



HIGH COMMISSION OF INDIA

BIDDING DOCUMENT

FOR

**CONSTRUCTION OF 90'x30' THREE STORIED CLASS ROOM AND
ADMINISTRATION BUILDING, REPAIR WORKS, CONSTRUCTION OF TYPE 12
TOILET UNIT FOR CP/KOT/VIGNESHWARA T.M.V AT KATUKITHULA,
KOTHMALE**

CONTRACT NO: COL/DC/228/03/2018 - 6

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Invitation for Bids
High Commission of India
Grant Number: COL/DC/228/03/2018 - 6

**Construction of 90'x30' Three Storied Class Room and Administration Building,
Repair Works, Construction of Type 12 Toilet Unit for CP/KOT/Vigneshwara T.M.V
at katukithula, Kothmale**

1. The Counsellor (Development Cooperation), on behalf of the High Commission of India invites sealed bids from eligible and qualified bidders for **Construction of 90'x30' Three Storied Class Room and Administration Building, Repair Works, Construction of Type 12 Toilet Unit for CP/KOT/Vigneshwara T.M.V at katukithula, Kothmale** at an estimated cost of **Rs.36.6 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, Colombo 03

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, Colombo 03

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 90'x30' Three Storied Class Room and Administration Building, Repair Works, Construction of Type 12 Toilet Unit for CP/KOT/Vigneshwara T.M.V at katukithula, Kothmale**

Contract No: COL/DC/228/03/2018 - 6

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) As 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 90'x30' Three Storied Class Room and Administration Building, Repair Works, Construction of Type 12 Toilet Unit for CP/KOT/Vigneshwara T.M.V at katukithula, Kothmale</p>
(1.2)	<p>Intended Completion Date is 365 calendar days</p>
(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)	<p>The source of funds is Government of India</p>
(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 Specialty 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.55Million * 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

	<ul style="list-style-type: none"> • Technical officer 02 nos. having of NDT (Civil) or equivalent with 05 years experience or NCT (civil) or equivalent with 10 years 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.12 Million. Credit/Overdraft facility should be issued by the Bank exclusively for this project</p>
(9.1)	<p>Employer's address for the purpose of clarification is</p> <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.732,949.36</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 No. 36-38, Galle Road, Colombo 03</p>
(19.2)b	<p>Contract Name:</p> <p>Construction of 90'x30' Three Storied Class Room and Administration Building, Repair Works, Construction of Type 12 Toilet Unit for CP/KOT/Vigneshwara T.M.V at katukithula, Kothmale</p> <p>Contract no. COL/DC/228/03/2018 - 6</p>
(20.1)	<p>The deadline for submission of Bids shall be 16 November 2020</p>
(34.0)	<p>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</p>
(36.0)	<p>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.</p>

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 (Central Province)</p> <p>Address : Project Engineer's Office (NSBS) „NSBS' Project, Mahaweli National College of Education, Polgolla, Kandy. TP. 081-2497027</p>
(1.1)	<p>The works consists of</p> <p>Construction of 90'x30' Three Storied Class Room and Administration Building, Repair Works, Construction of Type 12 Toilet Unit for CP/KOT/Vigneshwara T.M.V at katukithula, Kothmale</p>
(1.1)	<p>The Site is located at CP/KOT/Vigneshwara T.M.V at katukithula, Kothmale</p>
(1.1)	<p>The Start Date shall be 14Days from the Letter of Acceptance</p>
(8.1)	<p>None</p>
(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)	<p>The retention from each payment shall be 10% of the certified work done.</p> <p>The limit of retention shall be 5% of the Initial Contract Price.</p>
(48.3)	Not Applicable (Retention Money Guarantee)
(49.1)	The liquidated damages for the whole of the Works shall 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)	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.
(60.1)	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.
(63.7)	The attendance fee payable to the Contractor on nominated sub contract work shall be not exceed 8%

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 and repair works. 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 90'x30' Three Storied Class Room and Administration Building</u>	
1	Front elevation and Ground floor plan	CPC/CS/11/07/01/2012/PLAN-1
2	Footing detail	
3	Layout plan of plinth beam	
4	Plinth beam	
5	Layout plan of beams	
6	Beam details	
7	Reinforcement detail of 1st and 2nd Floor slabs	ST-02
8	Staircase detail	
9	Detail of Truss – TR1	CPC/CS/11/04/2016/TSC/COLD/CS-07
10	Detail of “A” & “B”	CPC/CS/11/04/2016/TSC/COLD/CS-07
11	Detail of Cleat	

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, Colombo 03

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 90'x30' Three Storied Class Room and Administration Building, Repair Works, Construction of Type 12 Toilet Unit for CP/KOT/Vigneshwara T.M.V at katukithula, Kothmale					
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			83,500.00
A-02	Allow lump sum for Insurance of Property, Material, Equipment ,Works at site, third party Employer's personnel, property at site and against accidents and injury to workmen.	P.sum			30,000.00
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 90'x30' Three Storied Class Room and Administration Building for CP/KOT/Vigneshwara T.M.V at katukithula, Kothmale					
Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	DEMOLITION				
1	Removing asbestos ceiling including timber framework, stacking serviceable materials and debris cleared away. in single storied building.	m ²	95.00		
2	Removing & stacking partitions, weld mesh, shelves from existing walls.	m ²	10.00		
3	Demolishing and clearing debris of 225mm wide drain in brick masonry.	m	225.00		
4	Demolishing & clearing debris away of floor paving brick, concrete or rubble inclusive of rendering..	m ²	395.00		
5	Removing and stacking trusses steel or timber 9.1m (30 L.ft) of span from single storied building.	nr	4.00		
6	Demolishing bricks walls above 225mm thick inclusive of plaster and any fixtures including debris cleared away.	m ³	155.00		
7	Removing & stacking Ridges, asbestos or tile.	m	35.00		
8	Demolishing & clearing tiled, glazed floor or wall.	m ²	75.00		
9	Removing & stacking door or window size up to 4.0m2 from existing walls.	nr	26.00		
10	Removing & clearing debris away tiled roof with frame work inclusive of wiring and fixtures, gutters, valance boards etc., stacking serviceable materials and debris cleared away in single storied buildings.	m ²	71.00		
11	Demolishing rubble masonry in cement and sand inclusive of plaster and any fixtures, rubble stacked and removing debris .	m ³	23.00		
12	Demolishing reinforced concrete walls, beams or slabs up to first floor and debris cleared away.	m ³	0.80		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
13	Removing & clearing debris away Corrugated sheets, iron, asbestos or aluminium alloy from roof including frame work inclusive of wiring and fixtures, gutters, valance boards etc.. in single storied buildings.	m ²	50.00		
Total Amount carried to Summary - 1					

**Bills of Quantities for Construction of 90'x30' Three Storied Class Room and Administration Building for
CP/KOT/Vigneshwara T.M.V at katukithula, Kothmale**

