primer and two coats of emulsion paint to ceiling & eave ceiling.	m ²	32.00		
2.2.4.0	ROOF PLUMBING				
2.2.4.1	Down pipes 3 1/2" dia P.V.C fixed with brackets to 6 x4 x2 inch wooden sleepers, rowl plugs to wall using brass screws etc.	m	10.00		

Item No	Description of work	Unit	Qty	Rate Rs. cts.	Amount Rs. cts.
2.2.4.2	Eaves gutters 6 inch P.V.C fixed with relevant PVC injection moulded brackets at 12 c/c including brass screws:	m	19.00		
2.2.5.0	METAL WORK				
2.2.5.1	Supplying & Fixing Aluminium Sliding Window without louver panel. section 70mm type, consist of * Bronze/Natural/Powder Coated sliding section completed with good quality fasteners. All aluminium sections should be in accordance with the specifications given in preamble for Aluminium work. Rate shall include for crescent lock, Sliding roller, S.T. Screws, Pop revert, End cap, Plastic gaud, Wool felt, Rubberbeading, wallplug, S.S.T. screws, Glass Silican etc.....	m ²	3.00		
2.2.5.2	Glass Panes 21 oz. Clear, supplied and fixed with Class 1 beading;	m ²	0.90		
	Total Amount carried to Summary - 3				

Bills of Quantities for Modify the Play area & Access area at Sri Kalaivaani Vidyalaya, Ruwanwella

Item No	Description of work	Unit	Qty	Rate Rs. cts.	Amount Rs. cts.
2.3.1.0	DEMOLITIONS				
2.3.1.1	Ramp, step between science lab & library area	Item	1.00		
2.3.1.2	Demolishing of decayed canteen	Item	1.00		
2.3.1.3	Clearing & tiding up end the of the site construction.	Item	1.00		
2.3.1.4	Prepare and apply two coats primer and finishing coat of enamel paint to G.I. pipe.	m ²	18.00		
	Total Amount carried to Summary - 3				

Bills of Quantities for Ancillary works at Shri Kaleivaani Vidyalaya, Ruwanwella					
Item No	Description of work	Unit	Qty	Rate Rs. cts.	Amount Rs. cts.
2.4.1.0	DEMOLITIONS				
2.4.1.1	Door or window, size up to 40 s.ft removed from existing walls and stacked as directed.	nr	3.00		
2.4.1.2	Closet, squatting type, removed sewer connections plugged and floor made good.	nr	3.00		
2.4.1.3	Clearing & tiding up end the of the site construction.	Item	1.00		
2.4.2.0	PLUMBING/SANITARY INSTALLATIONS				
2.4.2.1	Closet, squatting, type,(approved quality ceramic) with trap supplied & fixed including high level cistern complete with flush pipe and connection to supply , complete to working order	nr	3.00		
2.4.2.2	Cock (bib tap) 1/2" approved quality plastic, supplied and fixed	nr	3.00		
2.4.2.3	Pipes P.V.C 1/2"- 20 mm supplied and fixed with all specials. Type 1000	m	10.00		
2.4.3.0	METAL WORK				
2.4.3.1	Supplying and fixing 2"x1" Aluminum box bar frame with 3mm cladding sheet sash and aluminum box bar door frame with locking arrangement, handle and hinges.	m ²	4.20		
2.4.4.0	PAINTING				
2.4.4.1	Painting walls with approved quality weather shield (Emulsion) paint two coat including preparing surface of old work	m ²	30.00		
	Total Amount carried to Summary - 3				

Bills of Quantities for Storm Water System at Shri Kaleivaani Vidyalaya, Ruwanwella

Item No	Description of Work	Unit	Qty	Rate Rs. cts.	Amount Rs. cts.
2.5.1.0	EXCAVATION AND EARTHWORK				
2.5.1.1	Clearing & tidying up end the of the site construction.	Item	1.00		
2.5.2.0	DRAINAGE				
2.5.2.1	Drains with circular edges ,laid on 1000g DPM , cement concrete 1: 2 1/2 : 5 (1") , 9" wide and 12 " average depth 3 " thick sides and base inclusive of 1/2 inch thick cement rendering 1:3 with necessary expansion joints and excavation	m	40.00		
	Total Amount carried to Summary - 3				

**Bills of Quantities for Repair works of Existing Boundary Wall at Shri Kaleivaani Vidyalaya,
Ruwanwella**

Item No	Description of work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
2.6.1.0	WALL FINISHES				
2.6.1.1	Plaster in walls 3/4 (20 mm) thick 1 : 3 finish semi rough - above 1 square including preparing surface	m ²	50.00		
2.6.2.0	PAINTING				
2.6.2.1	Painting walls with approved quality weather shield (emulsion) paint 2 coat including preparing surface of old work	m ²	50.00		
2.6.2.2	Clearing & tiding up end the of the site construction.	Item	1.00		
	Total Amount carried to Summary - 3				

**Bills of Quantities for Repair Buildings, Modify the Play area & Access area, Ancillary works,
storm water system, Repair works of existing boundary wall at Shri Kaleivaani Vidyalaya,
Ruwanwella**

Summary - 3

SN	Description	Amount (Rs.)
1	Repair works of 20x20 ft. Single Storied Building [SCIENCE LABORATORY & IT ROOM]	
2	Repair works of 20x25 ft. Single Storied Building [LIBRARY]	
3	Modify the Play area & Access area	
4	Ancillary works	
5	Storm Water System	
6	Repair works of Existing Boundary Wall	
	TOTAL CONSTRUCTION COST CARRIED TO GRAND SUMMARY	

Bills of Quantities for Drinking Water System and Surveying Works at Shri Kaleivaani Vidyalaya, Ruwanwella					
Item No	Description of Work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
4.1.1.0	EXCAVATION AND EARTHWORK				
4.1.1.1	Clearing site debris cleared.	Item	1.00		
4.1.1.2	Clearing & tideup end of the site construction	Item	1.00		
4.1.1.3	Excavation in trenches for walls/ column pits in ordinary soil from 0'0" to 5'0" deep and depositing excavated material not exceeding 50 m and part return fill.	m ²	0.38		
4.1.2.0	CONCRETE WORKS				
4.1.2.1	Cement concrete 1:2:4 (3/4") up to 1 cube (shuttering paid separately)	m ²	0.34		
4.1.2.2	Shuttering for column shaft and dismantling (for column 9"x9" x 4 ft. high I.e 4 1/2 ft box)	m ²	3.84		
4.1.3.0	STRUCTURAL METAL WORK				
4.1.3.1	Supplying cutting fabricating 63 MM Dia GI frame structure as a tower to placed the 1000 L water tank as per the given drawing and instruction rate to included installing structure in position and painting.	nr	1.00		
4.1.4.0	PLUMBING/SANITARY INSTALLATIONS				
4.1.4.1	Supply & fixing approved quality 1"water pump (1HP) as directed by engineer.	nr	1.00		
4.1.4.2	Tank, storage Plastishell 1000 lt capacity hoisting, placing and making connection in position	nr	1.00		
4.1.4.3	Pipes P.V.C 1" - 32 mm supplied and fixed:, type 1000 with all specials	m	105.00		

Item No	Description of Work	Unit	Qty	Rate		Amount	
				Rs.	Cts.	Rs.	Cts.
4.1.4.4	Pipes P.V.C 1/2"- 20 mm supplied and fixed with all specials. Type 1000	m	20.00				
4.1.4.5	Pipes P.V.C 1 1/2" - 50 mm supplied and fixed, type 600 with all specials	m	12.00				
4.1.4.6	Well bailing out of water including cleaning well and completing necessary repairs including construction of pump house as directed by engineer.	P.Sum				200,000.00	
4.1.5.0	SURVEYING PLAN (MASTER PLAN)						
4.1.5.1	Preparing of surveying plan (Master plan) as directed by the engineer	Item	1.00				
	Total Amount carried to Summary - 4						

Bills of Quantities for Electrical wiring (Internal) at Shri Kaleivaani Vidyalaya, Ruwanwella

Item No	Description of Work	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
	Preliminary items not listed below but deemed necessary for the successful execution of the project shall be included in the Bid rates, as no claims for extra payments for such, would be entertained.	Note			
4.3.1.0	ELECTRICAL INSTALLATIONS				
4.3.1.1	Supply & fixing twin main wire to necessary building as directed by the engineer	m	90.00		
4.3.1.2	Ceramic D brackets 3 "	nr	7.00		
	Total Amount carried to Summary - 4				

Bills of Quantities for Drinking Water System and Surveying works, Electrical wiring (Internal) at Shri Kaleivaani Vidyalaya, Ruwanwella		
Summary - 4		
SN	Description	Amount (Rs.)
1	Drinking Water System and Surveying Works	
2	Electrical wiring (Internal)	
	TOTAL CONSTRUCTION COST CARRIED TO GRAND SUMMARY	

Bills of Quantities for Construction of 70x25ft School Building, Cafeteria, Toilet Block, Main gate, Chain link fence, Repair works of Buildings, Modify play area and Access area, Ancillary works, Storm water system, Repair works of boundary wall, Drinking Water System, Surveying Works, Electrical Wiring (Internal) at Shri Kaleivaani Vidyalaya, Ruwanwella		
Grand Summary		
SN	Description	Amount (Rs.)
1	Preliminaries	
2	Construction of 70x25ft School Building, Cafeteria, Toilet Block, Main gate, Chain link fence (Total of Summary - 1)	
3	Repair works of Buildings (Total of Summary - 2)	
4	Repair Buildings, Modify the Play area & Access area, Ancillary works, storm water system, Repair works of existing boundary wall (Total of Summary - 3)	
5	Drinking Water System and Surveying works, Electrical wiring (Internal) (Total of Summary - 4)	
	TOTAL CONSTRUCTION COST	
(a)	Sub Total I	
(b)	Less: Provisional Sum	412,000.00
(c)	Sub Total II (a-b)	
(d)	Less: Discount if any (.....%)	
(e)	Sub Total III (c-d)	
(f)	Add : Provisional Sum (b)	412,000.00
(g)	TOTAL BID SUM WITHOUT TAXES (e+f) (CARRIED TO THE FORM OF BID)	
Total Bid Sum to be taken in to Form of Bid in words Rupees: only.		

Amount of V.A.T. (Prevailing VAT) for the Total Bid Sum :- Rs.

Bidder's VAT Registration No:

.....
Signature of Bidder

.....
Stamp

Name and Address of Bidder:

.....

.....

.....

Contact Number of Bidder

.....

