



BID DOCUMENT

Bid No. GNTZ/MPO/001/2025

For

**CONSTRUCTION OF 3 (THREE) COFFEE PROCESSING UNIT MBOZI
DISTRICT, SONGWE REGION**

SECTION I: INVITATION FOR TENDERS



Bid No. GNTZ/MPO/001/2025

for

**CONSTRUCTION OF 3 COFFEE PROCESSING UNIT (CPU) MBOZI DISTRICT,
SONGWE REGION**

Invitation for Tenders

Date: May 5, 2025

1. The Good Neighbors Tanzania has a plan to construct Three (3) Coffee Processing Units (CPU) in Itumpi, Idiwili and Nyimbili wards, Mbozi district, Songwe Region and it intends to implement the plan by hiring a qualified contractor according to its internal policy and secured budget for this project.
2. The Good Neighbors Tanzania now invites sealed tenders from eligible Tanzanian contractors registered in Class V and above for Coffee Processing Units (CPU) in Mbozi district- Songwe region.
3. Bidders may request a clarification of bidding document only up to two (2) days before the Bid submission deadline by sending email to Mbozi@goodneighbors.or.tz copy to Procurement@goodneighbors.or.tz
4. A complete set of Bid Document(s) in English is available for download
5. All Tenders must be accompanied by a Tender Securing Declaration in the format provided in the Tendering Documents.
6. All Tenders in one original plus one (1) copy, properly filled in, and enclosed in separate envelopes then wrapped together in one outer envelope must be delivered to the address Good Neighbors Tanzania, Mbozi project Office, near the regional office, along Tanzania-Zambia road before **11:30AM, 22nd May 2025**. Tenders shall be opened thereafter at the same address in the presence of the bidders Tenders will be opened promptly thereafter in public and in the presence of Tenderers' representatives who choose to attend.
7. Late tenders, portion of tenders, electronic tenders, tenders not received, tenders not opened and not read out in public at the tender opening ceremony shall not be accepted for evaluation irrespective of the circumstance.

[Good Neighbors Tanzania -Head Office]

SECTION II: INSTRUCTIONS TO TENDERERS

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		A. Introduction
1. Scope of Tender	1.1	The Procuring Entity (PE) indicated in the Tender Data Sheet (TDS) invites Tenders for the construction of works as specified in the TDS and Section VII, Specification.
	1.2	The successful Tenderer will be expected to complete the works by the required completion date specified in the TDS .
	1.3	Unless otherwise stated, throughout this bidding document definitions and interpretations shall be as prescribed in General Conditions of Contract.
2. Source of Funds	2.1	The Good Neighbor Tanzania has set aside sufficient funds for the operations of the PE named in the TDS during the Financial Year indicated in the TDS . It is intended that part of the proceeds of the funds will be applied to cover eligible payments under the contract for the works as described in the TDS . Or The Good Neighbors Tanzania has set aside sufficient funds towards the cost of the Project named in the TDS . Good Neighbors Tanzania intends to apply a part of the proceeds of this [loan/credit/grant] to payments under the Contract described in the TDS .
	2.2	Payments will be made directly by the PE (or by financing institution specified in the TDS upon request of the PE to so pay) and will be subject in all respects to the terms and conditions of the resulting contract placed by the PE.
3. Eligible Tenderers	3.1	A Tenderer may be natural persons, companies or firms or public or semi-public agencies of Tanzania and foreign countries, subject to ITT 3.4 or any combination of them with a formal intent or letter of intent to enter into an agreement or under an existing agreement in the form of a joint venture, consortium, or association. In the case of a joint venture, consortium, or association, all members shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms. The joint venture, consortium, or association shall nominate a Lead Member who shall have the authority to conduct all business for and on behalf of any and all the members of the joint venture, consortium, or association during the tendering process and, in the event the joint venture, consortium, or association is awarded the Contract, during contract execution. Unless specified in the TDS , there is no limit on the number of members in a joint venture, consortium, or association.
	3.2	The appointment of a Lead Member in the joint venture, consortium, or association shall be confirmed by submission of a valid Power of Attorney to the PE.
	3.3	Any agreement that forms a joint venture, consortium or association shall be required to be submitted as part of the tender and shall be attested.

	3.4	Any Tender from a joint venture, consortium or association shall indicate the part of proposed contract to be performed by each party and each party shall be evaluated or post qualified with respect to its contribution only and the responsibilities of each party and shall not be substantially altered without prior written approval of the PE.
	3.5	The invitation for Tenders is open to all Tenderers as defined in the Public Procurement Regulations, 2013 – Government Notice No. 446, and Public Procurement (Amendment) Regulations, 2016 – Government Notice No. 333 except as provided hereinafter.
	3.6	National Tenderers shall satisfy all relevant licensing and/or registration with the appropriate statutory bodies in Tanzania.
	3.7	<p>A Tenderer shall not have a conflict of interest. All Tenderers found to have a conflict of interest shall be disqualified. A Tenderer may be considered to have a conflict of interest with one or more parties in this tendering process, if they:</p> <ul style="list-style-type: none"> a) Are associated or have been associated in the past, directly or indirectly with a firm or any of its affiliates which have been engaged by the PE to provide consulting services for the preparation of the design, specifications and other documents to be used for the procurement of the works under this Invitation for Tenders. b) have controlling shareholders in common; or c) receive or have received any direct or indirect subsidy from any of them; or d) have the same legal representative for purposes of this Tender; or e) have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Tender of another Tenderer, or influence the decisions of the PE regarding this tendering process; or f) submit more than one Tender in this tendering process, However, this does not limit the participation of subcontractors in more than one Tender, or as Tenderers and subcontractors simultaneously; or g) Participated as a consultant in the preparation of the design or technical specifications of the works and related services that are the subject of the Tender.
	3.8	<p>A Tenderer may be ineligible if –</p> <ul style="list-style-type: none"> (a) the Tenderer is declared bankrupt or, in the case of company or firm, insolvent. (b) payments in favor of the Tenderer is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting, in accordance with the national laws, in the total or partial loss of the right to administer and dispose of its property; (c) legal proceedings are instituted against such tenderer involving an order suspending payments and which may result, in accordance with the national laws, in a declaration of bankruptcy or in any other situation entailing the total or partial loss of the right to administer and dispose of the property; (d) the tenderer is convicted, by a final judgment, of any offence

	3.9	<p>involving professional conduct;</p> <p>(e) the Tenderer is debarred and blacklisted in accordance with Section 62 of the Act or ineligible in accordance with Section 84(7) of the Act as amended in 2016, from participating in public procurement for corrupt, coercive, collusive, fraudulent or obstructive practices, failure to abide with a Bid Securing Declaration, breach of a procurement contract, making false representation about his qualifications during tender proceeding or other grounds as may be deemed necessary by the Authority company or firm is found guilty of serious misrepresentation with regard to information required for participation in an invitation to tender or to submit proposals.</p> <p>Public or Semi-public owned enterprises in the United Republic of Tanzania may participate only if they are legally and financially autonomous, if they operate under commercial law, are registered by the relevant registration board or authorities and if they are not a dependent agency of the Government.</p>
	3.10	Tenderers shall provide the PE evidence of their eligibility, proof of compliance with the necessary legal, technical and financial requirements and their capability and, adequacy of resources to carry out the contract effectively.
	3.11	Tenderers shall provide such evidence of their continued eligibility satisfactory to the PE, as the PE shall reasonably request.
	3.12	Tenderers shall, if so, indicated in the TDS , submit proposals relating to the nature, conditions and modalities of sub-contracting wherever the sub-contracting of any elements of the contract amounting to more than ten percent of the tender price is envisaged.
4. One Tender per Tenderer	4.1	A firm shall submit only one Tender, in the same tendering process, either individually as a Tenderer or as a partner in a joint venture.
	4.2	No firm can be a subcontractor while submitting a Tender individually or as a partner of a joint venture in the same tendering process.
	4.3	A firm, if acting in the capacity of subcontractor in any Tender, may participate in more than one Tender but only in that capacity.
	4.4	A Tenderer who submits or participates in more than one Tender (other than as a subcontractor or in cases of alternatives that have been permitted or requested) will cause all the Tenders in which the Tenderer has participated to be disqualified.
5. Cost of Tendering	5.1	The Tenderer shall bear all costs associated with the preparation and submission of his Tender, and the PE will in no case be responsible or liable for those costs except in the circumstances described in Section 97(5) (f) of the Public Procurement Act No. 7 of 2011 as amended in 2016.
6. Site Visit and Pre- Tender Meeting	6.1	The Tenderer, at the Tenderer's own responsibility and risk, is advised to visit and examine the Site of Works and its surroundings and obtain all the information that may be necessary for preparing the Tender and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Tenderer's own expense.

	6.2	The PE may conduct a site visit and a pre-tender meeting. The purpose of the pre-tender meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage. However, THIS OPTION IS NOT MANDATORY.
	6.3	The Tenderer's designated representative is invited to attend a site visit and pre-tender meeting which, if convened, will take place at the venue and time stipulated in the TDS.
	6.4	The Tenderer is requested as far as possible, to submit any questions in writing or electronic forms that provide record of the content of communication to reach the PE before the pre-tender meeting. It may not be practicable at the meeting to answer all questions, but questions and responses will be transmitted in accordance with ITT 6.5.
	6.5	Minutes of the pre-tender meeting, including the text of the questions raised and the responses given together with any responses prepared after the pre-tender meeting will be transmitted within three (3) days to all purchasers of the Tendering Documents. Any modification of the Tendering Documents listed in ITT 7.1 [Content of Tendering Documents] that may become necessary as a result of the pre-tender meeting shall be made by the PE exclusively through the issue of an Addendum pursuant to ITT 9.2 [Amendments of the Tendering Documents] and not through the minutes of the pre-tender meeting.
		B. Tendering Documents
7. Content of Tendering Documents	7.1	The works required, tendering procedures, and contract terms are prescribed in the Tendering Documents. In addition to the Section I Invitation for Tenders, Tendering Documents which should be read in conjunction with any addenda issued in accordance with ITT 9.2 [Amendments of the Tendering Documents] include:
		Section II Instructions to Tenderers; Section III Tender Data Sheet; Section VII Drawings. Section VIII Bill of Quantities;
	7.2	The number of copies to be completed and returned with the Tender is specified in the TDS.
	7.3	The Invitation for Tenders (Section I) issued by the PE is not part of the Tendering Documents. In case of discrepancies between the Invitation for Tender and the Tendering Documents listed in ITT 7.1, said Tendering Documents will take precedence.
	7.4	The PE is not responsible for the completeness of the Tendering Documents and their addenda, if they were not obtained directly from the PE.
	7.5	The Tenderer is expected to examine all instructions, forms, terms and specifications in the Tendering Documents. Failure to furnish all information required by the Tendering Documents or to submit a Tender substantially responsive to the Tendering Documents in every respect will be at the Tenderer's risk and may result in the rejection of its Tender.

8. Clarification of Tendering Documents	8.1	A prospective Tenderer requiring any clarification of the Tendering Documents may notify the PE in writing or electronic forms that provide record of the content of communication at the PE's address indicated in the TDS .
	8.2	The PE will within three (3) working days after receiving the request for clarification respond in writing or electronic forms that provide record of the content of communication to any request for clarification provided that such request is received no later than the two (2) days prior to the deadline for the submission of competitive Tenders prescribed in ITT 22.1 [Deadline for Submission of Tenders] and in the case of non-competitive methods, three (3) days prior to the deadline.
	8.3	Copies of the PE's response will be forwarded to all Purchasers of the Tendering Documents, including a description of the inquiry, but without identifying its source.
	8.4	Should the PE deem it necessary to amend the Tendering Documents as a result of a clarification, it shall do so following the procedure under ITT 9 [Amendments of the Tendering Documents].
9. Amendments of the Tendering Documents	9.1	Before the deadline for submission of tenders, the PE for any reason, whether at its own initiative or in response to a clarification requested by a prospective Tenderer, the PE may modify the Tendering Documents by issuing addenda.
	9.2	Any addendum issued including the notice of any extension of the deadline shall be part of the Tendering
		Document pursuant to ITT 7.1 [Content of Tendering Documents] and shall be communicated in writing or electronic forms that provide record of the content of communication to Tenderers to which the PE provided the Tendering Documents.
	9.3	In order to allow prospective Tenderers reasonable time in which to take an addendum into account in preparing their Tenders, the PE at its discretion shall extend, as necessary, the deadline for submission of Tenders, in accordance with sub-ITT 22.2 [Deadline for Submission of Tenders].
		C: Preparation of Tenders
10. Language of Tender	10.1	The Tender, and all correspondence and documents related to the Tender exchanged by the Tenderer and the PE, shall be written in the Tender language stipulated in the TDS . Supporting documents and printed literature furnished by the Tenderer may be in another language provided they are accompanied by an accurate translation of the relevant passages in the above stated language, in which case, for purposes of interpretation of the Tender, the translation shall prevail.
11. Documents Constituting the Tender	11.1	The Tender submitted by the Tenderer shall comprise the following: a) The Form of Tender (in the format indicated in Section IX) in accordance with ITT 14 [Form of Tender], 15 [Tender Currencies] and 16 [Tender Currencies]; b) Information requested by Instructions to Tenderers ITTs 12.2; 12.3 and 12.4 [Documents Establishing Eligibility and Qualifications of the Tenderer]; c) Tender security or Tender securing declaration in accordance with Instructions to Tenderers ITT 18 [Tender Security or Bid Securing

		<p>Declaration];</p> <p>d) Priced Bill of Quantities.</p> <p>e) Qualification Information Form and Documents;</p> <p>f) Alternative offers where invited in accordance with Instructions to Tenderers ITT 19 [Alternative Tenders by Tenderers];</p> <p>g) Dully Notarized power of attorney authorizing signatory of the Tender to commit the Tenderer in accordance with ITT sub-Clause 20.2 [Format and Signing of Tender]; and</p> <p>h) any information or other materials required to be completed and submitted by Tenderers, as specified in the TDS.</p>
	11.2	Pursuant to ITT 12, the Tenderer shall furnish, as part of Its Tender, documents establishing the Tenderer's eligibility to Tender and its qualifications to perform the contract if its Tender is accepted.
12	12.2	In the event that pre-qualification of potential Tenderers has been undertaken, only Tenders from pre-qualified Tenderers will be considered for award of contract. These qualified Tenderers should submit their Tenders with any information updating the original pre-qualification applications or, alternatively, confirm in their Tenders that the originally submitted pre-qualification information remains essentially correct as of the date of Tender submission. The update or confirmation should be provided in Section IX.
	12.3	If the PE has not undertaken pre-qualification of potential Tenderers, to qualify for award of the contract, Tenderers shall meet the minimum qualifying criteria specified in the Section IX - Tender Forms: Form of Qualification Information .
	12.4	<p>Tenders submitted by a joint venture, consortium or association shall comply with the following requirements, unless otherwise stated in the TDS:</p> <p>a) the Tender shall include all the information listed in the TDS pursuant to ITT 12.3 above for each joint venture partner;</p> <p>b) the Tender shall be signed so as to be legally binding on all partners;</p> <p>c) one of the partners will be nominated as being in charge, and this authorization shall be evidenced by submitting a Power of Attorney signed by legally authorized signatories of all the partners;</p> <p>d) the partner in charge shall be authorized to incur liabilities and receive instructions for and on behalf of any and all partners of a joint venture and the entire execution of the Contract, including payment, shall be done exclusively with the partner in charge;</p> <p>e) all partners of the joint venture shall be liable jointly and severally for the execution of the contract in accordance with the contract terms and a statement to this effect shall be included in the authorization mentioned under (c) above as well as in the Tender and in the Agreement (in case of a successful Tender); and</p> <p>f) a copy of the joint venture agreement into by all partners shall be submitted with the Tender. Alternatively, a Letter of Intent to execute a joint venture agreement in the event of a successful Tender shall be signed by all partners and submitted with the Tender, together with a copy of the proposed Agreement.</p> <p>g) the Tender Security or Bid Securing Declaration as stated in accordance with ITT 18 [Tender Security or Bid Securing Declaration], and in case of a successful Tender, the Agreement,</p>

		shall be signed so as to be legally binding on all partners.
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13. Slice and Package	13.1	When tendering for more than one contract under the slice and package arrangements, the Tenderer must provide evidence that it meets or exceeds the sum of all the individual requirements for the slices or lots being tendered in regard to: - a) average annual turnover; b) particular experience including key production rates; c) financial means; d) personnel capabilities; and e) Equipment capabilities.
	13.2	In case the Tenderer fails to fully meet any of these criteria, it may be qualified only for those slices for which the Tenderer meets the above requirement.
14. Form of Tender	14.1	The Tenderer shall fill the Form of Tender furnished in the Tendering Documents. The Form of Tender must be completed without any alterations to its format and no substitute shall be accepted.
15. Tender Prices	15.1	The Contract price shall be for the whole Works, as described in ITT 1.1 [Scope of Tender], based on the priced Bill of Quantities submitted by the Tenderer.
	15.2	The Tenderer shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items for which no rate or price is entered by the Tenderer will not be paid for by the PE when executed and shall be deemed covered by the other rates and prices in the Bill of quantities.
	15.3	All duties, taxes and other levies payable by the Contractor under the Contract as provided in the TDS , or for any other cause, as of the date 28 days prior to the deadline for submission of Tenders, shall be included in the rates, prices and total Tender price submitted by the Tenderer.
	15.4	The rates and prices quoted by the Tenderer shall be subject to adjustment during the performance of the Contract if provided for in the TDS and the provisions of the Conditions of Contract. The Tenderer shall submit with the Tender all the information required under the SCC .
16. Tender Currencies	16.1	The unit rates and prices shall be quoted by the Tenderer entirely in Tanzania shillings or as specified in the TDS .

	16.2	In case of a foreign tenderer, the rates of exchange to be used by the Tenderer in arriving at the local currency equivalent shall be the selling rates for similar transactions established by the authority specified in the TDS prevailing on the date 28 days prior to the latest deadline for submission of Tenders.
	16.3	Tenderers may be required by the PE to clarify their foreign currency requirements and to substantiate that the amounts included in the rates and prices and in the SCC are reasonable and responsive to ITT 16.1.
17. Tender Validity Period	17.1	Tenders shall remain valid for the period specified in the TDS after the Tender submission deadline prescribed by the PE, pursuant to ITT 22 [Deadline for Submission of Tenders]. A Tender valid for a shorter period shall be rejected by the PE as non-responsive.
	17.2	In exceptional circumstances, prior to expiry of the original Tender validity period, the PE may request that the Tenderers to extend the period of validity for a specified additional period. The request and the Tenderers' responses shall be made in writing or by electronic forms that provide record of the content of communication. A Tenderer may refuse the request without forfeiting its Tender security or causing to be executed its Tender securing declaration. A Tenderer agreeing to the request will not be required or permitted to otherwise modify the Tender, but will be required to extend the validity of its Tender security or Tender Securing declaration for the period of the extension, and in compliance with ITT 18 [Tender Security or Bid Securing Declaration] in all respects.
	17.3	In the case of fixed price contracts, if the award is delayed by a period exceeding sixty (60) days beyond the expiry of the initial Tender validity period, the contract price may be adjusted by a factor specified in the request for extension. The Tender evaluation shall be based on the Tender price without taking into consideration on the above correction.
18. Tender Security or Bid Securing Declaration	18.1	Pursuant to ITT 11 [Documents Constituting the Tender], unless otherwise specified in the TDS , the Tenderer shall furnish as part of its Tender, a Tender Security in original form and in the amount and currency specified in the TDS or Bid Securing Declaration as specified in the TDS in the format provided in Section IV.
	18.2	The Tender Security or Bid Securing Declaration is required to protect the PE against the risk of Tenderer's conduct which would warrant the security's forfeiture, pursuant to ITT 18.9 [Tender Security].

	18.3	<p>The Tender Security shall be denominated in the currency of the Tender or in another freely convertible currency, and it shall be in the form specified in the TDS which shall be in any of the following:</p> <ul style="list-style-type: none"> a) a bank guarantee, an irrevocable letter of credit issued by a reputable bank, or an insurance bond issued by a reputable insurance firm of their choice located in any eligible country, in the form provided in the Tendering Documents or another form acceptable to the PE and valid for twenty eight (28) days beyond the end of the validity of the Tender. This shall also apply if the period for Tender validity is extended. In either case, the form must include the complete name of the Tenderer; or, b) a cashier's or certified cheque. c) another security if indicated in the TDS <ul style="list-style-type: none"> (i) sign the contract, or (ii) furnish the required performance security
	18.4	<p>The Tender Security or Bid Securing Declaration shall be in accordance with the Forms included in Section VIII or another form approved by the PE prior to the Tender submission.</p>
	18.5	<p>The Tender Security shall be payable promptly upon written demand by the PE in case any of the conditions listed in ITT 18.9 are invoked.</p>
	18.6	<p>Any Tender not accompanied by a Tender security in accordance with ITTs 18.1 or 18.3 shall be rejected by the PE as non-responsive, pursuant to ITT 28 [Preliminary Examination of Tenders].</p>
	18.7	<p>Unsuccessful Tenderers' Tender security will be discharged or returned as promptly as possible not later than thirty (30) days after the expiration of the period of Tender validity prescribed by the PE pursuant to ITT 17 [Tender Validity Period]. The PE shall make no claim to the amount of the tender security, and shall promptly return the tender security document, after whichever of the following that occurs earliest:</p> <ul style="list-style-type: none"> (a) the expiry of the tender security; (b) the entry into force of a procurement contract and the provision of a security for the performance of the contract if such a security is required by the solicitation documents; (c) the rejection by the PE of all tenders; (d) the withdrawal of the tender prior to the deadline for the submission of tenders, unless the solicitation documents stipulate that no such withdrawal is permitted.

	18.8	The successful Tenderer's Tender security will be discharged upon the Tenderer signing the contract, pursuant to ITT 40 [Signing of Contract], and furnishing the performance security, pursuant to ITT 41 [Performance Security].
	18.9	The Tender security may be forfeited, or the Tender securing declaration executed: a) if a Tenderer i) withdraws its Tender during the period of Tender validity specified by the Tenderer on the Tender Form except as provided for in ITT 17.2 [Tender Validity Period]; or ii) does not accept the correction of errors pursuant to ITT 29 [Correction of Errors]; or b) in the case of a successful Tenderer, if the Tenderer fails: i) to sign the contract in accordance with ITT 40 [Signing of Contract]; or ii) to furnish performance security in accordance with ITT 41 [Performance Security].
	18.10	The Tender Security or Bid Securing Declaration of a joint venture must be in the name of the joint venture submitting the Tender.
	18.11	A Tenderer shall be suspended from being eligible for tendering in any contract with the PE for the period of time indicated in the Tender Securing Declaration: (a) if the Tenderer withdraws its Tender, except as provided in ITTs 17.2 [Tender Validity] Period and Clause 29 [Correction of Errors]; or (b) in the case of a successful Tenderer, if the Tenderer fails within the specified time limit to: (i) sign the contract, or (ii) furnish the required performance security
19. Alternative Tenders by Tenderers	19.1	Tenderers shall submit offers that comply with the requirements of the Tendering Documents, including the basic Tenderer's technical design as indicated in the specifications and Drawings and Bill of Quantities. Alternatives will not be considered, unless specifically allowed for in the TDS. If so allowed ITT 19.2 and 19.3 shall govern.
	19.2	When alternative times for completion are explicitly invited, a statement to that effect will be included in the TDS as will the method of evaluating different times for completion.
	19.3	If so allowed in the TDS, Tenderers wishing to offer technical alternatives to the requirements of the Tendering Documents must also submit a Tender that complies with the requirements of the Tendering Documents, including the basic technical design as indicated in the specifications. In addition to submitting the basic Tender, the Tenderer shall provide all

		information necessary for a complete evaluation of the alternative by the PE, including technical specifications, breakdown of prices, and other relevant details. Only the technical alternatives, if any, of the lowest evaluated Tenderer conforming to the basic technical requirements shall be considered by the PE.
20. Format and Signing of Tender	20.1	The Tenderer shall prepare one original of the documents comprising the Tender as described in ITT 11 [Documents Constituting the Tender] of these Instructions to Tenderers, with the Form of Tender, and clearly marked "ORIGINAL". In addition, the Tenderer shall submit a copy of the Tender, in the number specified in the TDS, and clearly marked as "COPY". In the event of discrepancy between them, the original shall prevail.
	20.2	The original and all copies of the Tenders shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Tenderer. This authorization shall consist of a written confirmation as specified in the TDS and shall be attached to the Tender. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Tender, except for un-amended printed literature, shall be initialed by the person or persons signing the Tender.
	20.3	Any interlineations, erasures, or overwriting shall be valid only if they are initialed by the person or persons signing the Tender. The Tenderer shall furnish information as described in the Form of Tender on commissions or gratuities, if any, paid or to be paid to agents relating to this Tender and to contract execution if the Tenderer is awarded the contract
		D. Submission of Tenders
21. Sealing and Marking of Tenders	21.1	The Tenderer shall seal the original and each copy of the Tender in separate envelopes, duly marking the envelopes as "ORIGINAL" and "COPY." The envelopes shall then be sealed in an outer envelope securely sealed in such a manner that opening and resealing cannot be achieved undetected.
	21.2	The inner and outer envelopes shall: <ul style="list-style-type: none"> a) be addressed to the PE at the address given in the TDS; and b) bear the Project name indicated in the TDS, the Invitation for Tenders (IFT) title and number indicated in the TDS, and a statement: "DO NOT OPEN BEFORE," to be completed with the time and the date specified in the TDS, pursuant to ITT 22.1 [Deadline for Submission of Tenders].

	21.3	In addition to the identification required in ITT 21.2, the inner envelopes shall also indicate the name and address of the Tenderer to enable the Tender be returned unopened in case it is declared late, pursuant to ITT 22.1 [Deadline for Submission of Tenders] and for matching purpose under ITT 24 [Modification, Substitution and Withdrawal of Tenders].
	21.4	If all envelopes are not sealed and marked as required by ITT 21.1, 21.2 and 21.3, or incorrectly marked the PE shall assume no responsibility for the misplacement or premature opening of the Tender.
	21.5	If the outer envelope discloses the Tenderer's identity, the PE will not guarantee the anonymity of the Tender submission, but this shall not constitute grounds for rejection of the Tender.
22. Deadline for Submission of Tenders	22.1	Tenders shall be received by the PE at the address specified under ITT 21.2 [Sealing and Marking of Tenders] no later than the date and time specified in the TDS .
	22.2	The PE may, in exceptional circumstances and at its discretion, extend the deadline for the submission of Tenders by amending the Tendering Documents in accordance with ITT 9 [Amendments of the Tendering Documents], in which case all rights and obligations of the PE and Tenderers previously subject to the deadline will thereafter be subject to the new deadline.
	22.3	The extension of the deadline for submission of Tenders shall not be made later than the period specified in the TDS before the expiry of the original deadline.
23. Late Tenders	23.1	The PE shall not consider for evaluation any Tender that arrives after the deadline for submission of Tenders, in accordance with ITT 22 [Deadline for Submission of Tenders].
	23.2	Any Tender received by the PE after the deadline prescribed in ITT 22 [Deadline for Submission of Tenders] will be declared late, recorded, rejected and returned unopened to the Tenderer.
24. Modification, Substitution and Withdrawal of Tenders	24.1	A Tenderer may modify or substitute or withdraw its Tender after it has been submitted, provided that written notice of the modification, including substitution or withdrawal of the Tender, is received by the PE prior to the deadline prescribed for submission of Tenders prescribed under ITT 22.1 [Deadline for Submission of Tenders].
	24.2	The Tenderer's modification or substitution or withdrawal notice shall be prepared, sealed, marked, and dispatched in accordance with the provisions of ITTs 20 [Format and Signing of Tender] and 21 [Sealing and Marking of Tenders] with the outer and inner envelopes additionally marked " MODIFICATION " or SUBSTITUTION or " WITHDRAWAL " as appropriate. The notice may also be sent by electronic mail, facsimile, but followed by a signed confirmation copy, postmarked no later than the deadline for

		submission of Tenders
	24.3	No Tender may be withdrawn, replaced or modified in the interval between the deadline for submission of Tenders and the expiration of the period of Tender validity specified by the Tenderer on the Tender Form. Withdrawal of a Tender during this interval shall result in the Tenderer's forfeiture of its Tender security or execution of Tender Securing Declaration, pursuant to the ITT 18.9 [Tender Security or Bid Securing Declaration].
	24.4	Withdrawal of a Tender between the deadline for submission of Tenders and the expiration of the period of Tender validity or as extended pursuant to ITT 17.2 [Tender Validity Period] shall result in the forfeiture of the Tender security or execution of Tender securing declaration pursuant to ITT 18.9 [Tender Security or Bid Securing Declaration].
	24.5	Tenderers may only offer discounts to, or otherwise modify the prices of their Tenders by submitting Tender modifications in accordance with this Clause, or included in the original Tender submission.
		E. Opening and Evaluation of Tenders
25. Opening of Tenders	25.1	The PE will open all Tenders including modifications, substitution or withdraw notices made pursuant to ITT 24 [Modification, Substitution and Withdrawal of Tenders], in public, in the presence of Tenderers' or representatives who choose to attend and other parties with legitimate interest and Tender proceedings, at the place on the date and at time specified in the TDS. The Tenderers' representatives who are present shall sign a register as proof of their attendance.
	25.2	Envelopes marked "WITHDRAWAL" shall be opened and read out first. Tenders for which an acceptable notice of withdrawal has been submitted pursuant to ITT 24 [Modification, Substitution and Withdrawal of Tenders] shall not be opened but returned to the Tenderer. If the withdrawal envelope does not contain a copy of the "Power of Attorney" confirming the signature as a person duly authorized to sign on behalf of the Tenderer, the corresponding Tender will be opened. Subsequently, all envelopes marked "MODIFICATION" shall be opened and the submissions therein read out in appropriate detail. Thereafter all envelopes marked or "SUBSTITUTION" opened and the submissions therein read out in appropriate detail.