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	Ground Floor				
	EXCAVATION AND EARTHWORK				
1	Earth excavation in levelling site inclusive of haulage up to 30m. (machine cutting only) in ordinary soil.	m ³	66.50		
2	Excavation in wells / pits in normal earth up to depth of 1.5m inclusive of backfilling behind wall / ring and disposal of surplus earth, rate excluding for shoring.	m ³	37.50		
3	Filling earth and compacting (as approved by Engineer) 150mm layers under floors. Rate includes for transport of 30 m.	m ³	76.00		
4	Sand filling under foundations. (As a cushion)	m ³	19.00		
	CONCRETE WORKS				
5	Mixing and placing in position concrete grade 20, nominal mix 1:2:4 (20mm) using a concrete mixer including fuel / operator / handling/vibrator.	m ³	179.00		
6	Mixing and placing in position concrete 1:3:6 (40mm) using a concrete mixer including fuel / operator / handling.	m ³	5.25		
7	Floor concrete with 1:2 1/2:5(25mm) 62mm thick, 1:3 normal cement and sand rendering finished smooth with expansion joints filled with 1:2 bitumen and sand. Rate including for curing, compacting ground and laying polythene sheets under the concrete.	m ²	226.00		
8	Tor steel reinforcement bend to shape laid in position and tied with G.I. wire as directed.Including spaces & chairs.	kg	8,210.00		
9	Mild steel reinforcement bend to shape laid in position and tied with G.I. wire as directed.Including spaces & chairs.	kg	875.00		
10	Sawn timber formwork in class III timber for columns ground floor.	m ²	77.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
11	Sawn timber form work in class III timber for ground floor slabs.	m ²	280.00		
12	Sawn timber form work in class III timber for concrete beams.	m ²	122.00		
13	Sawn timber formwork in class III timber for ground concrete work,at ground level plinth beams,lintols etc.	m ²	165.00		
14	Drain 225mm X 150mm (average depth) concrete 1:2 1/2:5 (25mm) 75mm thick, provide expansion joints at 3000mm crs 12mm thick , 1:3 cement, sand rendering finished smooth, including necessary excavation, form work, laying polythene membrane under concrete and laid to required slope.	m	10.00		
15	Drain 225mm x 450mm(average depth) concrete 1:2 1/2:5 (25mm) 75mm thick, provide expansion joints at 3000mm crs 12.5mm thick , 1:3 cement, sand rendering finished smooth, including necessary excavation, form work, laying polythene membrane under concrete and laid to required slope.	m	41.00		
16	750mm wide ramp and 225mm X 150mm(average depth) drain in 1:2 1/2:5(25mm) concrete 75mm thick with 1:3 plaster finished smooth, including necessary excavation, form work, providing expansion joints at 3000mm crs and laying polythene membrane under concrete and laid to required slope.	m	5.50		
17	Supplying and fixing 300x300 m2 cement grill opening using cement grout to fix below the window sill level for ventilation circulation purpose. Rate shall include for doubling ech aria by fixing 2nos of cement grill with 25 number of holes in each cement grill sand wich with heavy gauge mosquitos net for protection purpose	m ²	13.00		
18	Cement Concrete Coping in 1:2:4 (20mm) Concrete Mixture and R/F with 6mm Mild steel including From work and 1:3 Cement mortar, finish smooth	m	6.10		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	MASONRY WORKS				
19	Brick work in 1:8 cement sand mortar 225mm thick (Nominal) in super structure in ground floor.	m ³	21.00		
20	Masonry block work 100mm thick (Nominal) in walls in cement and sand 1:5 mortar using hollow blocks made of cement and sand to the proportion of 1:10, confirming to compressive strength not less than 2N/mm2 in ground floor.	m ²	81.00		
21	Masonry block work 200mm thick (Nominal) in cement and sand 1:5 mortar using hollow blocks made of cement and sand to a proportion of 1:10, confirming to compressive strength not less than 2N/mm2 in ground floor.	m ²	87.00		
	METAL WORK				
22	Supply and Fixing Roller door	P.sum			100,000.00
23	Supplying & fixing brass barrel bolts 150mm with brass screws.	nr	82.00		
24	Fabricating and fixing Anodized Aluminium hinged type sash door with aluminium architectural sections with 10 - 15 micron coating glazed and panelled with 4mm cladding board .including door lock etc.(The used sections are -100D 3105, 100D 103, 100D 101, 100D 201, 100D301, 100D 401, 100D 501, 70SM 1011)	m ²	3.80		
25	Fabricating and fixing Anodized aluminium glazed window with openable sash with aluminium architectural sections with 10 - 15 micron coating glazed 4.6 mm thick glass including all necessary rubber beading, rawl plug etc.(The used sections are CA 1009, CA 1010, CA 2005, 70SM 1011)	m ²	39.00		
26	Fabricating and fixing Anodized Aluminium hinged type sash door with aluminium architectural sections with 10 - 15 micron coating glazed and panelled with 4mm cladding board .including door lock etc.(The used sections are -100D 3105, 100D 103, 100D 101, 100D 201, 100D301, 100D 401, 100D 501, 70SM 1011)	m ²	3.80		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
27	Fabricating and fixing Anodized aluminium glazed window with openable sash with aluminium architectural sections with 10 - 15 micron coating glazed 4.6 mm thick glass including all necessary rubber beading, rawl plug etc.(The used sections are CA 1009, CA 1010, CA 2005, 70SM 1011)	m ²	39.00		
	ELECTRICAL INSTALLATIONS				
28	Pendent type lamp point wiring - to be carried out with 2 x 1.0 mm ² PVC insulated PVC sheathed copper cables wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order .	nr	18.00		
29	5 A socket outlet - point wiring to be carried out with 2 x 1.0 mm ² PVC insulated PVC sheathed copper cables and 2.5 mm ² earth cable wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order.	nr	4.00		Deleted
30	13 A socket outlet to be controlled by 20A D/pole switch with neon indicator - point wiring to be carried out with 2 x 2.5 mm ² PVC insulated PVC sheathed copper cables and 2.5 mm ² earth cable wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order.	nr	8.00		
31	Supply and installation of 2 x 6 mm ² Cu/PVC/PVC cables concealed in casing.	m	10.00		
32	Supply and installation of 7 W LED Globe in working order (Efficacy shall be equal or greater than 80 lm / W).	nr	18.00		
33	Supply and installation of 5 A socket outlet in working order .	nr	4.00		Deleted
34	Supply and installation of 13 A socket outlet in working order .	nr	8.00		
35	Supply and installation of 4 feet Cu earth electrode with 16mm diameter and other accessories in working order.	nr	1.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
36	Supply and installation of 6 way single phase distribution board including 32 A 2P Isolator , 40A 2P RCD (30mA) , 02 nos. single pole M.C.B s.	nr	1.00		
	FLOOR / WALL / CEILING FINISHES				
37	Black board plastering with 1:3 cement and sand finished smooth with black cement floating including moulding at perimeter 20mm thick.	m ²	11.05		
38	16mm thick 1:1:5 cement, lime and sand plastering to walls finished smooth with lime putty.	m ²	405.00		
39	1:1:5 cement, lime and sand plaster reveals 35mm to 150mm wide finished smooth with lime putty.	m	300.00		
40	Cement and sand 1:3 plaster finished smooth with lime putty on exposed faces of concrete surfaces and soffits, 10mm thick.	m ²	302.00		
41	16mm thick cement, lime and sand 1:1:5 plaster finished semi-rough with wooden float.	m ²	193.00		
42	1:1:5 cement, lime and sand plaster to reveals 35mm to 150mm wide finished semi-rough.	m	385.00		
43	20mm thick damp proof course in 1:2 cement and sand trowelled smooth and applied two coats of hot tar, blinded with sand.	m ²	24.90		
44	Plinth plaster 12mm thick in 1:3 cement and sand finished smooth with coloured cement floating.	m ²	22.00		
45	Rendering cement and sand 1:3, 20mm thick, finished smooth with grey cement floating.	m ²	50.00		
46	100mm high skirting in cement and sand 1:3 finished smooth with coloured cement including forming groove.	m	169.00		
	PAINTING				
47	Preparing and applying one coat of alkali resisting primer and two coats of emulsion paint to walls.	m ²	682.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
48	After cleaning and preparing surface and applying two coats of enamel paint.	m ²	1.90		
49	After cleaning and preparing surface and applying two coat of floor paint.	m ²	49.00		
50	After cleaning and preparing on external surfaces and applying two coat of exterior paint.	m ²	255.00		
Total Amount carried to Summary - 1					
1ST FLOOR					
CONCRETE WORKS					
51	Mixing and placing in position concrete grade 20, nominal mix 1:2:4 (20mm) using a concrete mixer including fuel / operator / handling/vibrator.	m ³	126.00		
52	Tor steel reinforcement bend to shape laid in position and tied with G.I. wire as directed. Including spaces & chairs.	kg	6,800.00		
53	Mild steel reinforcement bend to shape laid in position and tied with G.I. wire as directed. Including spaces & chairs.	kg	714.00		
54	Sawn timber formwork in class III timber for columns.	m ²	60.00		
55	Sawn timber form work in class III timber for slabs.	m ²	276.00		
56	Sawn timber form work in class III timber for concrete beams.	m ²	120.00		
57	Sawn timber formwork in class III timber for ground concrete work lintols etc.	m ²	37.50		
58	Supplying and fixing 300x300 mm2 cement grill opening using cement grout to fix below the window sill level for ventilation circulation purpose. Rate shall include for doubling ech aria by fixing 2nos of cement grill with 25 number of holes in each cement grill sand wich with heavy gauge mosquitos net for protection purpose	m ²	13.00		
59	Cement Concrete Coping in 1:2:4 (20mm) Concrete Mixture and R/F with 6mm Mild steel including From work and 1:3 Cement mortar,finish smooth	m	6.10		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	MASONRY WORKS				
60	Brick work in 1:8 cement sand mortar 225mm thick (Nominal)in super structure.	m ³	23.00		
61	Masonry block work 100mm thick (Nominal) in walls in cement and sand 1:5 mortar using hollow blocks made of cement and sand to the proportion of 1:10, confirming to compressive strength not less than 2N/mm2.	m ²	81.00		
62	Masonry block work 200mm thick (Nominal) in cement and sand 1:5 mortar using hollow blocks made of cement and sand to a proportion of 1:10, confirming to compressive strength not less than 2N/mm2.	m ²	87.00		
	METAL WORK				
63	Fabricating & fixing Special security grill fixed for windows complete with perimeter & either side of middle opening frame in 16mm x 5mm M.S flat & 6mm dia.MS bars at 100mm c/c diagonally ,properly welded & fixed to walls with rawl plugs, screws inclusive of two coats of enamel paint on two coats of anticorrosive paint.	m ²	87.00		
64	Fabricating and fixing Anodized Aluminium hinged type sash door with aluminium architectural sections with 10 - 15 micron coating glazed and panelled with 4mm cladding board .including door lock etc.(The used sections are -100D 3105, 100D 103, 100D 101, 100D 201, 100D301, 100D 401, 100D 501, 70SM 1011)	m ²	3.80		
65	Fabricating and fixing Anodized aluminium glazed window with openable sash with aluminium architectural sections with 10 - 15 micron coating glazed 4.6 mm thick glass including all necessary rubber beading, rawl plug etc.(The used sections are CA 1009, CA 1010, CA 2005, 70SM 1011)	m ²	44.50		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	ELECTRICAL INSTALLATIONS				
66	Pendent type lamp point wiring - to be carried out with 2 x 1.0 mm ² PVC insulated PVC sheathed copper cables wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order .	nr	18.00		
67	5 A socket outlet - point wiring to be carried out with 2 x 1.0 mm ² PVC insulated PVC sheathed copper cables and 2.5 mm ² earth cable wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order.	nr	4.00		Deleted
68	13 A socket outlet to be controlled by 20A D/pole switch with neon indicator - point wiring to be carried out with 2 x 2.5 mm ² PVC insulated PVC sheathed copper cables and 2.5 mm ² earth cable wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order.	nr	8.00		
69	Supply and installation of 2 x 6 mm ² Cu/PVC/PVC cables concealed in casing.	m	6.00		
70	Supply and installation of 7 W LED Globe in working order (Efficacy shall be equal or greater than 80 lm / W).	nr	18.00		
71	Supply and installation of 5 A socket outlet in working order .	nr	4.00		Deleted
72	Supply and installation of 13 A socket outlet in working order .	nr	8.00		
73	Supply and installation of 4 feet Cu earth electrode with 16mm diameter and other accessories in working order.	nr	1.00		
74	Supply and installation of 6 way single phase distribution board including 32 A 2P Isolator , 40A 2P RCD (30mA) , 02 nos. single pole M.C.B s.	nr	1.00		
	FLOOR / WALL / CEILING FINISHES				
75	Black board plastering with 1:3 cement and sand finished smooth with black cement floating including moulding at perimeter 20mm thick.	m ²	11.05		
76	16mm thick 1:1:5 cement, lime and sand plastering to walls finished smooth with lime putty.	m ²	405.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
77	1:1:5 cement, lime and sand plaster reveals 35mm to 150mm wide finished smooth with lime putty.	m	300.00		
78	16mm thick cement, lime and sand 1:1:5 plaster finished semi-rough with wooden float.	m ²	193.00		
79	1:1:5 cement, lime and sand plaster to reveals 35mm to 150mm wide finished semi-rough.	m	315.00		
80	Rendering cement and sand 1:3, 20mm thick, finished smooth with grey cement floating.	m ²	50.50		
	PAINTING				
81	Preparing and applying one coat of alkali resisting primer and two coats of emulsion paint to walls.	m ²	405.00		
82	After cleaning and preparing surface and applying two coat of floor paint.	m ²	29.00		
83	After cleaning and preparing surface and applying two coats of enamel paint	m ²	1.90		
84	After cleaning and preparing on external surfaces and applying two coat of exterior paint.	m ²	255.00		
	Total Amount carried to Summary - 1				
	2ND FLOOR				
	CONCRETE WORKS				
85	Mixing and placing in position concrete grade 20, nominal mix 1:2:4 (20mm) using a concrete mixer including fuel / operator / handling/vibrator.	m ³	13.00		
86	Tor steel reinforcement bend to shape laid in position and tied with G.I. wire as directed.Including spaces & chairs.	kg	1,775.00		
87	Mild steel reinforcement bend to shape laid in position and tied with G.I. wire as directed.Including spaces & chairs.	kg	285.00		
88	Sawn timber formwork in class III timber for columns.	m ²	60.00		
89	Sawn timber form work in class III timber for concrete beams.	m ²	49.50		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
90	Sawn timber formwork in class III timber for ground concrete work lintols etc.	m ²	37.50		
91	Supplying and fixing 300x300 mm ² cement grill opening using cement grout to fix below the window sill level for ventilation circulation purpose. Rate shall include for doubling each area by fixing 2nos of cement grill with 25 number of holes in each cement grill sand wick with heavy gauge mosquitos net for protection purpose	m ²	13.00		
	MASONRY WORKS				
92	Brick work in 1:5 cement sand mortar 112.5mm thick (Nominal).	m ²	21.00		
93	Masonry block work 100mm thick (Nominal) in walls in cement and sand 1:5 mortar using hollow blocks made of cement and sand to the proportion of 1:10, confirming to compressive strength not less than 2N/mm ² .	m ²	81.00		
94	Masonry block work 200mm thick (Nominal) in cement and sand 1:5 mortar using hollow blocks made of cement and sand to a proportion of 1:10, confirming to compressive strength not less than 2N/mm ² .	m ²	87.00		
	METAL WORK				
95	Fabricating & fixing Special security grill fixed for windows complete with perimeter & either side of middle opening frame in 16mm x 5mm M.S flat & 6mm dia.MS bars at 100mm c/c diagonally ,properly welded & fixed to walls with rawl plugs, screws inclusive of two coats of enamel paint on two coats of anticorrosive paint.	m ²	87.00		
96	Fabricating and fixing Anodized aluminium glazed window with openable sash with aluminium architectural sections with 10 - 15 micron coating glazed 4.6 mm thick glass including all necessary rubber beading, rawl plug etc.(The used sections are CA 1009, CA 1010, CA 2005, 70SM 1011)	m ²	44.50		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
97	Fabricating and fixing Anodized Aluminium hinged type sash door with aluminium architectural sections with 10 - 15 micron coating glazed and panelled with 4mm cladding board .including door lock etc.(The used sections are -100D 3105, 100D 103, 100D 101, 100D 201, 100D301, 100D 401, 100D 501, 70SM 1011)	m ²	3.80		
	ROOF COVERING / ROOF PLUMBING				
98	Fabricating and erecting "I" section truss 20-40 feet span and pitch 10-45degree with "I" section rate included two coats of anticorrosive paint and placing in position.	kg	327.00		
99	Supplying & Fixing C- purlin 150 mmx 65 mmx 14 mm & 2mm thick GI including prepare & necessary nut & Bolts 6mm thick cleat & Welding Works etc.	m	363.00		
100	Supplying and fixing sag bolt using 10mm dia tread bar 10mm with necessary nut & bolts	m	32.00		
101	Supplying & Fixing 30mm thick sandwich panel roofing sheets with self drilling Screws (Fasteners) on existing frame work (Frame Work Measured Separately) hip roof. (Sheet thickness top - 0.4mm bottom - 0.35mm)	m ²	356.00		
102	Supplying & fixing 0.47mm thick colour Zn /Al. ridge cap/ bottom ridge cap with self drilling screws (Fasteners) minimum girth 470mm.	m	32.00		
103	Supplying & fixing 0.47mm thick colour Zn /Al. edge capping with self drilling screws (Fasteners)	m	32.00		
104	Extra over Supplying & Fixing 20x 6mm flat iron valance board bracket at 0.6m c/c (total length 375mm) including welding works, painting etc.	nr	65.00		
105	Supplying & Fixing 0.47mm thick Zn / Al Valance board including Screws. Nominal girth 470mm .	m	65.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	ELECTRICAL INSTALLATIONS				
106	Pendent type lamp point wiring - to be carried out with 2 x 1.0 mm ² PVC insulated PVC sheathed copper cables wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order .	nr	18.00		
107	Ceiling fan point wiring completed with fan hook - to be carried out with 2 x 1.0 mm ² PVC insulated PVC sheathed copper cables and 2.5 mm ² earth cable wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order.	nr	4.00		
108	5 A socket outlet - point wiring to be carried out with 2 x 1.0 mm ² PVC insulated PVC sheathed copper cables and 2.5 mm ² earth cable wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order.	nr	4.00		Deleted
109	13 A socket outlet to be controlled by 20A D/pole switch with neon indicator - point wiring to be carried out with 2 x 2.5 mm ² PVC insulated PVC sheathed copper cables and 2.5 mm ² earth cable wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order.	nr	8.00		
110	Supply and installation of 2 x 6 mm ² Cu/PVC/PVC cables concealed in casing.	m	6.00		
111	Supply and installation of 7 W LED Globe in working order (Efficacy shall be equal or greater than 80 lm / W).	nr	18.00		
112	Supply and installation of 5 A socket outlet in working order.	nr	4.00		Deleted
113	Supply and installation of 13 A socket outlet in working order.	nr	8.00		
114	Supply and installation of 4 feet Cu earth electrode with 16mm diameter and other accessories in working order.	nr	1.00		
115	Supply and installation of 6 way single phase distribution board including 32 A 2P Isolator , 40A 2P RCD (30mA) , 02 nos. single pole M.C.B s.	nr	1.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	FLOOR / WALL / CEILING FINISHES				
116	Black board plastering with 1:3 cement and sand finished smooth with black cement floating including moulding at perimeter 20mm thick.	m ²	11.05		
117	16mm thick 1:1:5 cement, lime and sand plastering to walls finished smooth with lime putty.	m ²	310.00		
118	1:1:5 cement, lime and sand plaster reveals 35mm to 150mm wide finished smooth with lime putty.	m	261.00		
119	16mm thick cement, lime and sand 1:1:5 plaster finished semi-rough with wooden float.	m ²	226.00		
120	1:1:5 cement, lime and sand plaster to reveals 35mm to 150mm wide finished semi-rough.	m	355.00		
	PAINTING				
121	Preparing and applying one coat of alkali resisting primer and two coats of emulsion paint to walls.	m ²	310.00		
122	After cleaning and preparing surface and applying two coats of enamel paint	m ²	29.00		
123	After cleaning and preparing on external surfaces and applying two coat of exterior paint.	m ²	226.00		
	Total Amount carried to Summary - 1				

Bills of Quantities for Construction of 90'x30' Three Storied Class Room and Administration Building for CP/KOT/Vigneshwara T.M.V at katukithula, Kothmale		
Summary - 1		
SN	Description	Amount (Rs.)
1	Demolition of Existing building	
2	Ground Floor	
3	First Floor	
4	Second Floor	
	TOTAL CONSTRUCTION COST CARRIED TO GRAND SUMMARY	

1. Bills of Quantities for Repair works of Science Laboratory Building at CP/N/KOT/ Vigneshvara Maha Vidyalaya, Katukithula, Kothmale					
Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	CONCRETE WORKS				
1	Drain 225mm X 300mm(average depth) concrete 1:2 1/2:5 (25mm) 75mm thick, provide expansion joints at 3000mm crs 12.5mm thick , 1:3 cement, sand rendering finished smooth, including necessary excavation, form work, laying polythene membrane under concrete and laid to required slope.	m	30.00		
	ELECTRICAL INSTALLATIONS				
2	Repairing of electrical system	P.sum			45,000.00
	FLOOR / WALL / CEILLING FINISHES				
3	Cement, lime and sand plaster, breaking the damaged areas and replastering with 20mm thick 1:1:5 cement, lime and sand, finished smooth with lime putty.	m ²	5.00		
4	16mm thick cement and sand 1:5 plaster finished semi-rough with wooden float.	m ²	5.00		
	PAINTING				
5	After cleaning and preparing on external surfaces and applying two coat of exterior paint.	m ²	99.30		
6	After cleaning and preparing surface and applying two coats of emulsion paint.	m ²	169.00		
	Total Amount carried to Summary - 2				