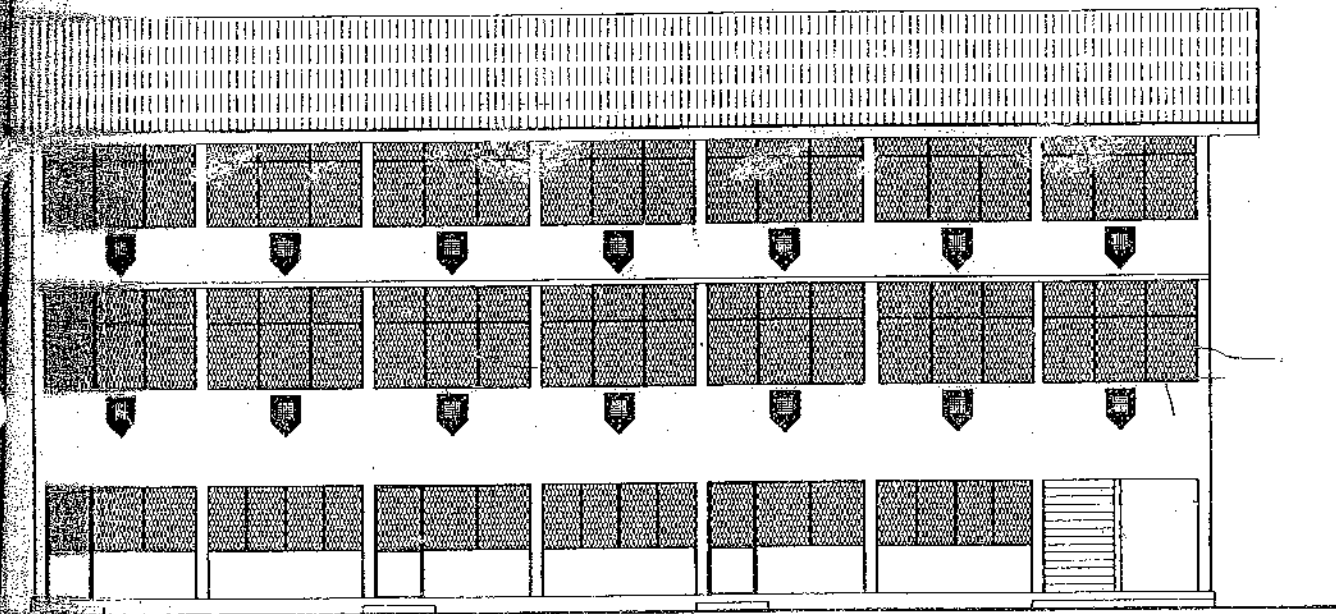
Fax Number/ E-mail Address of Bidder

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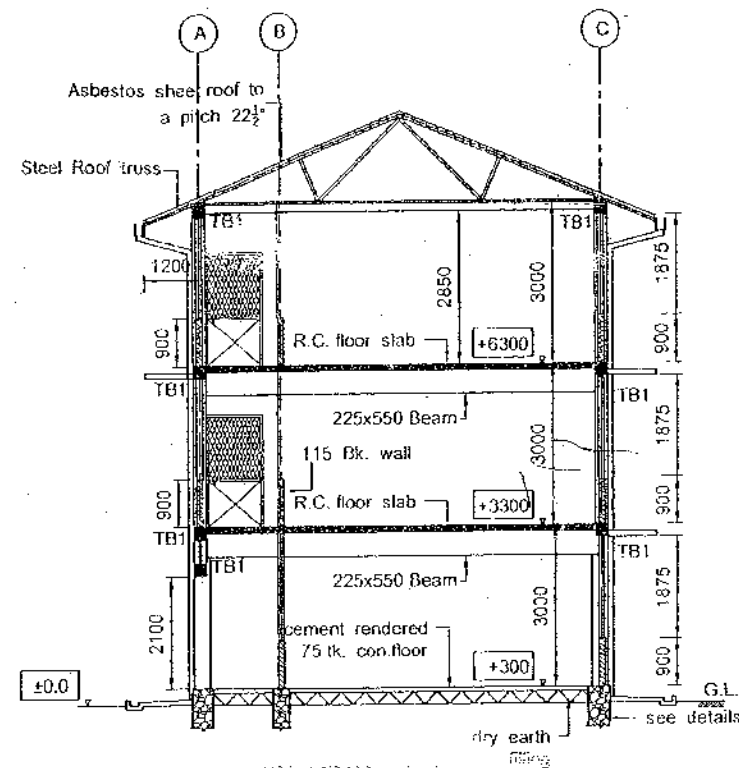
Sri Kalaivani T.V., Ruwanwella

Kg/ Dehi/ Sri Kalaivani Tamil Vidyalyaya

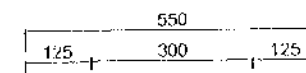
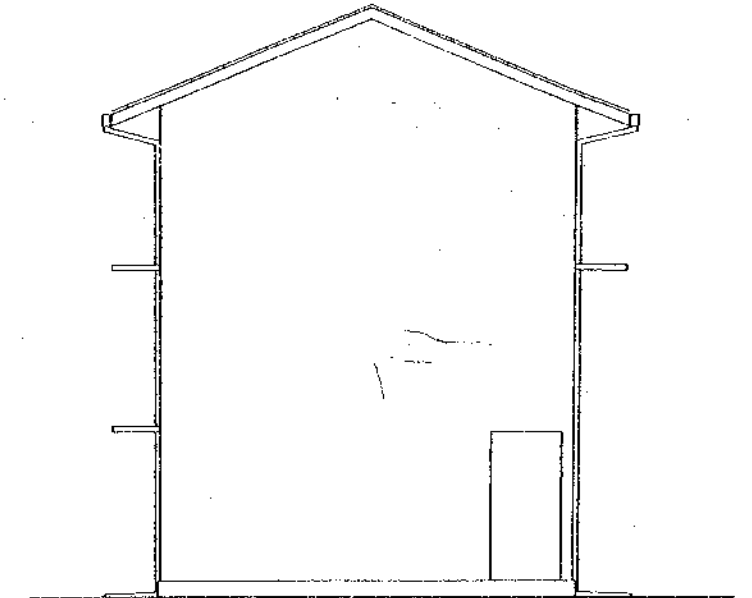
70' x 25' Three Storied Building