	25.3	All other envelopes shall be opened one at a time. The Tenderers' names, the Tender prices, the total amount of each Tender and of any alternative Tender (if alternatives have been requested or permitted), any discounts, the presence or absence of Tender security, and such other details as the appropriate PE may consider appropriate, will be announced by the Secretary of the Tender Board or his delegate at the opening.
	25.4	Tenders or modifications that are not opened and not read out at Tender opening shall not be considered further for evaluation, irrespective of the circumstances. In particular, any discount offered by a Tenderer which is not read out at the Tender opening shall not be considered further.
	25.5	Tenderers are advised to send in a representative with the knowledge of the content of the Tender who shall verify the information read out from the submitted documents. Failure to send a representative or to point out any un-read information by the sent Tenderer's representative shall indemnify the PE against any claim or failure to read out the correct information contained in the Tenderers Tender.
	25.6	No Tender will be rejected at Tender opening except for late Tenders which will be returned unopened to the Tenderer, pursuant to ITT 23 [Late Tenders].
	25.7	The Secretary of the appropriate Tender Board shall prepare minutes of the Tender opening. The record of the Tender opening shall include, as a minimum: the name of the Tenderer and whether or not there is a withdrawal, substitution or modification, the Tender price per Lot if applicable, including any discounts and alternative offers and the presence or absence of a Tender security or Tender Securing Declaration.
	25.8	The Tenderers' representatives who are present shall be requested to sign the record. The omission of a Tenderer's signature on the record shall not invalidate the contents and affect the record. A copy of the record shall be distributed to all the Tenderers.
	25.9	The PE shall prepare minutes of the Tender opening, including the information disclosed to those present in accordance with ITT 24.3. A copy of the minutes of the Tender opening shall be furnished to individual Tenderers upon request.
26. Confidentiality	26.1	Information relating to the examination, clarification, evaluation, and comparison of Tenders and recommendations for the award of a Contract shall not be disclosed to Tenderers or any other persons not officially concerned with such process until the award to the successful Tenderer has been announced.

	26.2	Any effort by a Tenderer to influence the PE's processing of Tenders or award decisions may result in the rejection of his Tender.
	26.3	Notwithstanding ITT 26.2, from the time of Tender opening to the time of Contract award, if any Tenderer wishes to contact the PE on any matter related to the Tendering process, it should do so in writing or electronic forms that provides record of the content of communication.
27. Clarification of Tenders	27.1	To assist in the examination, evaluation, comparison of Tenders and post-qualification of the Tenderers, the PE may, at its discretion, ask the Tenderer for a clarification of its Tender including breakdown of prices. Any clarification submitted by a Tenderer that is not in response to a request by the PE shall not be considered.
	27.2	The request for clarification and the response shall be in writing or electronic forms that provide record of the content of communication. No change in the prices or substance of the Tender shall be sought, offered, or permitted except to confirm the correction of arithmetic errors discovered by the PE in the evaluation of Tenders in accordance with ITT 29 [Correction of Errors].
	27.3	From the time of Tender opening to the time of Contract award if any Tenderer wishes to contact the PE on any matter related to the Tender it should do so in writing or electronic forms that provide record of the content of communication.
28. Preliminary Examination of Tenders	28.1	Prior to the detailed evaluation of tenders, the PE will determine whether each Tender; (a) meets the eligibility criteria defined in ITT 3 [Eligible Tenderer]; (b) has been properly signed; (c) is accompanied by the required securities; and (d) is substantially responsive to the requirements of the Tendering Documents. The PE's determination of a Tender's responsiveness will be based on the contents of the Tender itself.
	28.2	A substantially responsive Tender is one which conforms to all the terms, conditions, and specifications of the Tendering Documents, without material deviation or reservation. A material deviation or reservation is one that: a) affects in any substantial way the scope, quality, or execution of the works; b) limits in any substantial way, inconsistent with the Tendering Documents, the PE's rights or the Tenderer's obligations under the Contract; or c) if rectified, would affect unfairly the competitive

		position of other Tenderers presenting substantially responsive Tenders
	28.3	The PE will confirm that the documents and information specified under ITT 11 [Documents Constituting the Tender] and ITT 12 [Documents Establishing Eligibility and Qualifications of the Tenderer] have been provided in the Tender. If any of these documents or information is missing or is not provided in accordance with the Instructions to Tenderers, the Tender shall be rejected.
	28.4	The PE may waive any minor informality, nonconformity, or irregularity in a Tender which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Tenderer.
	28.5	If a Tender is not substantially responsive, it will be rejected by the PE and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation or reservation pursuant to Regulation 204 (2) and 205 of GN 446 of 2013.
	28.6	<p>The PE shall confirm that the following documents and information have been provided in the Tender. If any of these documents or information is missing, or is not in accordance with the Instructions to Tenderers, the Tender shall be rejected:</p> <ul style="list-style-type: none"> a) Form of Tender; b) Information requested under ITT 12.3; c) Information requested under ITT 12.4 if Tender is submitted by joint venture; d) Information requested under ITT 12.5; e) The period of Tender validity; f) The Tender price; g) Written confirmation of authorization to commit the Tender; h) Tender security or Tender Securing Declaration; and i) Any other information/data required by this Tendering document as specified in the TDS.

	28.7	<p>Material deviations to commercial terms and conditions, which justify rejection of a tender shall include the following:</p> <ul style="list-style-type: none"> a) failure to sign the bid form and price schedules by the authorized person or persons; b) failure to satisfy eligibility requirements; c) failure to submit a tender security as specified in the tendering documents; d) failure to satisfy the tender validity period; e) inability to meet the critical delivery schedule or work schedule clearly specified in the tendering documents, where such schedule is a crucial condition with which tenderers must comply; f) failure to comply with minimum experience criteria as specified in the tendering documents; g) conditional tenders such as conditions in a tender which limit the tenderer's responsibility to accept an award; h) inability to accept the price adjustment formulae of the tendering documents; i) stipulating price adjustment when fixed price tenders were invited; j) subcontracting in a substantially different amount or manner than that permitted; k) failure to submit major supporting documents required by the tendering documents to determine substantial responsiveness of a tender.
	28.8	<p>All tenders shall be checked for substantial responsiveness to the technical requirements of the tendering documents and non-conformity to technical requirements, which are justifiable grounds for rejection of a tender includes the following:</p> <ul style="list-style-type: none"> a) failure to tender for the required scope of work as instructed in the tendering documents and where failure to do so has been indicated as unacceptable; b) failure to quote for a major item in the package; c) failure to meet major technical requirements, such as offering completely different types of equipment or materials from the types specified, plant capacity well below the minimum specified, equipment not able to perform the basic functions for which it is intended d) Presentation of absolutely unrealistic and inadequate implementation plans and schedules regarding performance, technical or service factors.

29. Correction of Errors	29.1	Tenders determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows: - a) if there is a discrepancy between unit prices and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected, unless in the opinion of the PE there is an obvious misplacement of the decimal point in the unit price, in which the total price as quoted shall govern and the unit price shall be corrected; b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and c) where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.
	29.2	The amount stated in the Tender will, be adjusted by the PE in accordance with the above procedure for the correction of errors and, with, the concurrence of the Tenderer, shall be considered as binding upon the Tenderer. If the Tenderer does not accept the corrected amount, its Tender will then be rejected, and the Tender Security may be forfeited or the Tender Securing Declaration may be executed in accordance with ITT 18.9 [Tender Security or Bid Securing Declaration].
30. Conversion to Single Currency	30.1	To facilitate evaluation and comparison, the PE will convert all Tender prices expressed in the amounts in various currencies in which the Tender prices are payable to either: a) in Tanzania Shillings at the selling exchange rate established for similar transactions by the Bank of Tanzania or a commercial bank in the United Republic of Tanzania; or b) a currency widely used in international trade, such as U.S. Dollars, at the selling rate of exchange published in the international press for the amount payable in foreign currency; and at the selling exchange rate established for similar transactions by the Bank of Tanzania in the United Republic of Tanzania for the amount payable in Tanzania Shillings.
	30.2	The currency selected for converting Tender Prices to a common base for the purpose of evaluation, along with the source and date of the exchange rate, are specified in the TDS .
31. Comparison of Tenders	31.1	The PE shall evaluate and compare only the Tenders determined to be substantially responsive in accordance with ITT 28 [Preliminary Examination of Tenders].

	31.2	<p>In evaluating the Tenders, the PE will determine for each Tender the evaluated Tender Price by adjusting the Tender Price as follows: -</p> <ol style="list-style-type: none"> a) making any correction for errors pursuant to ITT 29 [Correction of Errors]; b) excluding provisional sums and the provision, if any, for contingencies in the Bill of Quantities, but including Day work, where priced competitively; c) making appropriate adjustment for any other acceptable variations, deviations, or alternative offers submitted in accordance with ITT 19 [Alternative Tenders by Tenderers]; d) making an allowance for varying times of completion offered by Tenderers, if permitted in the TDS and in the manner prescribed therein; e) making appropriate adjustments to reflect discounts or other price modifications offered in accordance with ITT 24.4 [Modification and Withdrawal of Tenders]; and f) applying any discounts offered by the Tenderer for the award of more than one Contract, if tendering for this Contract is being done concurrently with other contracts (ITT 31.5).
	31.3	<p>The PE may waive any minor informality or non- conformity, which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative standing of any Tenderer. Variations, deviations, and alternative offers and other factors, which are in excess of the requirements of the Tendering Documents or otherwise result in unsolicited benefits for the PE will not be taken into account in Tender Evaluation.</p>
32. National Preference	32.1	<p>Works utilizing this Standard Tendering Document shall be exclusively reserved for local contractors as stated in the TDS.</p>
	32.2	<p>The PE shall, in applying exclusive preference, use the Authority's register of Tenderers and other statutory Professional bodies in United Republic to determine whether or not Tenderers are qualified for exclusive preference.</p>
	32.3	<p>A joint venture, consortium or an association between a foreign and local firm in which the contribution of the local firm in that joint venture or association is greater than seventy-five per cent, shall also be eligible to participate in the exclusive preference scheme.</p>
33. Determination of the Lowest Evaluated Tender	33.1	<p>The Tender with the lowest evaluated price from among those that are eligible, compliant and substantially responsive shall be the lowest evaluated Tender.</p>
34. Post-qualification of Tenderer	34.1	<p>If pre-qualification was not undertaken, post-qualification shall be performed as indicated in the TDS.</p>

	34.2	<p>Where the tender price of the lowest evaluated Tenderer is considered to be abnormally low, the PE shall perform price analysis as part of the post-qualification. The following process shall apply:</p> <ul style="list-style-type: none"> (a) The PE may reject a tender if the PE has determined that the price in combination with other constituent elements of the tender is abnormally low in relation to the subject matter of the procurement (scope of works or services) and raises concerns as to the ability of the Tenderer that presented that tender to perform the contract. (b) Before rejecting an abnormally low tender, the PE shall: request the Tenderer for an explanation of the tender or of those parts which it considers contribute to the tender being abnormally low; take account of the evidence provided in response to a request in writing; and subsequently verify the tender or parts of the tender being abnormally low. (c) The decision of the PE to reject a tender and reasons for the decision shall be recorded in the procurement proceedings and promptly communicated to the Tenderer concerned; (d) The Accounting Officer (PE) shall seek the approval of the Authority prior to rejecting a tender; (e) Neither the Authority nor the PE shall incur liability solely by rejecting abnormally tender; and (f) An abnormally low tender means, in the light of the PE's estimate and of all the tenders submitted, the tender appears to be abnormally low by not providing a margin for normal levels of profit.
	34.3	<p>The PE will determine to its satisfaction whether the Tenderer that is selected as having submitted the lowest evaluated responsive Tender is qualified to perform the contract satisfactorily, in accordance with the criteria listed in ITT 12.3 [Documents Establishing Eligibility and Qualifications of the Tenderer].</p>
	34.4	<p>The determination will take into account the Tenderer's financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the Tenderer's qualifications submitted by the Tenderer, pursuant to ITT 12.3 [Documents Establishing Eligibility and Qualifications of the Tenderer], as well as such other information as the PE deems necessary and appropriate. Factors not included in these Tendering Documents shall not be used in the evaluation of the Tenderers' qualifications.</p>
	34.4	<p>A PE may seek independent references of a Tenderer and the results of reference checks may be used in determining award of contract.</p>

	34.5	In case of a foreign company, a PE shall seek independent reference of legal existence of a Tenderer from Tanzania diplomatic missions abroad or from any other reliable source.
	34.6	An affirmative determination will be a prerequisite for award of the contract to the Tenderer. A negative determination will result in rejection of the Tenderer's Tender, in which event the PE will proceed to the next lowest evaluated Tender to make a similar determination of that Tenderer's capabilities to perform satisfactorily.
		F. Award of Contract
35. Criteria of Award	35.1	Subject to ITT 34 [Post-qualification of Tenderer] and 36 [Negotiations], the PE will award the Contract to the Tenderer whose Tender has been determined to be substantially responsive to the Tendering Documents and who has offered the lowest Evaluated Tender Price, provided that such Tenderer has been determined to be (a) eligible in accordance with the provisions of ITT 3 [Eligible Tenderers], and (b) is determined to be qualified to perform the Contract satisfactorily (c) successful negotiations have been concluded.
	35.2	If, pursuant to ITT 13.1 [Slice and Package], this Contract is being let on a slice and package" basis, the lowest evaluated Tender price will be determined when evaluating this Contract in conjunction with other Contracts to be awarded concurrently, taking into account any discounts offered by the Tenderers for award of more than one Contract.
36. Negotiations	36.1	Negotiations may be undertaken with the lowest evaluated Tender relating to the following areas: (a) a minor alteration to the technical details of the statement of requirements; (b) reduction of quantities for budgetary reasons, where the reduction is in excess of any provided for in the solicitation documents; (c) a minor amendment to the special conditions of Contract; (d) finalizing payment arrangements; (e) mobilization arrangements; (f) agreeing final delivery or work schedule to accommodate any changes required by the PE; (g) the methodology or staffing; or (h) clarifying details that were not apparent or could not be finalized at the time of tendering. (i) Reduction of price
	36.3	Where negotiation fails to result into an agreement, the PE may invite the next ranked Tenderer for negotiations. Where negotiations are commenced with the next ranked Tenderer, the PE shall not reopen earlier negotiations.

37. PE's Right to accept any Tender and to reject any or all Tenders	37.1	Notwithstanding ITT 35 [Criteria of Award], the PE reserves the right to accept or reject any Tender, and to cancel the tendering process and reject all Tenders, at any time prior to the award of Contract, without thereby incurring any liability to the affected Tenderer or Tenderers or any obligation to inform the affected Tenderer or Tenderers.
	37.2	Notice of the rejection of all Tenders shall be given promptly to all Contractors that have submitted Tenders.
	37.3	The PE shall upon request communicate to any Tenderer the grounds for its rejection of its Tenders, but is not required to justify those grounds.
38. Procuring Entities Right to Vary Quantities at the Time of Award	38.1	The PE reserves the right at the time of contract award to increase or decrease the quantity of goods or related services originally specified in these Tendering Documents (schedule of requirements) provided this does not exceed by the percentage indicated in the TDS, without any change in unit price or other terms and conditions of the Tender and Tendering Documents.
39. Notification of Award	39.1	Prior to awarding of the contract, the PE shall issue a notice of intention to award the contract to all tenderers who participated in the tender in question giving them seven (7) working days within which to submit complaints to the PE thereof, if any.
	39.2	Where no complaints have been lodged, the Tenderer whose Tender has been accepted will be notified of the
		award by the PE prior to expiration of the Tender validity period in writing or electronic forms that provide record of the content of communication. The Letter of Acceptance will state the sum that the PE will pay the successful Tenderer in consideration for the execution of the scope of works as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price).
	39.3	The notification of award will constitute the formation of the Contract, subject to the Tenderer furnishing evidence of registration with relevant statutory bodies within the country and furnishing the Performance Security in accordance with ITT 41 [Performance Security] and signing the Contract in accordance with ITT 40.2 [Signing of Contract]
	39.4	Upon the successful Tenderer's furnishing of the performance security pursuant to ITT 41 [Performance Security], the PE will promptly notify unsuccessful Tenderers, the name of the winning Tenderer and the Contract amount and will discharge the Tender security or Tender securing declaration of the unsuccessful Tenderers pursuant to ITT 18.7 [Tender Security or Bid Securing Declaration].

	39.5	If, after notification of award, a Tenderer wishes to ascertain the grounds on which its Tender was not selected, it should address its request to the Secretary of the appropriate Tender Board that authorized the award of Contract. The Secretary will promptly respond in writing or electronic forms that provide record of the content of communication to the unsuccessful Tenderer citing grounds for rejection of its Tender without disclosing information about other Tenderers.
40. Signing of Contract	40.1	Promptly after notification of award, PE shall send the successful Tenderer the draft Agreement, incorporating all terms and conditions as agreed by the parties to the contract.
	40.2	Within fourteen (14) working days after fulfillment of all conditions precedent, the successful Tenderer and the PE shall sign the Contract.
41. Performance Security	41.1	Within fourteen (14) working days after receipt of the Letter of Acceptance, the successful Tenderer shall deliver to the PE a Performance Security in the amount stipulated in the TDS and SCC , denominated in the type and proportions of currencies in the Letter of Acceptance and in accordance with the Conditions of Contract.
	41.2	<p>If the Performance Security is provided by the successful Tenderer, it shall be in the form specified in the TDS which shall be in any of the following:</p> <ul style="list-style-type: none"> (a) cash, certified cheque, cashier's or manager's cheque, or bank draft; (b) irrevocable letter of credit issued by a reputable commercial bank or in the case of an irrevocable letter of credit issued by a foreign bank, the letter shall be confirmed or authenticated by a reputable local bank; (c) bank guarantee confirmed by a reputable local bank or, in the case of a successful foreign Tenderer, bonded by a foreign bank; or (d) surety bond callable upon demand issued by any reputable surety or insurance company. <p>Any Performance Security submitted shall be enforceable in the United Republic of Tanzania.</p>
	41.3	Failure of the successful Tenderer to comply with the requirements of ITT 41.1 shall constitute sufficient grounds for cancellation of the award and any other remedy the PE may take under the Contract and the PE may resort to awarding the Contract to the next ranked Tenderer.
42. Advance Payment	42.1	Advance Payment is not acceptable

	42.2	The Advance Payment request shall be accompanied by an Advance Payment Security (Guarantee) in the form provided in Section IX. For the purpose of receiving the Advance Payment, the Tenderer shall make an estimate of, and include in its Tender, the expenses that will be incurred in order to commence work. These expenses will relate to the purchase of equipment, machinery, materials, and on the engagement of labor during the first month beginning with the date of the PE's "Notice to Commence" as specified in the SCC.
43. Adjudicator	43.1	In the event of dispute, the Adjudicator shall be appointed by the Appointing Authority named in the TDS at the request of either party.
44. Fraudulent, Corrupt, Coercive,	44.1	The Government of the United Republic of Tanzania requires that Procuring entities (including beneficiaries of

<p>Collusive or Obstructive Practices</p>	<p>Government funded projects and procurement) as well as Tenderers/Suppliers/Contractors under Government financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Government.</p> <p>a) defines, for the purpose of this provision, the terms set forth below as follows: -</p> <ul style="list-style-type: none"> i. "Corrupt practice" means the offering, giving receiving or soliciting of anything of value to influence the action of a public officer in the procurement process or contract execution; ii. "coercive practice" means impairing or harming, or threatening to impair or harm directly or indirectly, any party or the property of the party for the purpose of influencing improperly the action or that party in connection with public procurement or in furtherance of corrupt practice or fraudulent practice; iii. "collusive practices" means impairing or harming, or threatening to impair or harm directly or indirectly, any part or the property of the Party for the purpose of influencing improperly the action or a part or in connection with public procurement or government contracting or in furtherance of a corrupt practice or a Fraudulent Practice <p>b) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Government or a public body and includes collusive practices among Tenderers, prior to or after submission designed to establish tender prices at artificial non-competitive levels and to deprive the Government of the benefits of free and open competition;</p> <p>c) "obstructive practice" means acts intended to materially impede access to required information in exercising a duty under this Act; Will reject a proposal for award if it determines that the Tenderer recommended for award has engaged in corrupt, coercive, collusive, fraudulent or obstructive practices in competing for the contract; in pursuit of the policy defined in ITT 44.1 the Government will cancel the portion of the funds allocated to a contract for goods, works, or services if it at any time determines that corrupt, coercive, collusive, fraudulent obstructive or fraudulent practices were engaged in by representatives of the PE or approving authority or of a beneficiary of the funds furring the procurement or the execution of that contract, without the PE or approving authority having taken timely and appropriate action satisfactory to the Government of the united Republic of Tanzania to remedy the situation;</p>
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		c) Declare a firm ineligible for a period of ten years, to be awarded a public-financed contract if it at any time it determines that the firm has engaged in corrupt, coercive, collusive, fraudulent or obstructive practices in competing for, or in executing, a public – financed contract.
	44.2	The Government of the United Republic of Tanzania reserves the right, where a firm has been found by a foreign country, international organization or other foreign organization to have engaged in corrupt, coercive, collusive, fraudulent or obstructive practices, to declare that such a firm is ineligible, for a period of ten years to be awarded a public financed Contract in the United Republic of Tanzania.
	44.3	The Government of the United Republic of Tanzania will have the right to require that, in contract financed by the Government of the United Republic of Tanzania a provision be included requiring suppliers and contractors to permit the Government of the United Republic of Tanzania to inspect their accounts and records relating to the performance of the contract and to have them audited by auditors appointed by the Government of the United Republic of Tanzania.
	44.4	Any communications between the Tenderer and the PE related to matters of alleged corruption, coercion, collusion, fraudulent or obstruction practices must be made in writing or electronic forms that provide record of the content of communication.
		G. Review of Procurement Decisions
45. Right to Review	45.1	A Tenderer who claims to have suffered or that may suffer any loss or injury as a result of breach of a duty imposed on a PE or an approving authority in the course of these procurement proceedings may seek a review in accordance with the procedure set out under this Section.
46. Time Limit on Review	46.1	The Tenderer shall submit an application for review within seven (7) working days of the Tenderer becoming or should have become aware of the circumstances giving rise to the complaint or dispute.
47. Submission of Applications for Review	47.1	Any application for administrative review shall be submitted in writing or electronic forms that provide record of the content of communication to the Accounting Officer of a PE and a copy shall be served to the Public Procurement Regulatory Authority (PPRA) at the address shown in the TDS in writing or in electronic forms that provide record of the content of communication Tender.

	47.2	<p>The application for administrative review shall include:</p> <ol style="list-style-type: none"> a) details of the procurement requirements to which the complaint relates; b) details of the provisions of the Act, Regulation or provision that has been breached or omitted; c) an explanation of how the provisions of the Act, Regulation or provision has been breached or omitted, including the dates and name of the responsible public officer, where known; d) documentary or other evidence supporting the complaint where available; e) remedies sought; and f) any other information relevant to the complaint.
	47.3	<p>The head of a PE shall not entertain a complaint or dispute or continue to do so after the procurement contract has entered into force.</p>
48. Decision by the Head of PE	48.1	<p>The head of a PE shall, within seven (7) working days after receipt of the complaint or dispute, deliver a written decision which shall indicate:</p> <ol style="list-style-type: none"> a) whether the application is upheld in whole, in part or rejected; b) the reasons for the decision; and c) any corrective measures to be taken.
	48.2	<p>Where the head of a PE does not issue a decision within the time specified in ITT 48.1, the Tenderer submitting the complaint or dispute or the PE shall be entitled to institute proceedings under ITT 49.1 [Review by the Public Procurement Appeals Authority (PPAA)] within seven (7) working days after such specified time and upon instituting such proceedings, the competence of the head of a PE to entertain the complaint or dispute shall cease.</p>
49. Review by the Public Procurement Appeals Authority (PPAA)	49.1	<p>Complaints or disputes which,</p> <ol style="list-style-type: none"> (a) are not settled within the specified period under ITT 48.1 [Decision by the Head of PE]; (b) the tenderer is not satisfied with the decision of the accounting officer; or (c) arise after the procurement contract has entered into force pursuant to ITT 40 [Signing of Contract], <p>shall be referred to the Appeals Authority within seven (7) working days from the date when the Tenderer received the decision of the accounting officer or, in case no decision is issued after the expiry of the time stipulated under ITT 47.1 [Submission of Applications for Review] or when the Tenderer become aware or ought to have become aware of the circumstances giving rise to the complaint or dispute pursuant to ITT 46.1 [Time Limit on Review]</p>
	49.2	<p>PPAA may be contacted at the address shown in the TDS.</p>

SECTION III: TENDER DATA SHEET

Tender Data Sheet (TDS)

The following specific data for the works to be procured shall complement, supplement, or amend the provisions in the Instructions to Tenderers (ITT). Whenever there is a conflict, the provisions herein shall prevail over those in ITT.

TDS Clause Number	ITT Number	Amendments of, and Supplements to, Clauses in the Instruction to Tenderers
A. Introduction		
1.	1.1 & 2.1	The PE is: Good Neighbors Tanzania
2.	1.1	Name of Project is: Construction Of 3 Coffee Processing Unit (CPU) Mbozi District, Songwe Region
3.	1.2	The expected completion date of the works is: 60 Calendar Days
4.	2.1	Name of financing institution is: Good Neighbors Tanzania Financial Year; 2025 <i>Construction Of 3 Coffee Processing Unit (CPU) Mbozi District, Songwe Region</i>
5.	2.2	The loan/ credit number is: [N/A] and name of the financing Institution Good Neighbor Tanzania
6.	3.1	Maximum number of members in the joint venture, consortium or association shall be: N/A Only Tenderers registered as Civil Contractors in Class Five (V) and above with the Contractors Registration Board are eligible.
7.	6.3	Pre-tender meeting shall not be held.

B. Tendering Documents

8.	7.2	The number of copies to be completed and returned with the tender is: One Original and One Copy.
9.	8.1	Email Address for clarification of Tendering Document is Mbozi@goodneighbors.or.tz with copy to Procurement@goodneighbors.or.tz

C. Preparation of Tenders

10.	10.1	Language of Tender and all correspondence shall be English
11	11.1h	Other information or materials required to be completed and submitted by Bidders: <ul style="list-style-type: none"> a) Sources of materials which meet specifications b) Site Organization c) Method statement d) Past experiences (per the indicated requirement in the Qualification Information)
12.	12.4	In the case of joint venture, consortium or association each partner shall submit information required under Clause ITT 12.4. In addition, the Tenderer shall furnish the following. Not Applicable

13	15.3	List all duties, taxes and other levies payable by the Contractor under the Contract All tax will as per Tanzania Acts and regulations
14.	15.4	The price shall be Fixed
15.	16.1	The currency in which the prices shall be quoted shall be: Tanzanian Shillings
16.	16.2	The authority for establishing the rates of exchange shall be Bank of Tanzania. N/A
17.	17.1	The Tender validity period shall be thirty (60) days.
18.	18.1	Bid Securing Declaration is applicable
19.	18.3 & 18.3 c	The Tender Security shall be in the form of: Bid Securing Declaration
20.	19.1	Alternative Tenders are not allowed in this Tender.
21.	19.2	Alternative time for completion Not applicable
22	19.3	Offer of technical alternatives to the requirements of the Tendering Documents are not allowed in this Tender.
23.	20.1	In addition to the original of the Tender, the Tenderer should submit one copy of the Tender.
24.	20.2	Written confirmation of authorization to sign on behalf of the Tenderer is Special Power of Attorney

D. Submission of Bids

25.	21.2 a)	Tenders shall be submitted to: Good Neighbors Tanzania, Mbozi project office
26.	21.2 b)	Project name: <i>Description of the Works of Construction of 3 Coffee Processing Unit (CPU) Mbozi District, Songwe Region</i> Tender title and number: Bid No. GNTZ/MPO/001/2025
27.	22.1	The deadline for Tender submission is a) Day: Thursday b) Date: 22 nd May 2025 c) Time: 11: 30 AM
28.	22.3	The extension of the deadline for submission of Tenders shall be made not later than Seven (7) days before the expiry of the original deadline.

E. Opening and Evaluation of Tenders

29.	25.1	The Tender opening shall take place at: Good Neighbors Tanzania Mbozi project office
30	30.2	The currency that shall be used for tender evaluation and comparison purposes to convert all Tender Prices expressed in various currencies into a single currency is Tanzania Shillings The source of exchange rate shall be: N/A The date for the exchange rate shall be: N/A
31.	32.1	Works has been exclusively reserved for Local Contractors registered by the Authority and other statutory bodies in Tanzania.
32	34.1	post-qualification shall be performed or not performed N/A
33.	38.1	Percentage for quantities increase or decrease is limited to fifteen percent 15% when necessary.

F. Award of Contract

34.	41.1	The amount of Performance Security Guarantee shall be 10% of the Contract price.
35.	41.2	The Performance Security shall be in the form of: Conditional Performance Guarantee provided by any Local Commercial Bank
36.	42.1	The Advance Payment: N/A Payment will upon Measured executed work
37.	43.1	The Adjudicator for the project shall be appointed by the Appointing Authority which shall be NCC Tanzania.

G. Right to Review

38.	47.1	The address to submit copies of complaints: The Chief Executive Officer, Public Procurement Regulatory Authority PSPF Dodoma Plaza, 9 th Floor, Jakaya Kikwete Road, P.O. Box 2865, Dodoma, TANZANIA. Tel: +255 26 2963854 E-mail: ceo@ppra.go.tz Web: www.ppra.go.tz
39.	49.2	The address for Appeal to PPAA: The Executive Secretary, Public Procurement Appeals Authority, Ministry of Finance and Planning, 1 Madaraka Street, P.O. Box 9310, 11468 Dar es Salaam. Telephone +255 22 2120451 Mobile: +255743505505 Fax + 255 022 2120460 Email: info@ppaa.go.tz or es@ppaa.go.tz Website www.ppaa.go.tz

SECTION V: SPECIAL CONDITIONS OF CONTRACT

Special Conditions of Contract (SCC)

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract. Except where otherwise indicated, all Special Conditions of Contract should be filled in by the Employer prior to issuance of the Tendering Documents. Schedules and reports to be provided by Employer should be annexed.