2. Bills of Quantities for Repair works of Toilet Block-01 at CP/N/KOT/ Vigneshvara Maha Vidyalaya, Katukithula, Kothmale

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	DEMOLITION				
1	Chipping & clearing debris away from brick wall plasters and floor rendering.	m ²	46.00		
2	Removing & stacking Low-level suits, squatting closets.	nr	6.00		
	EXCAVATION AND EARTHWORK				
3	Earth excavation in levelling site inclusive of haulage up to 30m. (manual cutting only up to 450m ³)	m ³	0.50		
	CONCRETE WORKS				
4	Floor concrete with 1:2 1/2:5(25mm) 75mm thick with expansion joints filled with 1:2 bitumen and sand rate including for the curing, compacting ground and laying polythene sheet under the concrete.	m ²	12.50		
	ELECTRICAL INSTALLATIONS				
5	2 nos. of pendent lamp points to be controlled by one switch - point wirings to be carried out with 2 x 1.0 mm ² PVC insulated PVC sheathed copper cables wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order .	nr	1.00		
6	4 nos. of pendent lamp points to be controlled by one switch - point wirings to be carried out with 2 x 1.0 mm ² PVC insulated PVC sheathed copper cables wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order.	nr	2.00		
7	2 nos. of pendent lamp points to be controlled by one switch - point wirings to be carried out with 2 x 1.0 mm ² PVC insulated PVC sheathed copper cables wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order.	nr	1.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
8	Pendent type lamp point wiring - to be carried out with 2 x 1.0 mm ² PVC insulated PVC sheathed copper cables wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order.	nr	1.00		
9	Supply and installation of 2.5 mm ² earth cable concealed in casing.	m	6.00		
10	Supply and installation of 15 W CFL globe (CFL bulb shall be 4 stars rated or greater) in working order.	nr	6.00		
	PLUMBING/SANITARY INSTALLATIONS				
11	Supplying & fixing Bowl type approved urinal with trap and urinal flush valve complete to working order.	nr	4.00		
12	Supplying & fixing approved new closet squatting foot rest type (Orissa pan) with trap, supplied and fixed to working order including connection to sewer line.	nr	6.00		
13	Water supply connection with accessories etc..	P.sum			65,000.00
	FLOOR / WALL /CEILING FINISHES				
14	Floor paved with approved pattern and colour/ceramic) non -skid floor tiles on 1:3 cement mortar, joints filled with tile grout, to match the colour of tiles and cleaning.	m ²	14.10		
15	Tiles glazed of approved pattern and colour with all specials fixed to walls including raking plaster and bedding in cement mortar 1:3, joints finished with tile grout to match colour of tiles and cleaning.	m ²	45.50		
16	1:1:5 cement, lime and sand plaster to reveals 35mm to 150mm wide finished semi-rough.	m	6.00		
17	Cement, lime and sand plaster, breaking the damaged areas and replastering with 20mm thick 1:1:5 cement, lime and sand, finished smooth with lime putty.	m ²	1.00		
18	16mm thick cement, lime and sand 1:1:5 plaster finished semi-rough with wooden float.	m ²	2.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	PAINTING				
19	After cleaning and preparing on external surfaces and applying two coat of exterior paint.	m ²	77.00		
20	After cleaning and preparing surface and applying two coats of emulsion paint.	m ²	75.00		
	DRAINAGE				
21	Supplying and fixing bend PVC 110 for drainage.	nr	4.00		
22	Construction of manhole 600mm x 600mm internally complete with brick walls 1:3 cement and sand rendered in internal surfaces, extra over for each additional 0.3m depth.	nr	1.00		
	Total Amount carried to Summary - 2				

3. Bills of Quantities for Repair works of Toilet Block -2 at CP/N/KOT/ Vigneshvara Maha Vidyalaya, Katukithula, Kothmale					
Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	DEMOLITION				
1	Chipping & clearing debris away from brick wall plasters and floor rendering.	m ²	5.00		
2	Removing & stacking Door or window size over 4.0m ² .from existing walls.	nr	2.00		
	CONCRETE WORKS				
3	Floor concrete with 1:2 1/2:5(25mm) 75mm thick with expansion joints filled with 1:2 bitumen and sand rate including for the curing, compacting ground and laying polythene sheet under the concrete.	m ²	2.10		
	PLUMBING/SANITARY INSTALLATIONS				
4	Supplying & fixing approved new closet squatting foot rest type (Orissa pan) with trap, supplied and fixed to working order including connection to sewer line.	nr	2.00		
5	Water connection , waste line & Accessories etc..	P.sum			55,000.00
	FLOOR /WALL /CEILING FINISHES				
6	Floor paved with approved pattern and colour/ceramic) gloss floor tiles on 1:3 cement mortar, joints filled with tile grout, to match the colour of tiles and cleaning.	m ²	2.10		
7	Cement, lime and sand plaster, breaking the damaged areas and replastering with 20mm thick 1:1:5 cement, lime and sand, finished smooth with lime putty.	m ²	5.00		
8	Floor rendering with 1:3 cement and sand, normal cement floated surface with expansion joints filled with 1:2 bitumen sand.(Rate including for curing)	m ²	1.40		
	PAINTING				
9	After cleaning and preparing on external surfaces and applying two coat of exterior paint.	m ²	25.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
10	After cleaning and preparing surface and applying two coats of emulsion paint.	m ²	45.00		
	DRAINAGE				
11	Construction of manhole 600mm x 600mm internally complete with brick walls 1:3 cement and sand rendered in internal surfaces, extra over for each additional 0.3m depth.	nr	1.00		
12	Floor concrete with 1:2 1/2:5(25mm) 62mm thick with expansion joints filled with 1:2 bitumen and sand rate including for the curing, compacting ground and laying polythene sheet under the concrete.	m ²	1.40		
	Total Amount carried to Summary - 2				

4. Bills of Quantities for Repair works of Two Storied Main Hall Building at CP/N/KOT/ Vigneshvara Maha Vidyalaya, Katukithula, Kothmale					
Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	METAL WORK				
1	Fabricating & fixing Special security grill fixed for windows complete with perimeter & either side of middle opening frame in 16mm x 5mm M.S flat & 6mm dia.MS bars at 100mm c/c diagonally ,properly welded & fixed to walls with rawl plugs, screws inclusive of two coats of enamel paint on two coats of anticorrosive paint	m ²	65.00		
2	Supplying & fixing brass barrel bolts 150mm with brass screws.	nr	2.00		
3	Supplying & fixing double hung mortise type door lock approved by engineer.	nr	1.00		
4	Supplying & fixing double hung mortise type door lock approved by engineer.	nr	1.00		
5	Replacing glass panes plain / pinhead 4.6mm in complete.	m ²	1.30		
	ROOF COVERING / ROOF PLUMBING				
6	Fabricating and fixing suspended type ceiling PVC/Mineral fiber board/Cement Board ceiling with T and L sections complete as per detailed drawing. Panel size 600mm x 600mm.	m ²	137.00		
	ELECTRICAL INSTALLATIONS				
7	Repairing of wiring system	P.sum			75,000.00
	FLOOR / WALL / CEILLING FINISHES				
8	Floor re-rendering with 1:3 cement and sand after demolishing and clearing damaged areas, providing expansion joints filled in 1:2 bitumen and sand (Rate including for curing).	m ²	4.00		
9	1:1:5 cement, lime and sand plaster to reveals 35mm to 150mm wide finished semi-rough.	m	15.00		
10	1:1:5 cement, lime and sand plaster reveals 35mm to 150mm wide finished smooth with lime putty.	m	10.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
11	Cement, lime and sand plaster, breaking the damaged areas and replastering with 20mm thick 1:1:5 cement, lime and sand, finished smooth with lime putty.	m ²	4.00		
	PAINTING				
12	After cleaning and preparing on external surfaces and applying two coat of exterior paint.	m ²	390.00		
13	After cleaning and preparing surface and applying two coats of emulsion paint.	m ²	495.00		
14	Applying two coats of white washing to ceilings and soffit .	m ²	225.00		
	Total Amount carried to Summary - 2				

5. Bills of Quantities for Repair works of 110'x25' Class Room Building at CP/N/KOT/ Vigneshvara Maha Vidyalaya, Katukithula, Kothmale					
Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	MASONRY WORKS				
1	Masonry block work 150mm thick (Nominal) in walls in cement and sand 1:5 mortar using hollow blocks made of cement and sand to the proportion of 1:10, confirming to compressive strength not less than 2N/mm ² in ground floor.	m ²	27.00		
	METAL WORK				
2	Fabricating & fixing door 28mm thick, battened sash with 95mm x 45mm (Nominal) frame, in cl.1 timber, oxidized heavy duty furniture 100mm x 62mm iron butt hinges with in side and out side 100mm barrel bolts , draw ring, painted sashes and frame, two of coats enamel paint with primer under coats.(3Nos hinges)	m ²	1.70		
	ROOFCOVERING/ROOF PLUMBING				
3	Supplying and fixing any size class 1 timber beams including application of two coats of wood preservative(stain) (Only up to 4.6m ² of roof area).	m ³	1.36		
4	Supplying and fixing class 1 timber 50mm x 100mm (nominal) joists/ rafters including application of two coats of wood preservative (stain)	m	24.50		
5	Supplying and fixing new asbestos roofing sheets confirming to SLS 9 on existing framework with new nut and bolts, apply two coats of emulsion paint under side of sheet etc.(Frame work measured separately).	m ²	30.00		
6	Applying one coat of wood preservative (stain) on roof structure for calicut tile roof measured in plan area.	m ²	30.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
7	Replacing with new class 1 timber 50mm x 50mm (nominal) battens including application of two coats of wood preservative(stain) (Only up to 4.6m2 of roof area).	m	20.00		
	ELECTRICAL INSTALLATIONS				
8	Repairing of electrical system	P.sum			75,000.00
	FLOOR/WALL/CEILLING FINISHES				
9	16mm thick cement and sand 1:5 plaster finished semi-rough with wooden float.	m ²	29.00		
10	16mm thick 1:1:5 cement, lime and sand plastering to walls finished smooth with lime putty.	m ²	30.00		
	PAINTING				
11	After cleaning and preparing surface and applying two coats of emulsion paint.	m ²	421.00		
12	Applying two coats of white washing to ceilings and soffit .	m ²	296.00		
13	After cleaning and preparing on external surfaces and applying two coat of exterior paint.	m ²	248.00		
	Total Amount carried to Summary - 2				

6. Bills of Quantities for Repair works of Fence and Gate at CP/N/KOT/ Vigneshvara Maha Vidyalaya, Katukithula, Kothmale					
Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
1	Clearing jungle along the fence.	m	25.00		
2	Constructing chain link mesh fence 2.0m high (Gauge 12) with 2" dia. medium quality GI pipe at 2.4m c/c up rights and one after the other 3/4" dia. medium quality GI pipe up right at 2.4m c/c and 1" dia. GI pipe medium quality at top and bottom runners, including excavation, foundation concrete work 1:2:4(20mm), welding work, painting of two coats of anticorrosive and finished coat of enamel etc.(Chain link fence open area 2" x 2")	m	25.00		
3	Repairing of Rear gate	P.sum			75,000.00
	Total Amount carried to Summary - 2				

Bills of Quantities for Repair Works at CP/N/KOT/ Vigneshvara Maha Vidyalaya, Katukithula, Kothmale		
Summary - 2		
SN	Description	Amount (Rs.)
1	Repairs of science laboratory	
2	Repairs of Toilet block-01	
3	Repairs of Toilet block -02	
4	Repairs of Two story Building (Main Hall)	
5	Repairs of Class Room Building(25*110)	
6	Repairs of The New Gate & Fence	
	TOTAL CONSTRUCTION COST CARRIED TO GRAND SUMMARY	

**Bills of Quantities for Construction of Type 12 Toilet Unit of CP/N/KOT/ Vigneshwara Maha Vidyalaya,
Katukithula, Kothmale.**

Item No	Description	Unit	Qty.	Rate RS. Cts.	Amount Rs. Cts.
	DEMOLITIONS				
1	Demolishing decayed toilet block & debris away from site	Item	1.00		
	EXCAVATION AND EARTHWORK				
2	Clearing site , removing top soil and levelling	Item	1.00		
3	Excavation in foundations in normal earth up to depth of 1.5m inclusive of backfilling, compacting and disposal of surplus earth	m ³	5.00		
4	Filling earth and compacting (as approved by Engineer) 150mm layer under floors.Rate includes for transport of 30m	m ³	1.70		
	CONCRETE WORKS				
5	Mixing and placing in position concrete 1:3:6 (40mm) using a concrete mixer including fuel/ Operator/ handling	m ³	0.40		
6	Mixing and Placing in position concrete grade 20, nominal mix 1:2:4 (20mm) using a concrete mixer including fuel/ operator/ handling / vibrator. In plinth beam, foundation base and columns, washing table slab and lintol	m ³	2.60		
7	Floor concrete 1:2 1/2:5(25mm) 75mm thick with expansion joints filled with 1:2 bitumen and sand rate including for the curing, compacting ground and laying polythene sheet under the concrete	m ²	3.00		
8	Floor concrete 1:2 1/2:5(25mm) 75mm thick ,1:3 normal cement and sand rendering finished smooth with expansion joints filled with 1:2 bitumen and sand. Rate including curing, compacting and laying polythene sheets under the concrete	m ²	4.50		
9	Tor steel reinforcement bend to shape laid in position base and columns, washing tables slab and lintol	kg	245.00		

Item No	Description	Unit	Qty.	Rate RS. Cts.	Amount Rs. Cts.
10	Sawn timber formwork in class III timber for ground concrete work, at ground level plinth beam, lintols etc.	m ²	24.00		
11	Supplied and fixed 300 x 300 mm cement grill with cement grout and applying white washing	m ²	1.70		
12	Drain 225mm x 150mm (average depth) concrete 1:2(25mm) 75mm thick, provide expansion joints at 3000mm crs 12mm thick, 1:3 cement, sand rendering finished smooth, including necessary excavation, form work, laying polythene membrane under concrete and laid to required slope	m	3.00		
13	600m wide ramp and 225mm x 150mm (average depth) drain in 1:2 1/2:5(25mm) concrete 75mm thick with 1:3 plaster finished smooth, including necessary excavation, form work, providing expansion joints at 3000mm crs and laying polythene membrane under concrete and laid to required slope	m	19.00		
	MASONRY WORKS				
14	Brick work in 1:5 cement sand mortar 225mm thick and above in foundations up to D.P.C.	m ³	0.80		
15	Brick work in 1:8 cement sand mortar 225mm thick in super structure 225 x 225 mm column in ground floor	m ³	1.20		
16	Brick work in 1:5 cement sand mortar 112.5mm thick in ground floor	m ²	28.00		
	METAL WORK				
17	Anodized aluminium hinged type sash door with aluminium architectural section with 10-15 micron coating panelled with 3mm cladding sheet to both sides at bottom and top. Including door lock etc.	P.sum			75,000.00