FRONT ELEVATION
SCALE 1:100



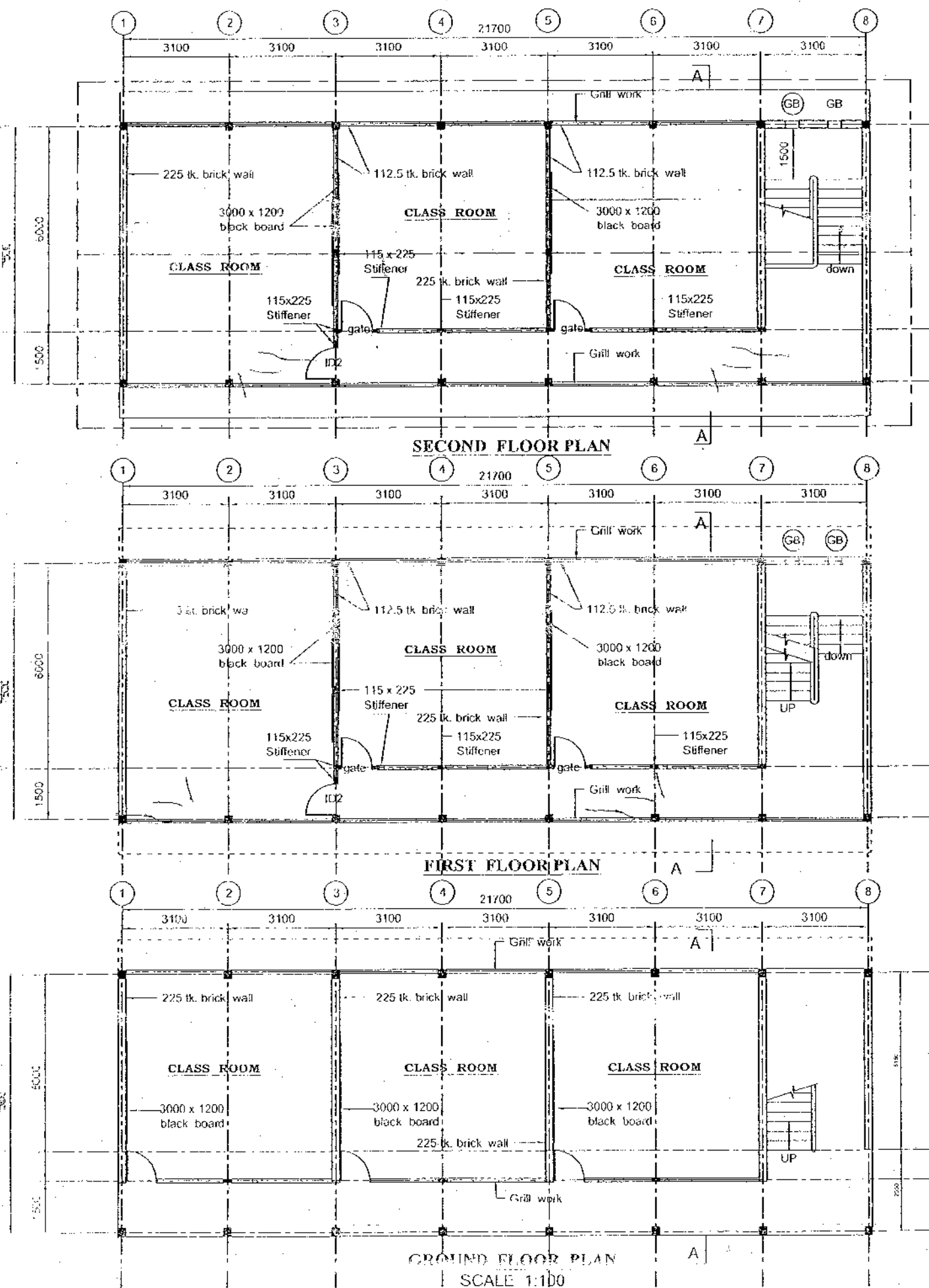
SECTION A-A
SCALE 1:100



Cement grill
Brilliant white
Bamboo
1/2" tk. Plaster band

DECORATED CEMENT GRILL WORK
SCALE 1:10

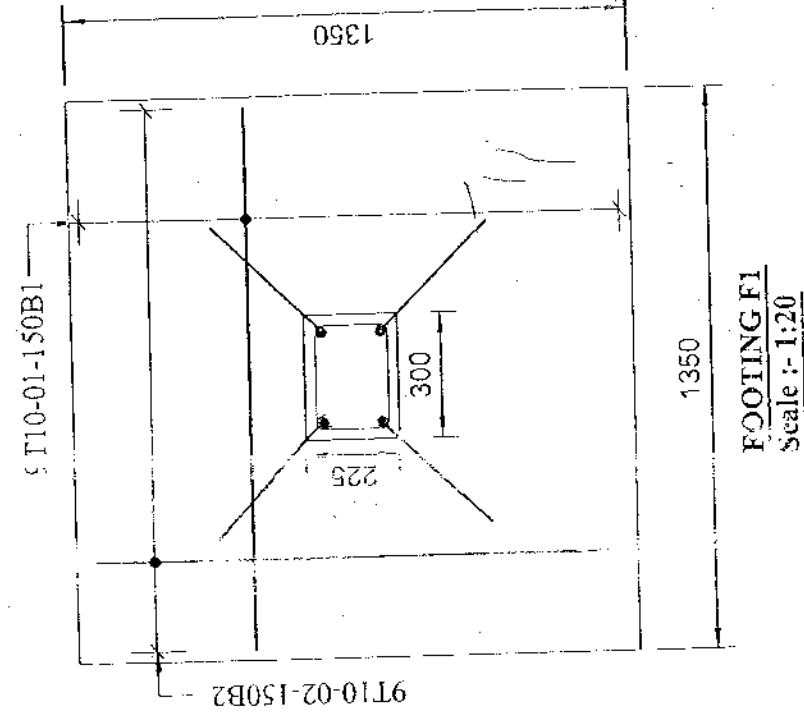
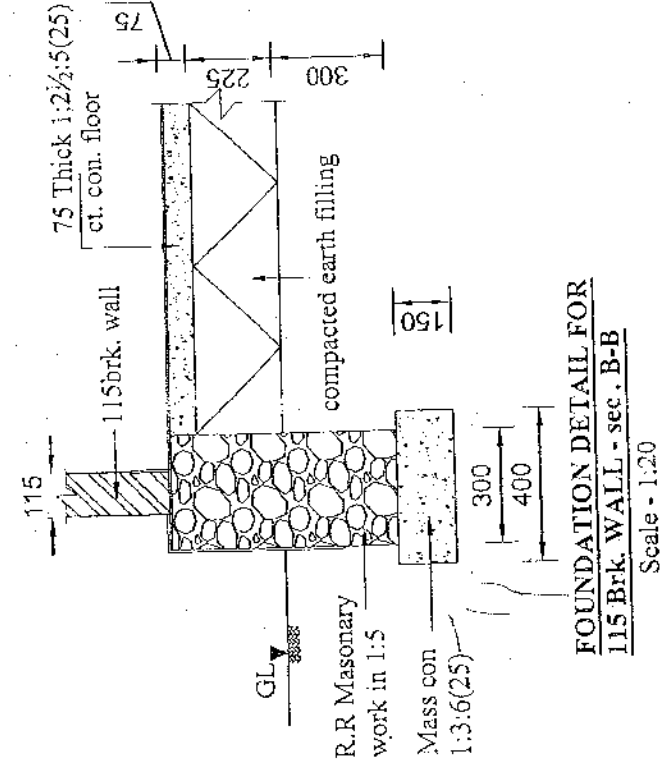
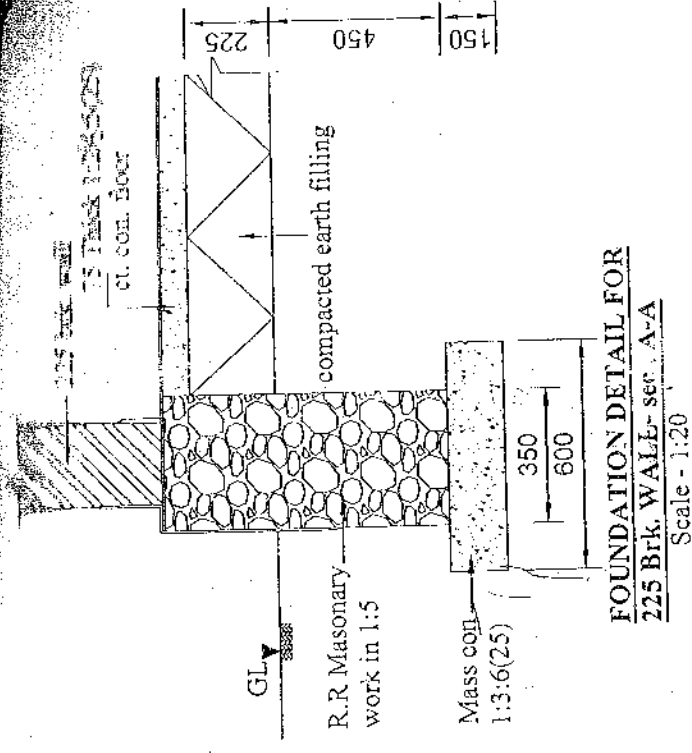
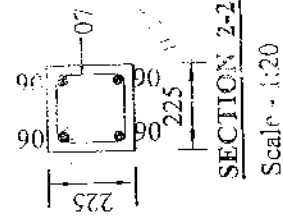
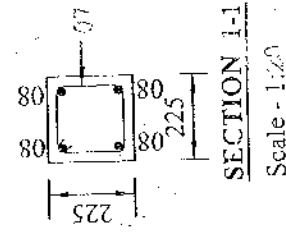
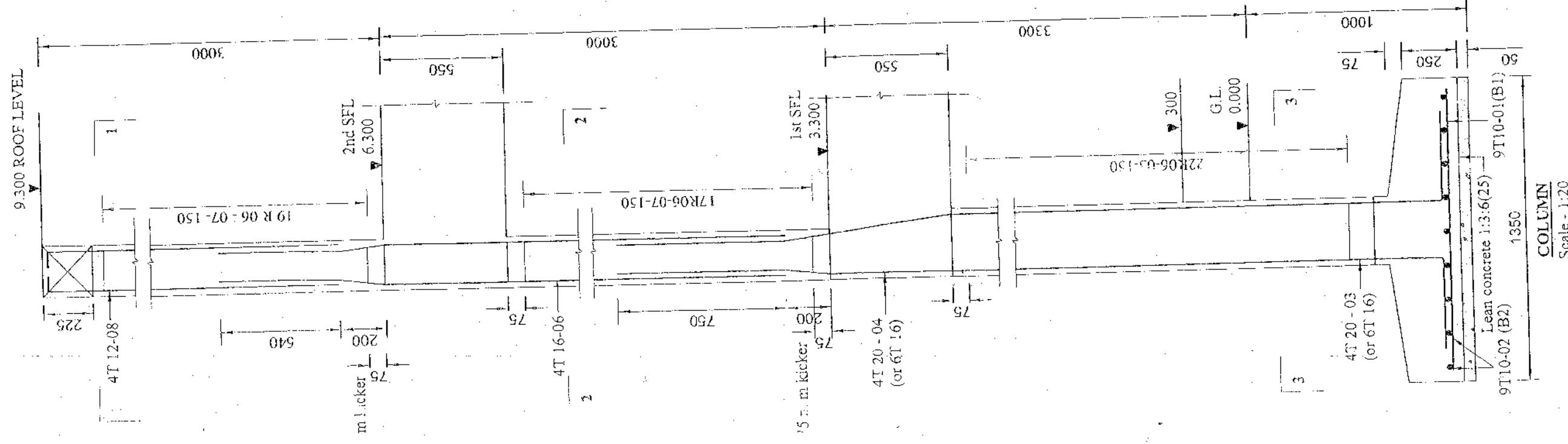
Consultant Project Management Unit – Ministry of Education	
Project 12 CLASS ROOM BLOCK 70'x25' (27.9mx7.5m) Kg/ Dehi/ Sri Kalaivani Tamil Vidyalaya	
Title ELEVATIONS, SECTION, DETAILS OF DOORS & WINDOWS	Typical Standard Drg SN - 01



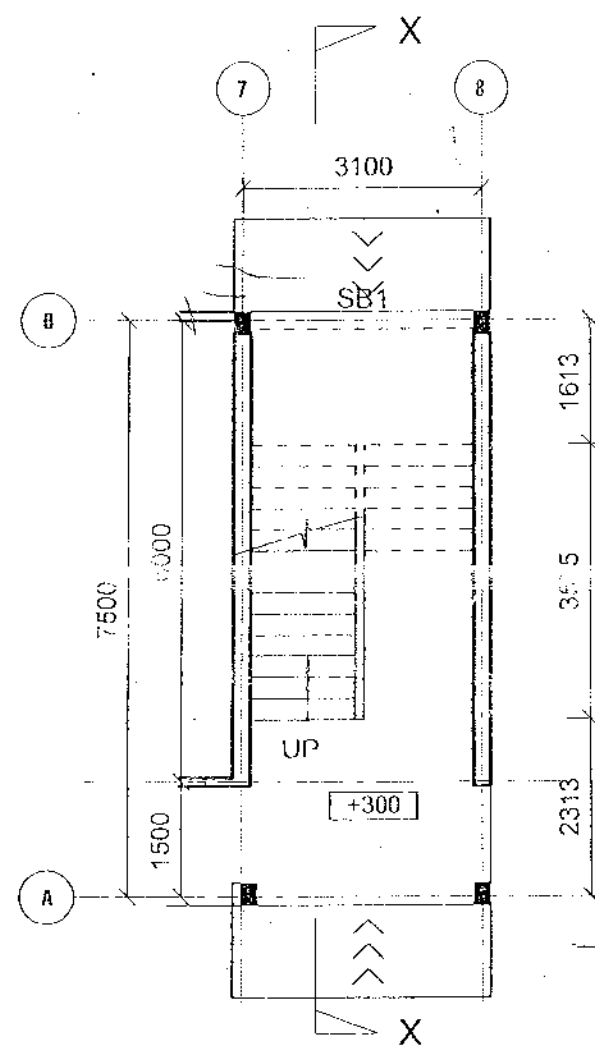
SCHEDULE OF DOORS & WINDOWS

TYPE	DESCRIPTION	SIZE	NOS
ID	Iron door	2875 x 2900	01
ID2	Iron door	1050 x 2100	02
GB	Glass blocks	400 x 800	04

Consultant	
Project Management Unit - Ministry of Education	
Project	
12 CLASS ROOM BLOCK	
70'x25' (27.9mx7.5m)	
Kg/ Dehi/ Sri Kalaivani Tamil Vidyalaya	
Title	Typical Standard Drg
FLOOR PLANS	SN - 02