SCC Clause	GCC Clause	Description
1	1.1	<p style="text-align: center;">A. General</p> <p>The Employer is Good Neighbors Tanzania P.o. Box 33104 Dar es Salaam The Defects Liability Period is 180 days. The Project</p> <p>Construction of 3 Coffee Processing Units (CPU) in Mbozi district, Songwe region.</p> <p>The Start Date shall be 5th June 2025</p> <p>The Sites is located at Itumpi, Idiwili and Nyimbili wards, Mbozi district, Songwe Region</p>
2.	2.2	Indicate whether sectional completion is specified N/A
3.	2.3(10)	List other documents that form part of the contract if any: <ul style="list-style-type: none"> a) Form of agreement b) Letter of Acceptance c) Contractor's Bid form d) General Condition of Contract e) Special Condition of Contract g) Specifications h) Drawings i) Bill of Quantities j) Special Power of Attorney f) Negotiation Minutes g) Tender Document.
4.	3.1(a)	performance Security in the form of Bank Guarantee
5.	3.2	The Bank Guarantee mentioned in 3.1(a) above should be submitted within fourteen (14) days after signing the Contract.
6.	4.1	The language of the Contract documents is English . The law that applies to the Contract is the Laws of Tanzania.
7.	8.1	Address for communication Employer's; Mbozi@goodneighbors.or.tz and copy to Procurement@goodneighbors.or.tz

		Contractor's [insert address]
8.	12.1	Include the Schedule of Other Contractors, if any. [N/A]
9.	13.1	Include the Schedule of Key Personnel. <ul style="list-style-type: none"> • Civil /Irrigation Engineer - Minimum 5 years Experiences in supervising Civil works and proven Three completed projects. Registration with ERB • Technician (FTC holder, Minimum 3years in Civil works with minimum five completed Projects. • 2 Site foremen -Minimum 5years experience in building works with minimum five projects supervised and completed. • Land Surveyor with minimum 3 years' Experience NB: CVs and Education certificates to be attached.
10.	17.1	The minimum insurance covers shall be: <ol style="list-style-type: none"> (a) loss of or damage to the Works, Plant, and Materials [insert amount]; (b) loss of or damage to Equipment [insert amount]; (c) loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract [insert amount]; and (d) Personal injury or death [insert amount].
11.	18.1	Site Investigation Reports available to the Tenderer are: N/A
	25.1	The Contractor, Sub-contractors and Personnel shall pay such taxes, duties, fees and other impositions as may be levied under the Laws of Tanzania
12.	26.4	The other measures include: <ol style="list-style-type: none"> a. Minimizing the number of migrant workers employed on the project and household in the site camp b. Providing access to voluntary counseling and testing (VCT) c. Providing psychological support and health care including prevention and treatment of opportunistic infections for workers infected and affected, as well as their families d. Providing condoms (male and female) to workers
13.	28.1	The Site Possession Date shall be 7 Days after Contract Signing.
14.	31.1	Appointing Authority for the Adjudicator: <i>National Construction Council (NCC)</i>
15.	32.2	If either Party is dissatisfied with the Adjudicator's decision may, refer the dispute for arbitration within [14] days

16.	q	Arbitration will take place at Good Neighbors Tanzania in accordance with rules and regulations published by Government of United Republic of Tanzania <i>using PPRA regulations and policies.</i>
17.	35.1	The Contractor shall be responsible to provide security to all contraction material and equipment, the employer shall not be response for any loss of properties.
B. Time Control		
18.	36.1	The Contractor Shall Submit a Programme for the Works within [3 days] of delivery of the Letter of Acceptance.
19.	36.2	The period between Programme updates is [7] days.
20.	36.2	The amount to be withheld by the Project Manager in the case the contractor does not submit an updated programme is: 0.5% of the Contract amount.
C. Quality Control		
21.	44.1	The Defects Liability Period is 60 days.
D. Cost Control		
22	52.7	Minimum Amount of Interim Payment Certificate will be 15% of the contract sum
23	54.1	The currency of payment shall be Tanzania Shillings
24.	57	The contract is not Subject to price adjustment.
25.	58.1	The amount of retention is [10%] of value of works of Interim Payment Certificate'. Limit of retention will be [10%] of contract price.
26.	59.1	The amount of liquidated damages is 0.1% of Contract Price per day. The maximum amount of liquidated damages must be equivalent to the amount of the performance security.
27.	60.1	The bonus for early completion: [N/A].
28.	61.1	The amount of advance payment: N/A
29.	62.1	The Performance Security shall be: 10% of the Contract price.
30	66.1	Contractor shall handover the site and the works to the Employer within seven (7) days after the project manager issuing the Certificate of final completion (after end of the defect liability period)
E. Discharge of the Contract		
31.	68.1	As built drawings shall be supplied by the contractor by (14) days after issuing of Substantial Completion certificate. Operating manual shall be supplied by the contractor.

32.	68.2	The amount to be withheld by the Project Manager in the case the contractor does not submit operating manual is: 5% of the contract price.
33.	69.2 (i)	Number of days for which the maximum amount of liquidated damages can be paid is 100 days.
34.	70.1	The percentage to apply to the value of the work not completed, representing the Employer's additional cost for completing the Works, is fifteen percent (15%).

SECTION VI: SPECIFICATIONS

PART 1 GENERAL

102 *Surface and Subsurface Flows*

The Contractor shall be wholly responsible for dewatering all excavations and for protecting construction works from flooding.

104 *Workmanship and Materials General*

- (1) All workmanship shall be of the best quality appropriate to each category of work. Except where otherwise stated or approved by the Project Manager, all materials used in the Works shall be of the best quality of their respective kinds as specified or described in the Specification, Drawings and Bills of Quantities and shall comply wherever possible with the current issue of the appropriate standard published by the British Standards Institution, or other equivalent national standard proposed by the Contractor and approved by the Project Manager.
- (2) The Contractor shall use locally produced materials in preference to imported materials provided that they comply with the Specification and are available in sufficient and timely quantities.

105 *Tolerances*

All works shall be constructed to the tolerances shown in Appendix A.

106 *Keeping works free from water*

- (1) Except where otherwise specified or allowed by the Project Manager, the Contractor shall keep the Site free from water so that the work may be carried out in the dry. The Contractor shall construct any cofferdams, temporary bulkheads, watercourses and other works and supply and operate such pumping plant as may be necessary for this purpose.
- (2) Notwithstanding any approval by the Project Manager of the arrangements made for the exclusion of water from the Works, the Contractor will be held responsible for the sufficiency thereof and will be liable for any loss of production, additional overheads or additional costs of any kind that may result.

107 *Compensation water and flow past structures*

- (1) The Contractor shall ensure that during the construction of the Works across rivers and existing channels and up to the time of completion of the relevant parts of the Works, the whole flow of the rivers or channels shall be allowed to pass the Works except for such quantity as the Contractor may reasonably require for the execution of the Works, unless otherwise directed by the Project Manager.
- (3) After completion of those parts of the Works or Temporary Works which form a barrier to river or channel, the Contractor will be required by the Employer to pass such quantities of water into the river or channel downstream of the

structures as may be directed. The Contractor shall not alter the rate of flow of such water except with the approval of the Project Manager.

108 *Materials On and Under the Site*

All soil, gravel, stone, timber, or other materials obtained in the excavations, clearing of the Site of the Works and soil stripping, must not be removed from the Site without the consent of the Project Manager. The Contractor however, may use for the construction of the Works any of the materials excavated under the Contract which the Project Manager may determine to be fit for such use and shall use such materials if directed by the Project Manager.

109 *Restoration of Drains, Streams, Canals, etc*

Subject to any requirement of the Works whereby a permanent change is to be affected, all drains, canals, pipes, channels, water-courses or streams temporarily cut through or disturbed by the excavation of the Works are to be restored so that the water flowing in them may continue to flow in as full and free manner as it did before the disturbance.

110 *Maintenance of Traffic*

The Contractor shall be responsible for providing; maintaining and removing, at his own cost, adequate diversions to existing roads, and access tracks interfered with during the execution of the Works, together with any additional policing erection of barriers. The Contractor shall be responsible for advising the appropriate authorities and where necessary obtaining approval prior to interfering with any road.

111 *Contractor Responsible for Sufficiency of Means*

The Contractor shall take the full and entire responsibility for the sufficiency of plant, scaffolding, timbering, machinery, tools or implements and generally for all means used for the fulfillment of the Contract. In the event of any of these means proving insufficient, the Contractor is still fully and entirely responsible for the sufficiency of these means notwithstanding any previous approval or recommendation that may have been given by the Project Manager.

112 *Safety of Adjacent Structures or Works*

The Contractor shall at his own expense provide and erect to the approval of the Project Manager such supports as may be required to protect efficiently all structures or works which may be endangered by the execution of the Works and he shall remove such supports on completion of the Works or otherwise take such permanent measures as may be required by the Project Manager to protect the structures or works.

113 *Access to Works*

All necessary facilities will be given for the access of the Contractor's employees to the Works and the Contractor shall be responsible for seeing that such employees obey all regulations in regard to the conditions of access to the Works.

114 Services

The Contractor shall make his own arrangements for the supply of adequate safe drinking water, electricity and other services to the Permanent Works, Temporary Works and plant and shall provide and maintain all pipes, cables and fittings which may be necessary to carry such services to his operations.

115 Contractor's Accommodation

The Employer will provide, free of charge, areas of land where the Contractor shall establish the office, housing, plant yard/stores, accommodation and camp for himself and his employees.

- (1) The Contractor shall provide erect, service and maintain all necessary buildings as offices, housing or plant yard/stores for himself, his staff and his employees. These buildings shall from the time of their erection until the completion of the Contract is the property of the Employer and the Contractor shall not demolish or remove any buildings or part of any buildings without the written permission of the Project Manager.
- (2) All abutments, buildings, fixtures and fittings provided by the Contractor shall not be removed without the permission of the Project Manager, upon the permission of the Project manager the aforementioned facilities shall be removed and the site reinstated by the Contractor at the end of the Contract.

116 Sanitation

- (1) The Contractor is to arrange for a standard of sanitation required by local regulations to be maintained throughout the Works at the housing, office and workshop/plant yard areas.
- (2) The Contractor shall prohibit the committing of nuisance on the Site of Works or upon the land of the Employer or adjacent landowners and any employee found violating this provision shall be liable to immediate removal.

117 Medical Arrangements

- (1) The Contractor shall make arrangements for treatment on the Site of casualties and sick persons in first-aid units or in such other wards as may be necessary in accordance with the appropriate Regulations.
- (2) Notwithstanding the minimum requirements prescribed above, the Contractor shall be responsible for the adequacy of all the arrangements made.

119 Project Manager's Testing Laboratory

- (1) The Contractor shall identify an acceptable well-equipped laboratory close to the project for the Project Manager's use.

- (2) The Contractor shall provide all necessary Labour required by the Project Manager, for the purpose of taking material samples and transport to the laboratory.
- (3) The existence of the laboratory shall in no way relieve the Contractor of the responsibility for carrying out his own tests in order to maintain the degree of control of quality hereinafter specified.
- (4) The Contractor is required to keep at the project site, the following minimum equipment at all times during the Contract period:
 - (a) Set of BS sieves of 300 mm diameter including cover, pan and brush, comprising the following sieve sizes: 50 mm, 37 mm, 31 mm, 25 mm, 19 mm, 13.2 mm, 9.5 mm, 6.75 mm, 4.5 mm, 2.36 mm, 1.18 mm, 600-micron, 300-micron, 150 micron and 75 microns.
 - (b) one (1) pan type weighing scale complete with weights, to weigh up to ten kilograms (10 kg) with sensitivity one gramme (1 g);
 - (c) one (1) galvanized steel slump test cone apparatus complete with standard tamping rod and base plate;
 - (d) six (6) steel 15cm cube moulds, complete with two (2) tamping rods, base plates and trowels;
 - (e) Two (2) Schmidt hammer for destructive test of the constructed Concrete structure.

120 *Bench Marks*

- (1) The Contractor shall locate and where necessary re-establish the permanent Bench Marks shown on the Drawings and install additional permanent Bench Marks were directed by the Project Manager to facilitate the setting out and checking of the Works. Prior to commencing the Works, the Contractor shall undertake a survey, based on the same local datum as used in the original topographic survey, to confirm the elevation and horizontal position of all permanent Bench Marks and shall submit a schedule of the said coordinates to the Project Manager.
- (2) The Contractor shall be responsible for maintaining and regularly checking the elevation and position of all permanent Bench Marks for the duration of the Contract. Where it is found that an existing Bench Mark is interfering with the progress of the works, the Contractor may seek the Project Manager's approval to re-locate the Bench Mark. The Contractor shall submit to the Project Manager in writing the coordinates of the new Bench Mark.
- (3) The contractor shall be provided with coordinates list of reference point (bench marks) as taken in **WGS 84** Map datum by the Project Manager. The arbitrary value shall be used to transform the coordinate system from the local coordinate system used in Design to the new coordinate system (**WGS 84**).

121 *Weather Records*

The Contractor shall erect a rain gauge ("Nylex 600" or similar approved) and a double bulb, minimum/maximum thermometer (0.1°C accuracy) at a site agreed with the Project Manager. The Contractor shall be responsible for the daily measurement of rainfall and minimum and maximum temperature to be taken at 8:00 am each day.

122 *Signboard*

Before the erection of any signboards or posters by the Contractor, the Contractor shall obtain approval of the Project Manager to the size, location and wording of such signboards and posters. Typical signboard for the site is shown in Appendix B to the Specification.

The signboards are to be erected within one third of the contract Start Date and the Contractor shall remove the signboards at the end of the Defects Liability Period.

123 *Measurement and Payment*

No separate measurement and payment will be made for testing of materials, trials and construction control testing and the Contractor shall be deemed to have allowed in his rates and prices for the cost of complying with the requirements of this specification.

PART 2 EARTHWORKS

201 Site Clearance

The Contractor shall prepare the Site or other areas were indicated on the Drawings or ordered by the Project Manager by carrying out a general clearance of the ground and by removing trees and other vegetation to permit the proper execution of the Works.

Stumps and major roots shall be grubbed out and all combustible material arising shall be stockpiled at sites designated by the Project Manager. Non-combustible material shall be removed by the Contractor to approved tips. The Project Manager may order certain trees to be left standing.

If termite moulds are excavated, the whole of the mould shall be removed.

202 Surface Levels

After the area of any section of the Works has been cleared and after trees have been felled, stumps removed and termite moulds excavated to the satisfaction of the Project Manager, but before any other work is commenced, surface levels of the ground shall be taken. The levels shall be taken at spacing agreed with the Project Manager. Levels shall similarly be taken on the surface of the ground after the removal of unsuitable overburden prior to placing fill and at the interface between natural ground, rock or artificial hard material layers. The levels shall be agreed with the Project Manager. The Contractor shall prepare plans and sections which shall, when finally, and mutually agreed, be signed by the Project Manager and Contractor as truly representing the configurations of the areas in question at the commencement of excavation or fill construction.

203 Definition of Earthworks Materials

The following definitions of earthworks materials shall apply to this and other Clauses of the Specification in which reference is made to the defined materials:

"Top soil" shall mean the top layer of soil that can support vegetation

"Suitable material" shall comprise all material which arises from excavations within the Site and which is approved by the Project Manager as acceptable for use in the works

"Unsuitable material" shall mean material other than suitable material and shall comprise:

- (i) Material from swamps, marshes and bogs
- (ii) Logs, stumps and perishable materials
- (iii) Material susceptible to spontaneous combustion
- (iv) Clay with a liquid limit exceeding ninety (90) and/or plasticity index exceeding sixty-five (65)

"Natural ground" material shall mean all material other than that defined as "rock" or "artificial hard material" hereunder

"Rock" or "artificial hard material" shall mean any hard natural or artificial material requiring the use of blasting or approved pneumatic tools for its removal but excluding individual masses less than 1 cubic meter.

204 Removal of Unsuitable Material

Where directed by the Project Manager the Contractor shall remove unsuitable material to the depth as ordered or agreed by the Project Manager and shall dispose of it in approved spoil tips.

205 *Excavation General.*

- (1) Excavation shall be carried out with the allowances for working space given in the Method of Measurement to the Bills of Quantities, unless otherwise shown as lines, levels and profiles on the Drawings or to such other lines, levels and profiles as the Project Manager may direct or approve in writing. The work shall be carried out by the Contractor in such a way as to avoid disturbance to the surrounding ground. Particular care shall be taken to maintain stability when excavating in close proximity to existing works.
- (2) The work shall be carried out in a careful manner to ensure that the exposed surfaces are as sound as the nature of the material permits and that no point shall protrude inside the lines shown on the Drawings except as otherwise specified or agreed by the Project Manager. In soft excavation which is to remain open permanently, exposed faces shall be formed accurately to the required slopes and profiles. Excavations in rock where the faces shall remain open permanently shall be so trimmed that no point protrudes within the required profile.
- (3) The Contractor shall examine all excavated faces regularly and shall remove all insecure material or materials resulting from any falls. Where instructed in writing by the Project Manager, the Contractor shall wash down exposed surfaces of excavated rock for inspection.
- (4) The Contractor shall dispose of all material arising from excavations. If it is suitable and required for the Permanent Works it shall be placed directly in such Works or set aside for use as and when required in suitable approved dumps, otherwise it shall be removed to tips provided by the Contractor unless otherwise provided or directed by the Project Manager.
- (5) The Contractor shall be responsible for keeping all excavations free from water from whatever cause arising and shall provide such pumping capacity and other measures as may be necessary for this purpose. The Contractor shall make good any damage that may result from his failure to keep the excavations free from water.
- (6) All excavation shall be carried out with care and the method and plant to be used in execution thereof shall be to the satisfaction of the Project Manager. The Contractor shall be responsible for the safety and security of all excavations at all times during the execution of the contract and where necessary shall provide timbering, shoring or other measures required by the Project Manager to prevent movement or loss of ground outside the boundaries, settlement of or damage to

property, or injury to persons. The Contractor shall make good any damage to structures, services or other properties caused by such movement, loss of ground and settlement. The Contractor shall also take precautions to route his plant in such a manner as to minimize the likelihood of slips occurring due to vibration or surcharge from the working or movement of heavy machinery.

- (7) The Contractor will be permitted, subject to the approval of the Project Manager, to adjust side slopes of excavations in soft materials, which are to remain open temporarily in preference to shoring or strutting. However, no payment shall be made for extra excavation volume as a result of these measures.
- (8) The Contractor shall notify the Project Manager without delay of any permeable strata, fissures or unusual ground encountered during excavation.

206 *Blasting*

- (1) The Contractor shall not be permitted to use explosives for rock excavation without the approval of the Project Manager. The Contractor shall only employ suitably qualified and experienced personnel to manage and supervise blasting operations. For each blasting operation, the Contractor shall submit to the Project Manager for approval a statement detailing the type of explosives to be used, method of transport, storage, blasting procedures, safety precautions to be observed and the names and experience of the personnel who will supervise the work. Notwithstanding the Project Manager's approval, the Contractor will be responsible for the blasting operations and shall accept full and absolute liability for any claims resulting either directly or indirectly from the use of explosives on the Site.
- (2) The blasting operations shall comply in every respect with the regulations and laws covering the use of explosives and the Contractor shall be responsible for obtaining all necessary permits.

207 *Excavation beyond Line or Level*

If from any cause whatsoever excavations are carried out beyond their true line and level other than on the instructions of the Project Manager, the Contractor shall make good to the required line and level with the appropriate grade of filling to be contained in the true excavation, or with concrete or other approved material in such a manner as the Project Manager may direct.

208 *Approval of Excavation*

When excavations have been taken out accurately to the profiles or dimensions required for the work the Contractor shall inform the Project Manager who shall carry out an inspection of the excavation. If, after his inspection the Project Manager requires additional excavation to be carried out, the Contractor shall do so to such new profiles or dimensions as the Project Manager may direct.

209 *Excavation for Structures*

- (1) Open excavation to form a foundation for a structure shall be carried out to the lines necessary to permit the proper construction of the structure to the approval of the Project Manager.
- (2) Where a structure is to be founded on soft ground, the excavation shall be taken down until the required formation is exposed and prepared to the approval of the Project Manager. Where concrete has to be placed on a soft foundation, the Project Manager may direct that a blinding layer of lean concrete be placed beneath the structural concrete immediately after completion and approval of the excavation, or require the Contractor to remove the last 100 mm of excavation immediately prior to placing the concrete. If foundation conditions are very soft then the Project Manager shall instruct that additional material shall be excavated and replaced with compacted gravel.
- (3) Where a structure is required to be founded on rock but is not required to penetrate into it, all soft overburden shall be removed and the surface of the rock cleared of any loose material by barring and wedging. Where the foundation is required to penetrate into the rock, excavation of the rock may be carried out by blasting but in such a manner as to prevent the shattering of the rock which is to remain. The Project Manager may direct that the last 300 mm of rock shall be left to be removed by barring and wedging or by the use of approved pneumatic tools so that the exposed surface is sound.
- (4) The Contractor shall report to the Project Manager whenever excavations are ready to receive concrete. No concrete shall be placed in the foundations until the Contractor has obtained the Project Manager's agreement that a secure foundation has been reached and that the excavation has been carried out to the lines and levels required.

PART 3 CONCRETE

301 *Concrete General*

- (1) Concrete shall consist of cement, graded aggregate and water carefully proportioned, thoroughly mixed, placed and compacted as specified.
- (2) Before starting concreting the Contractor shall obtain formal written permission for concreting from the Project Manager or his representative on site. The Project Manager or his representative shall allow concreting after ascertaining the required lines and levels, suitability of formwork, availability of required plant and Labour, proper fabrication and spacing of the steel bars and quality and quantity of cement and aggregates.

302 *Cement*

The cement used throughout the Works shall be obtained from manufacturers approved in writing by the Project Manager and shall comply with BS 12, "Specification for Portland cements" and shall be Ordinary Portland Cement.

303 *Cement Testing*

- (1) All cements shall be certified by the manufacturers as complying with the requirements of the specification. Before orders are placed the Contractor shall submit details of the proposed supplier(s) together with such information on the proposed methods of transport, storage and certification so that the Project Manager may satisfy himself that the quantity and quality required can be supplied and maintained throughout the construction period. Where necessary the Project Manager may require representative samples of the proposed cement to be taken and forwarded to a nominated laboratory for analysis and testing before the source is approved.
- (2) Having obtained the Project Manager's approval of the source(s) of supply, transport, storage and certification of the cement, the Contractor shall not modify or change the agreed arrangements without first having obtained the Project Manager's permission.
- (3) The Contractor shall ensure that the arrangements for the storage of the cement on the Site as hereinafter specified are sufficient for the segregation and identification of each consignment.
- (4) No cement shall be used in the Works until deemed satisfactory by the Project Manager.

304 *Storage of Cement*

- (1) The cement shall be delivered to the site of the Works in sound and properly sealed bags and while being loaded or unloaded and during transit to the concrete mixers, whether conveyed in vehicles or by mechanical means, must be protected from the weather by effective coverings.
- (2) The Contractor shall provide at his own cost perfectly weatherproof and well-ventilated sheds for the storage of the cement. On delivery at the Site the cement is at once to be placed in these sheds and shall be used in the order in which it has been delivered.
- (3) The Contractor shall be responsible for damage to cement bags while transporting them and in no case shall cement from a damaged bag or hardened lumps be used in any of the work.

305 *Fine Aggregate*

- (1) Fine aggregate for concrete shall be clean sand complying with BS 882, "Specification for aggregates from natural sources for concrete". The sand shall be from approved sources and sand which in the opinion of the Project Manager is not clean shall be washed before use.
- (2) Crushed sand up to a maximum of fifty per cent (50%) may be added to natural sand in order to achieve the required grading. Crushed sand alone may only be used with the approval of the Project Manager.

- (3) Sand for use in mortar and rendering shall conform in all respects with BS 1199 and 1200, "Specification for building sands from natural sources".

306 *Coarse Aggregate*

- (1) Coarse aggregate for concrete and other purposes shall comply with BS 882, "Specification for aggregates from natural sources for concrete". It may be either natural gravel or stone broken to the desired size and shall be obtained from quarries, pits or other sources approved by the Project Manager.
- (2) Gravel or ballast shall be free from clay, earth, loam or other organic or similar material and shall be approved by the Project Manager. Any sand in the bulk gravel shall, unless otherwise directed, be removed by screening and if required kept apart. The sand thus obtained may be used in concrete provided that in the opinion of the Project Manager, it complies with the specifications for sand in the preceding clause. Gravel or ballast which in the opinion of the Project Manager is not clean shall be thoroughly washed before use.
- (3) Broken stone shall be of hard durable rock. Notwithstanding approval by the Project Manager of its source, the stone as delivered to the Works will be subject to rejection if for any reason the Project Manager considers it unsatisfactory. It must be perfectly clean and no soft, clayey, shaley or decomposed stone will be approved. The stone must be broken in a stone crusher of approved type to the sizes hereinafter specified and any dust or fine material below 6 mm in size made in the stone crusher is to be removed by screening if so required and, if the Project Manager so orders, the stone shall be thoroughly washed by an approved method.
- (4) When so required and before the work is commenced, laboratory tests shall be made of the aggregates to be used on the Works to establish their suitability for concrete. In addition to these laboratory tests the Project Manager may require check tests of actual deliveries to be made at the Site from time to time.
- (5) The grading of coarse aggregate by analysis shall be within the limits laid down in BS 882, Table 1, and Coarse Aggregates. Should an analysis of the grain size of the material show a deficiency in any particular size as to affect the density of the concrete, the Project Manager may require the Contractor to add such quantity of aggregate of any particular size that he may deem advisable. In every case the material shall when mixed with sand produce a well graded mixture from the largest to the smallest size specified to ensure that concrete of high density shall be produced.

307 *Water for Concrete*

Clean fresh water is to be used for the mixing of all concrete and mortar, and is to be from a source approved by the Project Manager. If required by the Project Manager, samples shall be taken from the proposed source of supply and submitted to a nominated laboratory for testing in accordance with BS 3148, "Methods of test for water for making concrete" and on the results of these tests the Project Manager will decide whether the source is acceptable.

308 Steel for Reinforced Concrete

- (1) Steel reinforcement used in reinforced concrete shall comply with the following British Standards:
 - BS 4449 Specification for carbon steel bars for the reinforcement of concrete
 - BS 4482 Specification for cold reduced steel wire for the reinforcement of concrete
- (2) The Contractor shall furnish the Project Manager with copies of the manufacturer's certificates of tests for the steel reinforcement to be supplied. The Project Manager may, however, order independent tests to be made and any steel which does not comply in all respects with the appropriate foregoing specifications will be rejected.
- (3) Bends, cranks or other Labourers on reinforcement bars shall be carefully formed in accordance with the Drawings. The bars shall be bent cold in a manner which will not injure the material. Bends shall be made round a former having a diameter of at least four times the diameter of the bar. Where splices or overlapping in reinforcement are required the bars shall, unless otherwise shown on the Drawings, have an overlap of not less than thirty diameters where a U-hook is employed on each of the overlapping bars and forty-five diameters for bars without hooks.
- (4) The number, size, form and position of all steel reinforcing bars, ties, links, stirrups and other parts of the reinforcement shall be in exact accordance with the Drawings and they shall be kept in the correct position and with the required cover without displacement during the process of compacting the concrete in place in a manner approved by the Project Manager. The Contractor shall provide all necessary distance pieces and spacer bars at their own cost to maintain the reinforcement in the correct position. The type of distance pieces shall be subject to the approval of the Project Manager. Timber blocks for wedging the steel off the formwork will not be allowed. Any ties, links or stirrups connecting the bars shall be taut so that the bars are properly braced and the inside of hooks and bends shall be in actual contact with the bars around which they are intended to fit. Bars shall be bound together with best black annealed mild steel wire and the binding shall be twisted tight. The free ends of binding wire shall be bent inwards.
- (5) Before any steel reinforcement is embedded in the concrete any loose mill scale, loose rust and any oil, grease or other deleterious matter shall be removed. Partially set concrete which may adhere to the exposed bars during concreting operations shall likewise be removed.

309 Concrete Classes

- (1) The classes of concrete to be used in the Works shall be as shown on the Drawings, Bills of Quantities or as directed by the Project Manager. For each class of concrete the characteristic 28-day crushing strengths, when tested in accordance with the following clauses, shall be as set out in the table below, the 7-day strengths, and minimum cement content shall be used only as a guide.

Class of Concrete	Max Aggregate Size (mm)	Characteristic Strength N/mm ²		Minimum cement content kg/m ³	Minimum strength for trial mix N/mm ²
		28 day	7 day		
AA (Reinforced)	12	25	18	350	32.5

concrete)					
A (reinforced concrete)	20	25	18	300	32.5
B (mass concrete)	40	20	14	225	27.5
C (mass concrete)	40	15	10	200	20
D (blinding concrete)	40	-	-	150	-

- (2) The term characteristic strength means the value of the strength of concrete below which not more than five per cent (5%) of the test results fall.
- (3) Before any concrete is placed in the works the Contractor shall submit to the Project Manager for his approval full details of the mixes he proposes to use for each class of concrete together with their expected average strengths.

310 Concrete Mix Designs

Preliminary concrete designs are to be carried out jointly by the Contractor and the Project Manager to determine the mixes which will satisfy the Specification with the available materials. These mixes shall be designed with due regard for the workability necessary to allow the Contractor to place and compact the concrete with the equipment he proposes to use in any particular situation. The cubes made from the concrete mix designs must achieve the strengths given in 309 (1) above for trial mixes.

311 Works Test

- (1) Test cubes shall be made, cured, stored, transported and tested in compression in accordance with BS 1881, "Testing concrete". The method of compacting cubes by vibration shall be subject to the approval of the Project Manager.
- (2) A sample of concrete shall be taken at random each day of concrete of each grade made. The number of samples per day and the time which they shall be taken shall be varied at random or as directed by the Project Manager.
- (3) From each sample three cubes shall be made for testing at twenty-eight (28) days and two for testing at seven (7) days for control purposes. Concrete cubes will be tested for compression strength at a laboratory approved by the Project Manager. An original test certificate will be submitted to the Project Manager for approval of compression strength.

312 Test Failure

- (1) Should any works test cube fail to attain the specified strength, an immediate examination shall be made to find the cause of the failure and a report sent to the Project Manager's representative who will take suitable action which may be one of the following:
 - (a) Order the concrete corresponding to the cubes to be cut out and replaced.
 - (b) When the failure, in the opinion of the Project Manager's representative, is

slight and occurs in a continuing concreting operation for a large mass of concrete, the next works test result may be awaited and, if the failure then persists, the Project Manager's representative may order that concreting shall cease forthwith and not be resumed until further preliminary tests indicate that the mix has been corrected. Otherwise, the concreting may be allowed to continue with the same mix.

(c) When the failure is serious and relates to a concrete mass which lends itself to it, the Project Manager's representative may order one or more test cylinders to be drilled out and tested in accordance with BS 1881. According to the result of these tests the Project Manager may order the suspected concrete to be cut out and replaced.

(2) The cost of these tests including the cutting out and replacing of concrete of inferior quality shall be borne by the Contractor if the test results show the concrete not to be in accordance with the Specification.

313 *Workability*

The concrete shall be of such consistency that it can be readily transported, placed and compacted in the Works without segregation of the materials. The resulting concrete shall be uniform and free from honey-combing.

314 *Consistency*

The Contractor shall carry out slump, compaction factor or other workability tests as required during concreting of permanent works in order to relate the degree of workability of the mix with the numerical value obtained during the trial mixes.

315 *Concrete Returns and Records*

(1) The Contractor shall send weekly to the Project Manager a return showing the quantities of cement and the number of mixings of each class of concrete used in each section of the Works.

(2) Records shall be kept by the Contractor of the positions in the Works of all batches of concrete, of their class and of all test cubes or other specimens taken from them. Copies of these records shall be supplied to the Project Manager.