Item No	Description	Unit	Qty.	Rate RS. Cts.	Amount Rs. Cts.
	ROOF COVERING / ROOF PLUMBING				
18	Steel section 2/62mm x 62mm x 6mm used in gable rafters purlins etc. complete with fixing bolts, 2 coats of anticorrosive paint and providing cleats with fixing, bolts, 2 coats of anticorrosive paint and providing cleats where necessary (Concrete pad paid separately)	m	9.00		
19	Supplying & fixing C - purlin 100mmX 50mm x12mm, 2mm thick including prepare & apply 2 coats of anticorrosive paint, necessary nut & bolts 6mm thick cleat and welding work etc.	m	17.70		
20	Supplying & fixing 0.47mm colour Zn/Al. roofing sheets with self drilling screws (fasteners) on existing frame work (Frame work measured separately)	m ²	18.00		
21	Valance board beaded 225mm x 20mm x thick supplying and fixing Ginisapu, including one coat of primer and two coat of enamel paint (Flat iron bracket measured separately)	m	17.00		
	PLUMBING/SANITARY INSTALLATIONS				
22	Approved new closet squatting foot rest type (Orissa pan) with trap, supplied and fixed to working order including connection to sewer lline	nr	4.00		
23	Ball cock plastic supplied and fixed, size 20mm dia.	nr	2.00		
24	Pipes PVC type 600 supplied and laid with specials, size 40mm dia. In waste of wash basins	m	4.00		
25	Pipes PVC supplied and laid with specials, size 20mm dia.type 1000 rate includes for cutting trenches, testing and back filling. Depth of the trench not less than 450mm	m	20.00		
26	Supplying and fixing 20mm(1/2")dia. approved plastic bib tap with 1 No.P.V.C faucet socket	nr	10.00		
27	Fixing wash basin supplied with 20mm(1/2") dia. Brass chromium plated pillar tap, waste plug, chain and stay.(Water connection and waste water connection measured separately. (Approved by Engineer)	nr	1.00		

Item No	Description	Unit	Qty.	Rate RS. Cts.	Amount Rs. Cts.
28	Allow for water supplying and service works	P.sum			50,000.00
	FLOOR/WALL/CEILING FINISHES				
29	Floor paved with approved pattern and colour (homogeneous/porcelain/ceramic) floor tiles on 1:3 cement mortar, joints filled with tile grout, to match the colour of tiles and cleaning	m ²	5.00		
30	Tiles glazed of approved pattern and colour with all specials fixed to walls including raking plaster and bedding in cement mortar 1:3, joints finished with tile grout to match colour of tiles and cleaning.	m ²	21.00		
31	16mm thick 1:1:5 cement , lime and sand plastering to walls finished smooth with llime putty	m ²	16.00		
32	16mm thick cement, lime and sand 1:1:5 plaster finished semi rough with wooden float	m ²	36.00		
33	20mm thick damp proof course in 1:2 cement and sand trowelled smooth and applied two coats of hot tar, blinded with sand	m ²	5.40		
34	Plinth plaster 12mm thick in 1:3 cement and sand finished smooth with coloured cement floating	m ²	5.20		
	PAINTING				
35	Floor paints, after cleaning and preparing surface, two coats	m ²	10.00		
36	Applying one coat of primer and two coats of exterior paint for new walls.	m ²	36.00		
	DRAINAGE				
37	Type 400 pvc 110mm for sewer line supplied and laid in medium soil, joints embedded in 1:3:6(40mm) concrete including necessary excavation, back filling, and compaction, invert depth up to 600mm	m	11.00		
38	Manhole 600mm x 600mm x 600m internally complete with cement concrete 1:2:4(25mm) in 75mm thick base , 225mm tk. Brick walls on top of base slab and channeling & bending, 1:3 cement and sand rendered in internal surface,75mm thick RC .cover slab r/f with 10mm tor steel @ 150mm c/c. both ways, complete with lifting handles	nr	2.00		

Item No	Description	Unit	Qty.	Rate		Amount	
				RS.	Cts.	Rs.	Cts.
39	Construction of 1.2m diameter internal fully built type soakage pit, built up 225mm thick brick work in 1:8 cement, sand mortar invert depth from ground level 3.0m, on 225mm x 150mm ring beam 1:2:4(20mm) concrete mix, including 1:3 cement, sand plaster finished smooth with neat gray cement (0.9m) invert depth only) & 100mm high 1:2:4(20mm) concreting pad above ground level, complete with 75mm thick RCC cover slab with lifting handle.	nr	1.00				
Total Amount carried to Summary - 3							

Bills of Quantities for Construction of Type 12 Toilet Unit of CP/N/KOT/ Vigneshwara Maha Vidyalaya, Katukithula, Kothmale.		
Summary - 3		
SN	Description	Amount (Rs.)
1	Construction of Type 12 Toilet Unit	
	TOTAL CONSTRUCTION COST CARRIED TO GRAND SUMMARY	

**Bills of Quantities for Construction of 90'x30' Three Storied Class Room and Administration Building,
Repair Works, Construction of Type 12 Toilet Unit for CP/KOT/Vigneshwara T.M.V at Katukithula,
Kothmale**

Grand Summary

SN	Description	Amount (Rs.)
1	Preliminaries	
2	Construction of 90'x30' Three Storied Class Room and Administration Building (Total of Summary - 1)	
3	Repair Works (Total of Summary - 2)	
4	Construction of Type 12 Toilet Unit (Total of Summary - 3)	
	TOTAL CONSTRUCTION COST	
(a)	Sub Total I	
(b)	Less: Provisional Sum	728,500.00
(c)	Sub Total II (a-b)	
(d)	Less: Discount if any (.....%)	
(e)	Sub Total III (c-d)	
(f)	Add : Provisional Sum (b)	728,500.00
(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

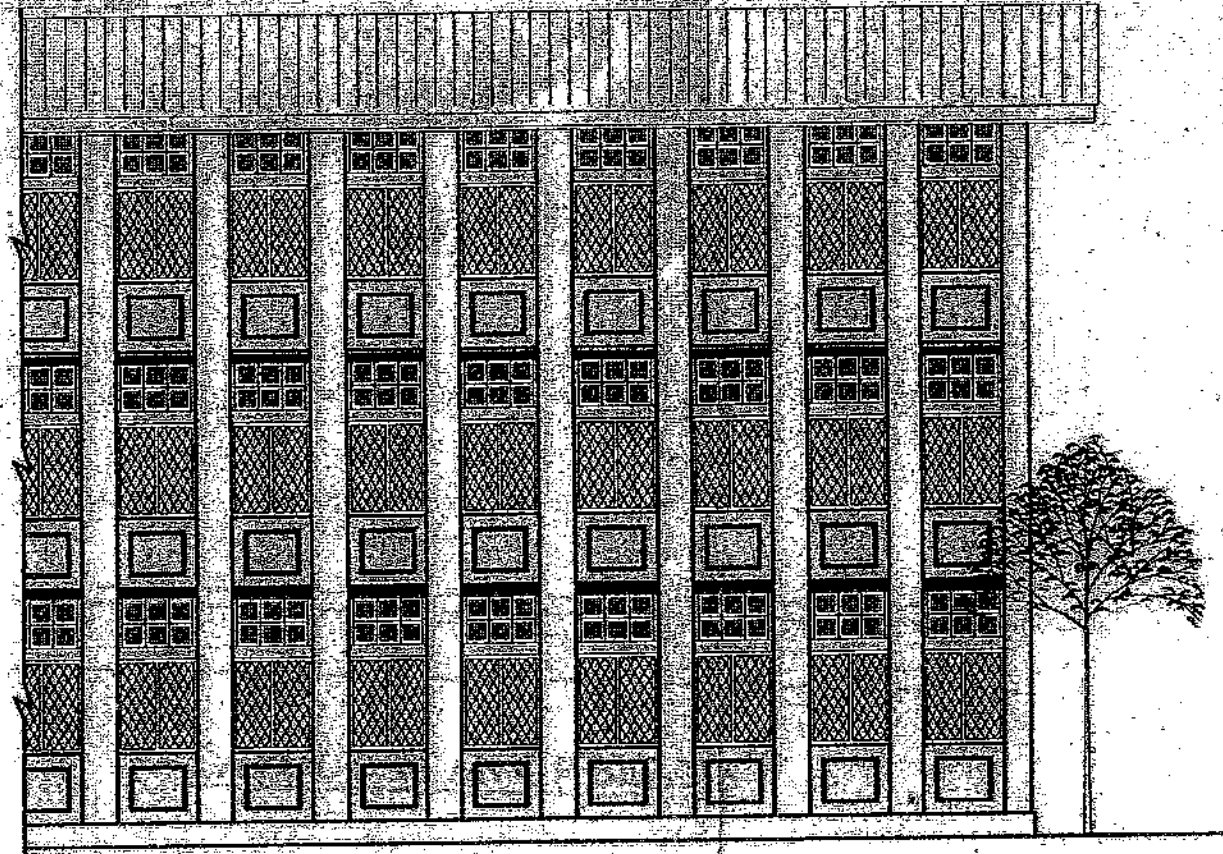
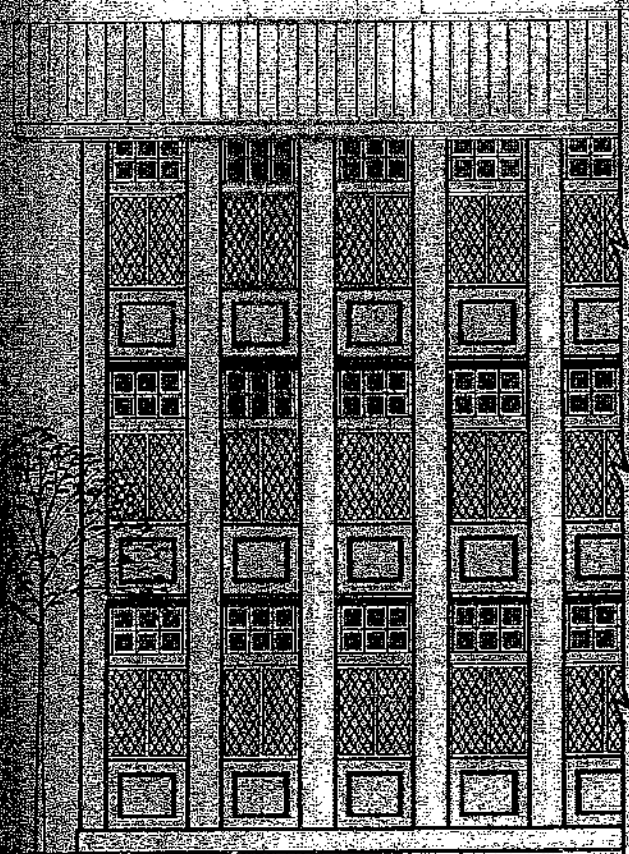
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Fax Number/ E-mail Address of Bidder

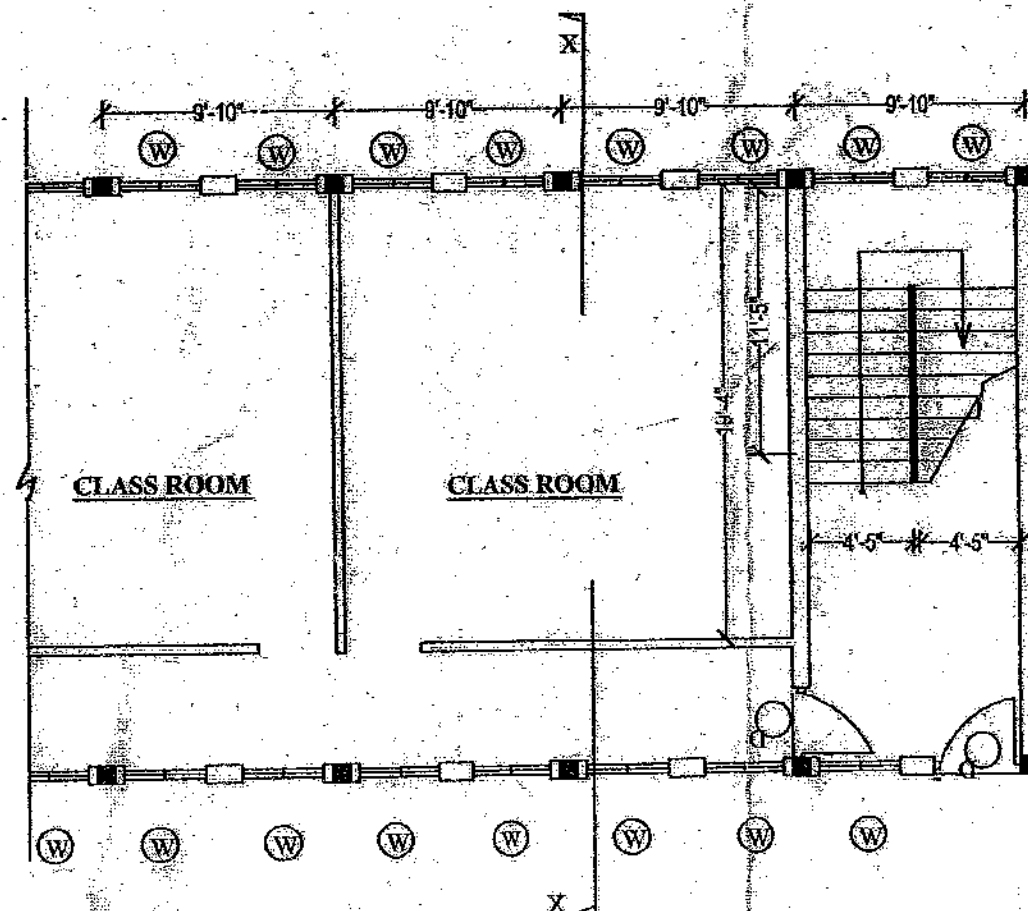
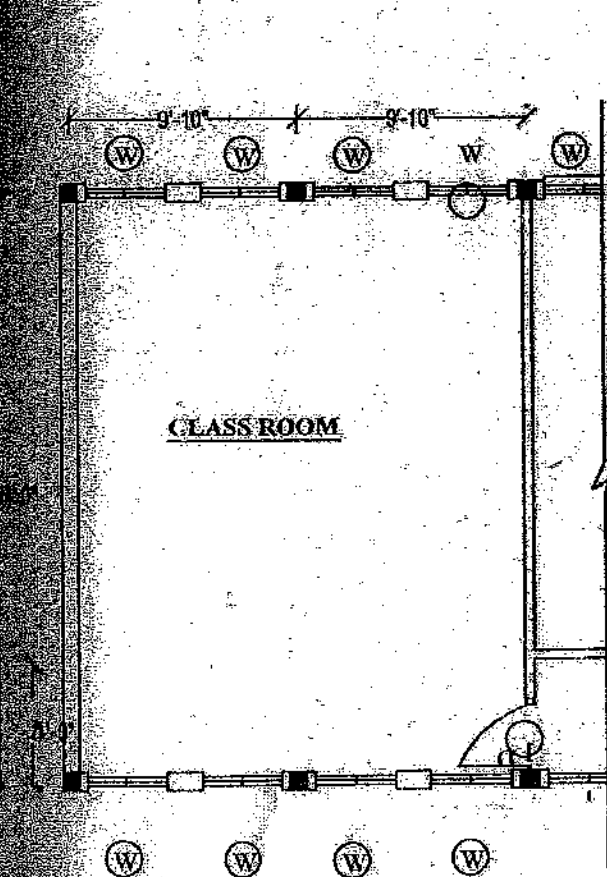
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Vigneshwara T.V., Helboda, Katukithula