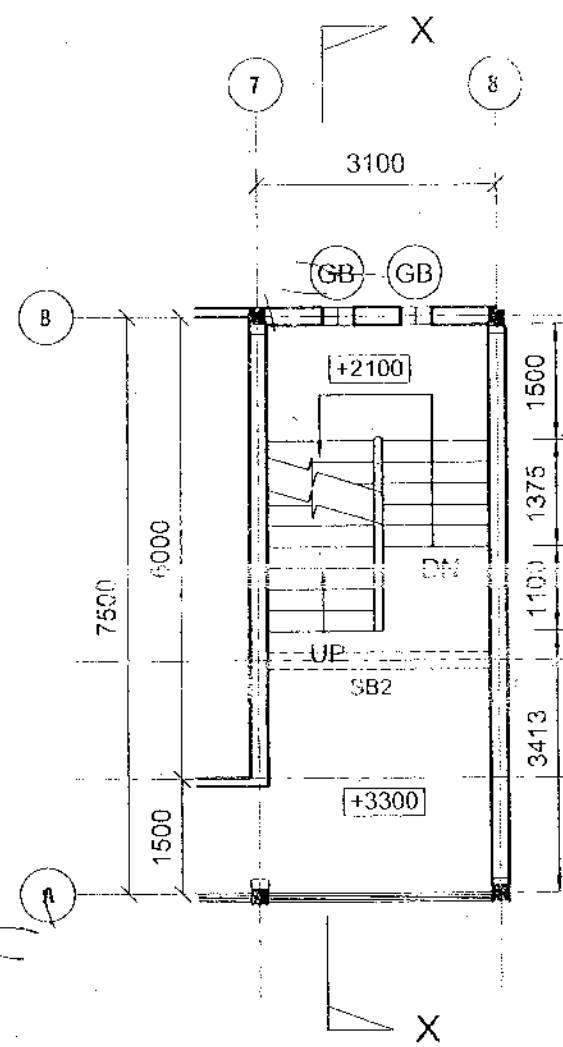


Consultant	Project Management Unit - Ministry of Education
Project	12 CLASS ROOM BLOCK
	70'x25' (27.9mx7.5m)
	Kg/Dehi/Sri Kalaiyani Tamil Vidyalaya
Title	DETAILS OF FOUNDATION
Typical Standard Dwg	SN - 03



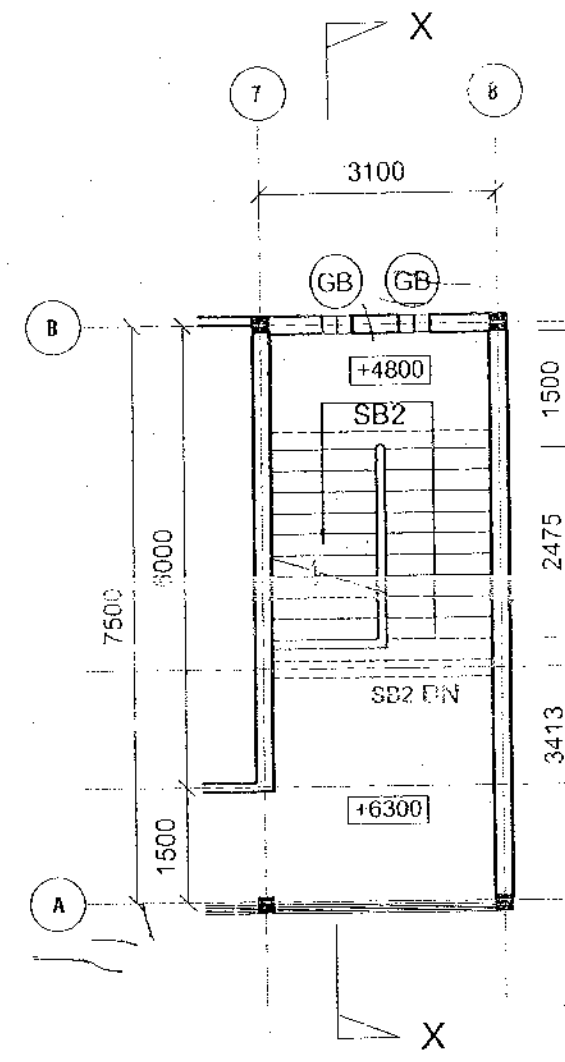
GROUND FLOOR PLAN

SCALE - 1:100



FIRST FLOOR PLAN

SCALE - 1:100



SECOND FLOOR PLAN

SCALE - 1:100

All dimensions are in millimeters.

T - Top steel
R - Mild steel
stg - Staggered
SFL - Structural floor level
T - Top Face

alt - Alternate
crs - Centers
B - Bottom Face
F - Far face
N - Near face

REINFORCEMENT BARS ARE LABELLED AS FOLLOWS
NO of bars/Type of steel/Diameter/Bar mark/Spring/Location/Layer
eg:- 10T10-07-15011

CLEAR COVER TO MAIN REINFORCEMENT :-
Beams:- 25 mm Slabs/Stairs -20mm
Lap length of main r/f - 45 x diameter of the bar
All laps must be staggered

CHARACTERISTIC STRENGTH OF MATERIALS:-
Concrete -25N/mm²
Top steel -High yield steel 500N/mm²

Distribution steel T10-275, Unless otherwise specified.

Consultant

Project Management Unit - Ministry of Education

Project

12 CLASS ROOM BLOCK

70'x25' (27.9mx7.5m)

Kg/ Dehi/ Sri Kalaivani Tamil Vidyalaya

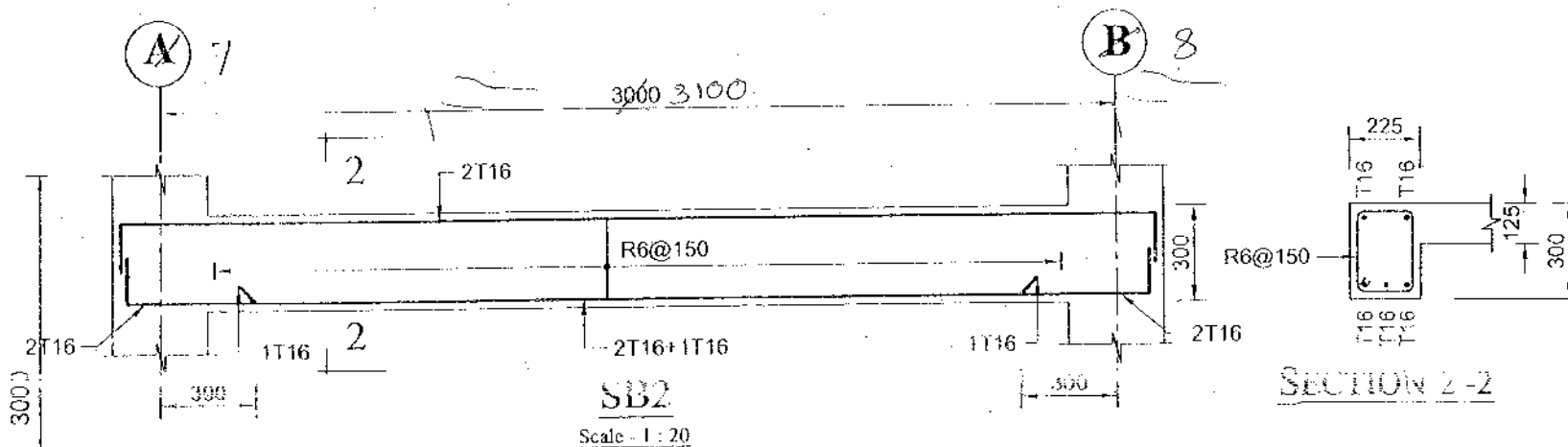
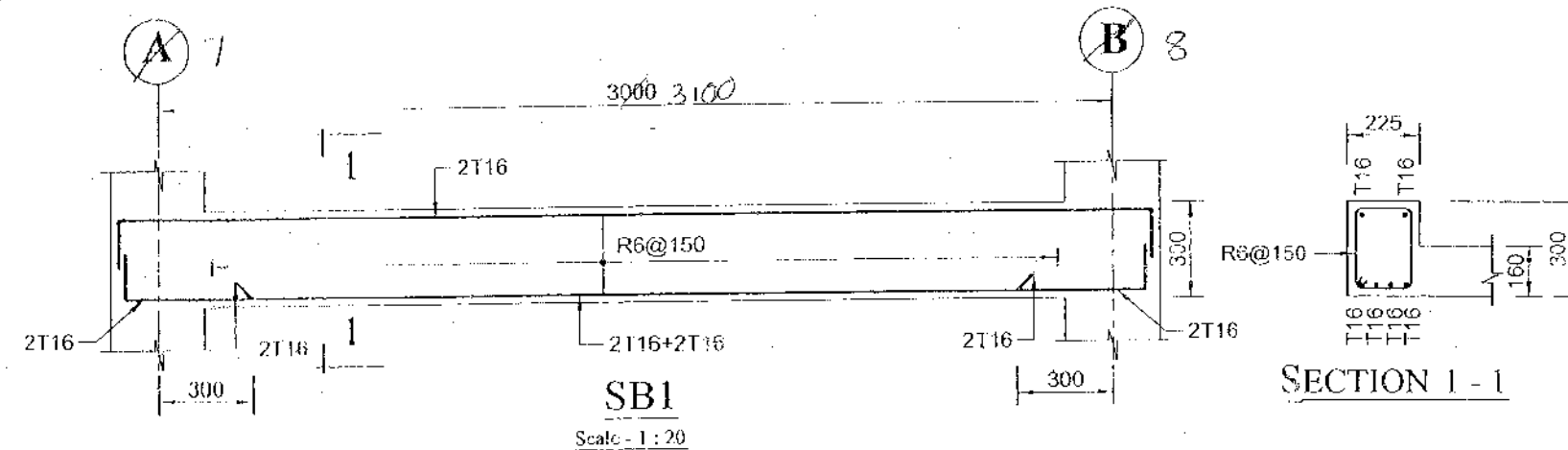
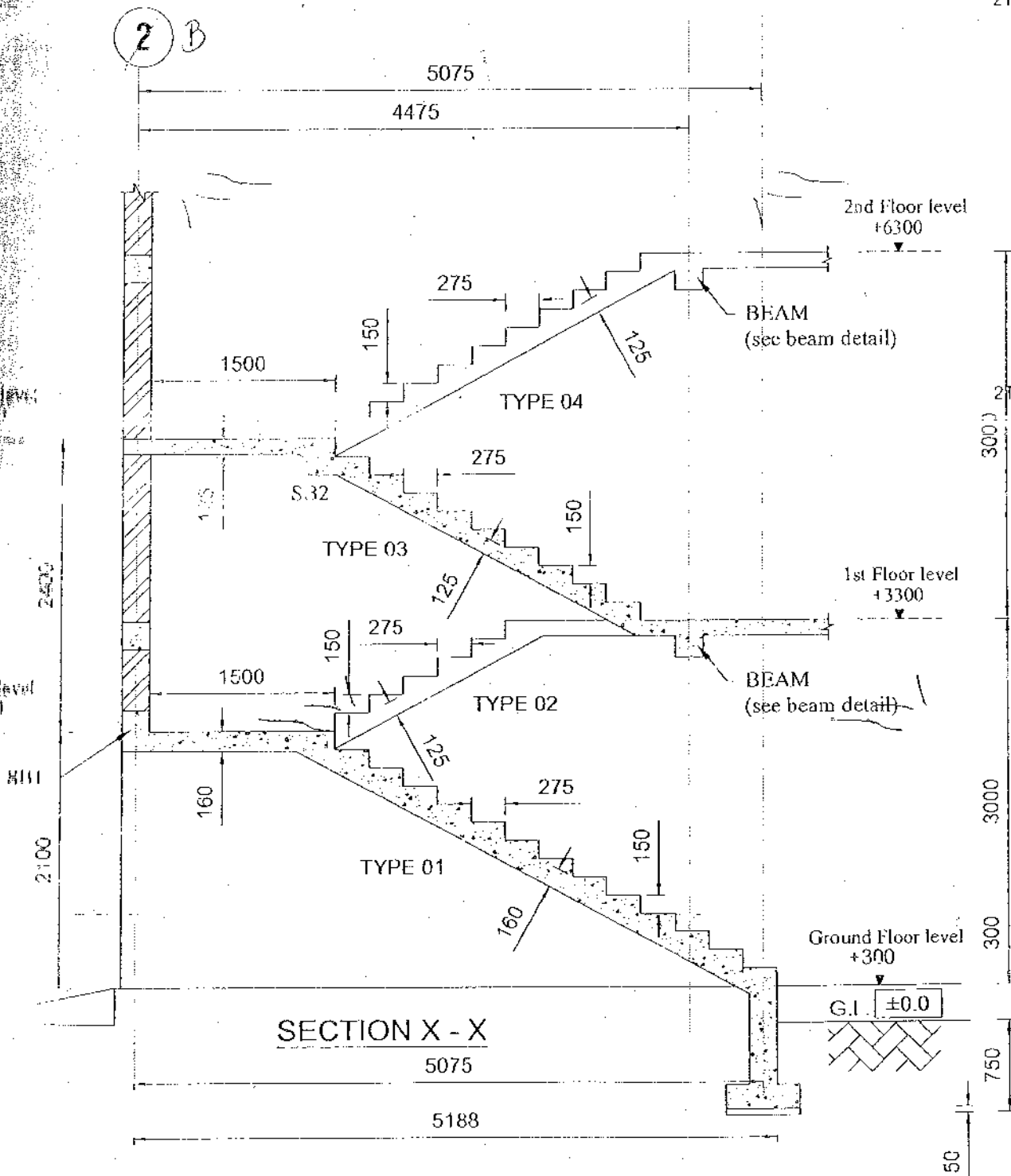
Title