316 *Batching*

(1) The aggregates and cement shall be proportioned by means of efficient weigh batching machines except when the Project Manager has approved the use of volume batching. The machines shall be carefully maintained and cleaned and they shall be provided with simple and convenient means of checking the accuracy of the weighing mechanism, and they shall be checked when required by the Project Manager.

(2) For volume batching suitable gauge boxes shall be used.

317 *Mixing Concrete by Machine*

Where the concrete is to be mixed in machines, these shall be of the batch mixing or other approved type. The machines shall ensure that all the concreting materials including the water are thoroughly mixed together before any portion of the mixture is discharged. The mixing time shall not be less than thirty seconds per cubic foot (30sec/ft³) of concrete, with a minimum of three minutes (3min) mixing time per batch. The machines must be capable of discharging their contents while running.

318 *Mixing Concrete by Hand*

Where it is not possible to employ machine mixing and approval has been obtained from the Project Manager, concrete shall be mixed by hand as near as practicable to the site where it is to be deposited. Clean mixing bankers or platforms of sufficient area for the proper execution of the work shall be provided. These platforms if constructed of timber shall consist of planks closely jointed so as to avoid the loss of any grout or liquid from the wet concrete. The whole of the aggregate and cement shall be turned over on the banker in a dry state at least twice. The water shall then be added gradually through a rose head, after which the materials shall again be entirely turned over in a wet state at least three times.

319 *Transport of Concrete*

The concrete shall be discharged from the mixers and transported to the Works by means which shall be approved by the Project Manager and which shall prevent contamination, (by dust, rain or other causes) segregation or loss of ingredients. The means of transportation shall ensure that the concrete is of the required workability at the point and time of placing.

320 *Placing of Concrete*

- (1) The concrete shall be placed in the positions and sequences indicated on the Drawings, in the Specification or as directed by the Project Manager. Except where otherwise directed, concrete shall not be placed unless the Project Manager or his representative is present and has previously examined and approved the positioning, fixing and condition of reinforcement and any other items to be embedded and the cleanliness, alignment and suitability of the containing surfaces or formwork.
- (2) The concrete shall be deposited as nearly as possible in its final position without rehandling or segregation and in such a manner as to avoid displacement of the reinforcement, other embedded items or formwork. Concrete shall not be dropped through a height greater than 1.2 m except with the approval of the Project Manager who may order the use of bankers and the turning over of the deposited concrete by hand before being placed.
- (3) All concreting shall be carried out in sections previously ordered or approved by the Project Manager and shall proceed continuously in each section until completed and no interval shall be allowed to elapse while the work is in hand.

- (4) The concreting shall be carried out in such a way that the exposed faces of concrete shall be sound and solid, free from honeycombing and excrescence. No plastering of imperfect concrete faces will be allowed, any concrete that is defective in any way will, if so ordered by the Project Manager, be cut out and replaced to such depth or be made good in such manner as the Project Manager may direct.
- (5) Where concrete is required to be placed against undisturbed ground, the entire space between the finished concrete surface and the ground, including any over break, is to be completely filled with concrete of the specified class. The concrete shall be well rammed and compacted to ensure that all cavities are filled and the concrete is everywhere in contact with the ground.
- (6) Where concrete is required to be placed against a metal surface to which it is required to adhere, care shall be taken to work the concrete well into the re-entrant angles and to ensure contact by hammering the metal part on its free side providing that this can be done without damaging the metal or its protective coating, if any, or by other means.
- (7) The placing of concrete under water will be permitted only in exceptional circumstances and with the prior approval of the Project Manager. Where concreting under water is allowed, twenty-five per cent (25%) additional cement must be added. Concrete shall be deposited continuously in each section by the use of tremie pipes or other approved means and no horizontal construction joints will be permitted to be made under water and approved and adequate protection against possible damage or movement due to scour must be provided.

321 *No Partially Set Material to be used*

All concrete must be placed and compacted in its final position within thirty minutes (30min) of discharge from the mixer unless otherwise approved. No partially set material shall be used in this work.

322 *Compaction of Concrete*

The concrete shall be fully compacted throughout the full extent of the layer and shall be brought up in level layers of such depth that each layer is readily and properly incorporated with the layer below with the use of internal vibrators or by spading, slicing or ramming. It shall be thoroughly worked against formwork and around any reinforcement or embedded items without displacement.

323 *Plum Concrete*

Plums shall be hard clean natural stones embedded in mass concrete during the placing of the concrete. Unless otherwise shown on the drawings, the plums shall not be larger than one third of the cross section of the concrete and should not be placed closer than 150 mm to each other vertically and 100 mm horizontally. The volume of plums shall unless otherwise specified, not exceed forty per cent (40%) of the mass

concrete volume and care shall be taken to ensure that the minimum cover over any plum is 100 mm.

324 *Concreting in Adverse Weather*

- (1) No concreting will be allowed to take place in the open during storms or heavy rains. Where strong winds are likely to be experienced additional precautions to ensure protection from driving rain and dust shall also be taken.
- (2) The Project Manager may withhold approval of commencement of concreting until he is satisfied that full and adequate arrangements have been made.

325 *Concreting at Night or in the Dark*

Where approval has been given to carry out concreting operations at night or in places where daylight is excluded, the Contractor is to provide adequate lighting at all points where mixing, transportation and placing of concrete is in progress.

326 *Concreting in High or Low Ambient Temperature*

- (1) Where the ambient temperature exceeds thirty-two degrees Celsius (32°C), the Contractor shall take special measures in the mixing, placing and curing of concrete. The temperature of the concrete when deposited shall not exceed thirty degrees Celsius (30°C). The Contractor shall carry out all necessary special measures to ensure that the maximum concrete temperature after placing shall not exceed fifty degrees Celsius (50°C) or thirty degrees Celsius (30°C) above the concrete temperature at the time of placing, whichever is lower.
- (2) During placing suitable means shall be provided to prevent premature stiffening of the concrete placed in contact with hot surfaces.
- (3) The Contractor shall not mix and place concrete when the ambient temperature falls below three degrees Celsius (3°C).

327 *Curing and Protection*

- (1) Concrete shall be protected during the first stage of hardening from the harmful effects of sunshine, drying winds, cold, rain or running water. The Contractor shall pay particular attention to the need to protect concrete immediately after the finishing operation and prior to its final set and shall submit their proposals to achieve this protection for the Project Manager's approval. Protection of concrete which has achieved its final set shall consist of one or more of the following:
 - (a) A layer of sacking, canvas, hessian, straw mats or similar absorbent material or a layer of sand, kept constantly moist by spraying with water as necessary for seven (7) days or such periods as may be directed by the Project Manager.
 - (b) After thoroughly wetting, a layer of approved waterproof paper or plastic membrane kept in contact with the concrete for seven (7) days or

such period as may be directed by the Project Manager.

- (2) The use of saline water for curing purposes will not be permitted.

328 *Construction Joints*

- (1) Concreting shall be carried out continuously up to construction joints, the position and arrangement of which shall be as indicated on the Drawings or as previously approved by the Project Manager. The Contractor is to allow for working beyond the ordinary working hours where necessary in order that each section of concrete may be completed without any lapse while the work is in hand. All construction joints are to be formed square to the work.
- (2) Where vertical construction joints are required, the joint face of the first stage concrete shall be finished against a stopping-off board, or vertical end shutter, suitably notched to pass the reinforcement. When the concrete is hard and the shutter is removed, the whole joint surface shall be thoroughly roughened or scabbled with suitable tools so that no smooth skin of concrete is visible and that all aggregates and solid matrix around them is exposed.
- (3) For horizontal or slightly inclined construction joints, the surfaces shall preferably be prepared when the concrete has set but not hardened by jetting with a fine spray of water and brushing with a stiff brush to remove the smooth skin and expose the aggregate without disturbing it. Where this treatment is impractical and work is resumed after the concrete surface has hardened, a similar procedure shall be adopted as on vertical joints.
- (4) If, in the opinion of the Project Manager, any deleterious material has come into contact with the concrete of the construction joint or if the concrete is honeycombed or unsound for any reason, the concrete shall be cut back to such a depth as the Project Manager shall order and the roughened surfaces shall be thoroughly cleaned by compressed air and water jets or other approved means.
- (5) Immediately before concreting is resumed, the roughened joint surface shall be thoroughly cleaned with compressed air and water jets and slightly wetted. The Contractor shall take precaution to avoid segregation of the concrete along the joint plane and to obtain thorough compaction.

329 *Movement Joints*

- (1) Movement joints shall be formed in the position and manner shown on the Contract Drawings. In the case of water retaining structures, joints shall be made watertight by the provision of a continuous water stop, with suitable water-resistant filler material and sealant. The materials and workmanship utilized in movement joints shall comply with the following:
 - (a) Compressible filler shall be self-expanding cork filler consisting of cork granules bonded together with an insoluble, synthetic resin. When subject to wet or moist conditions the filler shall be capable of swelling to occupy a larger volume than that of the material supplied. The expansion

properties of the filler shall not be less than one hundred and forty per cent (140%) when immersed in boiling water for one hour (1hr). The filler shall be supplied and stored in sealed moisture resistant wrappings. Compressible filler shall be secured to the first cast concrete surface using an approved adhesive.

- (b) Water stops shall be Polyvinyl Chloride (PVC) as manufactured by Expandite Ltd, UK, or equivalent approved, in the size specified in the drawings. For expansion joints the water stops shall incorporate a centre bulb or box to allow movement to be accommodated. Centrally placed water stops shall have reinforced eyelets on the outer flange to facilitate the positioning of the water stops by wiring to the surrounded steelwork. Externally placed water stops shall include a wide reinforced nailing flange for positive fixing to formwork or adjacent concrete faces. Water stops shall be firmly supported by split stop-end shuttering where appropriate, and in no case shall the water stops be pierced to assist in fixing. Special care should be taken to ensure that the concrete is well worked against the embedded part of the water stops and is free from honeycombing. Precautions shall be taken to protect any projecting portions of the water stops from damage during the progress of the work and from sunlight and heat. Where water stops are required to be jointed, this shall be undertaken using approved heat welding equipment. The water stops shall be installed in accordance with the manufacturer's instructions and to the approval of the Project Manager.
 - (c) Joint sealant shall be a warm applied hand mouldable flexible bitumen putty sealant or similar approved.
 - (d) Miscellaneous materials necessary for the installation of movement joints such as adhesives for securing filler materials, bond breaking tapes, bituminous paints for creating a discontinuity between concrete surfaces and primers shall be compatible with the compressible filler, water stops and sealant specified previously.
 - (e) All costs associated with the expansion joint shall be included within the concrete item as specified in the respective bill of quantities.
- (2) Contraction joints where specified shall be formed in the position and manner shown on the Drawings. The reinforcement shall be discontinuous across the joint. Dowel bars, water stops and sealant shall be provided as shown. The face of the first stage concrete shall be finished fair faced and after curing painted with two coats of bituminous paint. Casting of water stops and sealing of joints is to be carried out in accordance with the manufacturer's instructions. Dowel bars shall be round mild steel of the dimensions shown on the Drawings. The bars shall be cast into the first stage concrete and the protruding part shall be painted with two coats of bituminous paint.
- (3) Expansion joints where specified shall be formed in the position and manner shown on the Drawings. The reinforcement shall be discontinuous across the joint. Dowel bars, water stops, compressible filler and sealant shall be provided as shown. The face of the first stage concrete shall be finished fair faced and after

curing the compressible filler shall be fixed in position in a manner to the approval of the Project Manager. Casting in of water stops and sealing of joints is to be carried out in accordance with the manufacturer's instructions. Dowel bars shall be round mild steel of the dimensions shown on the drawings. The bars shall be cast into the first stage concrete and the protruding part shall be painted with two coats of bituminous paint. An end cap shall be fixed to the end of each bar prior to pouring the second stage concrete, in order to create a void at the end of the bar to accommodate any movement.

330 *Concrete Formwork*

- (1) The Contractor shall submit for the approval of the Project Manager details of the methods and materials proposed for formwork to each section of the work.
- (2) Formwork shall be constructed from sound materials of sufficient strength, properly braced, strutted and shored as to ensure rigidity throughout the placing and compaction of the concrete without visible deflection. Formwork shall be so constructed that it can be removed without shock or vibration to the concrete. No part of any metal tie or spacer remaining permanently embedded in the concrete shall be nearer than 50 mm to the finished surface and the cavity shall be so formed as to permit satisfactory filling with cement mortar.
- (3) All joints shall be close fitting to prevent leakage of grout and at construction joints the formwork shall be tightly secured against previously cast or hardened concrete to prevent stepping or ridges to exposed surfaces.
- (4) Formwork shall be constructed to provide the correct shape, lines and dimensions of the concrete shown on the Drawings. Due allowance shall be made for any deflection which will occur during the placing of concrete within the formwork. Panels shall have true edges to permit accurate alignment and provide a neat line with adjacent panels and at all construction joints. All panels shall be fixed with their joints either vertical or horizontal, unless otherwise specified or approved. Unless otherwise detailed, arises of all concrete shall be finished to a 25 mm x 25 mm chamfer. When chamfers are to be formed, the fillets shall be accurately cut to size to provide a smooth and continuous chamfer.
- (5) The bidder shall analyze and include all costs associated with formwork for the structure in the concrete unit rate for the respective item in the Bill of Quantities.

331 *Formwork for Exposed Surfaces*

- (1) Unless otherwise stated on the Drawings, wrought formwork shall be used for all permanently visible concrete surfaces. Wrought formwork shall be such as to produce a smooth and even surface free from perceptible irregularities. Tongued and grooved planed boards, plywood or steel forms shall have their joints flush with the surface.
- (2) The finished surface shall be within the tolerances specified and full cover to reinforcement steel shall be maintained.

332 *Formwork for Non-Exposed Surfaces*

Unless otherwise stated on the Drawings, rough formwork may be used for all surfaces which are not permanently exposed. Rough formwork may be constructed of plain butt-jointed sawn timber but the Contractor shall ensure that all joints between boards shall be grout-tight. The finished surface shall be within the tolerances specified and full cover to reinforcement steel shall be maintained.

333 *Preparation of Formwork*

- (1) Before concrete is placed, the formwork shall be thoroughly cleaned and free from sawdust, shavings, dust or other debris. Temporary openings shall be provided to assist in removal of the rubbish.
- (2) After cleaning, the formwork shall be coated with an approved release agent, which shall not be allowed to run on to reinforcement, other embedded steelwork or concrete at any construction joint.
- (3) All formwork shall be inspected and approved by the Project Manager before concrete is placed in it though this shall not relieve the Contractor from the requirements as to soundness, finish and tolerances of the concrete specified elsewhere.

334 *Removal of Formwork*

- (1) Formwork shall be removed in such a manner as will not damage the concrete. No formwork shall be removed until the concrete has gained sufficient strength to support itself. Centers and props may be removed when the member being supported has gained sufficient strength to carry itself and the load to be supported on it with a reasonable factor of safety. The following table is a guide to the minimum periods which must elapse between the completion of the concreting operations and the removal of formwork. No formwork shall be removed without the permission of the Project Manager and such permission shall not relieve the Contractor of his responsibilities for the safety of the structure.
- (2) Minimum stripping and striking times shall be as follows under normal weather conditions unless otherwise approved by the Project Manager:

	Hours
(i) Vertical surfaces	24
(ii) Vertical wall surfaces under 300 mm thick	48
(iii) Beam sides and columns	48
	Days
(iv) Slabs with props left under	4
(v) Removal of props to slabs	9
(vi) Beam soffits with props left under	7
(vii) Removal of props to beams	17

335 *Cover to Reinforcement*

- (1) The concrete cover to reinforcement shall be 50 mm unless otherwise shown on the Drawings.
- (2) The Contractor shall provide any necessary concrete pads for ensuring the cover is attained and in no case shall timber packing be used.

336 *Surface Finish*

- (1) The concrete surface finish on upward facing horizontal or sloping faces, except for blinding concrete or otherwise stated on the Drawings, shall be a "fair" surface. A fair surface shall be obtained by screeding and trowelling with a wood float.
- (2) Screeding shall be carried out, following compaction of the concrete, by the slicing and tamping action of a screed board running on the top edges of the formwork or screeding guides to give a dense concrete skin true to line and level.
- (3) Wood float trowelling shall be carried out after the concrete has stiffened and the film moisture has disappeared. Working should be kept to a minimum compatible with a good finish and the surface shall be true, to the required profile and tolerance. Whenever necessary the Contractor shall provide and erect overhead covers to prevent the finished surface from being marred by raindrops or dripping water.

337 *Precast Concrete*

- (1) Concrete members specified to be fabricated as precast concrete units shall be fabricated with concrete of the specified class placed into a grout-tight mould. If so required, the mould shall be laid on a vibrating table and vibration applied while the concrete is placed.
- (2) Permanently exposed surfaces shall have a finish obtained by casting the unit in properly designed moulds of closely-jointed wrought boards or steel or other suitable material. The surface shall be improved by carefully removing all fins and other projections, thoroughly washing down and filling the most noticeable surface blemishes with a cement and fine aggregate paste matching the colour of the concrete.
- (3) Surfaces which will subsequently receive grout or concrete to complete a structural connection or other composite structural component of which the precast unit forms a part, shall be prepared as early as possible after casting. This preparation shall be carried out preferably when the concrete has set but not hardened by jetting with a fine spray of water or brushing with a stiff brush, just sufficient to remove the outer mortar skin and to expose the larger aggregate without its being disturbed. Where this treatment is impracticable, sand blasting or a needle gun should be used to remove the surface skin and laitance. Hacking is to be avoided.

- (4) With the approval of the Project Manager the Contractor may be permitted to precast members which were specified to be constructed insitu; in such cases the Contractor shall carry out the work as described above but payment shall be made in the manner appropriate to the method of construction originally specified. Generally, members which are structurally dependent on a rigid fixing with adjoining structures will not be permitted to be constructed by precasting.
- (5) Precast units shall be jointed with cement mortar as specified or other jointing system as shown on the Drawings, or as may be directed by the Project Manager. The mortar shall be packed in layers between the units with steel tools until the whole of the joint is solidly filled and the exposed surfaces of the joint shall be raked out to a depth of 6 mm and flush pointed with similar mortar, but of pointing consistency.

338 ***Supply of Precast Concrete Units***

The Contractor will be permitted to obtain precast concrete units from outside suppliers provided that they comply with the Specification and that the Contractor obtains the Project Manager's approval to each supplier.

339 ***Handling and Stacking of Precast Units***

The Contractor is to give the Project Manager full details of their proposed methods of handling and stacking precast concrete units. The Project Manager will examine these details and will either approve the methods or order modifications designed to ensure that no excessive stresses are set up in the units. The finally approved methods are to be adhered to at all times and the Contractor shall be deemed to have included in their rates for all measures required to handle and stack units safely and without undue stressing.

340 ***Cement Grout***

Cement grout for general purposes shall consist of Portland cement and water mixed in the proportion of one (1) part by volume of cement and one and a half (1.5) parts by volume of water. The grout shall be used within one hour (1 hr) of mixing.

341 ***Cement Mortar***

Cement mortar shall be machine mixed and unless otherwise specified, consist of three (3) parts of sand to one (1) part of Ordinary Portland cement mixed and thoroughly incorporated together. Just enough water will be added to give workability appropriate to its use. The above proportions are by volume. Mortar shall be used whilst freshly mixed and no softening or re-tempering will be allowed.

342 ***Concrete Blocks***

Precast concrete blocks shall be solid and made of the class of concrete shown on the Drawings and shall comply in every respect with the aforesaid specifications. Unless otherwise specified on the Drawings, the nominal block size shall be 400 mm x 200 mm x 200 mm. The Contractor may with the Project Manager's approval modify the dimensions in order to simplify the building work. Blocks shall be cast in rigid steel

forms and shall be allowed to cure for a period of not less than fifteen (15) days before use.

343 *Block Masonry*

- (1) Block masonry shall be to the lines and levels show on the Drawings. The concrete blocks shall be laid in a staggered pattern such that the vertical joints between two consecutive layers are offset by half a block length.
- (2) The blocks shall be wetted before laying and shall be set in mortar, which complies with the specifications given in Clause 341. Unless otherwise stated, the maximum joint thickness shall be 12 mm and the horizontal and vertical joints shall be filled with mortar. Joints shall be finished flush with the face of the blocks. Block masonry shall be cured for a period of seven days by covering the work with two layers of hessian, which is kept permanently saturated. Provision shall be made to clean all exposed faces both as the work proceeds and on completion so that they are left in a neat, tidy and clean condition.
- (3) Building masonry will not be permitted in heavy rain without the approval of the Project Manager. In such instances the Contractor shall make provision to protect materials and the newly placed mortar from the rain.

APPENDIX A

TABLE OF TOLERANCES

The following are the tolerances within which the works are to be executed or as directed by the Project Manager:

Tolerance from Specified Position

Maximum departure of plan position of structure 150 mm

Tolerance from Specified Dimension

Maximum departure in thickness, cross-sectional dimension or position of columns, beams, walls, footings and the like +25/ -10 mm

Surface Tolerance on Straightness or Departure from Specified Curve

General Surfaces

Maximum deviation in horizontal or vertical direction

- Gradual over a 10m length 25 mm
- Abrupt 10 mm

Surfaces in Contact with Flowing Water

Maximum deviation in direction of flow or normal to flow

- Gradual over a 10m length 15 mm
- Abrupt 5 mm

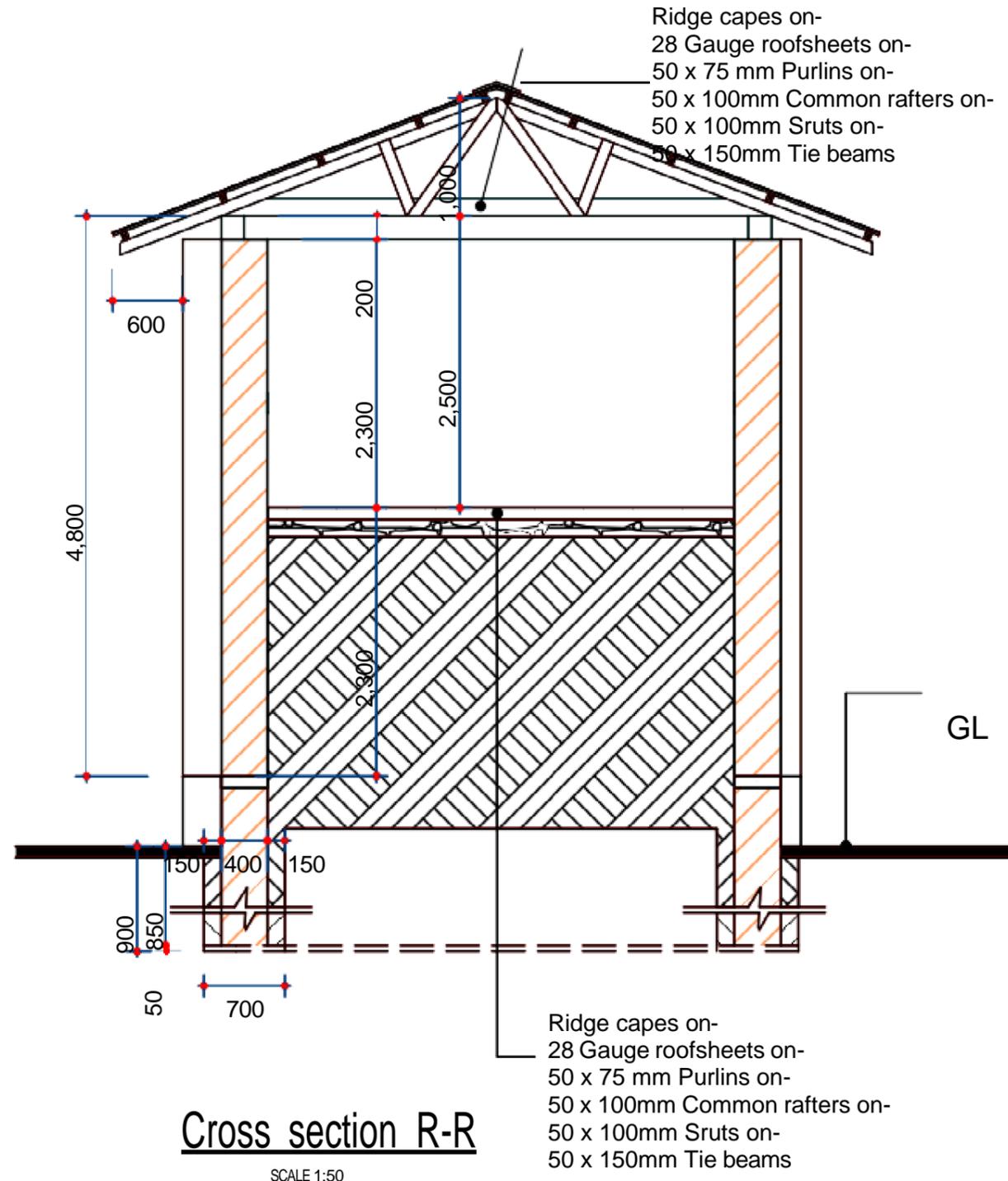
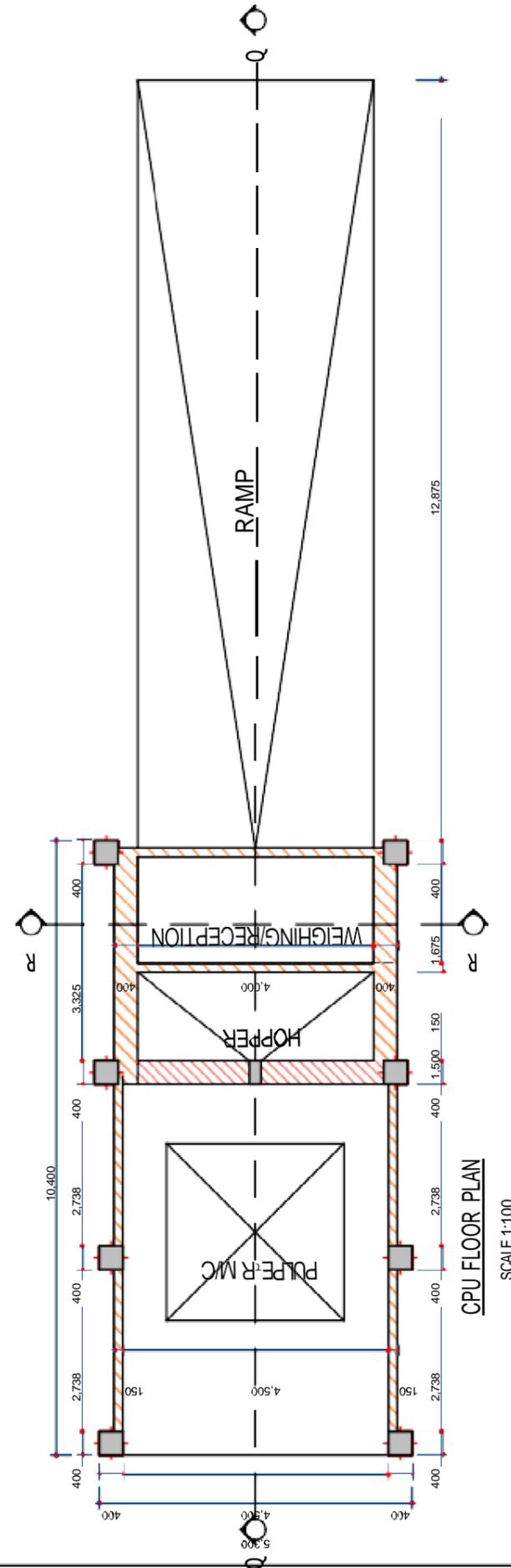
Reinforcement

Maximum departure in required spacing 15 mm

Minimum lap length shall be:

- In the case of mild steel reinforcing 40 times bar diameter
- In the case of high yield steel reinforcing 50 times bar diameter

SECTION VII: DRAWING



NOTES

All dimensions are in mm.
This drawing shall not be scaled, the Contractor shall check and verify all dimensions and report to the

Architect before commencing the works

REV	DATE	DESCRIPTION
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MAIN PROJECT TITLE:

Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE

CPU House

DRAWING TITLE

As per drawing

PROJECT No.

DRAWING No. 03

CLIENT:

Good Neighbors Tanzania,
P.O Box 292,
Mbozi.

DRAWN BY:

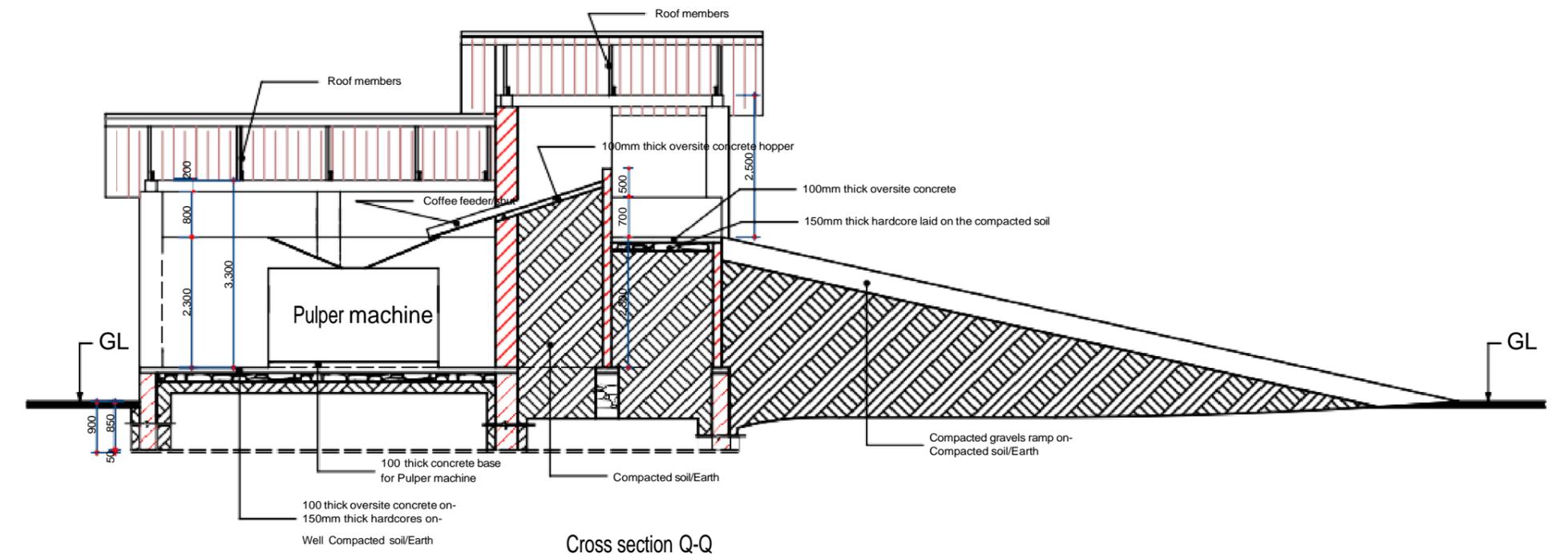
Mwashiyu John Adam,
+255754695800,
+255715695800,
+255739695800.