STRUCTURAL DRAWINGS
PROPOSED 90'X30'
THREE STORIED BUILDING



FRONT ELEVATION



GROUND FLOOR PLAN

**TYPE PLAN OF 12 CLASS ROOMS BLOCK
(90' x 25' THREE STORIED BUILDING)**

DEPARTMENT OF ENGINEERING SERVICES,
(EDUCATION BUILDINGS)

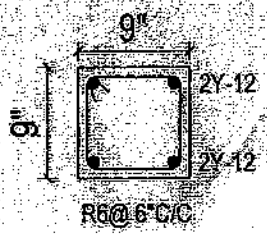
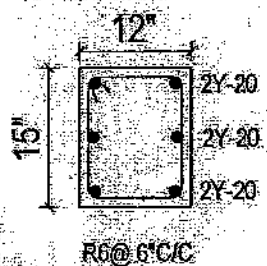
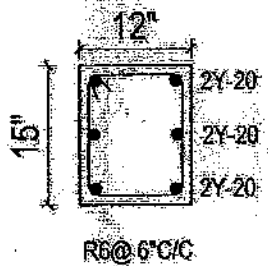
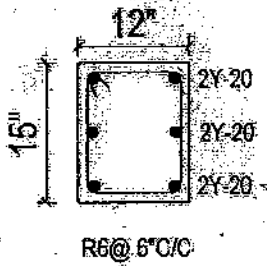
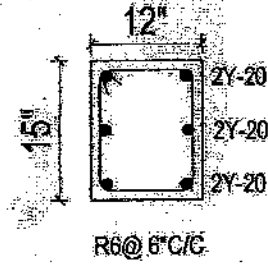
SCALE -
8 Feet to an Inch

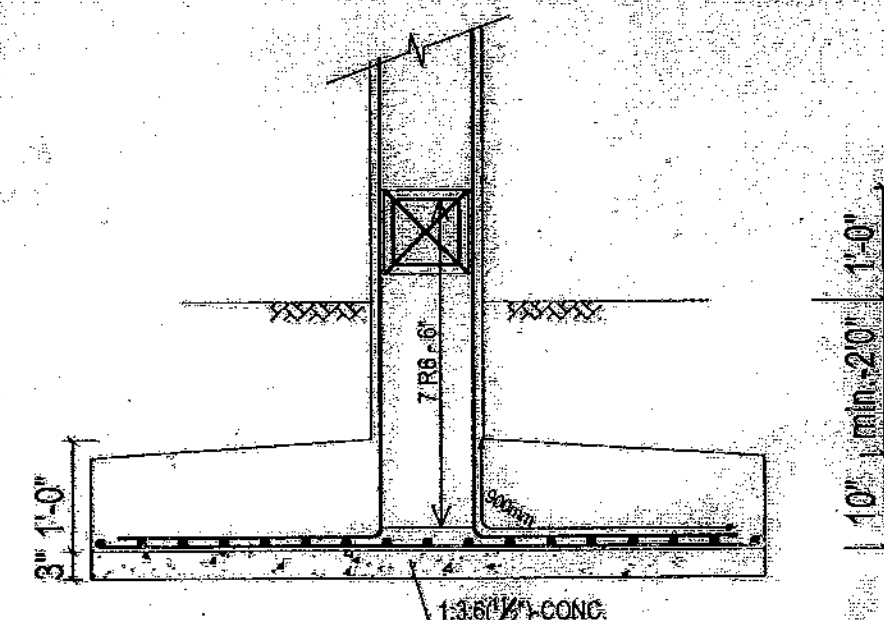
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DRAWN BY - W.A.P.DAANI (DRAUGHTSMAN-SPL.GRADE)

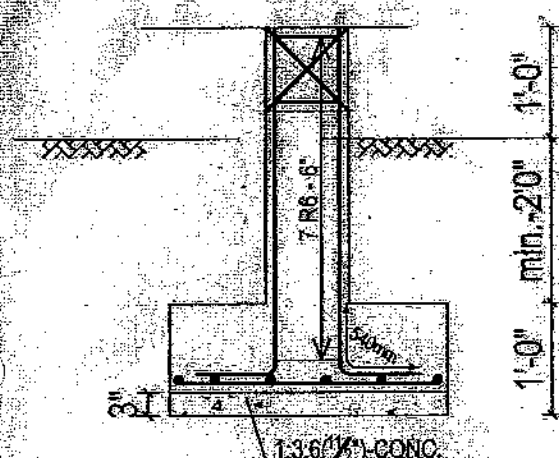
CHECKED BY - H.H.P.DUMBUKOLA (TECHNICAL OFFICER-SPECIAL GRADE)

89/01/2013
Eng. H.W.S.P. Jayarathne
Deputy Director (School Buildings)
Eng. H.W. Ekanayake
Deputy Director (Education Buildings)
DEPUTY DIRECTOR (EDUCATION BUILDINGS)

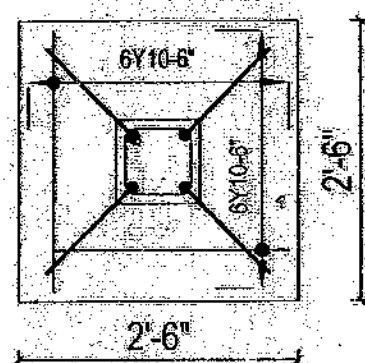
COLUMN	FOUNDATION LEVEL TO GROUND FLOOR	GROUND FLOOR TO 1 st FLOOR	1 st FLOOR 2 nd FLOOR	2 nd FLOOR TO ROOF
C1				
C2				



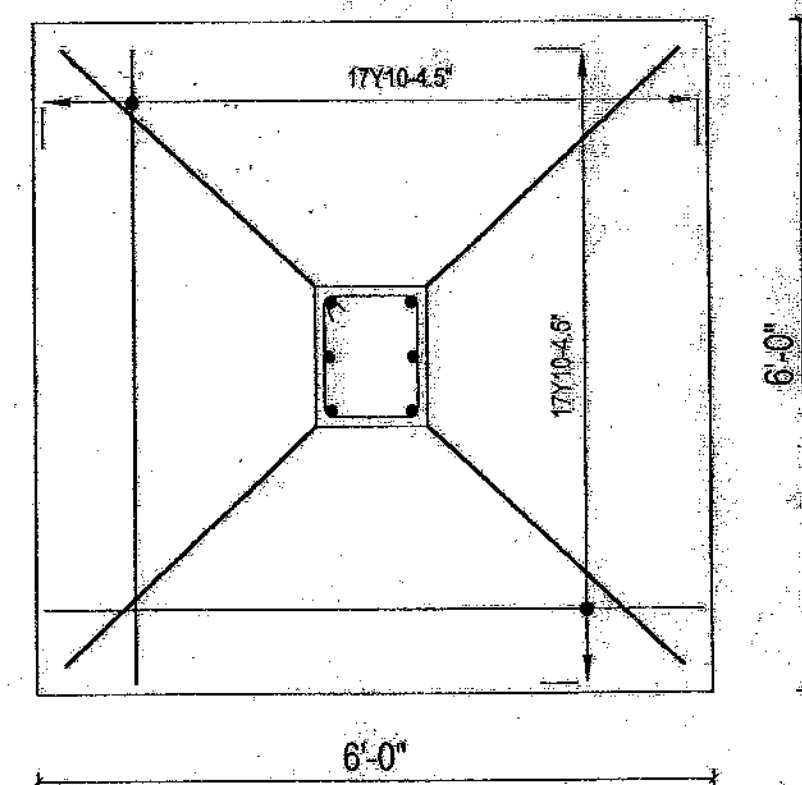
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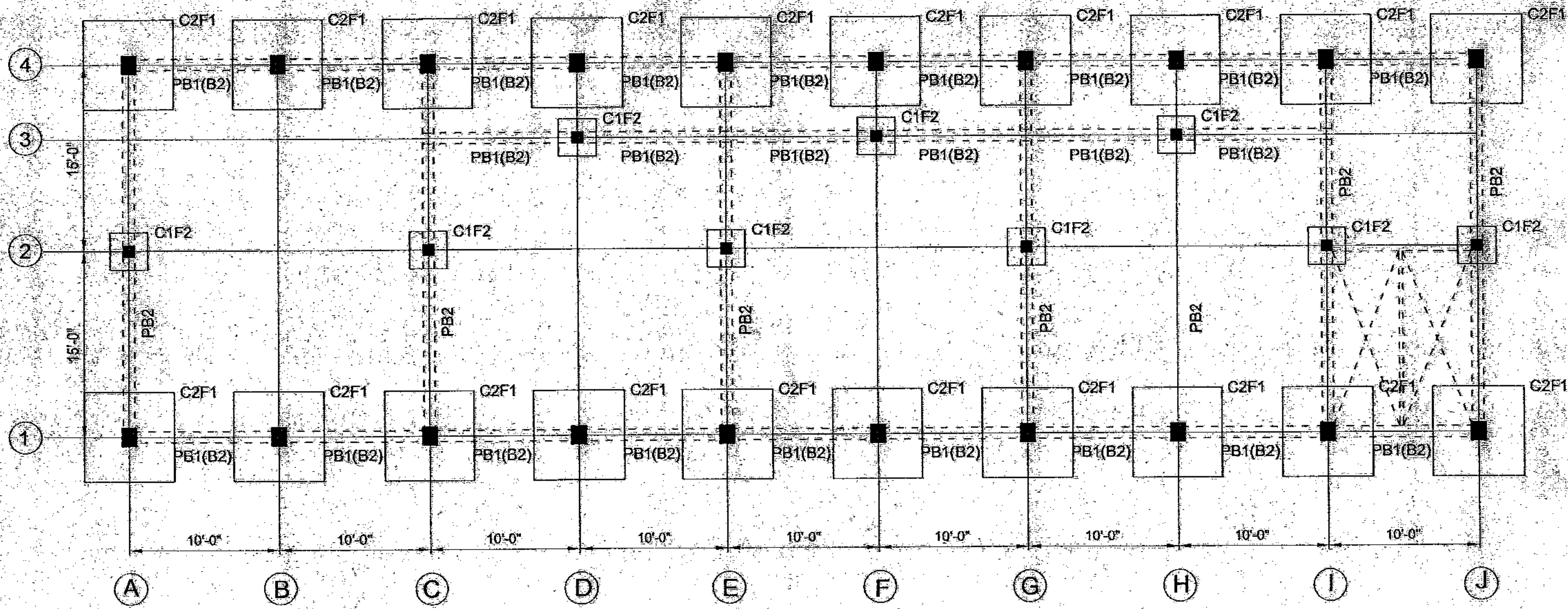
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FOOTING - F2