LAYOUT OF STAIRCASE

Typical Standard Drg

SN - 04

115



All dimensions are in millimeters.

T - Tor steel
R - Mild steel
slg - Staggered
SFL - Structural floor level
T - Top face

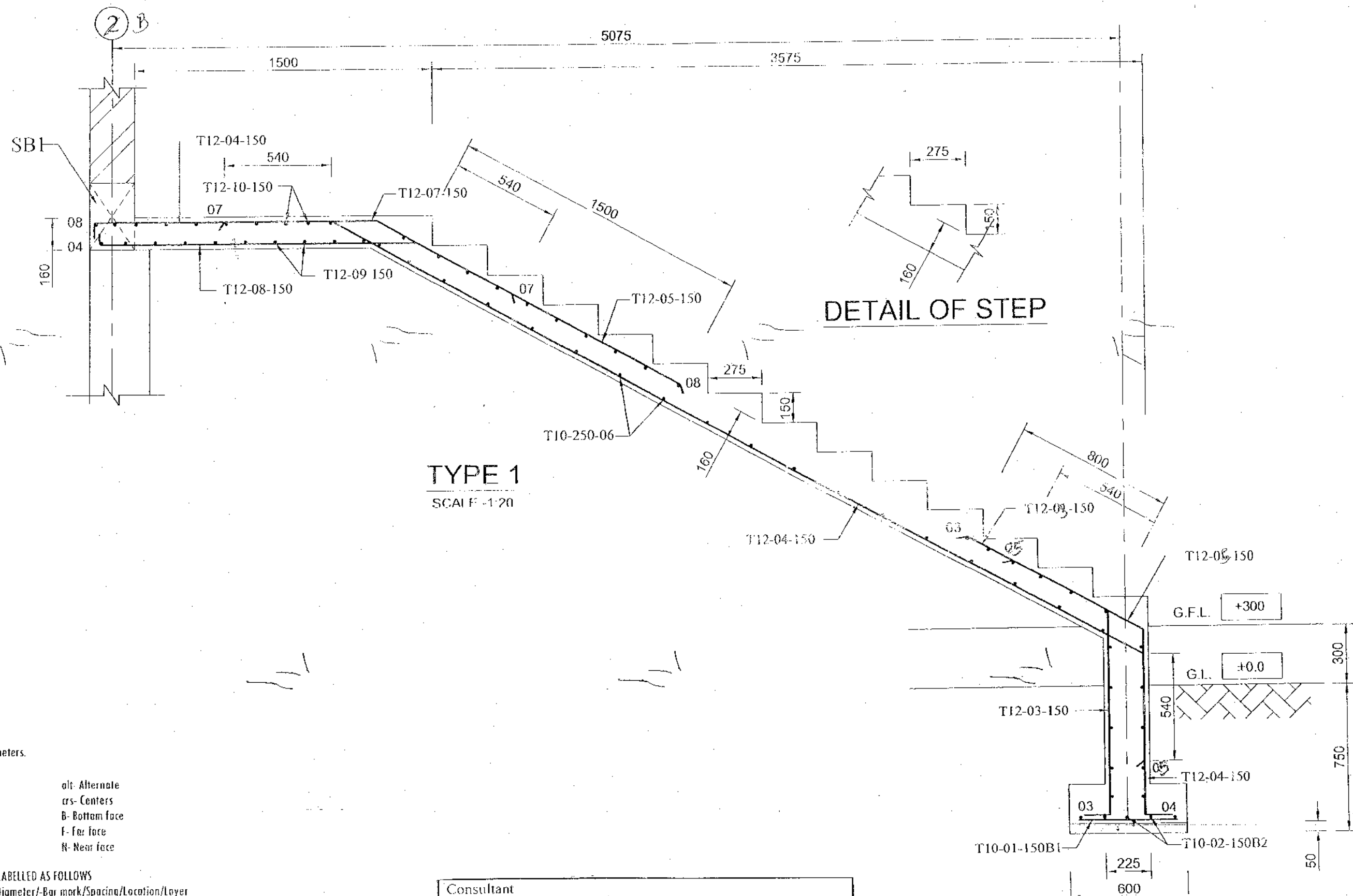
alt - Alternate
crs - Centers
B - Bottom face
F - Far face
N - Near face

REINFORCEMENT BARS ARE LABELLED AS FOLLOWS
NO of bars/Type of steel/Diameter/Bar mark/Spacing/Location/Layer
eg:- 10T10-07-150T1

CLEAR COVER TO MAIN REINFORCEMENT :-
Beams:- 25 mm Slabs/Stairs -20mm
Lap length of main r/f - 45 x diameter of the bar
All laps must be staggered

CHARACTERISTIC STRENGTH OF MATERIALS:-
Concrete -25N/mm²
Tor steel -High yield steel 500N/mm²

Consultant	
Project Management Unit – Ministry of Education	
Project	
12 CLASS ROOM BLOCK	
70'x25' (27.9mx7.5m)	
Kg/ Dehi/ Sri Kalaivani Tamil Vidyalyaya	
Title	Typical Standard Drg
SECTION X-X (STAIRWAY) & DETAIL OF STAIRWAY	SN - 05 116



All dimensions are in millimeters.

T - Top steel
 B - Bottom steel
 S - Staggered
 SFL - Structural floor level
 F - Far face
 N - Near face
 alt - Alternate
 crs - Centers
 B - Bottom face
 F - Far face
 N - Near face

REINFORCEMENT BARS ARE LABELLED AS FOLLOWS

NO of bars / (Type of steel / Diameter / Bar mark / Spacing / Location / Layer)
 eg: 10/10 07-150/1