Email: adamujohn23@hotmail.com

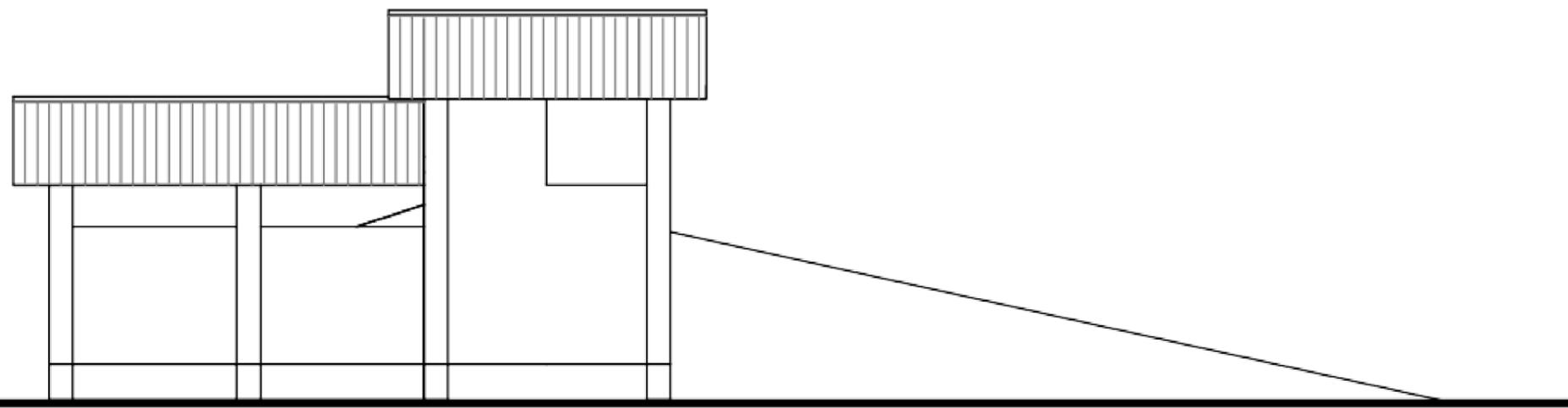
CHECKED BY:

SCALE	DATE	PAPER SIZE
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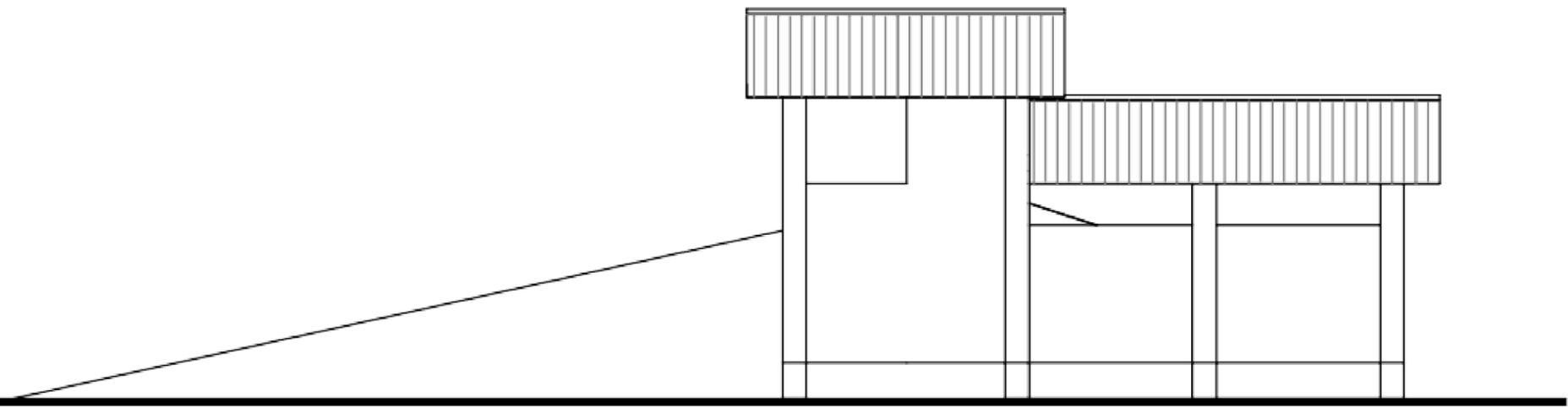
AS PER DRG Mar. 2025 A3



Cross section Q-Q



CPU House-Right hand side elevation



CPU House-Left hand side elevation

NOTES

All dimensions are in mm.
 This drawing shall not be scaled, the Contractor shall check and verify all dimensions and report to the Architect before commencing the works

REV	DATE	DESCRIPTION

MAIN PROJECT TITLE:

Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE

CPU House

DRAWING TITLE

As per drawing

PROJECT No.

DRAWING No. 04

CLIENT:

Good Neighbors Tanzania,
 P.O Box 292,
 Mbozi.

DRAWN BY:

Mwashiyua John Adam,
 +255754695800,
 +255715695800,
 +255739695800.
 Email: adamujohn23@hotmail.com

CHECKED BY:

SCALE	DATE	PAPER SIZE
1:100	Mar. 2025	A3

NOTES

All dimensions are in mm.
 This drawing shall not be scaled, the Contractor shall check and verify all dimensions and report to the Architect before comencing the works

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REV	DATE	DESCRIPTION
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MAIN PROJECT TITLE:
 Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE
 CPU House

DRAWING TITLE
 As per drawing

PROJECT No.

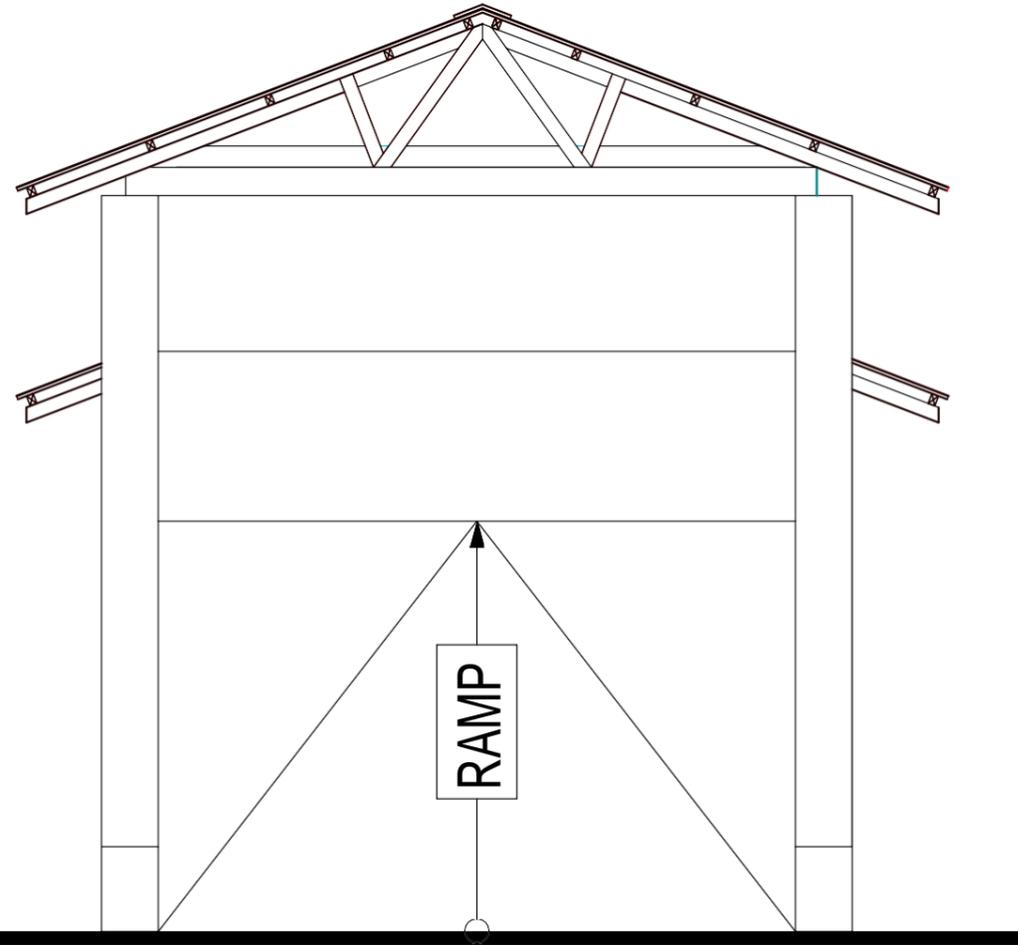
DRAWING No. 05

CLIENT:
 Good Neighbors Tanzania,
 P.O Box 292,
 Mbozi.

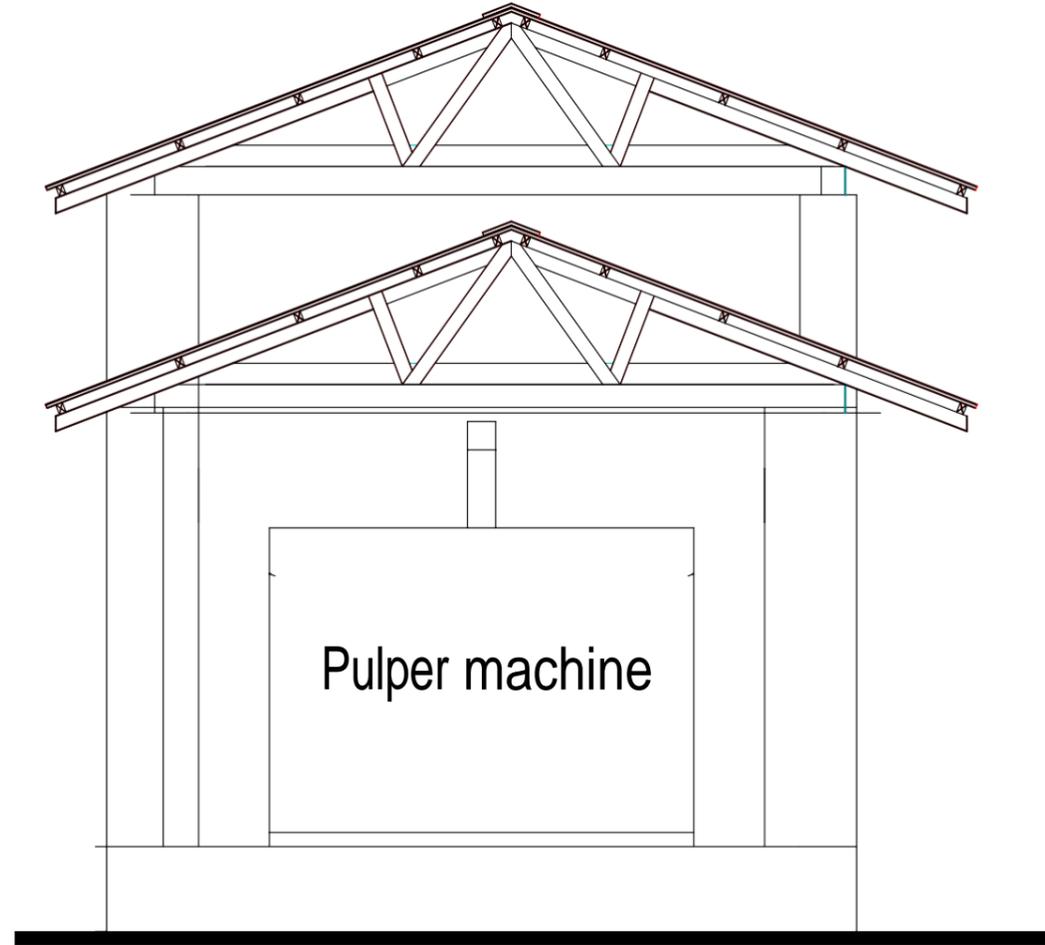
DRAWN BY:
 Mwashuuya John Adam,
 +255754695800,
 +255715695800,
 +255739695800.
 Email: adamujohn23@hotmail.com

CHECKED BY:

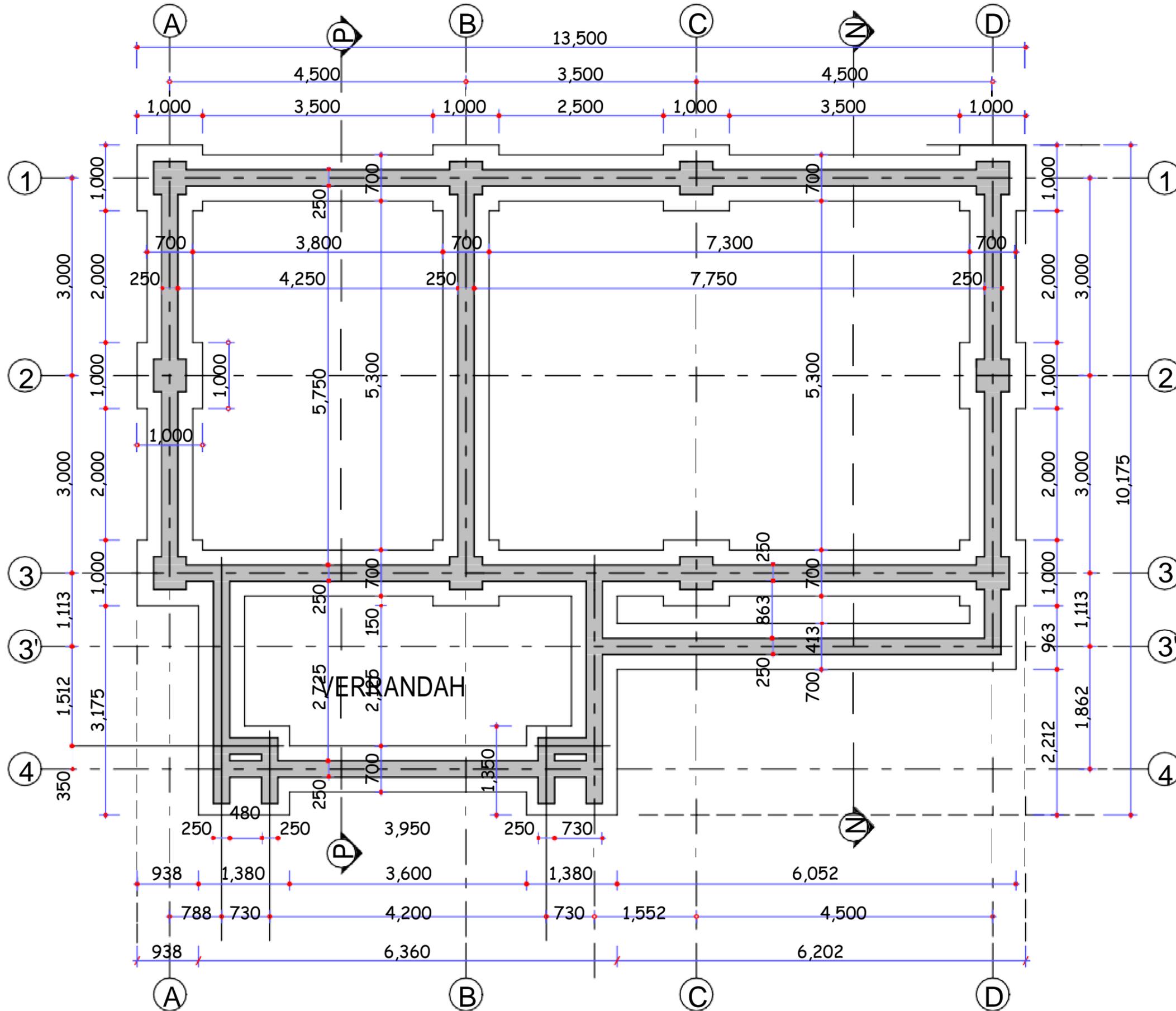
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1:50	Mar. 2025	A3



CPU Front elevation



CPU Rear elevation



NOTES

All dimensions are in mm.
 This drawing shall not be scaled, the Contractor shall check and verify all dimensions and report to the Architect before commencing the works

REV	DATE	DESCRIPTION

MAIN PROJECT TITLE:

Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE
 Store & Office Block

DRAWING TITLE
 Foundation plan

PROJECT No.

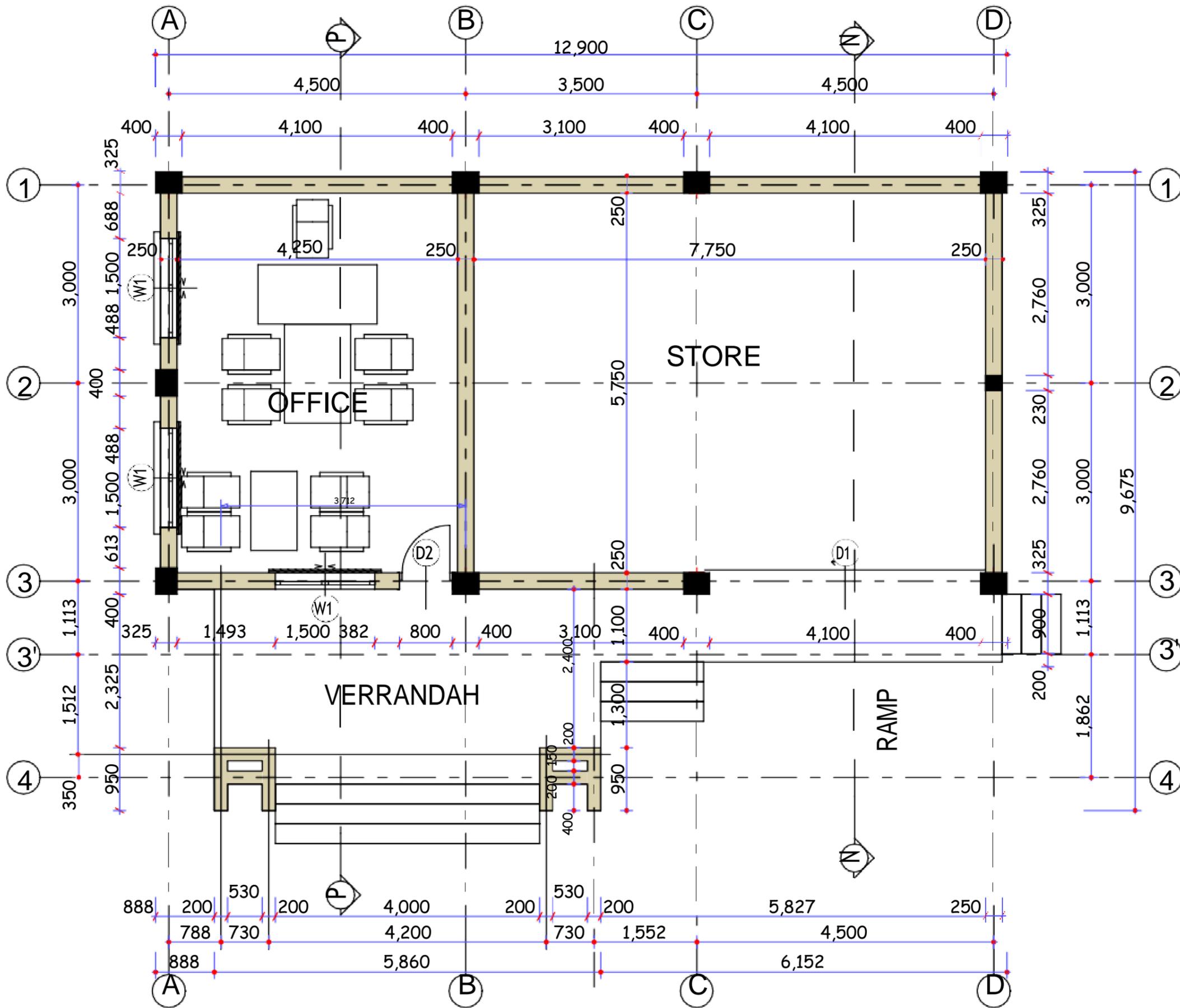
DRAWING No. 06

CLIENT:
 Good Neighbors Tanzania,
 P.O Box 292,
 Mbozi.

DRAWN BY:
 Mwashuiya John Adam,
 +255754695800,
 +255715695800,
 +255739695800.
 Email: adamjohn23@hotmail.com

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SCALE	DATE	PAPER SIZE
1:100	Mar. 2025	A3



NOTES

All dimensions are in mm.
 This drawing shall not be scaled, the Contractor shall check and verify all dimensions and report to the Architect before commencing the works

REV	DATE	DESCRIPTION

MAIN PROJECT TITLE:
 Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE
 Store & Office Block

DRAWING TITLE
 Ground floor plan

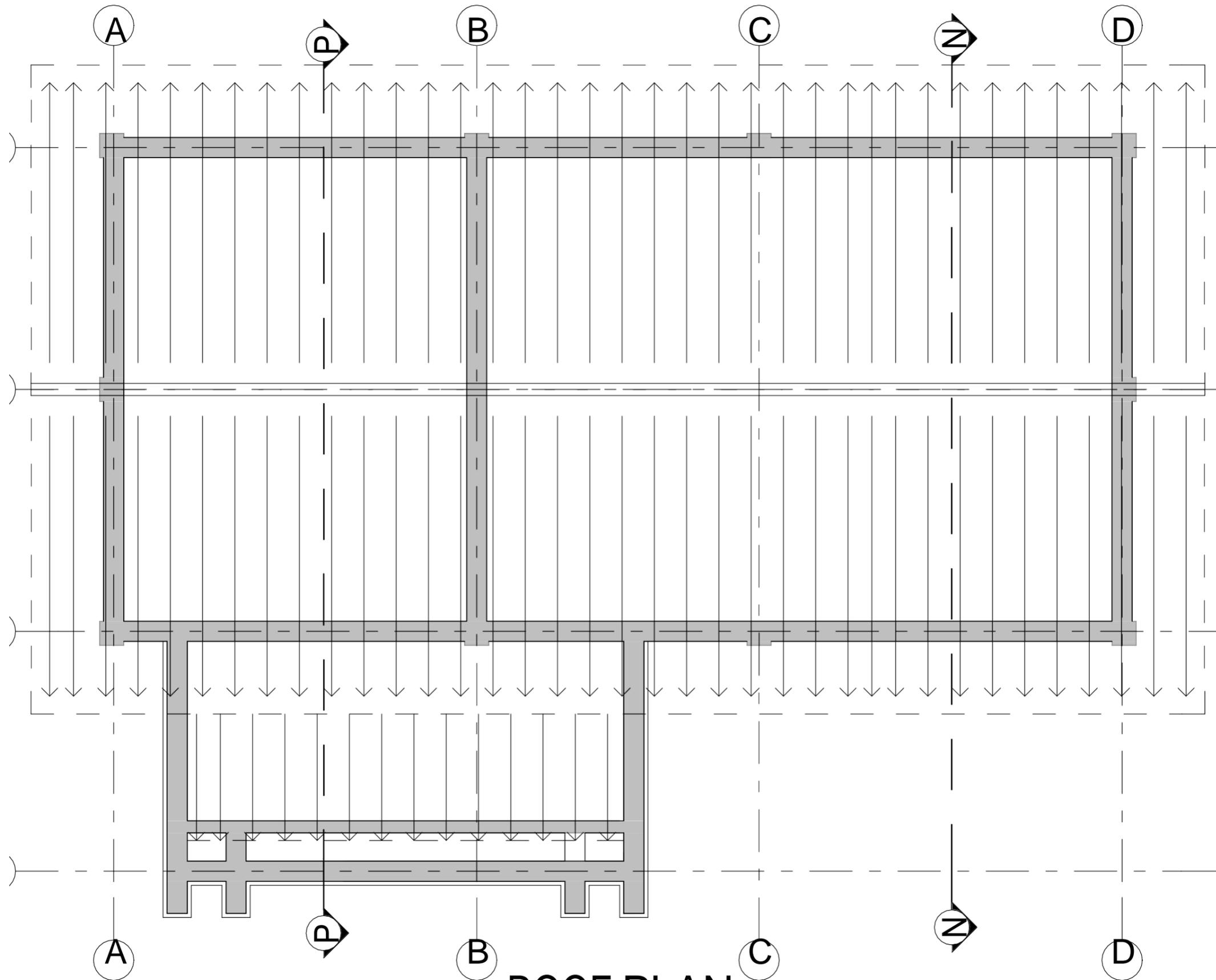
PROJECT No.
DRAWING No. 07

CLIENT:
 Good Neighbors Tanzania,
 P.O Box 292,
 Mbozi.

DRAWN BY:
 MwashuuyaJohnAdam,
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ROOF PLAN

NOTES

All dimensions are in mm.
 This drawing shall not be scaled, the Contractor shall check and verify all dimensions and report to the Architect before comencing the works

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REV	DATE	DESCRIPTION
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MAIN PROJECT TITLE:

Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE

Store & Office Block

DRAWING TITLE

Roof plan

PROJECT No.

DRAWING No. 08

CLIENT:

Good Neighbors Tanzania,
 P.O Box 292,
 Mbozi.

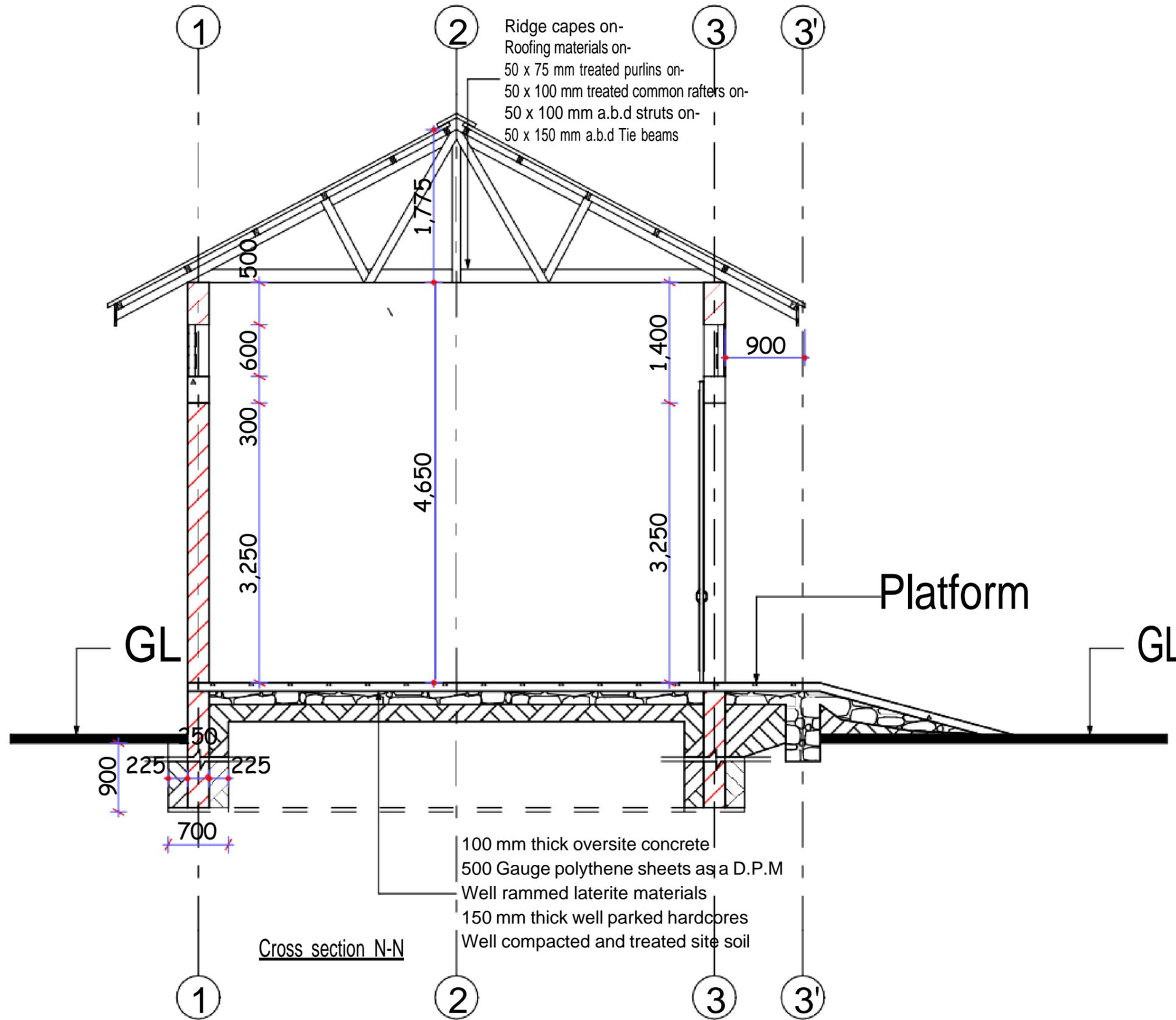
DRAWN BY:

Mwashiyu John Adam,
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 +255715695800,
 +255739695800.
 Email: adamujohn23@hotmail.com

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NOTES

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This drawing shall not be scaled, the Contractor shall check and verify all dimensions and report to the Architect before commencing the works

REV	DATE	DESCRIPTION

MAIN PROJECT TITLE:

Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE

Store & Office Block

DRAWING TITLE

Cross section N-N

PROJECT No.

DRAWING No. 09

CLIENT:

Good Neighbors Tanzania,
P.O Box 292,
Mbozi.

DRAWN BY:

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CHECKED BY:

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1:50	Mar. 2025	A3

NOTES

All dimensions are in mm.
This drawing shall not be scaled, the Contractor shall check and verify all dimensions and report to the Architect before commencing the works

REV	DATE	DESCRIPTION

MAIN PROJECT TITLE:

Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE

Store & Office Block

DRAWING TITLE

Cross section P-P

PROJECT No.