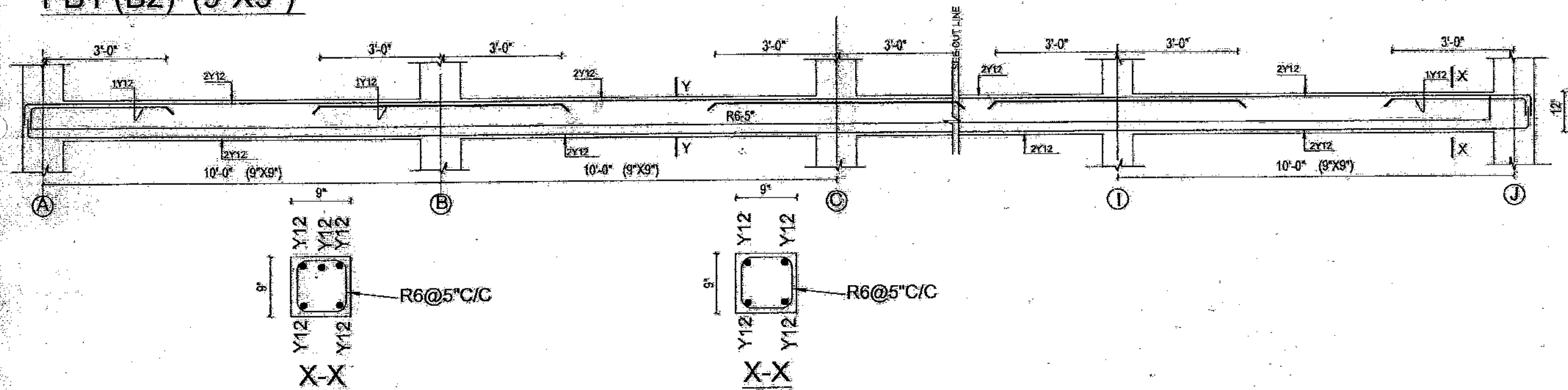
FOOTING - F1



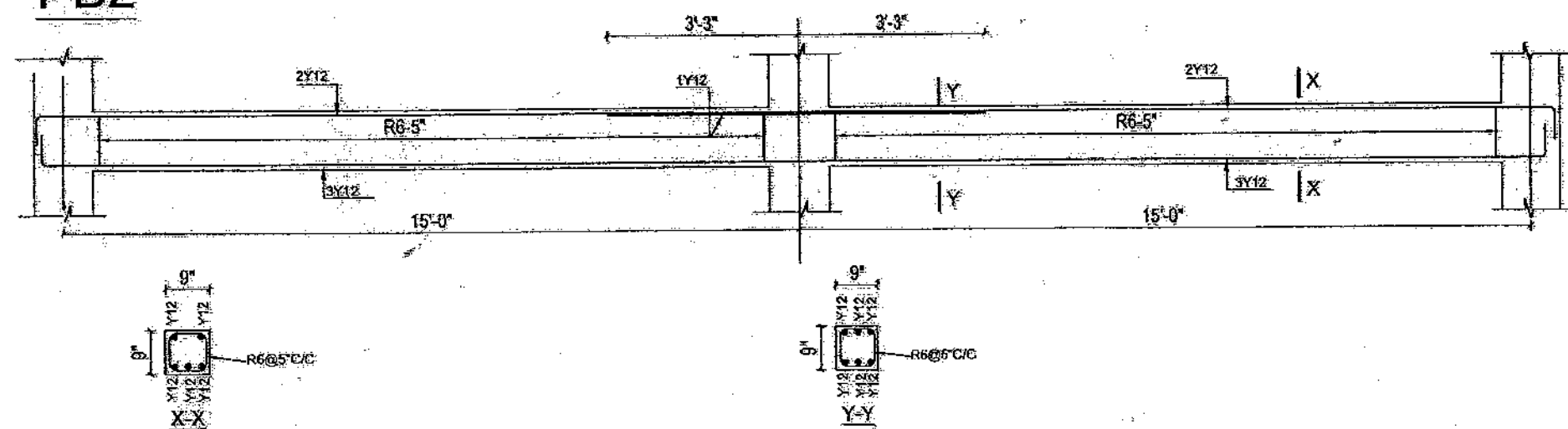
LAYOUT PLAN OF PLINTH BEAM (90"x30")
(THREE STORIED)

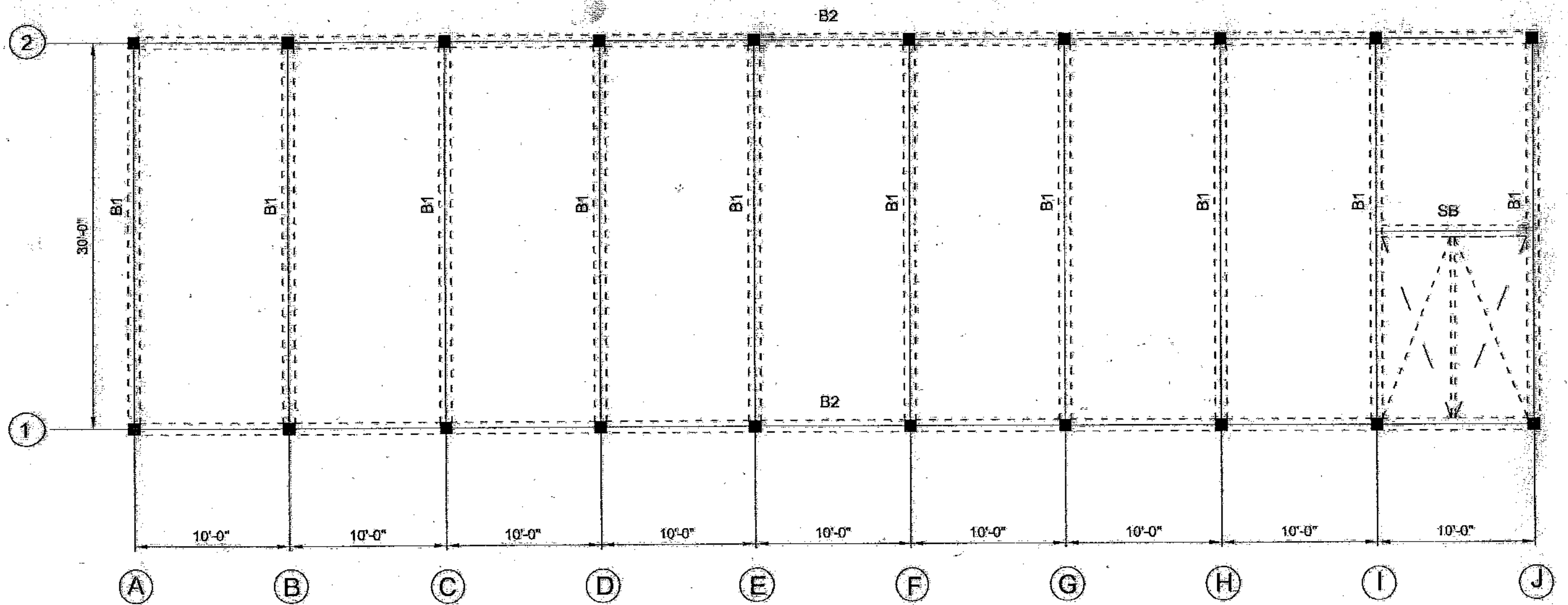
PLINTH BEAM (90'X30')

PB1 (B2) (9"X9")



PB2



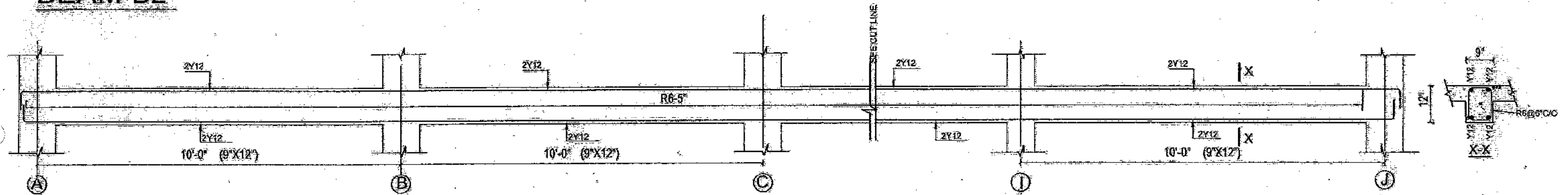


LAYOUT PLAN OF BEAMS (90'x30')

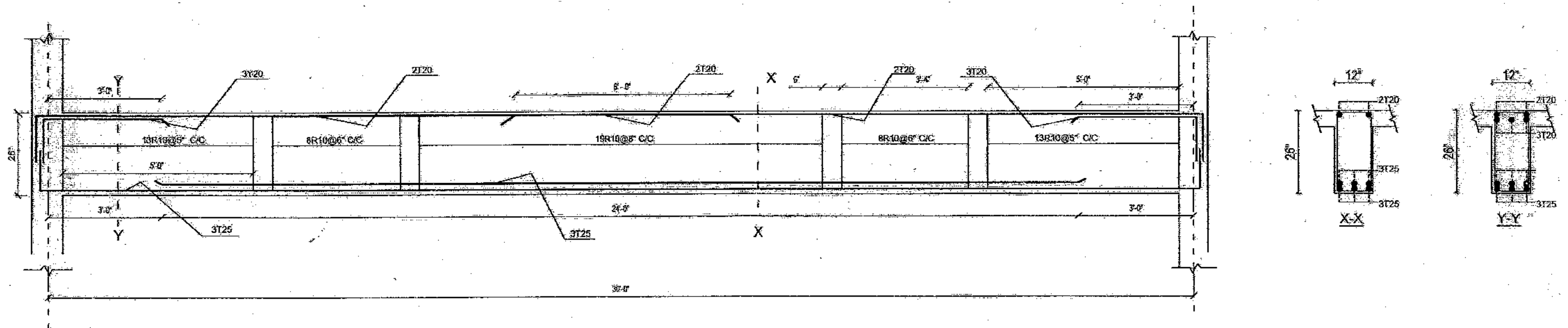
(THREE STORIED)

BEAM (90'X30')

BEAM-B2



BEAM-B1



ORIGINAL

12 CLASS ROOM BLOCK TYPE PLAN

GRID SIZE - 3.1m x 9.0m

DETAILS OF FLOOR SLAB

NOTES:

ABBREVIATIONS:

T - SL Top steel
alt - Slaggered
cra - Centred
SFL - Structural floor level
R - Mild steel
alt - Alternate
T - Top face
B - Bottom face

REINFORCEMENT BARS ARE LABELLED AS FOLLOWS:

Bar: Bar type or steel/Diameter/Bar mark/Section/Location/layer

eg. 10T10-07-150Y

CLEAR COVER TO MAIN REINFORCEMENT:

Beams - 30 Slab - 20

Top length of main c/c = 45 x diameter of the bar

All bars must be staggered wherever possible.

Plastering, base slabs and beams to be in 1:3 cement, sand mix without using lime.

CHARACTERISTIC STRENGTH OF MATERIALS:

Concrete - 20 N/mm²

SL Top steel - 460 N/mm² (BS 4449 Deformed type 2)

Mild steel - 250 N/mm²

Distribution steel R6-09 and R6-10 are shown only in one panel for clarity.

Distribution steel R6-32 and R6-18 are shown only in section Y-Y for clarity.