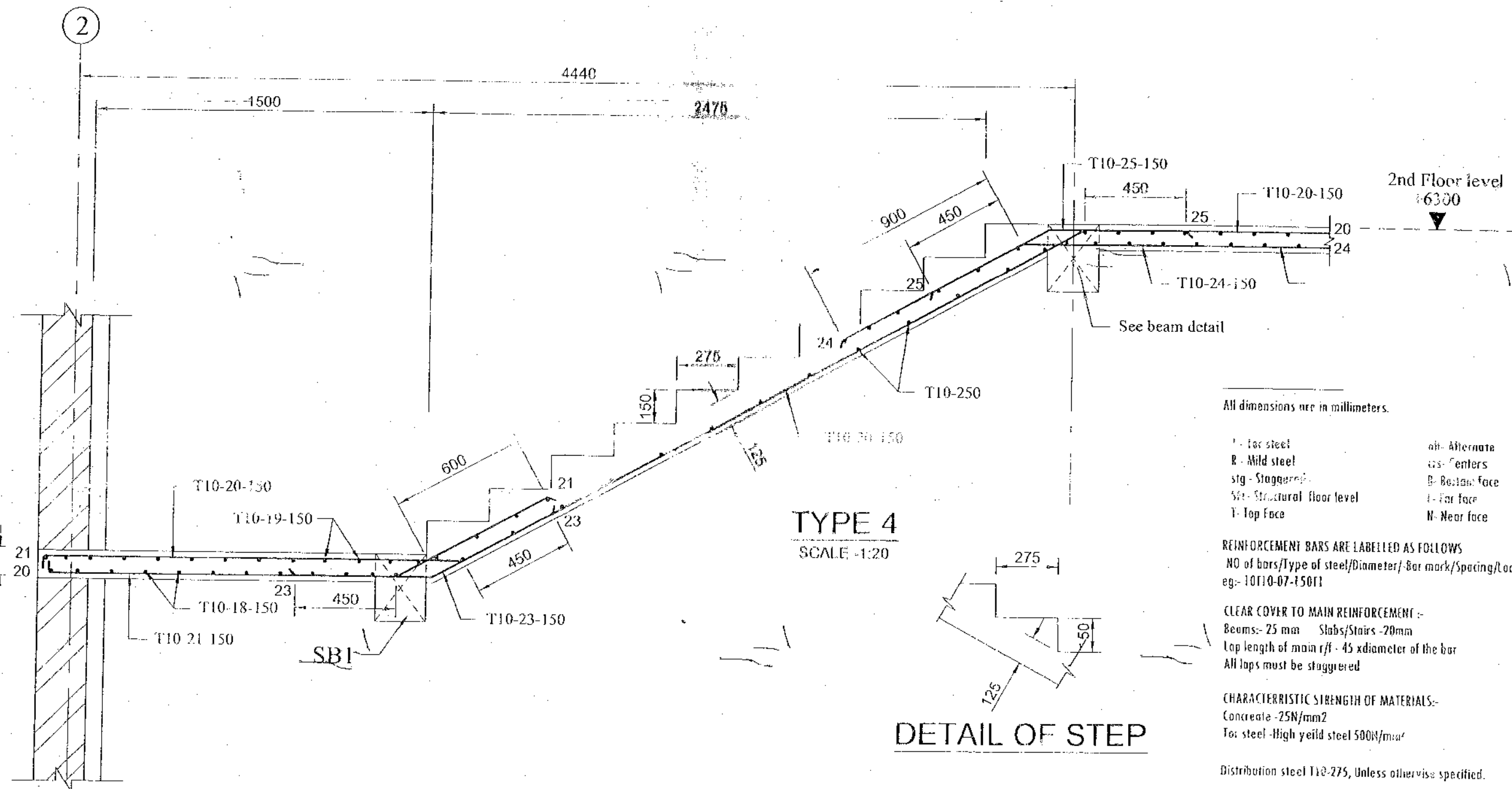
MINIMUM COVER TO MAIN REINFORCEMENT:-

Bottom: 25 mm
 Slabs/Stairs: 20 mm
 Top length of main r/f - 45 x diameter of the bar
 All laps must be staggered

CHARACTERISTIC STRENGTH OF MATERIALS:-

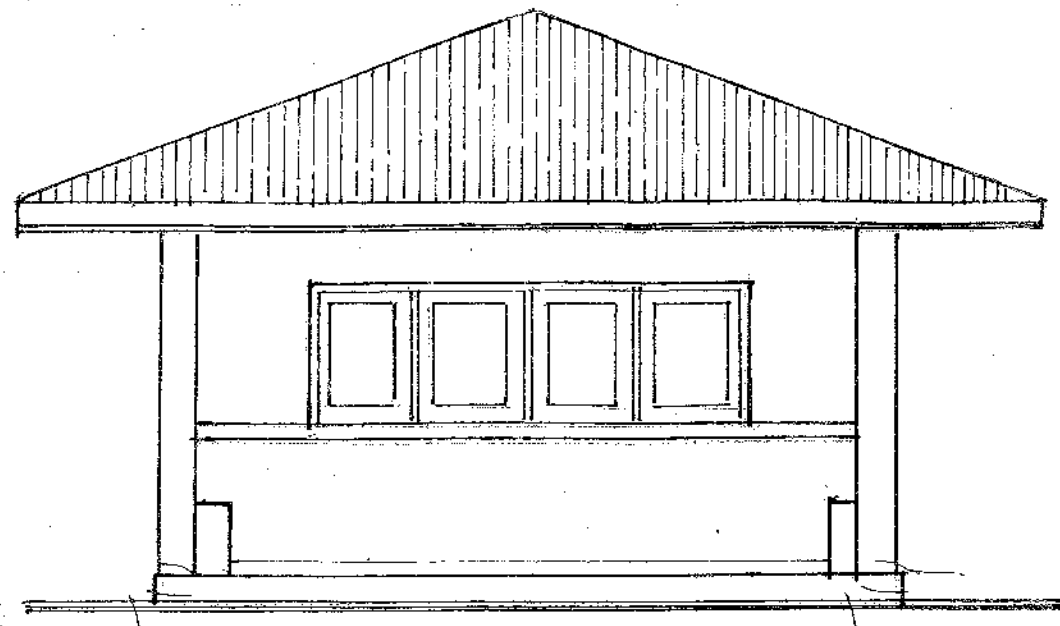
Concrete: 25 N/mm²
 For steel: High yield steel 500 N/mm²

Consultant	
Project Management Unit - Ministry of Education	
Project	
12 CLASS ROOM BLOCK	
70'x25' (27.9mx7.5m)	
Kg/ Dehi/ Sri Kalaiyani Tamil Vidyalaya	
Title	Typical Standard Drg
REINFORCEMENT DETAIL OF	SN - 06
STAIRWAY (TYPE - I)	