DRAWING No. 10

CLIENT:

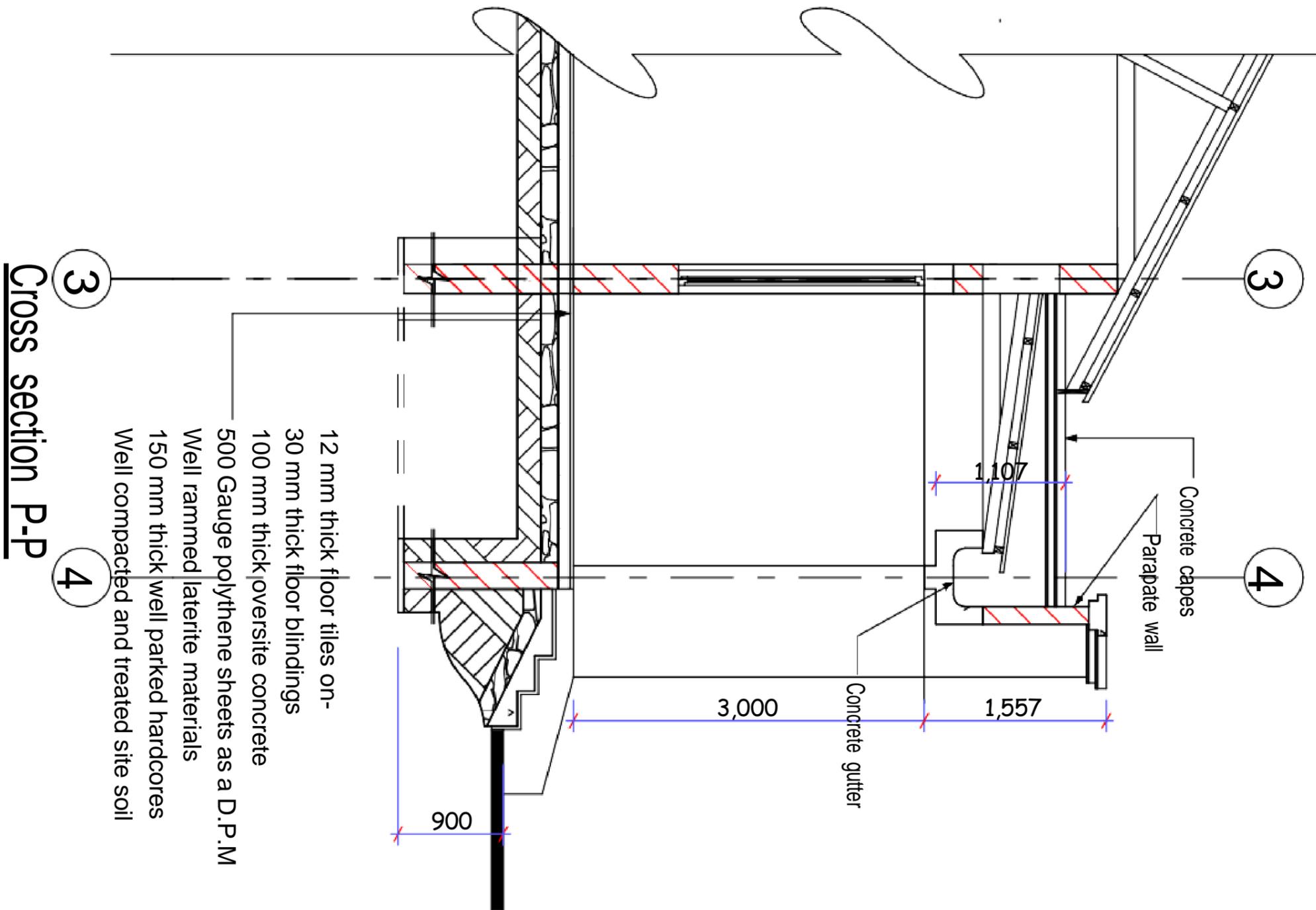
Good Neighbors Tanzania,
P.O Box 292,
Mbozi.

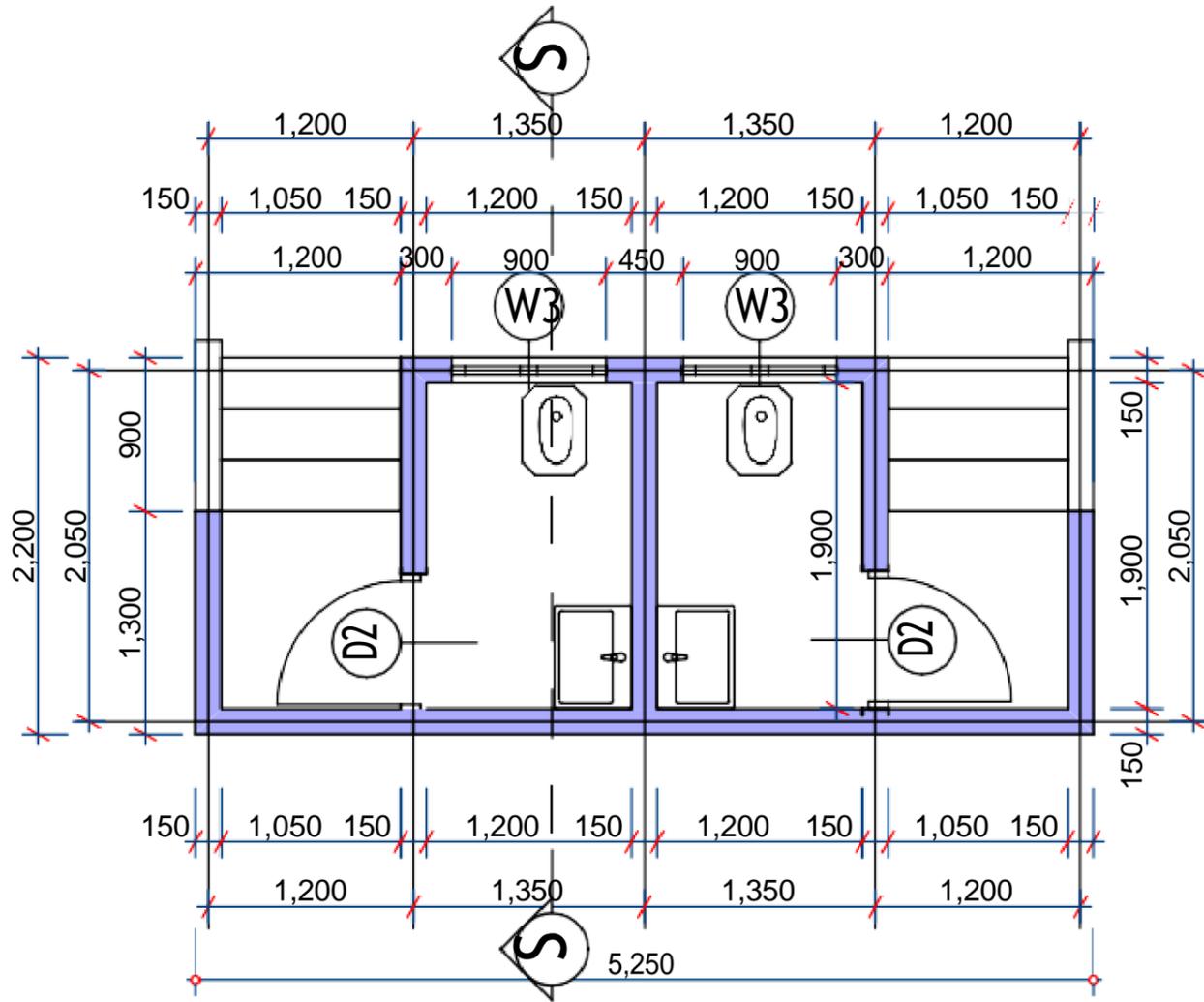
DRAWN BY:

MwashiyuJohnAdam,
+255754695800,
+255715695800,
+255739695800.
Email: adamujohn23@hotmail.com

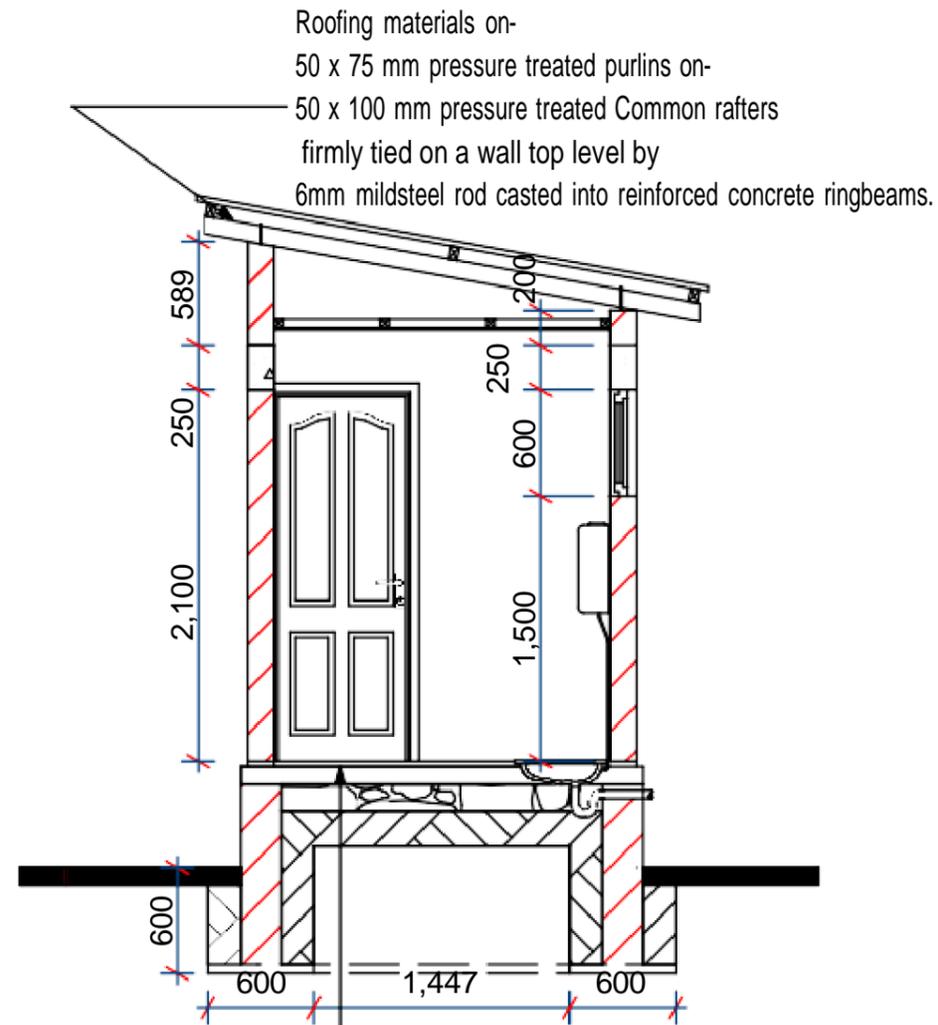
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Toilet floor plan



Roofing materials on-
 50 x 75 mm pressure treated purlins on-
 50 x 100 mm pressure treated Common rafters
 firmly tied on a wall top level by
 6mm mildsteel rod casted into reinforced concrete ringbeams.

12mm thick floor tiles on-
 30mm thick cement/sand blindings on-
 100mm thick floor slab on-
 500 Gauge polythene sheets D.P.M on-
 Well rammed laterite materials on-
 150mm thick well parked hardcores on-
 Well compacted and chemically treated site soil.

Cross section S-S

NOTES

All dimensions are in mm.
 This drawing shall not be scaled, the Contractor shall check and verify all dimensions and report to the Architect before commencing the works

REV	DATE	DESCRIPTION

MAIN PROJECT TITLE:

Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE

Toilet block

DRAWING TITLE

As per drawing

PROJECT No. 2771/JA/HS/19/2024

DRAWING No. 10

CLIENT:

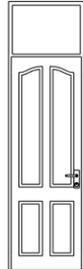
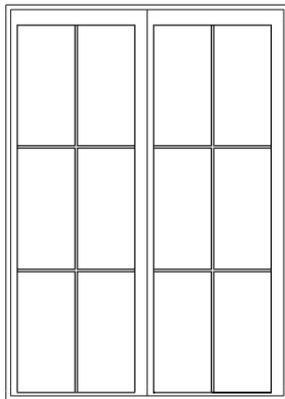
Good Neighbors Tanzania,
 P.O Box 292,
 Mbozi.

DRAWN BY:

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 +255754695800,
 +255715695800,
 +255739695800.
 Email: adamujohn23@hotmail.com

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SCALE	DATE	PAPER SIZE
1:40	Mar. 2025	A3

Door with Transom 	Width: 0.80 m	1 piece(s)
	Height: 2.85 m	
	User ID	D2
	Opening orientation	L
	Surface Name	Wood - Mahogany
Exterior Sliding Door 	Width: 4.26 m	1 piece(s)
	Height: 3.50 m	
	User ID	D1
	Opening orientation	R
	Surface Name	Metal
Double Sash Window 	Width: 1.50 m	3 piece(s)
	Height: 2.10 m	
	User ID	W1
	Opening orientation	1
	Surface Name	Wood - Mahogany Ho...

NOTES

All dimensions are in mm.
This drawing shall not be scaled, the Contractor shall check and verify all dimensions and report to the Architect before comencing the works

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REV	DATE	DESCRIPTION
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MAIN PROJECT TITLE:
Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE
Store & Office Block

DRAWING TITLE
Door and Window schedule

PROJECT No.
DRAWING No. 11

CLIENT:
Good Neighbors Tanzania,
P.O Box 292,
Mbozi.

DRAWN BY:
Mwashiuya John Adam,
+255754695800,
+255715695800,
+255739695800.
Email: adamujohn23@hotmail.com

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SCALE	DATE	PAPER SIZE
Not to scale	Mar. 2025	A3

NOTES

All dimensions are in mm.
This drawing shall not be scaled, the Contractor shall check and verify all dimensions and report to the Architect before comencing the works

REV	DATE	DESCRIPTION

REV	DATE	DESCRIPTION

MAIN PROJECT TITLE:

Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE

Toilet block

DRAWING TITLE

Elevations

PROJECT No. 2771JA/HS/19/2024

DRAWING No. 11

CLIENT:

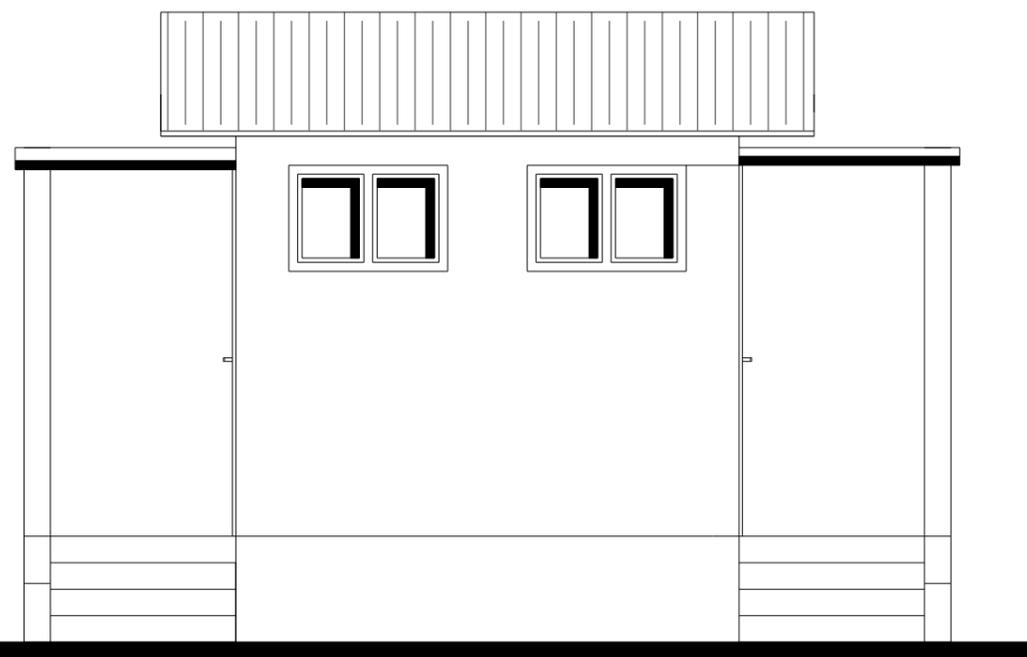
Good Neighbors Tanzania,
P.O Box 292,
Mbozi.

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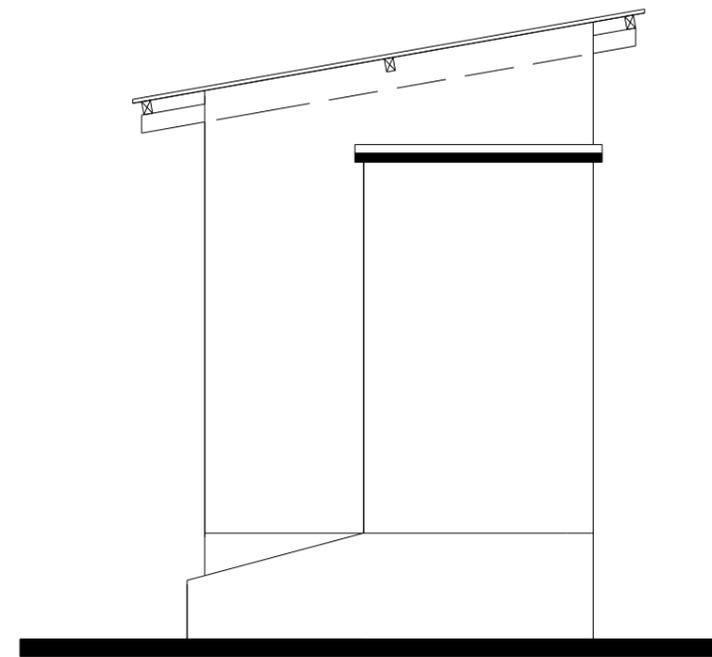
Mwashiyua John Adam,
+255754695800,
+255715695800,
+255739695800.
Email: adamujohn23@hotmail.com

CHECKED BY:

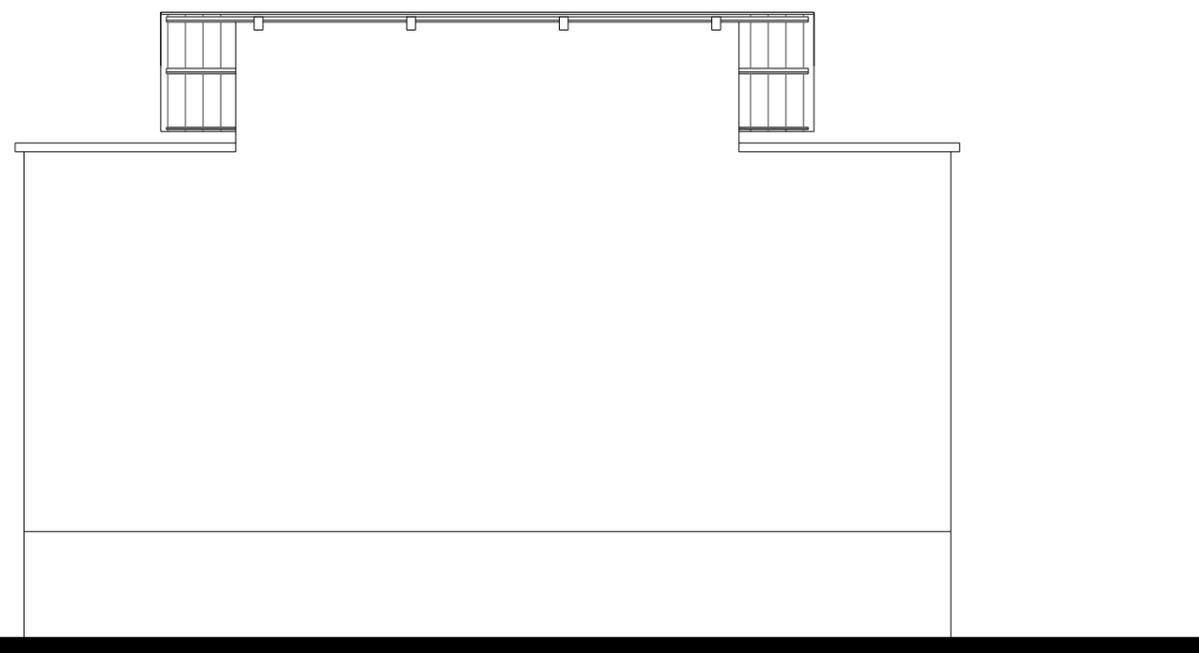
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1:40	Mar. 2025	A3



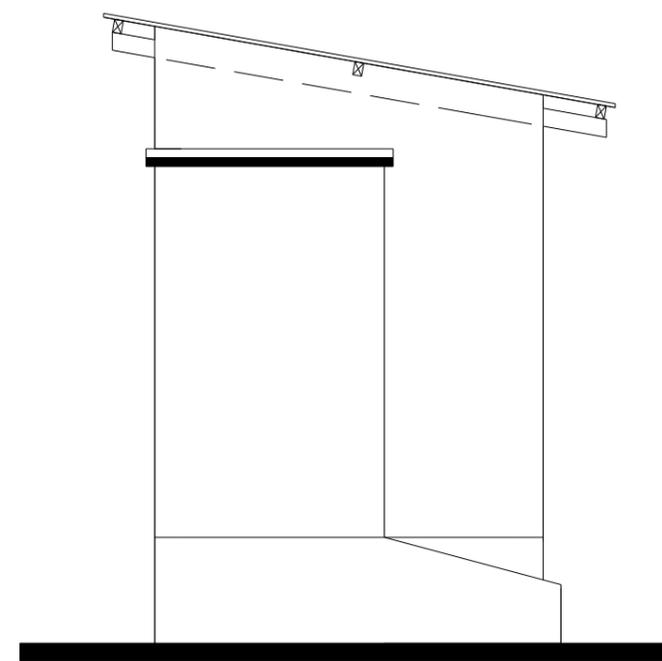
Rear elevation



Left hand side elevation



Front elevation



Right hand side elevation

NOTES

All dimensions are in mm.
 This drawing shall not be scaled, the Contractor shall check and verify all dimensions and report to the Architect before commencing the works

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REV	DATE	DESCRIPTION

MAIN PROJECT TITLE:

Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE

Store & Office Block

DRAWING TITLE

Elevations

PROJECT No.

DRAWING No. 12

CLIENT:

Good Neighbors Tanzania,
 P.O Box 292,
 Mbozi.

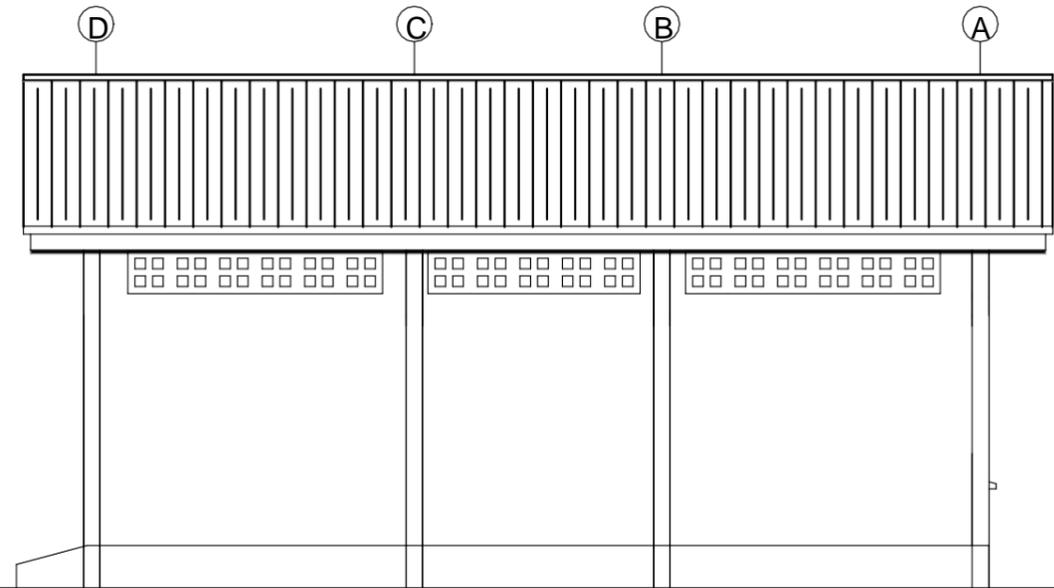
DRAWN BY:

Mwashiyua John Adam,
 +255754695800,
 +255715695800,
 +255739695800.
 Email: adamujohn23@hotmail.com

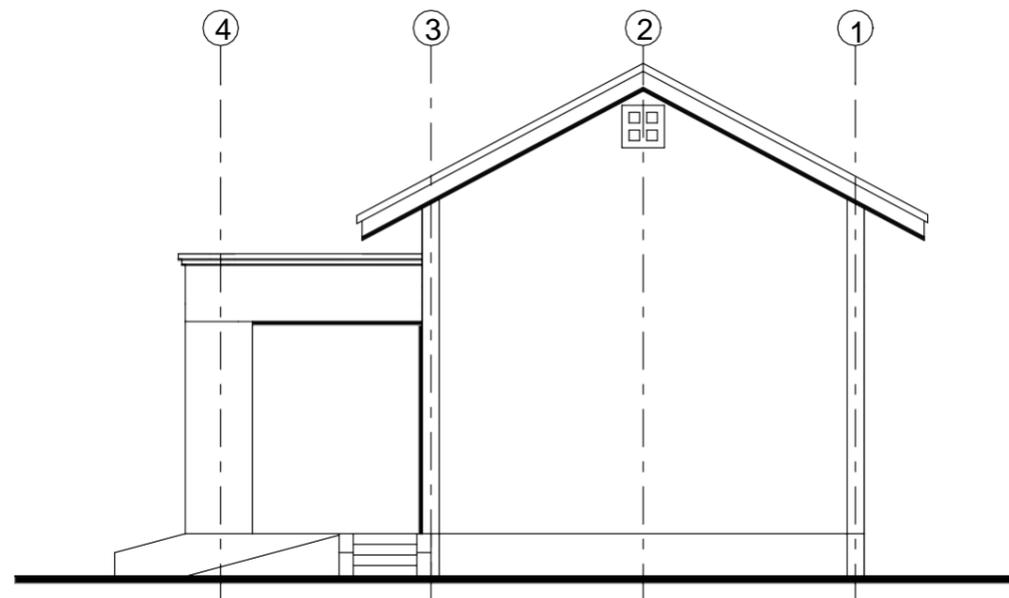
CHECKED BY:

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SCALE	DATE	PAPER SIZE
1:80	Mar. 2025	A3



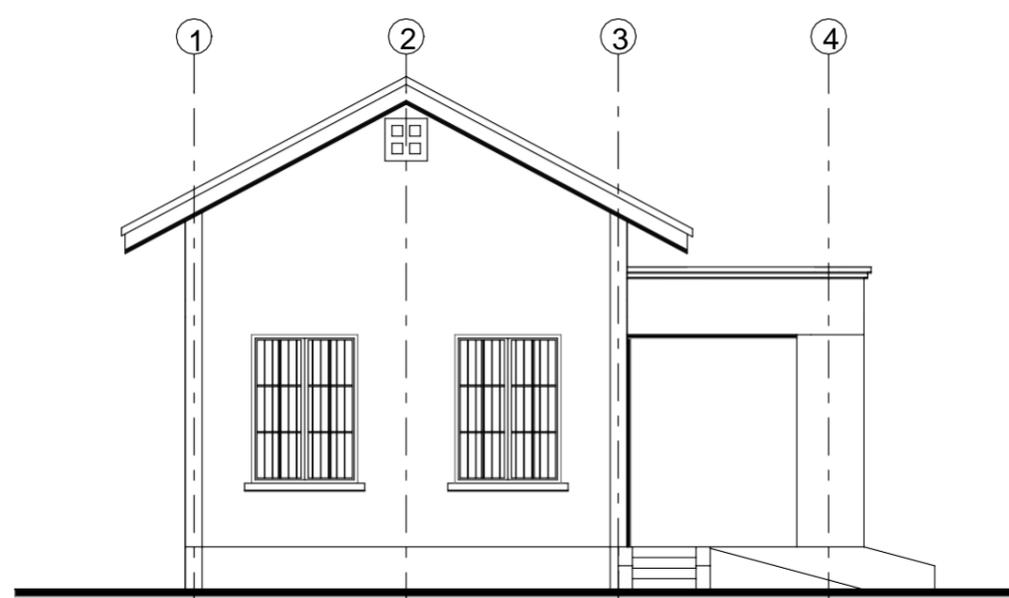
REAR ELEVATION



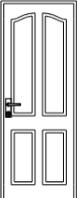
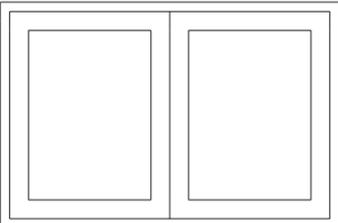
RIGHT HAND SIDE ELEVATION



FRONT ELEVATION



LEFT HAND SIDE ELEVATION

Door 	Width: 0.80 m	1 piece(s)
	Height: 2.10 m	
	User ID	D2
	Opening orientation	L
	Surface Name	Wood - Mahogany ...
Door 	Width: 0.80 m	1 piece(s)
	Height: 2.10 m	
	User ID	D2
	Opening orientation	R
	Surface Name	Wood - Mahogany ...
Double Window 	Width: 0.90 m	2 piece(s)
	Height: 0.60 m	
	User ID	W3
	Opening orientation	
	Surface Name	

NOTES

All dimensions are in mm.
This drawing shall not be scaled, the Contractor shall check and verify all dimensions and report to the Architect before comencing the works

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REV	DATE	DESCRIPTION
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MAIN PROJECT TITLE:

Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE

Toilet block

DRAWING TITLE

Door & Window schedule

PROJECT No. 2771JA/HS/19/2024

DRAWING No. 12

CLIENT:

Good Neighbors Tanzania,
P.O Box 292,
Mbozi.