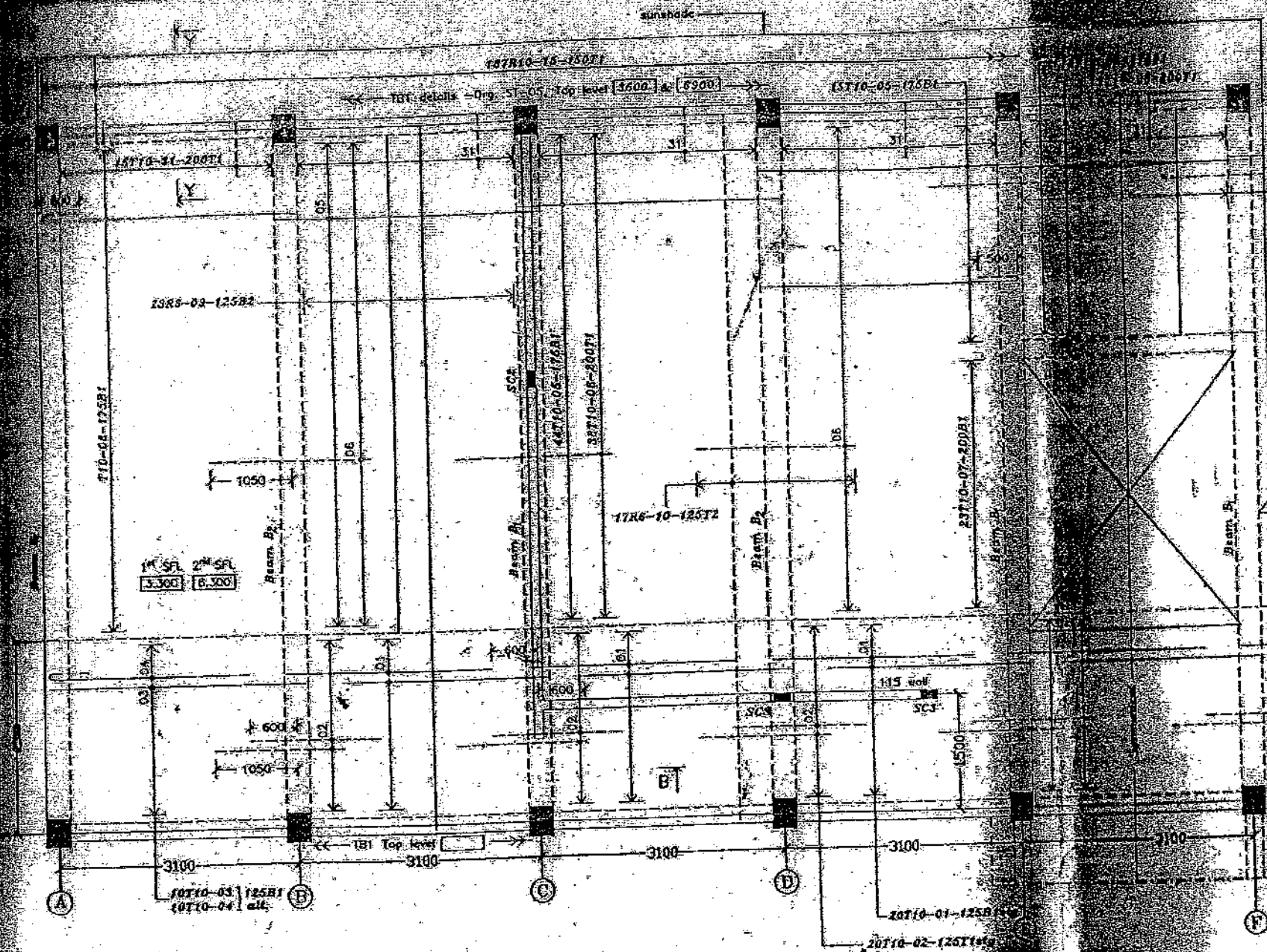
SCHOOL WORKS DIVISION MINISTRY OF EDUCATION

DRAWN: *Amsha*

SCHOOL WORKS ENGINEER

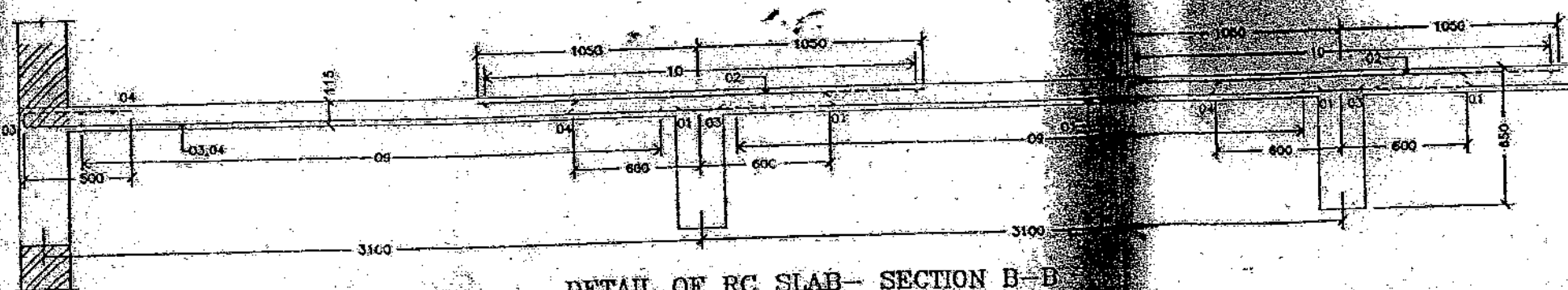
S. M. S. S. S.
DIRECTOR, SCHOOL WORKS

DATE	SCALE	PROJECT No.	DRAWING No.
06-07-05	As shown	1986	ST-02



REINFORCEMENT DETAILS OF 1st AND 2nd FLOOR SLABS

SCALE - 1:50

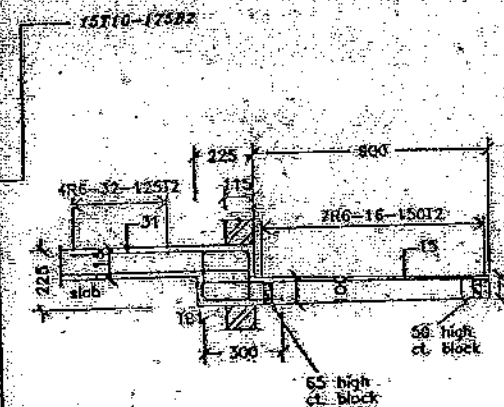


DETAIL OF RC SLAB- SECTION B-B

SCALE - 1:20

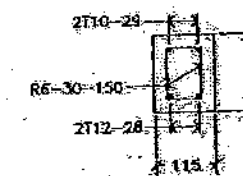
DETAIL OF RC SUNSHADE SECTION Y-Y

SCALE - 1:20



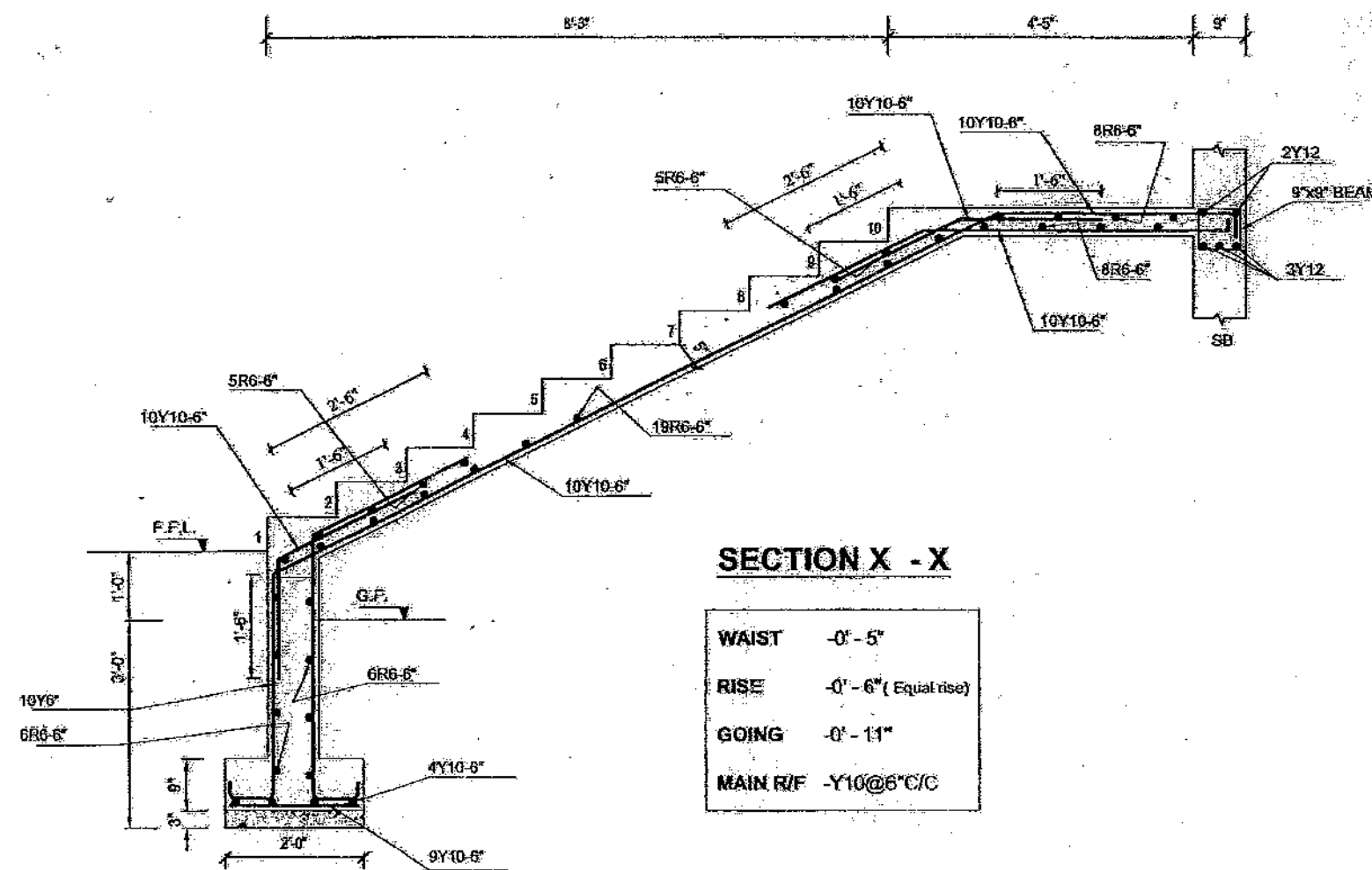
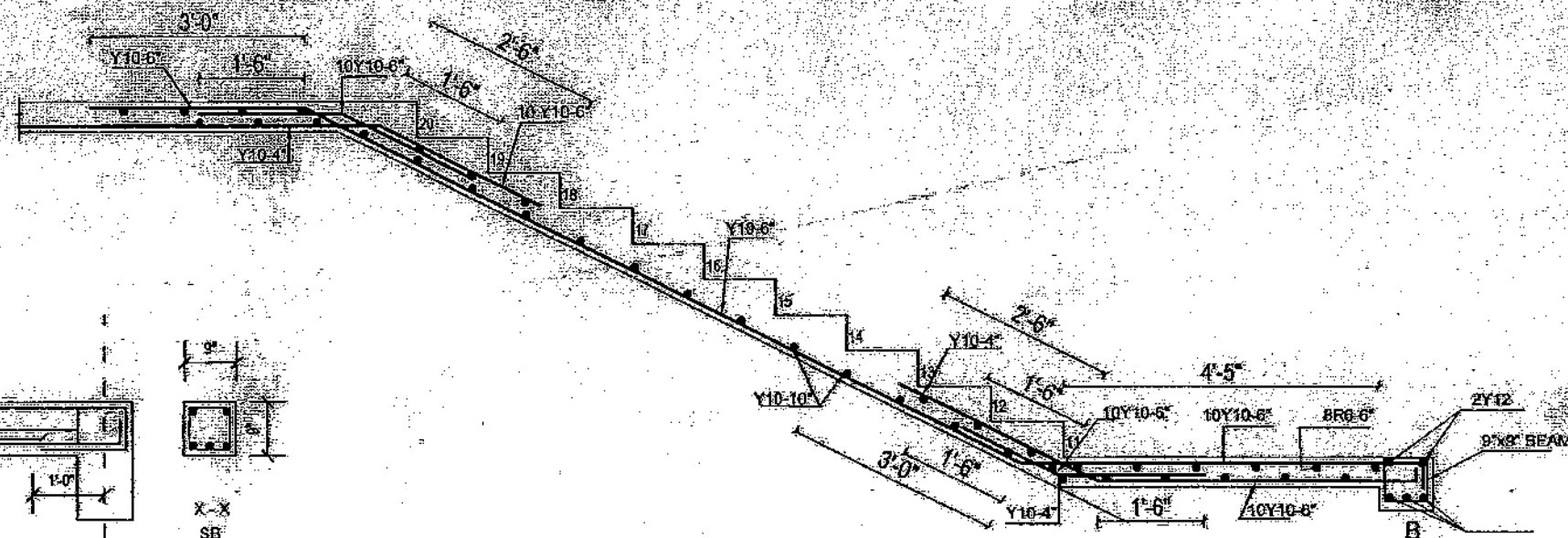
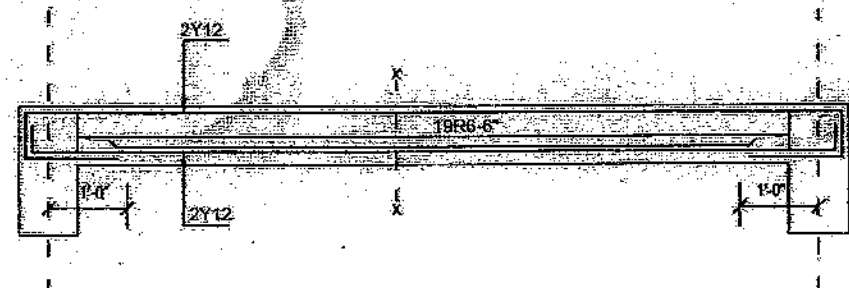
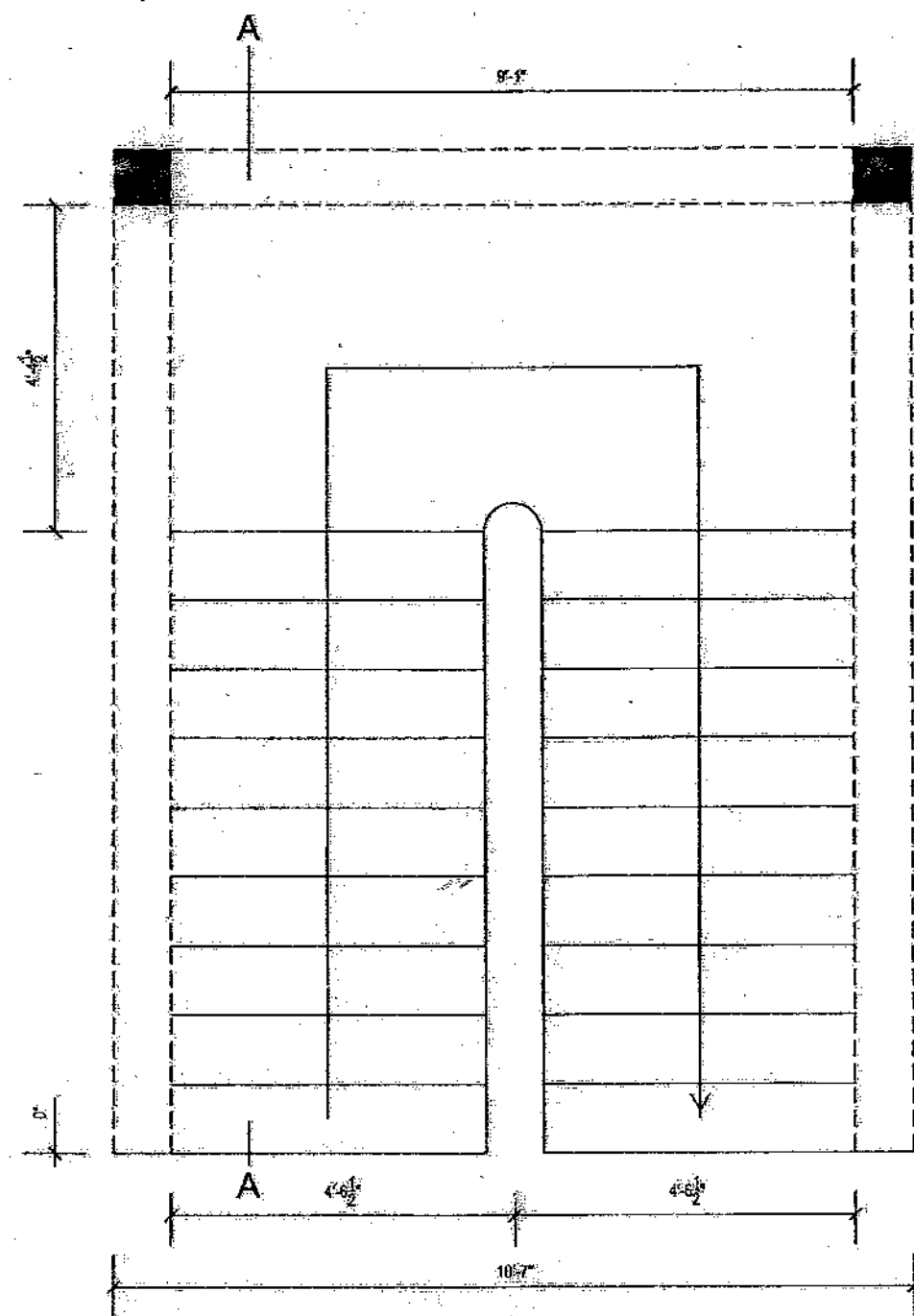
SECTION OF LINTOL L1