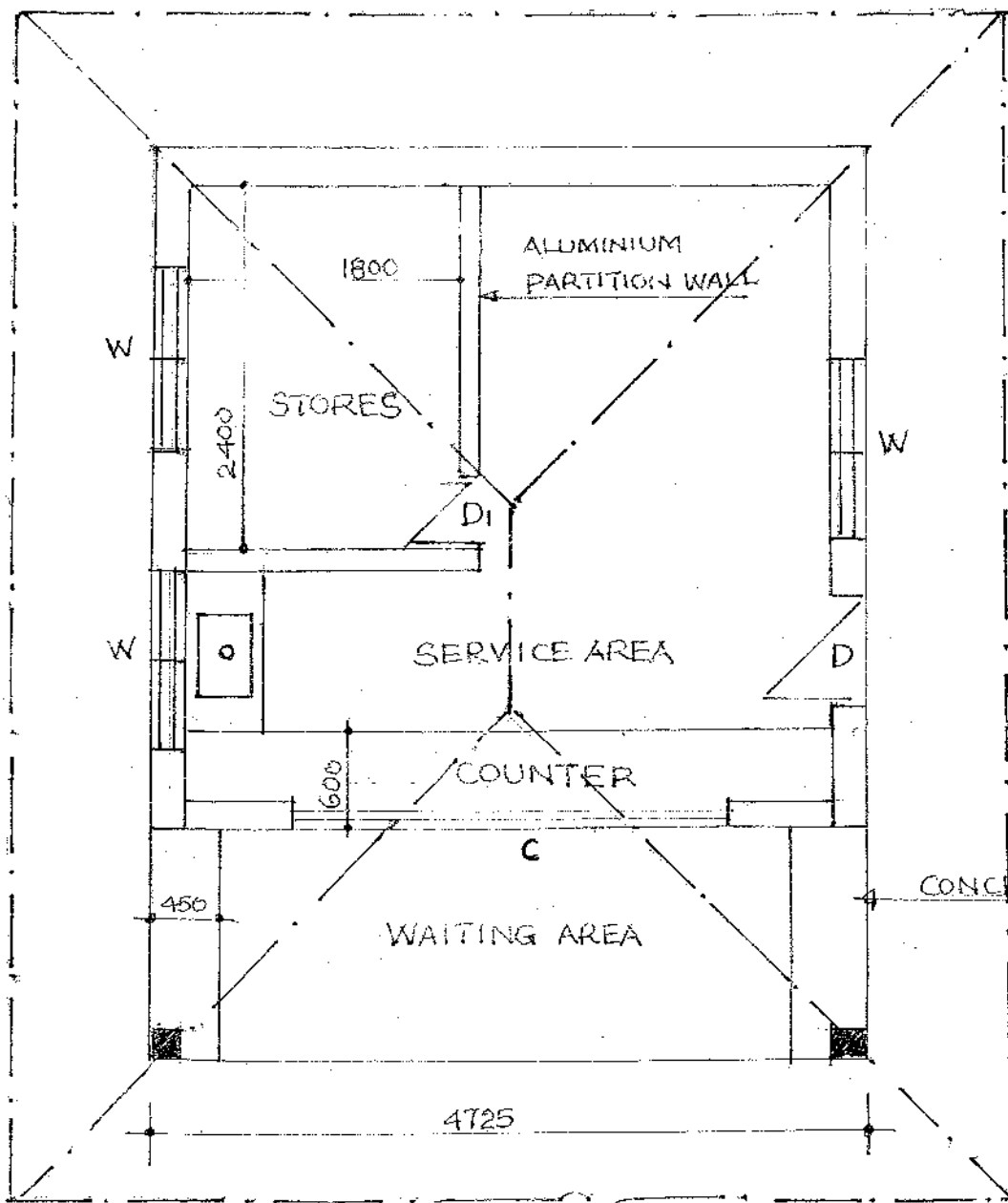


DETAIL OF STEP

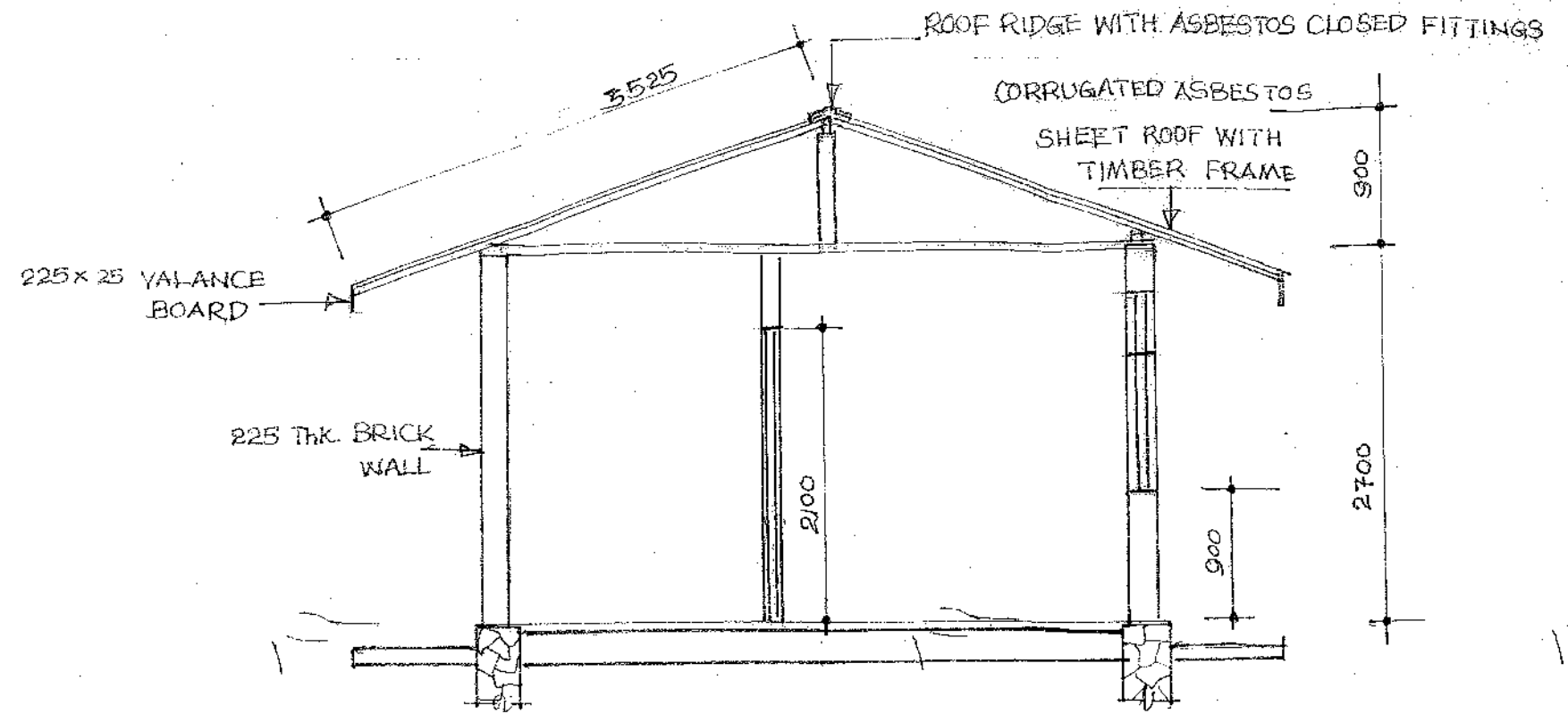
Consultant	
Project Management Unit - Ministry of Education	
Project	
12 CLASS ROOM BLOCK	
70'x25' (27.9mx7.5m)	
Kg/ Dehi/ Sri Kalaivani Tamil Vidyalyaya	
Title	Typical Standard Dig
REINFORCEMENT DETAIL OF	SN - 08
STAIRWAY (TYPE -4)	



FRONT ELEVATION

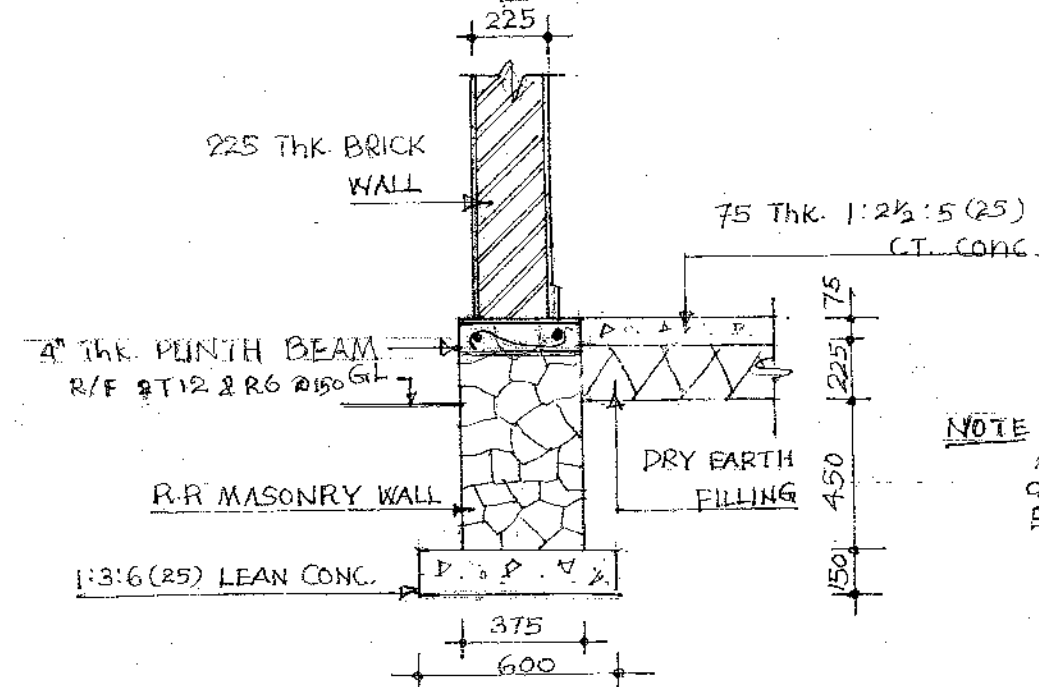


PLAN



SECTION A-A

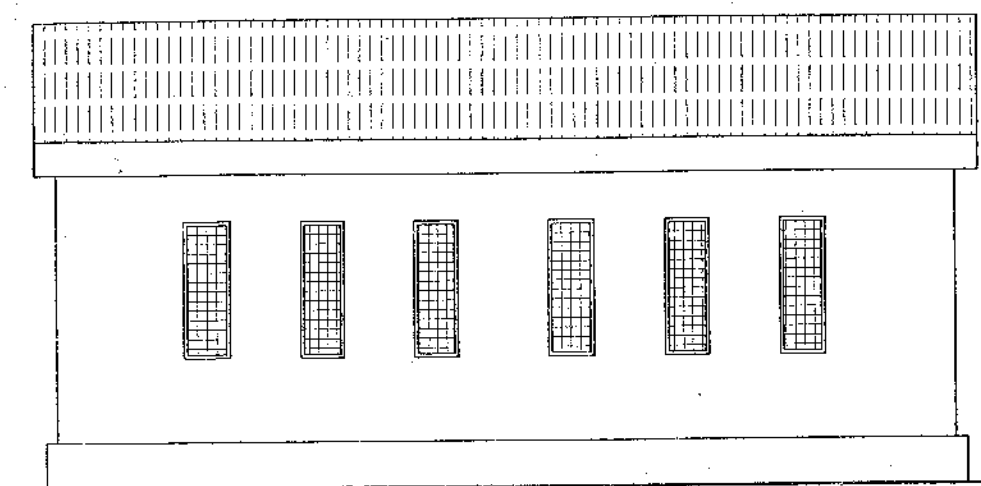
SCHEDULE OF OPENINGS			
TYPE	SIZE	DESCRIPTION	NOS.
D	900 x 2100	ALUMINIUM DOOR	01
D ₁	750 x 2100	ALUMINIUM DOOR	01
W	1200 x 900	ALUMINIUM GLAZED WINDOW	03
C	2700 x 900	STEEL COUNTER DOOR	01



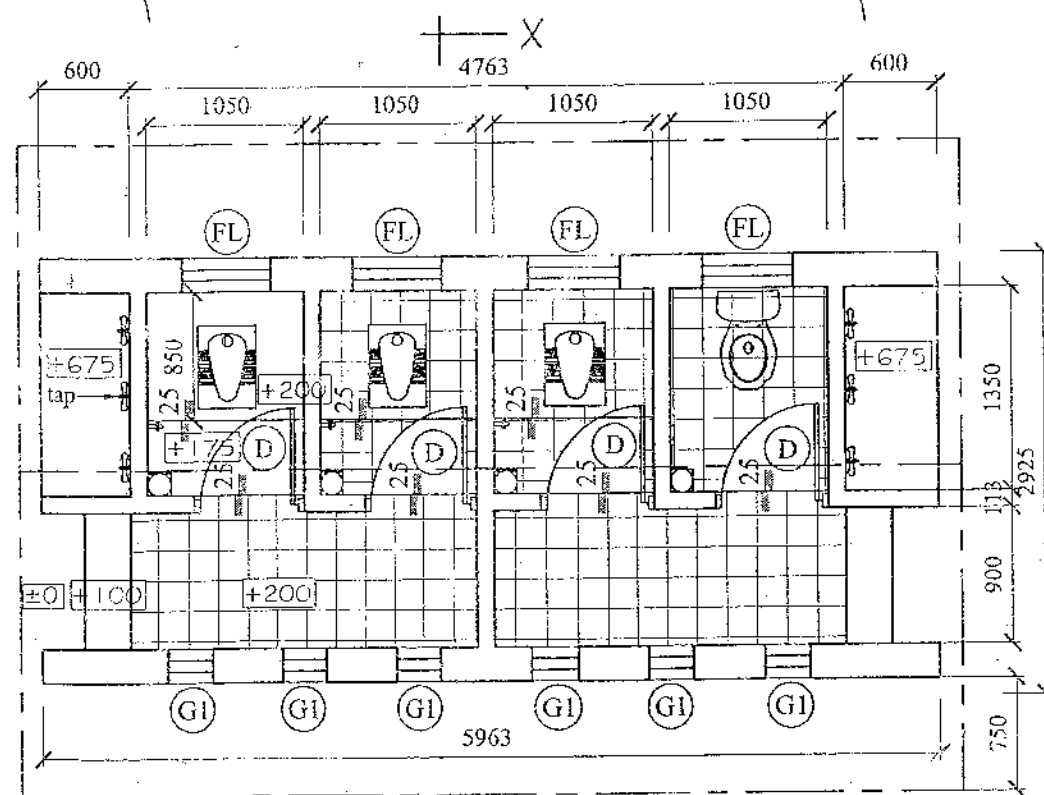
NOTE
All necessary shop drawings to be submitted for Engineers approval.