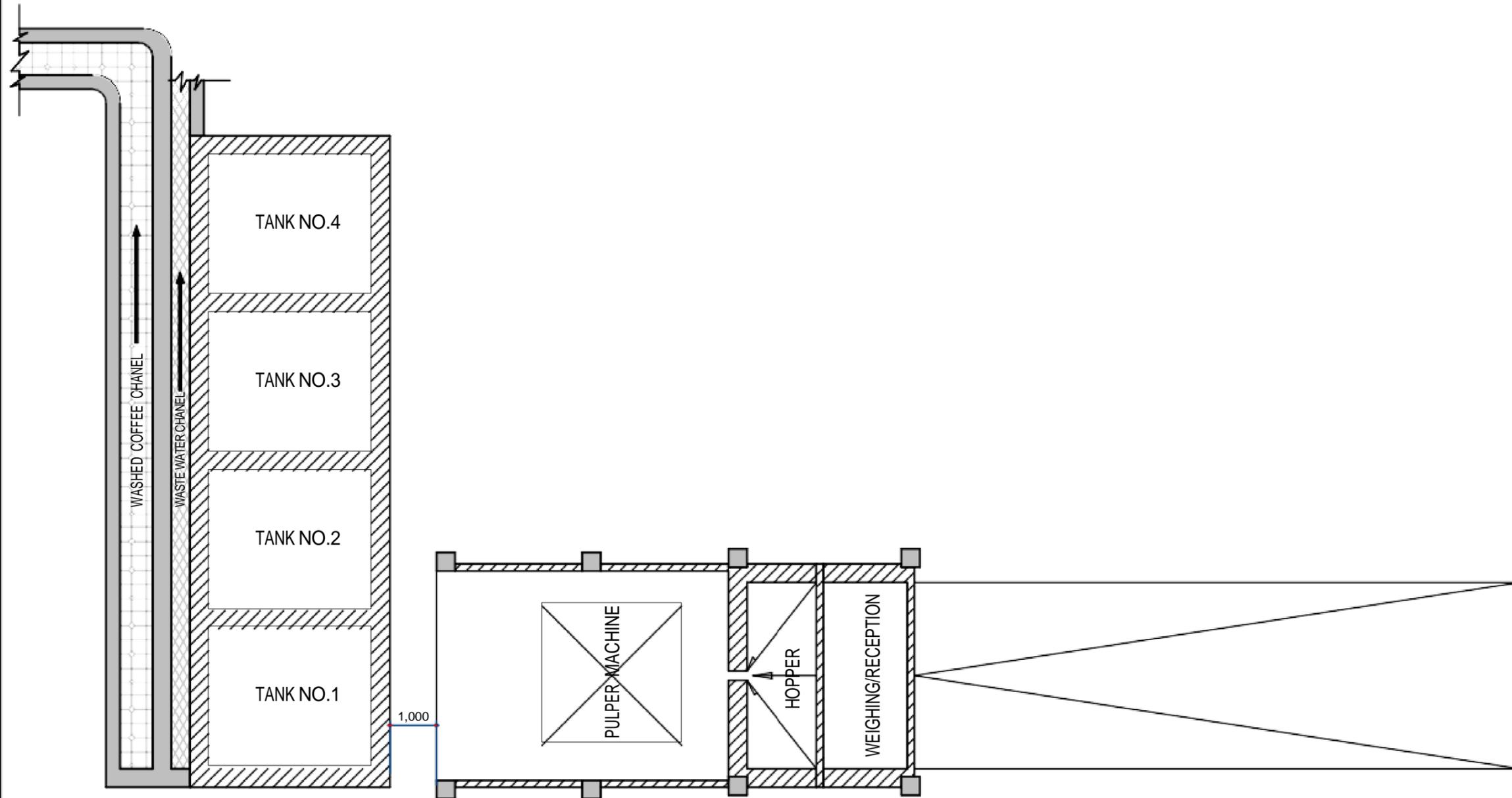
DRAWN BY:

Mwashiuya John Adam,
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+255715695800,
+255739695800.
Email: adamujohn23@hotmail.com

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NOTES

All dimensions are in mm.
 This drawing shall not be scaled, the Contractor shall check and verify all dimensions and report to the Architect before comencing the works

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REV	DATE	DESCRIPTION
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MAIN PROJECT TITLE:

Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE

Fermentation tanks layout

DRAWING TITLE

As per drawing

PROJECT No.

DRAWING No. 13

CLIENT:

Good Neighbors Tanzania,
 P.O Box 292,
 Mbozi.

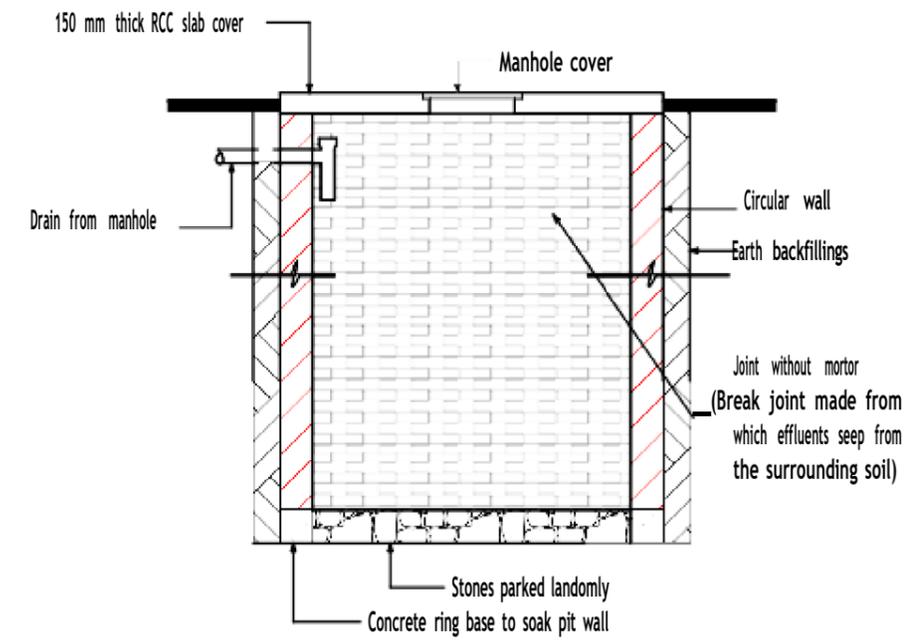
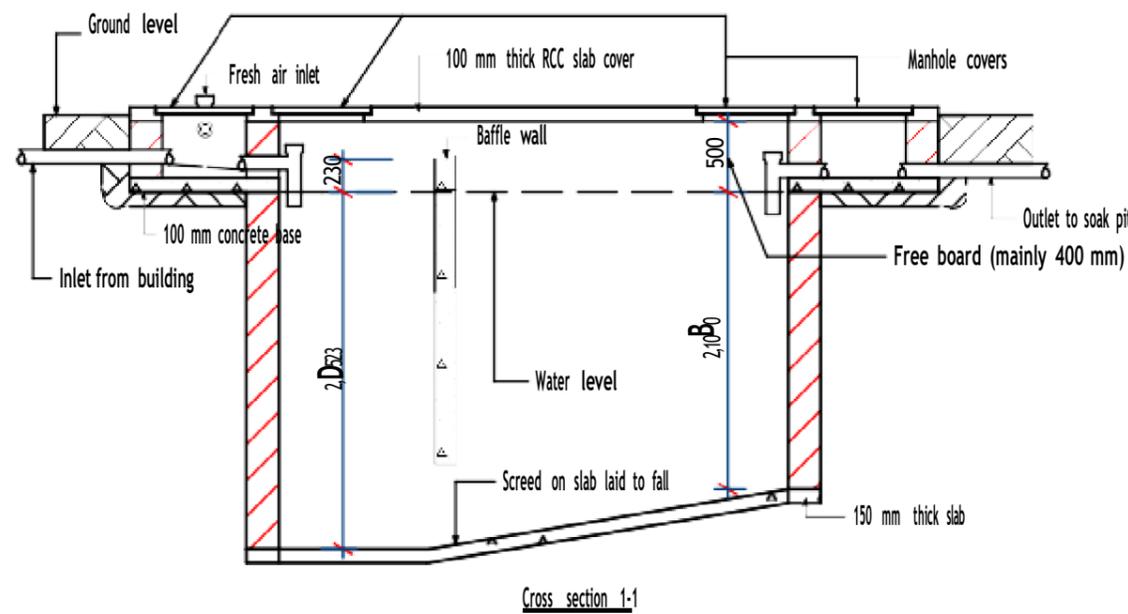
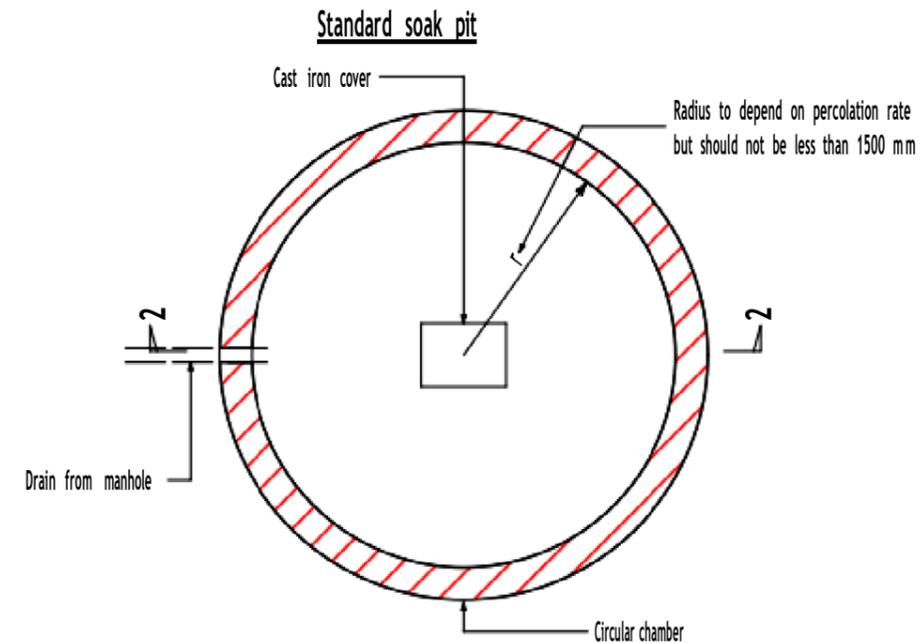
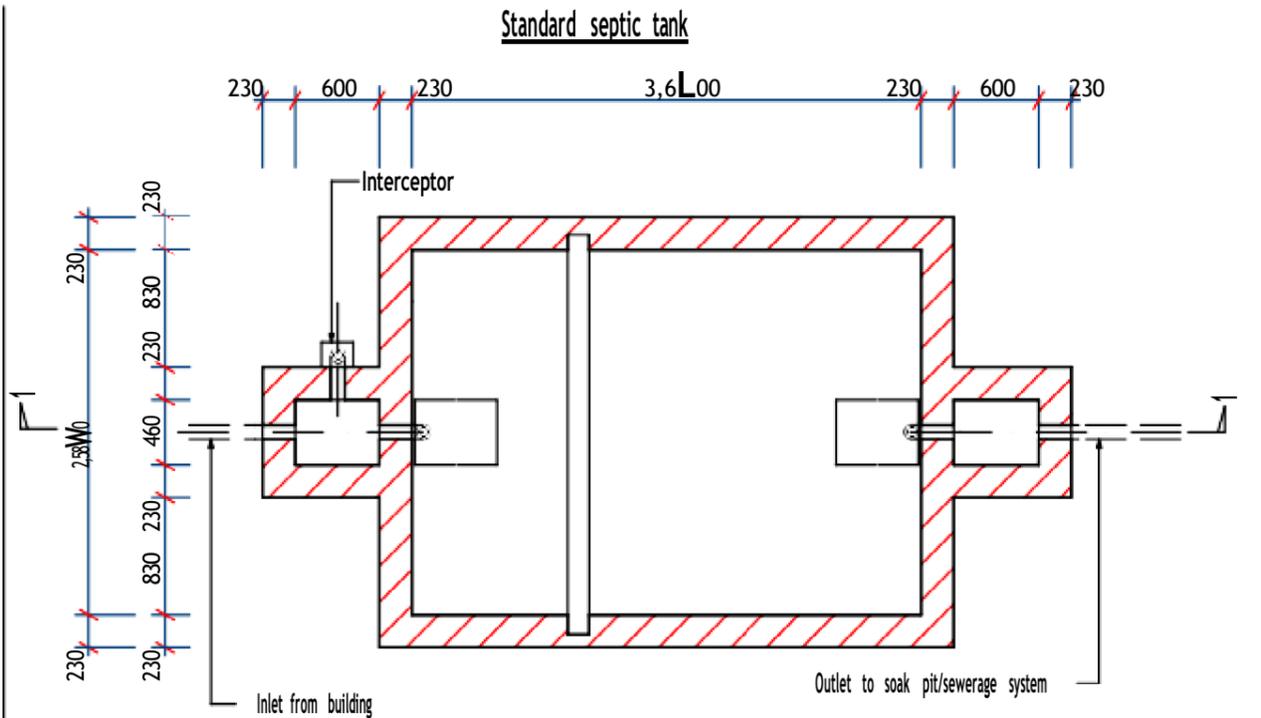
DRAWN BY:

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 +255715695800,
 +255739695800.
 Email: adamujohn23@hotmail.com

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1:100	Mar. 2025	A3



NB: Depth to depend on soil as per schedule of septic tank and soakaways but should not be less than 1500mm from effluent inlet to bottom
 Cross section 2-2

Standard septic tank

Standard soak pit

Cross section 1-1

Cross section 2-2

SCHEDULE OF SEPTIC TANK AND SOAKAWAYS

SIMPLIFIED SCHEDULE OF SEPTIC TANK

Septic tank details							Soakaways (m)				
Type	No of persons	Roof slab mesh	Sewerage depth 'D' (m)	Width 'W' (m)	Length 'L' (m)	Capacity (cu.m)	Percolation rate (Minutes per 25mm)				
							5 Mins	> 4 Mins	10 Mins	15 Mins	30 Mins
1	10 or Less	245	1,200	1,000	2,800	3,450	7,500	5,000	10,000	15,000	20,000
2	11-15	245	1,350	1,000	3,100	4,185	11,250	7,500	15,000	22,500	30,000
3	16-20	245	1,500	1,000	3,300	4,950	15,000	10,000	20,000	30,000	40,000
4	21-25	245	1,500	1,100	3,800	6,270	18,750	12,500	25,000	37,500	50,000
5	26-35	395	1,500	1,250	4,500	8,440	26,250	17,500	35,000	52,500	70,000
6	36-50	395	1,750	1,450	4,750	12,050	37,500	25,000	50,000	75,000	100,000
7	51-75	395	1,750	1,650	5,250	15,160	52,250	35,000	70,000	105,000	130,000
8	76-100	395	1,750	1,790	6000	18,795	60,000	45,000	75,000	120,000	145,000

Septic tank details					
Type	No of persons	W	B	D	L
1	10 or Less	900	600	900	1850
2	15	900	900	1250	1850
3	20	900	1250	1500	1850
4	40	1250	1250	1600	2970
5	100	2500	1,250	1600	4,000
6	200	3000	1250	1600	6500

NOTES

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REV	DATE	DESCRIPTION

MAIN PROJECT TITLE:

Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE

DRAWING TITLE

Standard septic tanks

PROJECT No. 2771/JA/HS/19/2024

DRAWING No.13

CLIENT:

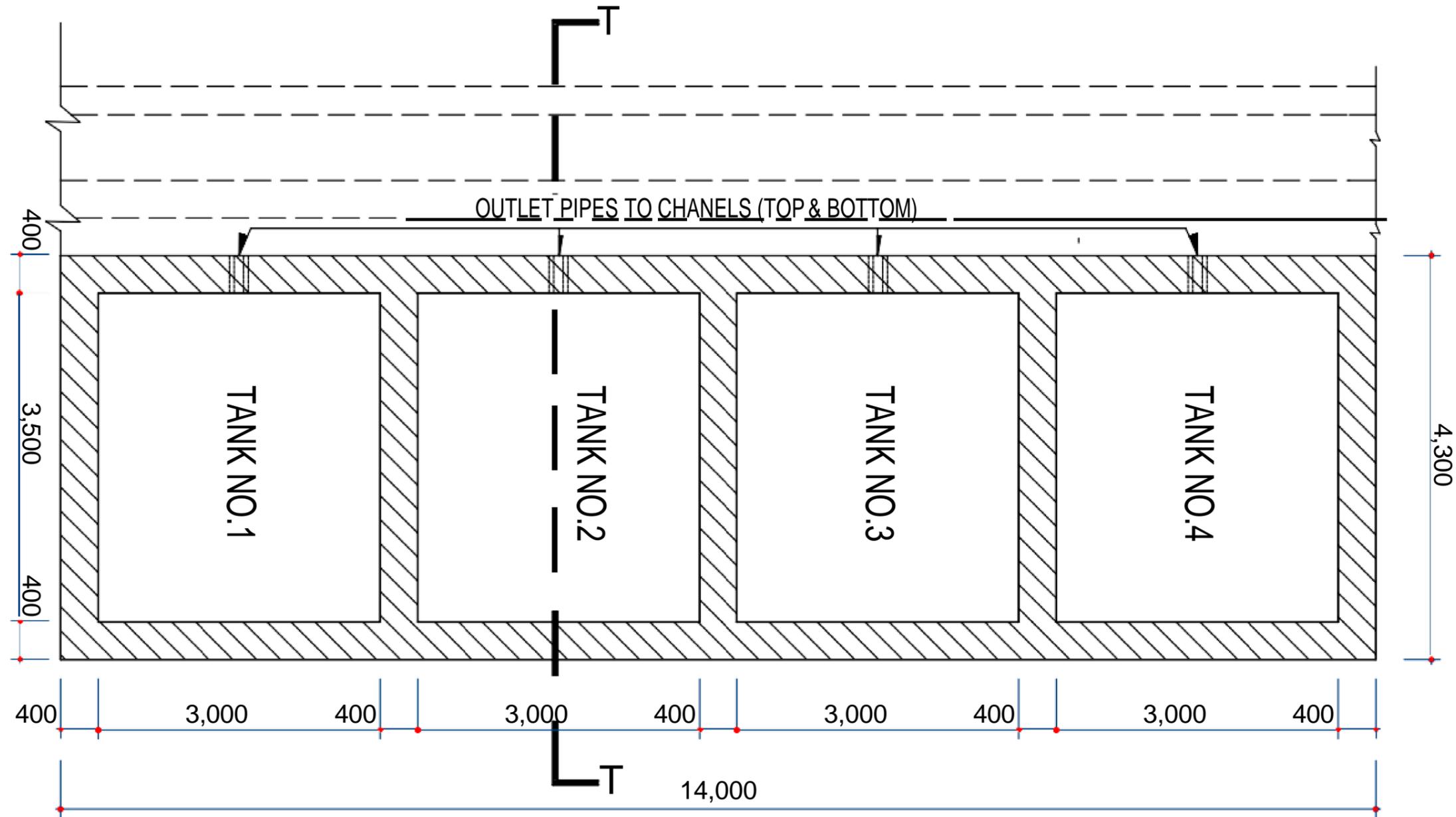
Good Neighbors Tanzania,
 P.O Box 292,
 Mbozi.

DRAWN BY:

MwashiyuaJohnAdam,
 +255754695800,
 +255715695800,
 +255739695800.
 Email: adamjohn23@hotmail.com

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NOTES

All dimensions are in mm.
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REV	DATE	DESCRIPTION
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MAIN PROJECT TITLE:
 Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE
 Fermentation tanks

DRAWING TITLE
 Floor plan

PROJECT No.

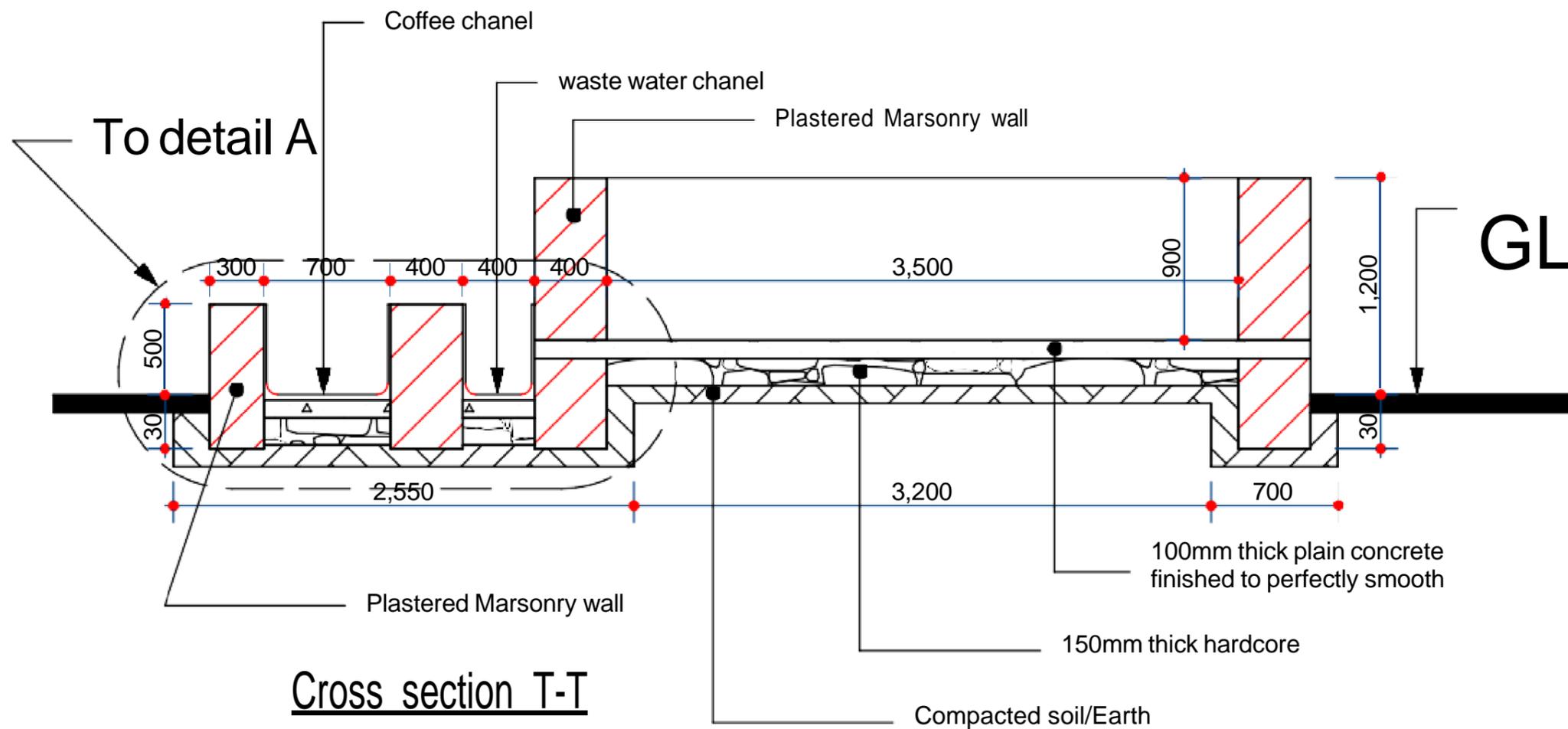
DRAWING No. 14

CLIENT:
 Good Neighbors Tanzania,
 P.O Box 292,
 Mbozi.

DRAWN BY:
 Mwashiyu John Adam,
 +255754695800,
 +255715695800,
 +255739695800.
 Email: adamujohn23@hotmail.com

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Cross section T-T

NOTES

All dimensions are in mm.
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REV	DATE	DESCRIPTION

MAIN PROJECT TITLE:

Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE

Fermentation tanks

DRAWING TITLE

Cross section T-T

PROJECT No.

DRAWING No. 15

CLIENT:

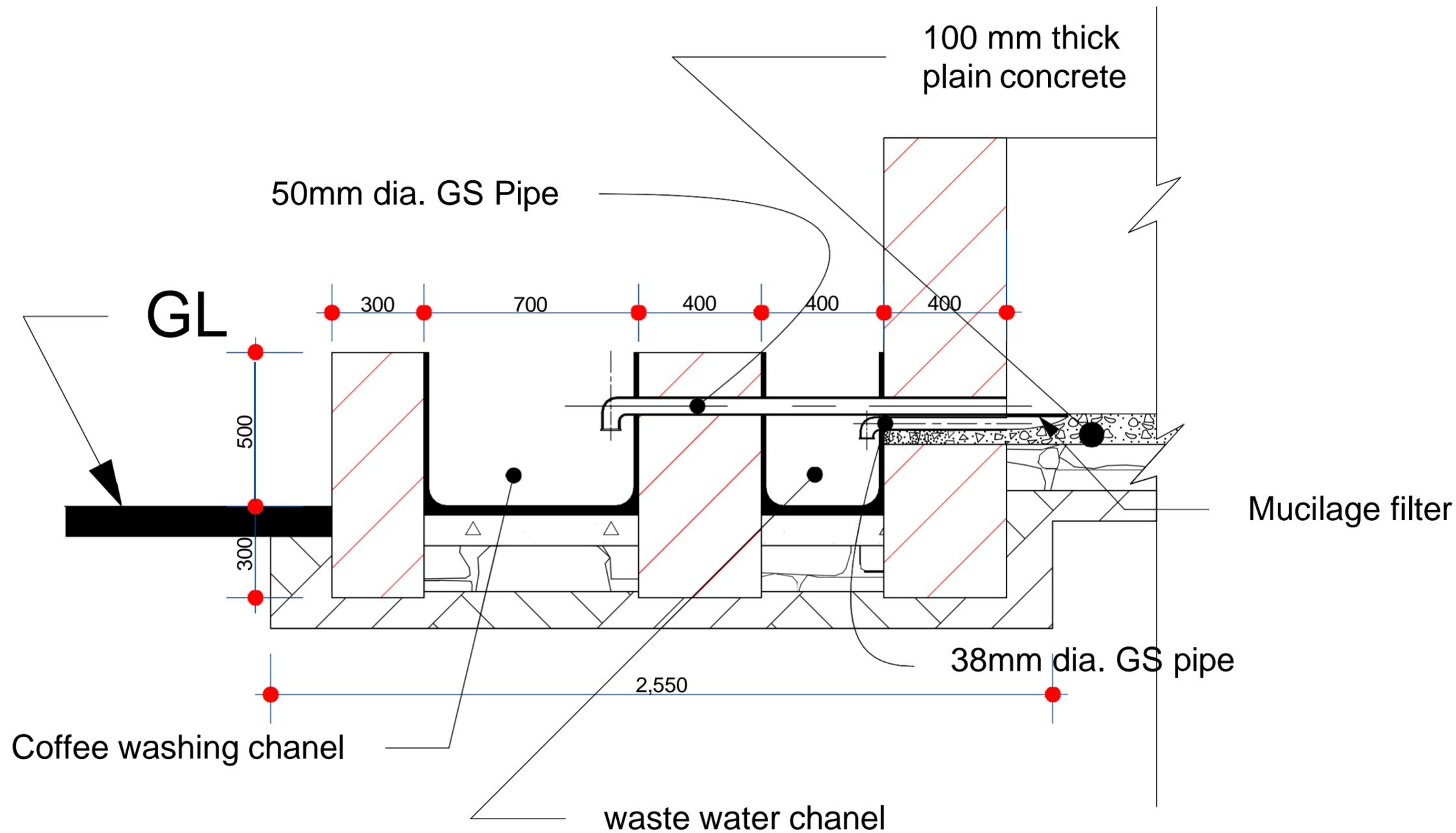
Good Neighbors Tanzania,
 P.O Box 292,
 Mbozi.

DRAWN BY:

Mwashuuya John Adam,
 +255754695800,
 +255715695800,
 +255739695800.
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CHECKED BY:

SCALE	DATE	PAPER SIZE
1:30	Mar. 2025	A3



Detail A

NOTES

All dimensions are in mm.
 This drawing shall not be scaled, the Contractor shall check and verify all dimensions and report to the Architect before comencing the works

REV	DATE	DESCRIPTION

REV	DATE	DESCRIPTION

MAIN PROJECT TITLE:

Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE

Fermentation tanks

DRAWING TITLE

Detail A

PROJECT No.

DRAWING No. 16

CLIENT:

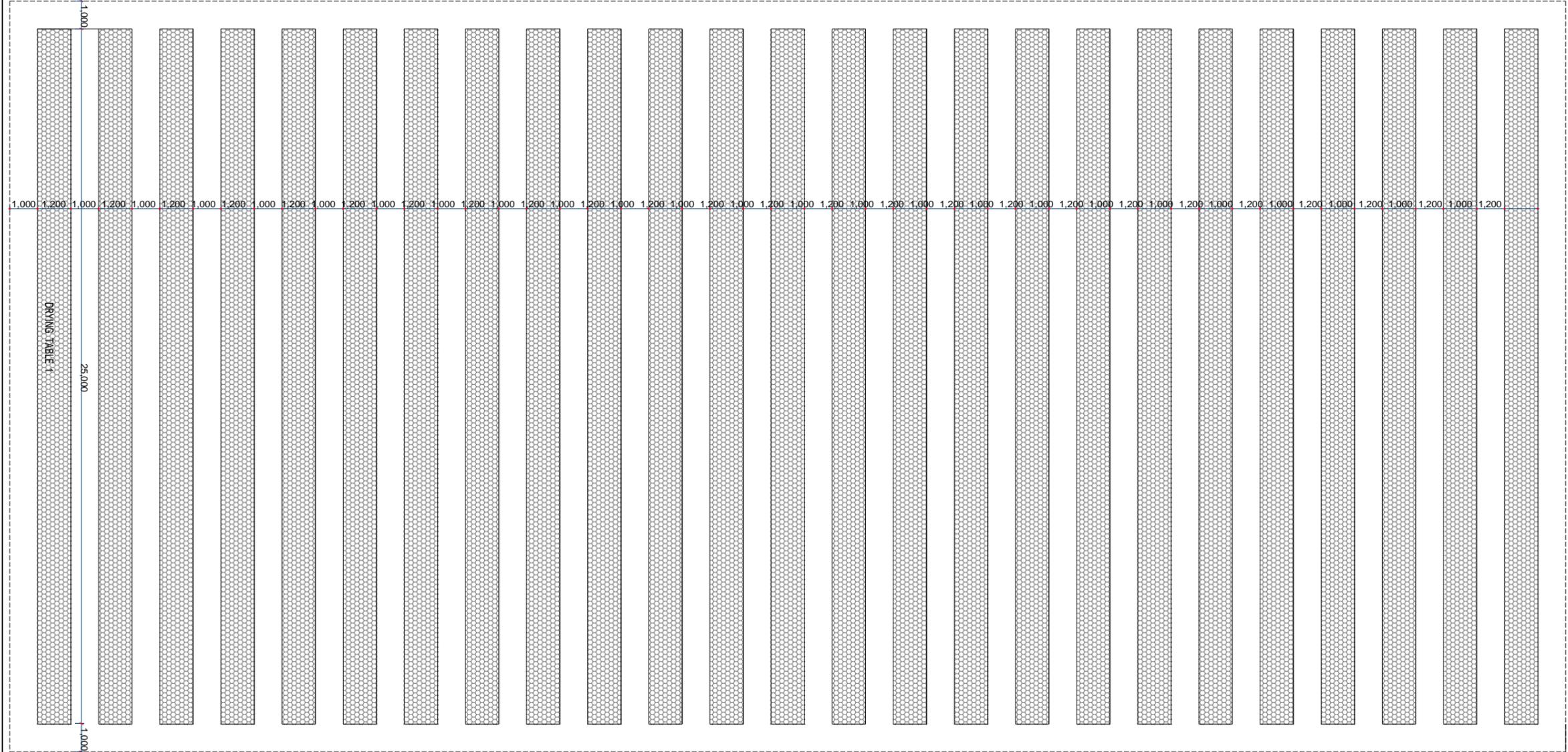
Good Neighbors Tanzania,
 P.O Box 292,
 Mbozi.