SCALE - 1:10

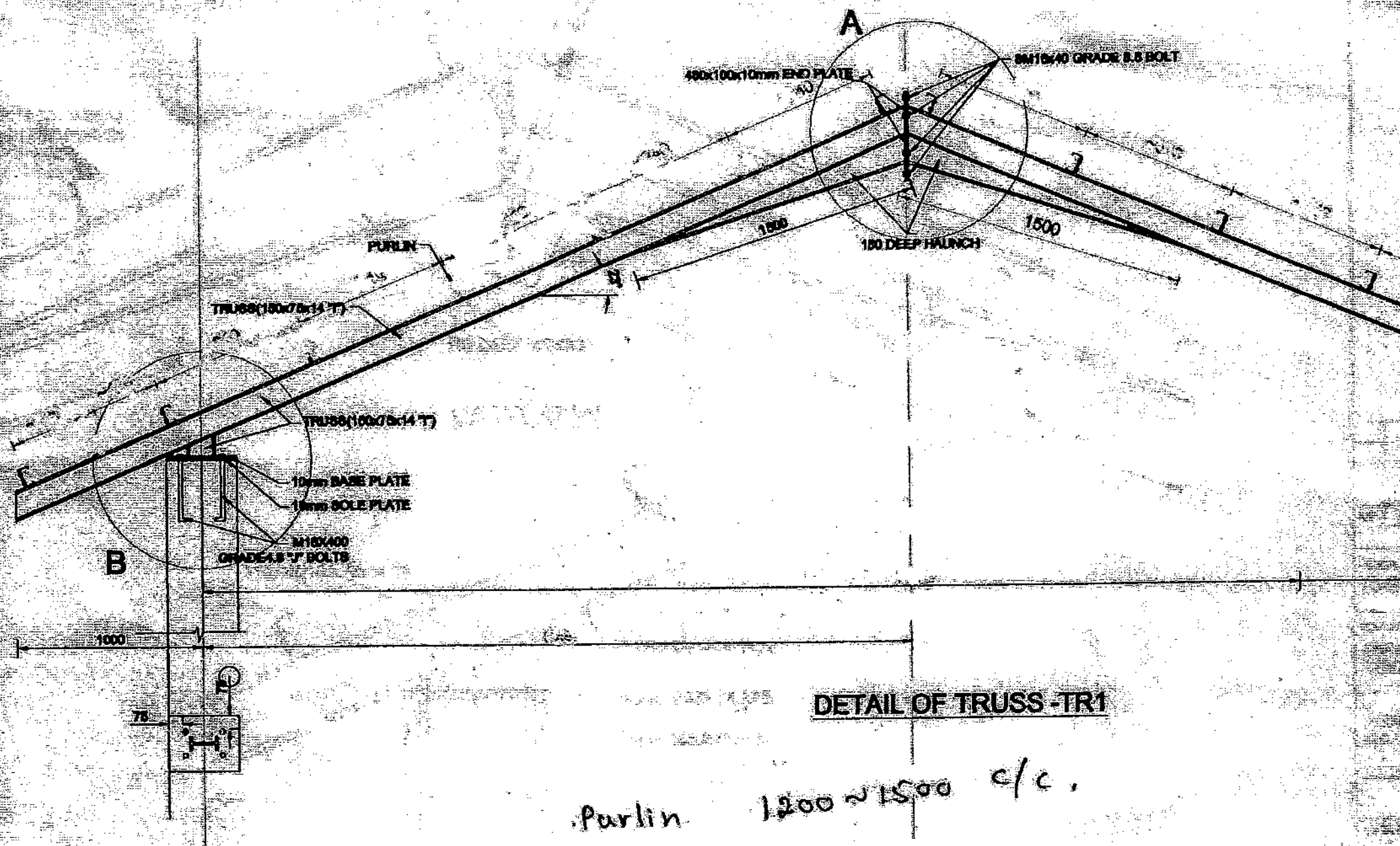


126

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SECTION A - A



NOTES

NO.	DATE	REV.	DESCRIPTION

CLIENT:
MINISTRY OF EDUCATION

CONSULTANT:
DEPARTMENT OF ENGINEERING SERVICE
CENTRAL PROVINCIAL COUNCIL

PROPOSED WORK:
TWO STORED BUILDING FOR SCHOOL

DESCRIPTION:
DETAIL OF TRUSS - TR1

DWG. NO.: DPC/0611/042018-178000000000

SCALE: 1:100

DESIGNED & CHECKED BY:

Eng. W.M.A. WICKRAMARATNE

DRAWN BY: J.M.S.S.

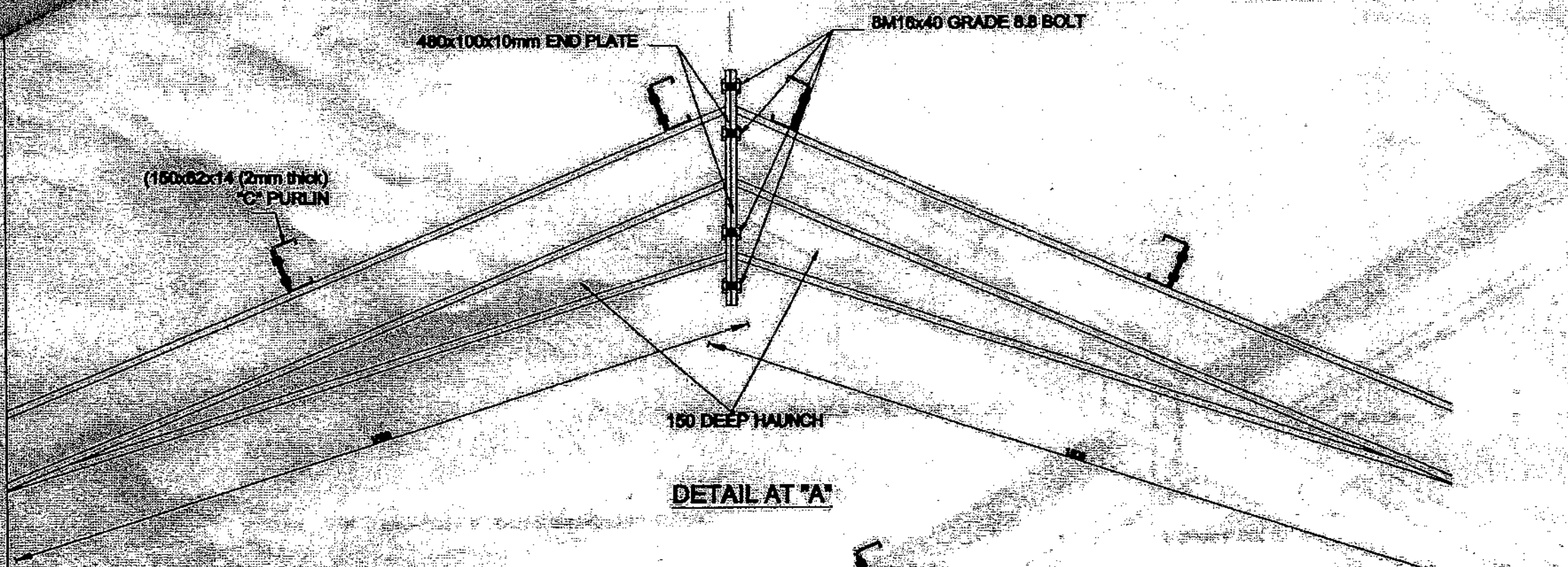
DATE: 13.10.2018

RECHECKED BY:

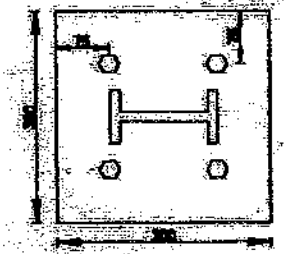
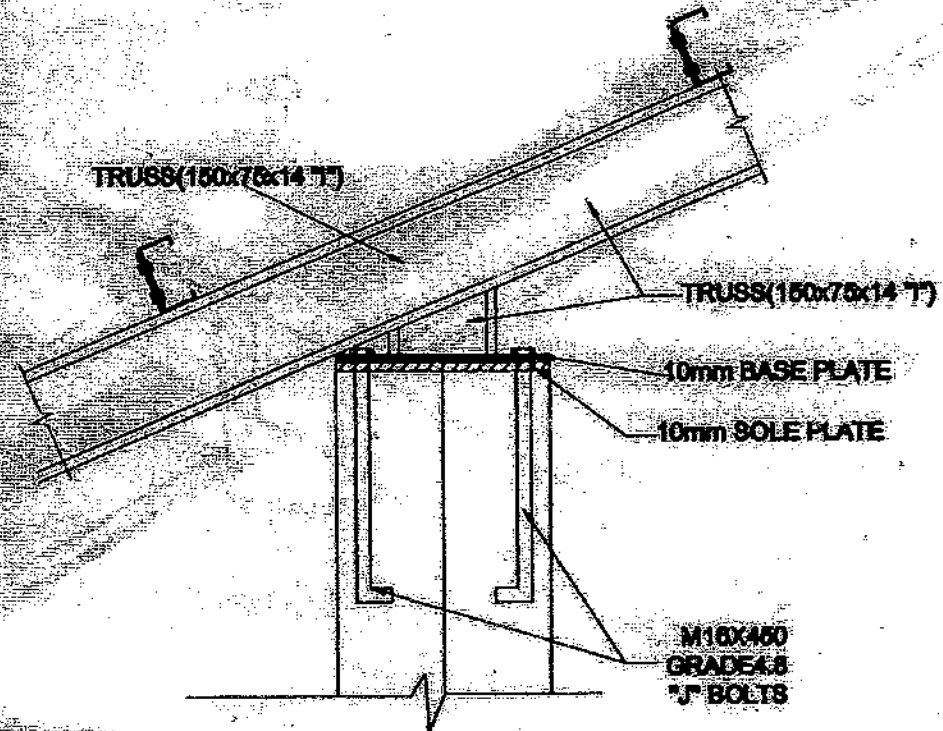
DEPUTY PROVINCIAL DIRECTOR (ENGINEERING SERVICE)
PLANNING

APPROVED BY:

PROVINCIAL DIRECTOR (ENGINEERING SERVICE)



DETAIL AT 'A'



DETAIL AT 'B'
(BASE PLATE CONNECTION)

NOTES:

REV.	DATE	BY	DESCRIPTION

CLIENT:
MINISTRY OF EDUCATION

COMMITTEE:
**DEPARTMENT OF ENGINEERING SERVICES,
CENTRAL PROVINCIAL COUNCIL**

**PROPOSED 10x20' TWO STORED B.T. DWG
FOR SCHOOL**

DRAWING TITLE:
DETAIL OF 'A' & 'B'

DWG. NO.: **CPD/EN/1/04/2015-1730/COLD/09/07**

SCALE: **1:100**

DESIGNED & CHECKED BY:

Eng. W.A. WICKRAMARACHCHI

DRAWN BY: **HEMMA**

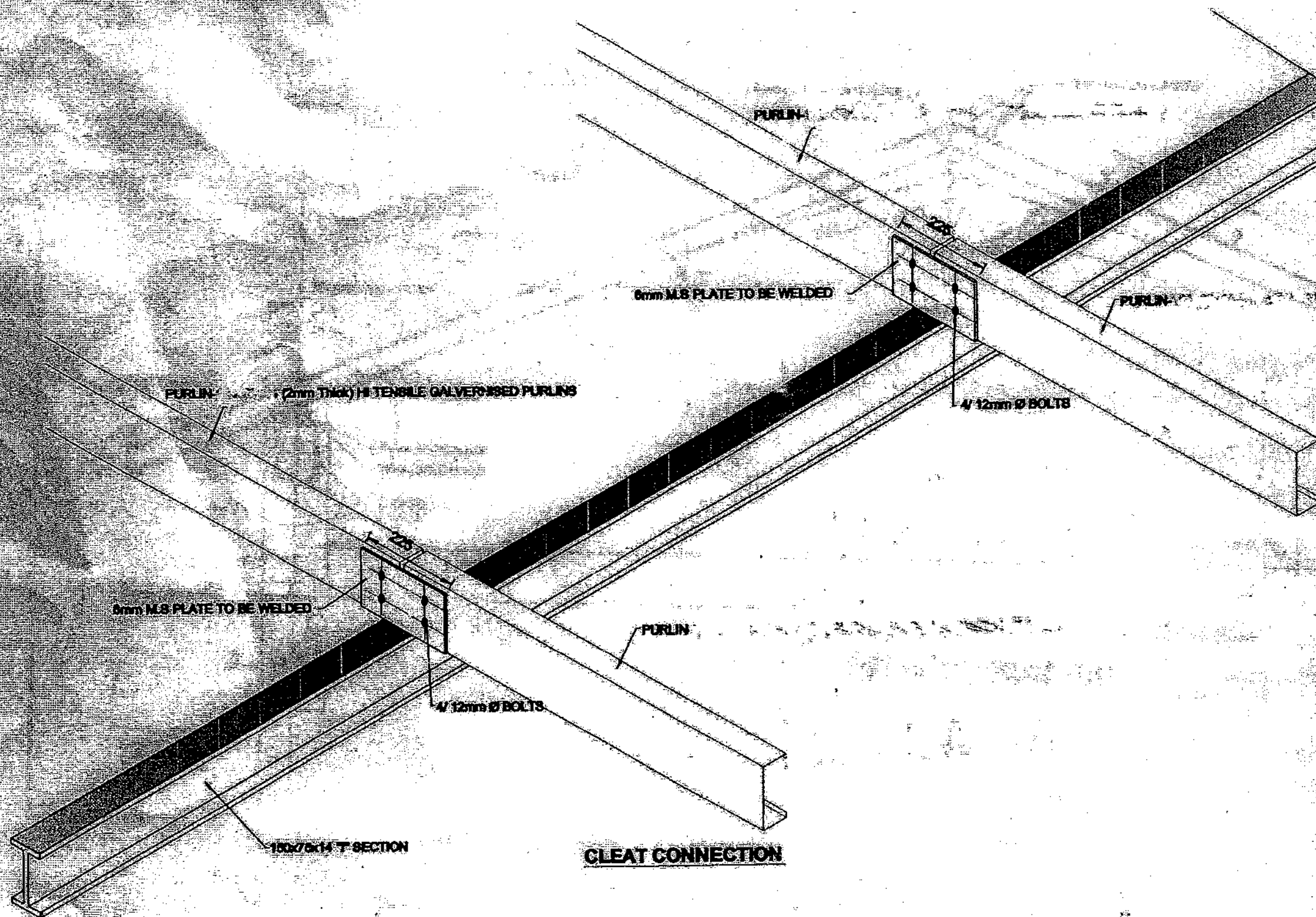
DATE: **15.10.2015**

RECOMMENDED BY:

**DEPUTY PROVINCIAL DIRECTOR (ENGR. SERV.)
PLANNING**

APPROVED BY:

PROVINCIAL DIRECTOR (ENGINEERING SERVICES)



NOTE:

REV	DATE	BY	DESCRIPTION

CLIENT:
MINISTRY OF EDUCATION

CONSULTANT:
DEPARTMENT OF ENGINEERING SERVICES,
CENTRAL PROVINCIAL COUNCIL

PROPOSED 99127 TWO STORED BUILDING
FOR SCHOOL

DRAWING TITLE:
DETAIL OF CLEAT

DRG. NO. - CPC/EN/1/DM2018-1180/COLD/08/07

SCALE - 1:100

DESIGNED & CHECKED BY:

By WMA WOODMANBINGHE

DRAWN BY: HELM

DATE: 12.10.2018

RECOMMENDED BY:

DEPUTY PROVINCIAL DIRECTOR (ENGR. SERV.)
PLANNING

APPROVED BY:

PROVINCIAL DIRECTOR (ENGINEERING SERVICES)