DETAIL OF 225 THICK BRICK WALL FOUNDATION

TITLE	PROPOSED CAFETERIA
SKETCH NO	ED/09/NSBS/181/SG/P/33/ND2
SKETCH BY	DRCE DENAWATTA



FRONT ELEVATION



FLOOR PLAN

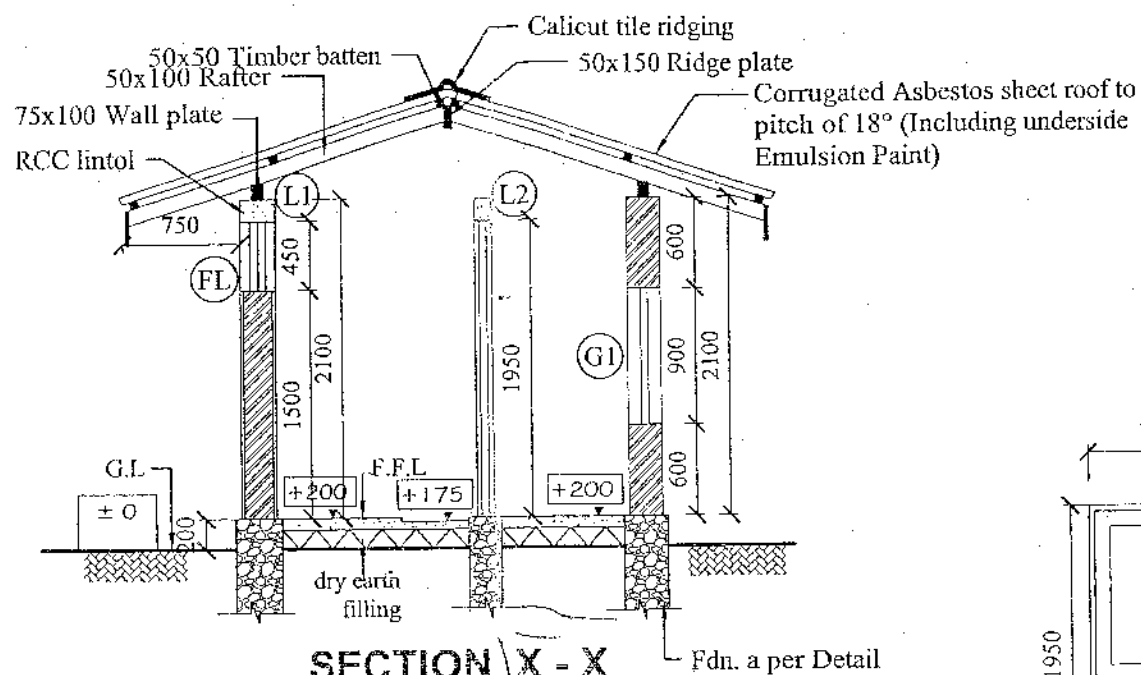
Scale - 1 : 50
Floor area - 16.83 Sqm.

NOTE :-

Plinth beam should be added for wall foundation if necessary according to site condition.

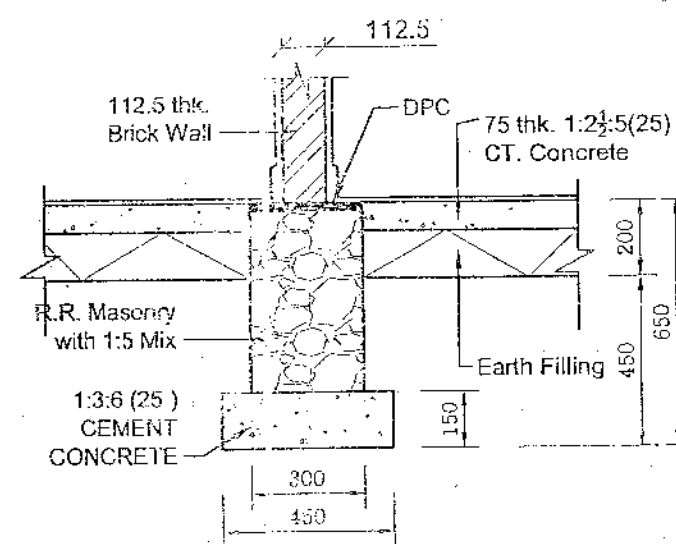
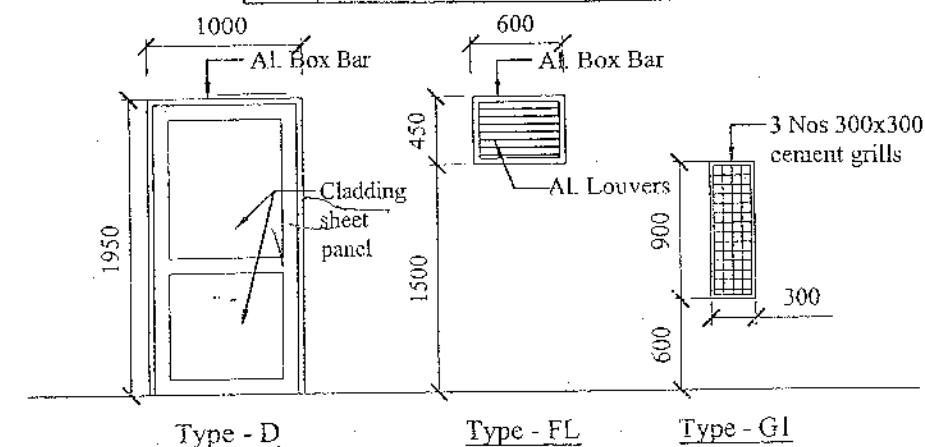
Lintol L1 is 225x150 reinforced with 2nos T10 bars & R6 links @ 150crs.(for 225 Wall Brick)

Lintol L2 is 112.5 x150 reinforced with 2nos T10 bars



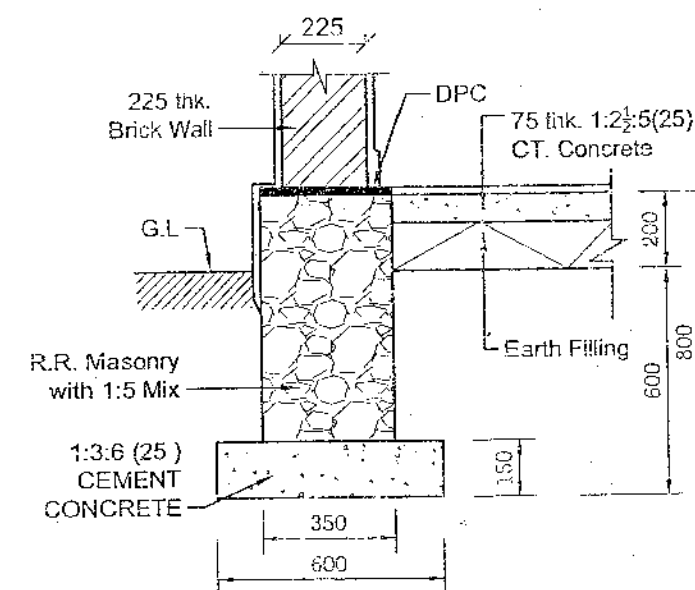
SECTION X - X

SCHEDULE OF OPENINGS			
TYPE	SIZE	DESCRIPTION	NOs
D	1000 x 1850	Aluminium Box Barframed & cladding sheet panelled door	04
FL	600 x 450	Aluminium Louver panel	04
G1	300 x 900	Cement grill work	06



DETAIL OF 112.5 THICK BRICK WALL FOUNDATION

Scale - 1 : 20



DETAIL OF 225 THICK BRICK WALL FOUNDATION

Scale - 1 : 20

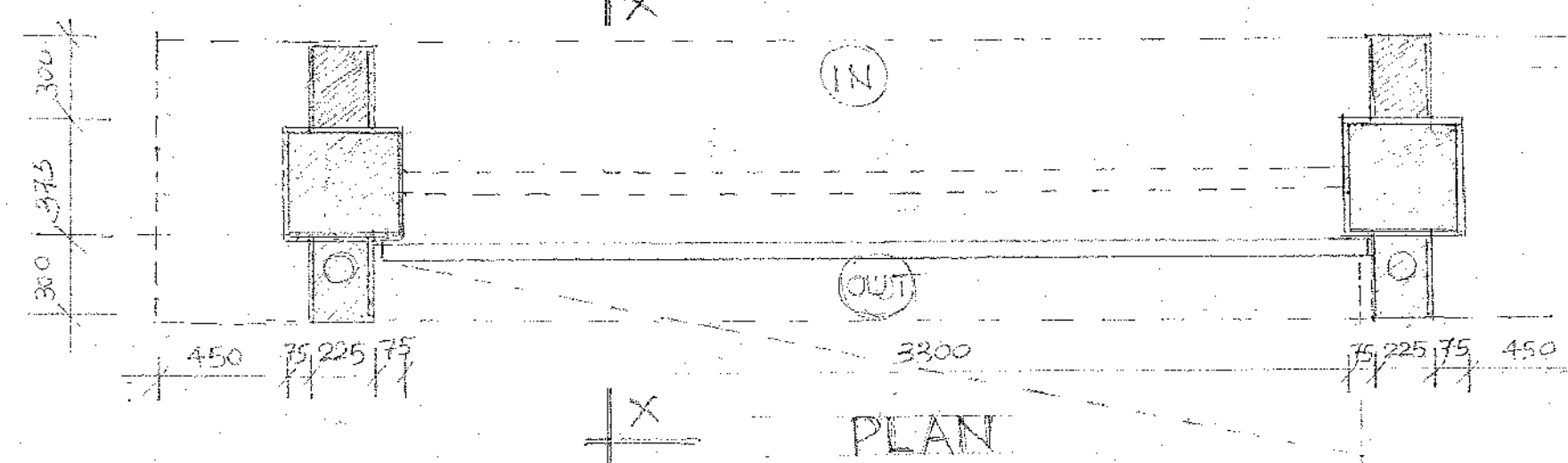
TITLE	PROPOSED TOILET BLOCK	
SKETCH NO	ED/09/NSBS/181/SG/P/35	[NO. 224]
SKETCH BY.	G. R. A. KEERTHI	
DATE	2018 - 07 - 19	123

KG/DEHI/SRI KALEIVANI TAMIL VIDYALAYA

SCHOOL
LOGO

FRONT ELEVATION

NOTE
All necessary shop
drawings to be submitted
for Engineer's approval



PLAN

75mm THICK RCC SLAB WITH EACIA R/F T10 @ 200 B/W

300x225 RCC COLUMN
R/F WITH 6T12 &
R6 @ 150 C/C

15mm THICK RCC NAME
ARCH BOARD WITH
GRANITE PLATE WORK

375x375 RCC COLUMN
R/F WITH 4T16 & 4T12
R6 @ 150 C/C

LIGHT WEIGHT
HEAVY DUTY BOX
IRON GATE WITH
LOCKING SYSTEM

SECTION X-X

300x225
RCC COLUMN

375x375
RCC COLUMN

T10 @ 150 c/c B/W
2T12

4T16
4T12
R6 @ 150 c/c

DETAIL OF
COLUMN
FOOTING

TITLE	PROPOSED MAIN GATE
SKETCH NO	ED/09/NSBS/18/SG/P/128
SKETCH BY	DRSF DENAWATTA
DATE	10-07-2020