DRAWN BY:

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 +255754695800,
 +255715695800,
 +255739695800.
 Email: adamujohn23@hotmail.com

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NOTES

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REV	DATE	DESCRIPTION
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MAIN PROJECT TITLE:
 Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE
 Drying tables

DRAWING TITLE
 Layout

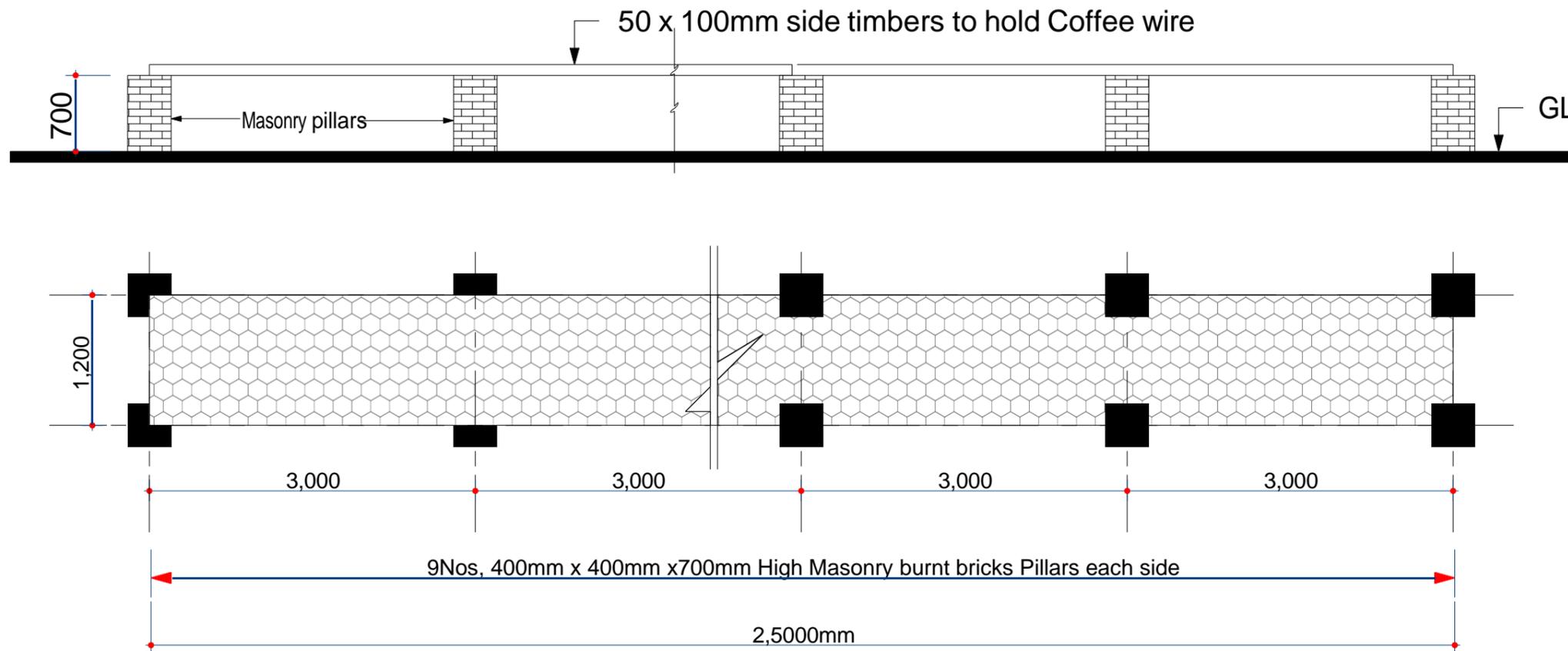
PROJECT No.
DRAWING No. 17

CLIENT:
 Good Neighbors Tanzania,
 P.O Box 292,
 Mbozi.

DRAWN BY:
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SCALE	DATE	PAPER SIZE
1:170	Mar. 2025	A3



NOTES

All dimensions are in mm.
 This drawing shall not be scaled, the Contractor shall check and verify all dimensions and report to the Architect before comencing the works

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REV	DATE	DESCRIPTION
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MAIN PROJECT TITLE:
 Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE
 Drying tables

DRAWING TITLE
 Diagrams

PROJECT No.

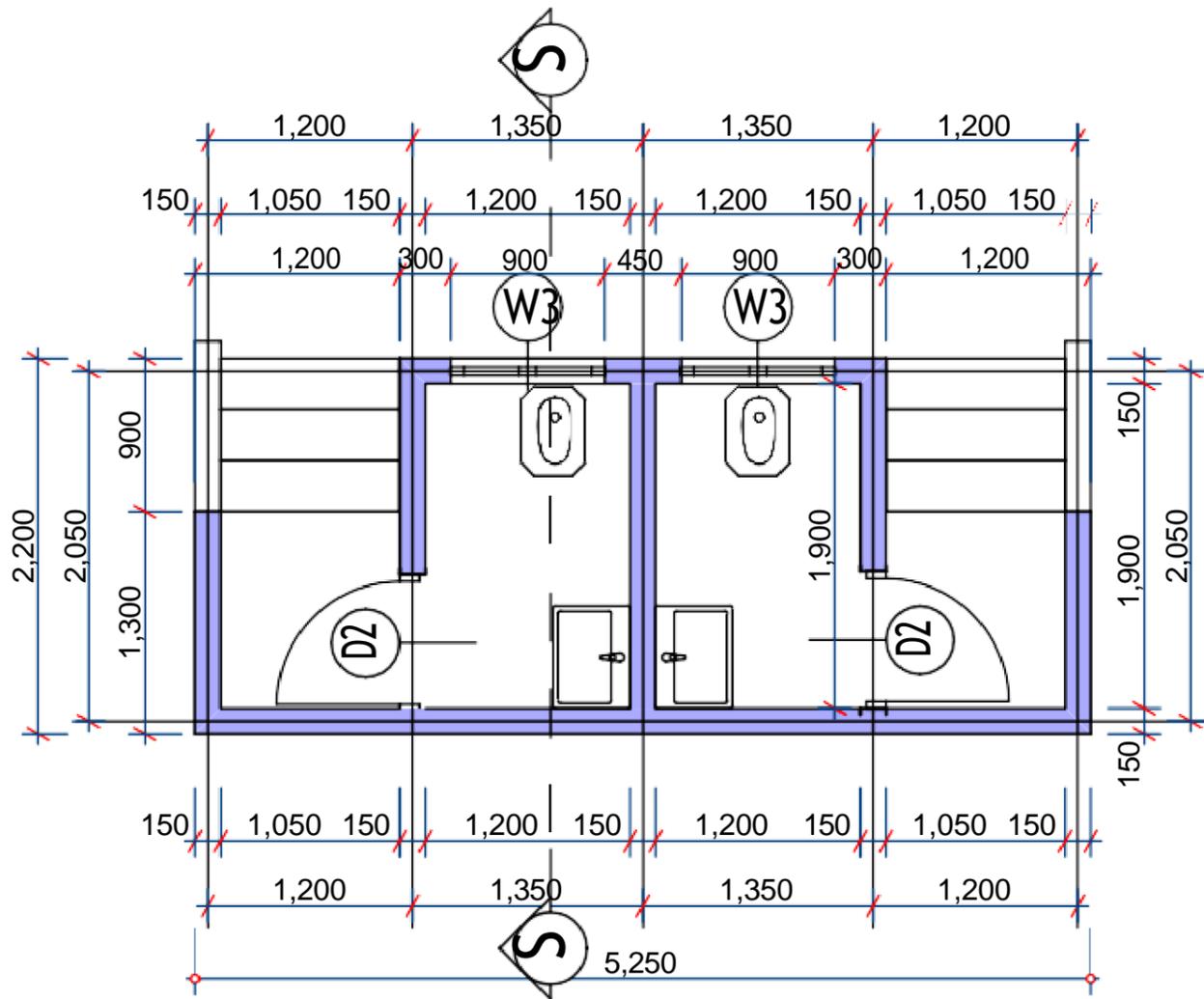
DRAWING No. 18

CLIENT:
 Good Neighbors Tanzania,
 P.O Box 292,
 Mbozi.

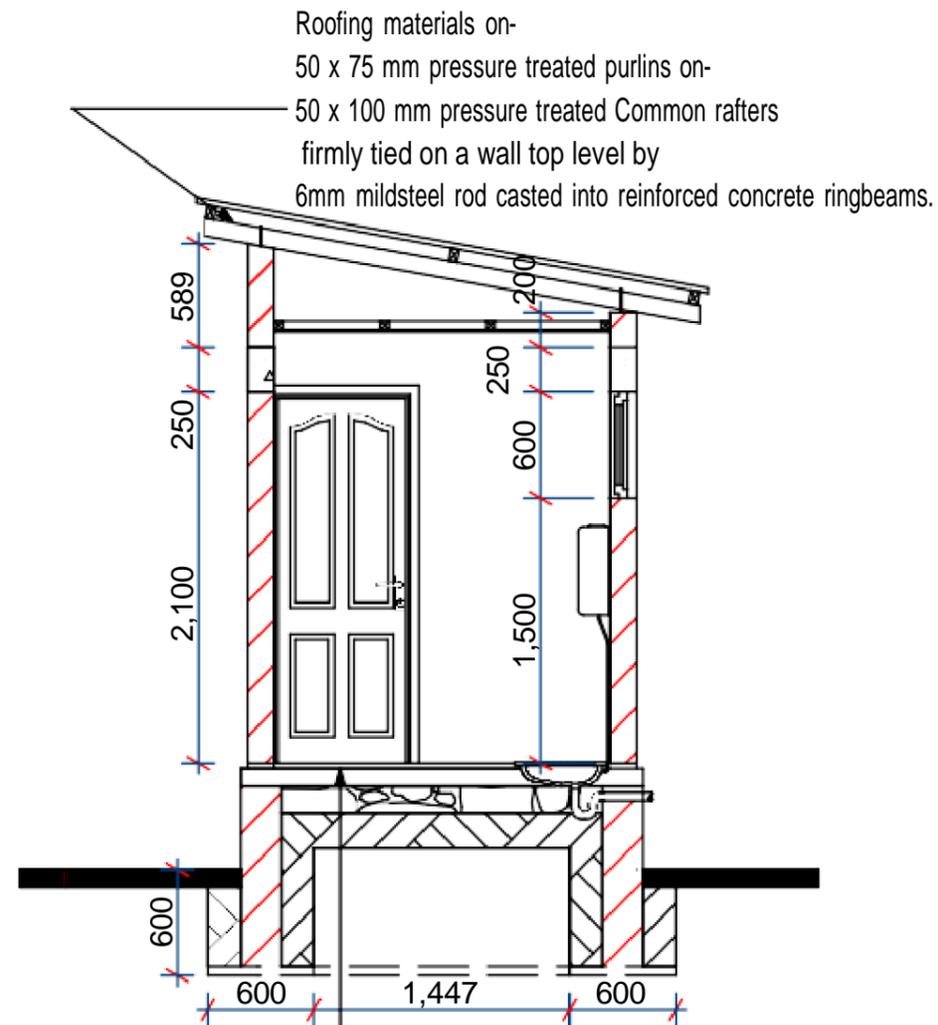
DRAWN BY:
 MwashiyuaJohnAdam,
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 Email: adamujohn23@hotmail.com

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SCALE	DATE	PAPER SIZE
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Toilet floor plan



Cross section S-S

NOTES

All dimensions are in mm.
 This drawing shall not be scaled, the Contractor shall check and verify all dimensions and report to the Architect before comencing the works

REV	DATE	DESCRIPTION

MAIN PROJECT TITLE:

Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE

Toilet block

DRAWING TITLE

As per drawing

PROJECT No.

DRAWING No. 19

CLIENT:

Good Neighbors Tanzania,
 P.O Box 292,
 Mbozi.

DRAWN BY:

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CHECKED BY:

SCALE	DATE	PAPER SIZE
1:40	Mar. 2025	A3

NOTES

All dimensions are in mm.
 This drawing shall not be scaled, the Contractor shall check and verify all dimensions and report to the Architect before comencing the works

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REV	DATE	DESCRIPTION
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MAIN PROJECT TITLE:

Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE

Toilet block

DRAWING TITLE

Elevations

PROJECT No.

DRAWING No. 20

CLIENT:

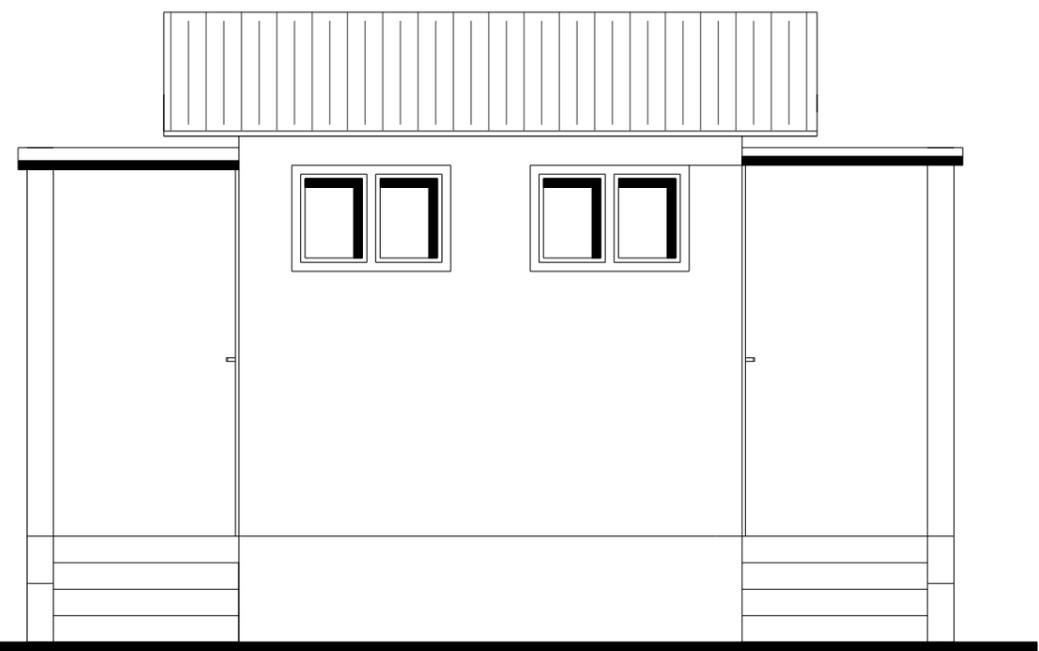
Good Neighbors Tanzania,
 P.O Box 292,
 Mbozi.

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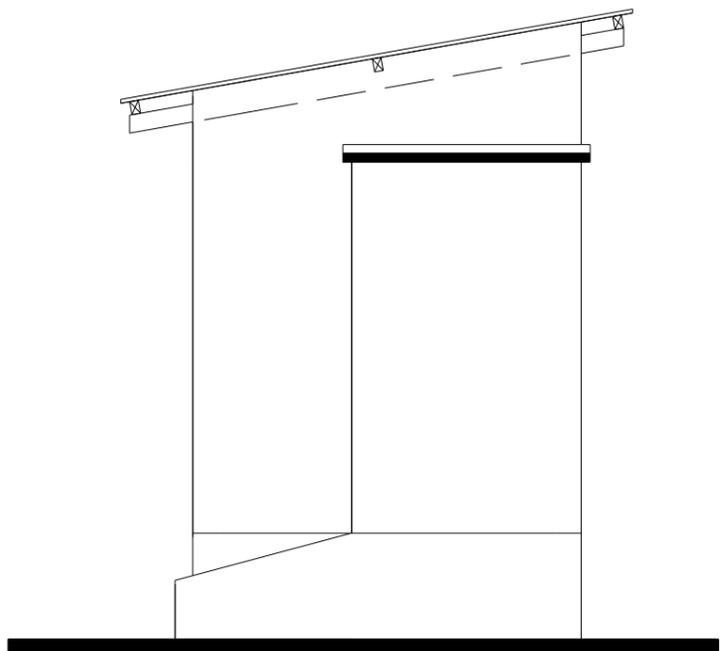
Mwashiyua John Adam,
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 Email: adamujohn23@hotmail.com

CHECKED BY:

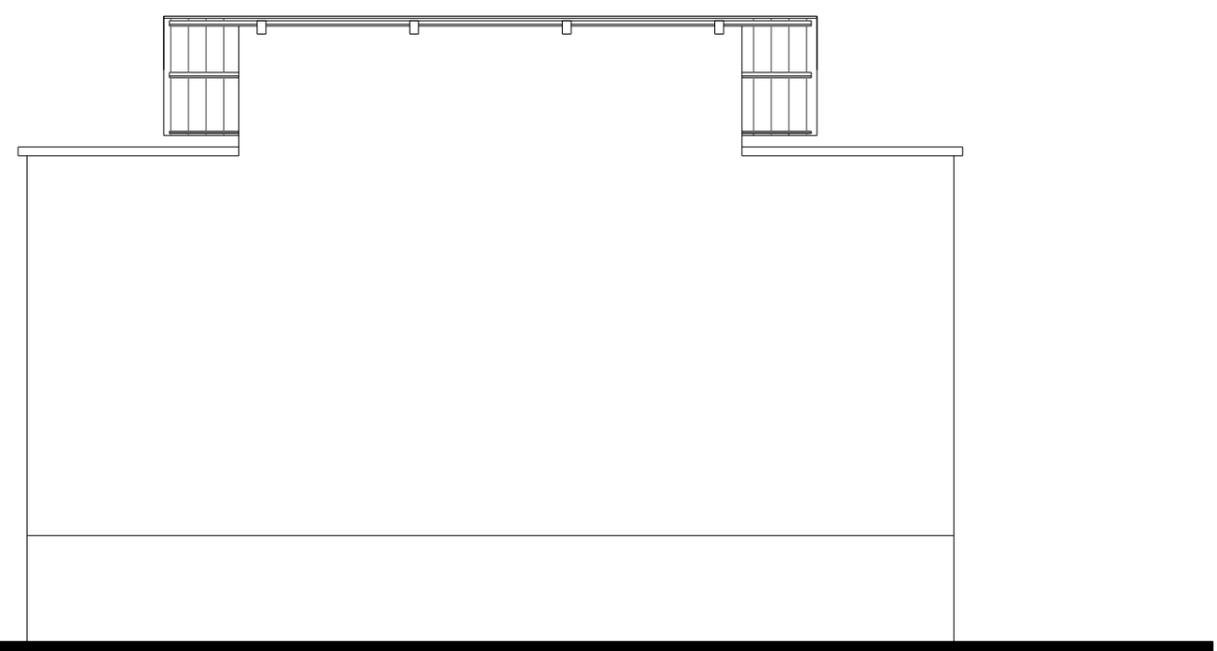
SCALE	DATE	PAPER SIZE
1:40	Mar. 2025	A3



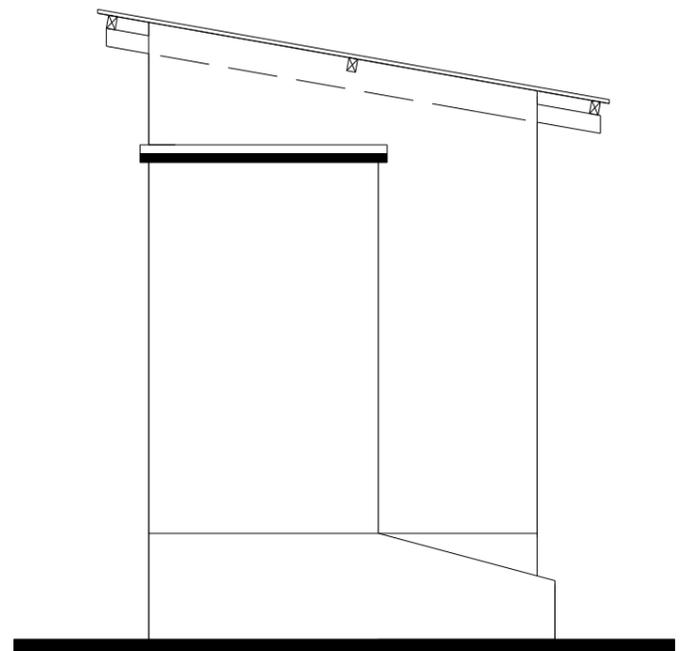
Rear elevation



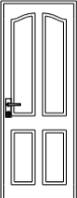
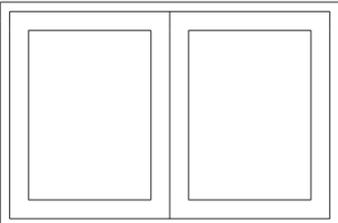
Left hand side elevation



Front elevation



Right hand side elevation

Door 	Width: 0.80 m	1 piece(s)
	Height: 2.10 m	
	User ID	D2
	Opening orientation	L
	Surface Name	Wood - Mahogany ...
Door 	Width: 0.80 m	1 piece(s)
	Height: 2.10 m	
	User ID	D2
	Opening orientation	R
	Surface Name	Wood - Mahogany ...
Double Window 	Width: 0.90 m	2 piece(s)
	Height: 0.60 m	
	User ID	W3
	Opening orientation	
	Surface Name	

NOTES

All dimensions are in mm.
 This drawing shall not be scaled, the Contractor shall check and verify all dimensions and report to the Architect before comencing the works

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REV	DATE	DESCRIPTION
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MAIN PROJECT TITLE:

Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE

Toilet block

DRAWING TITLE

Door & Window schedule

PROJECT No.

DRAWING No. 21

CLIENT:

Good Neighbors Tanzania,
 P.O Box 292,
 Mbozi.

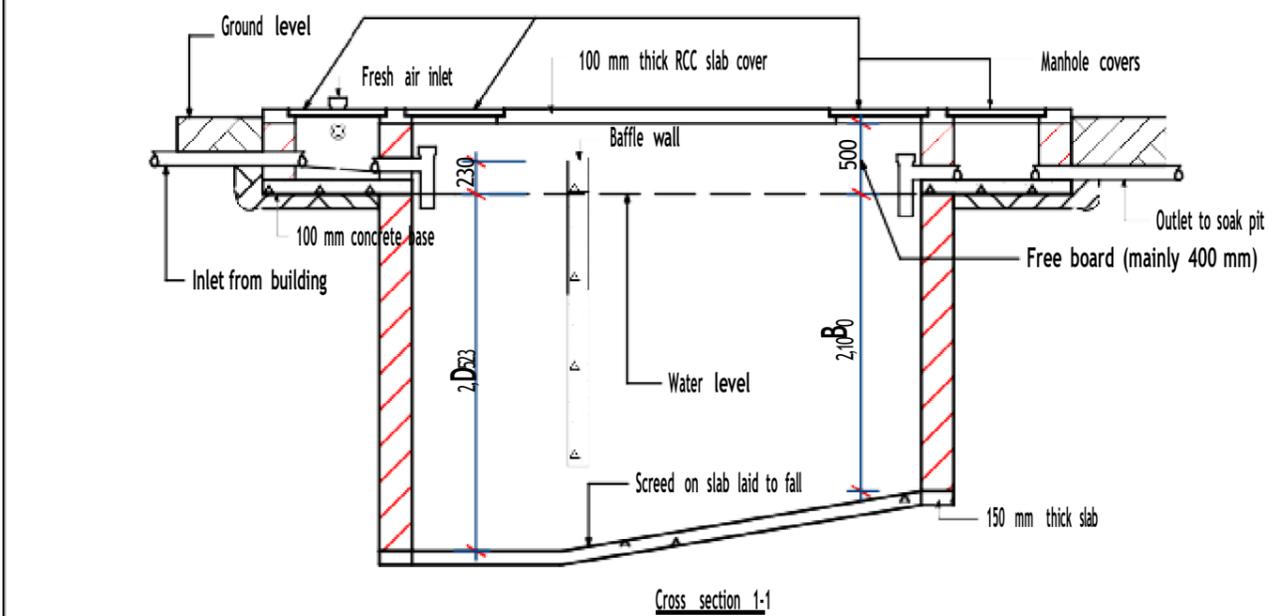
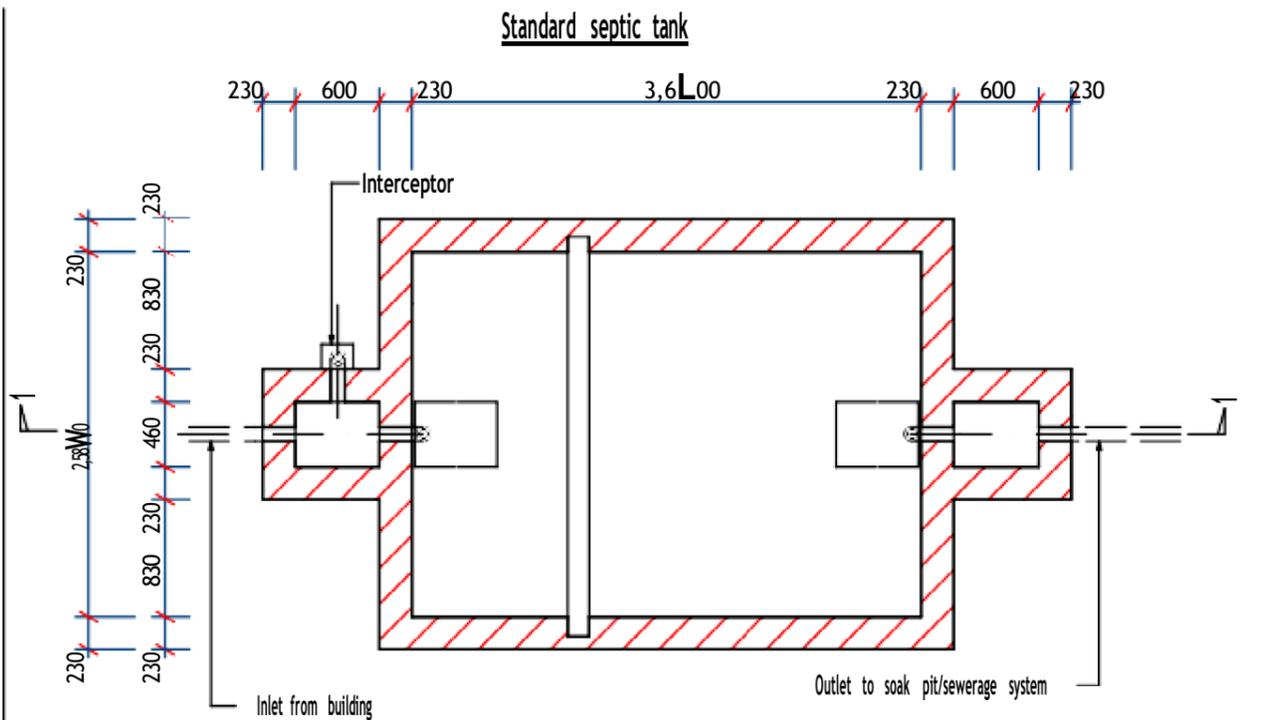
DRAWN BY:

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 Email: adamujohn23@hotmail.com

CHECKED BY:

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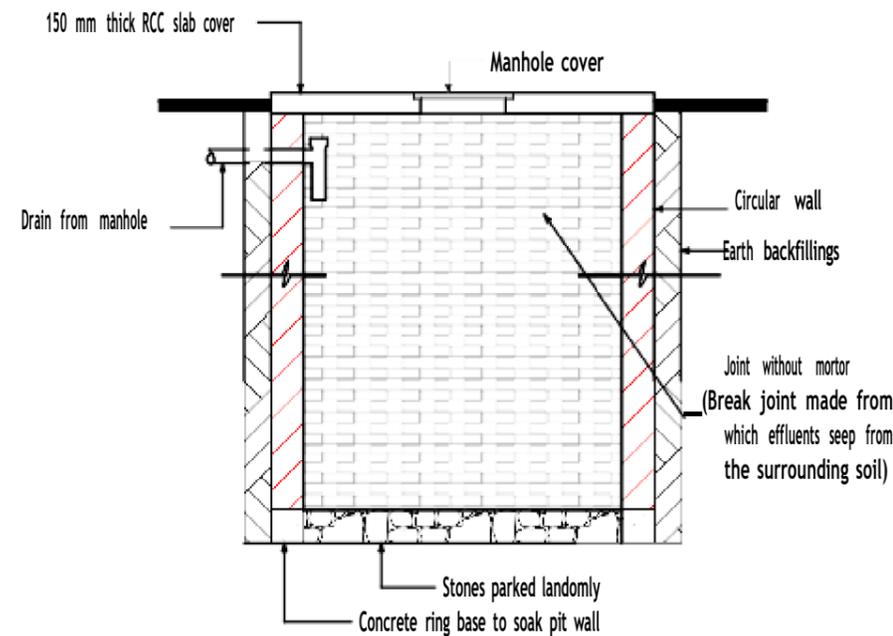
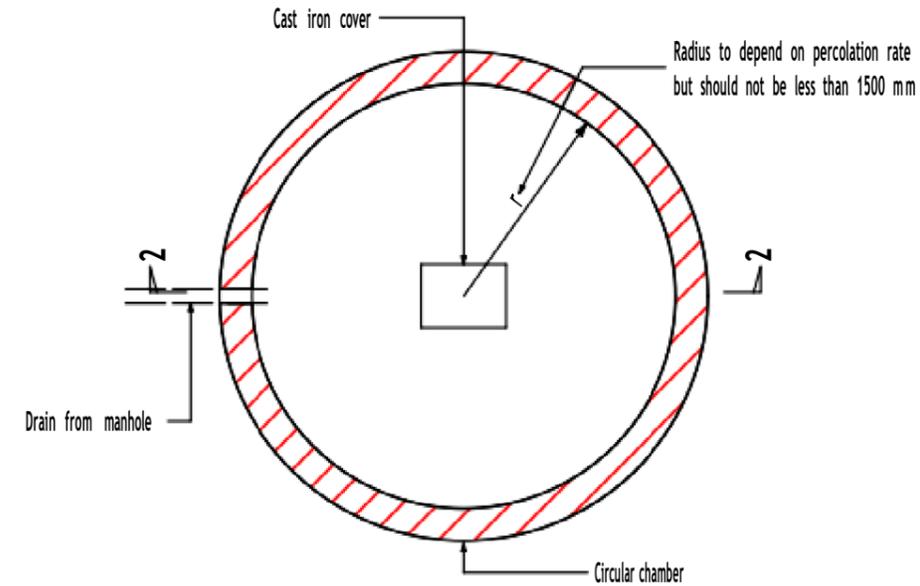
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Not to scale	Mar. 2025	A3



SCHEDULE OF SEPTIC TANK AND SOAKAWAYS

Septic tank details							Soakaways (m)				
Type	No of persons	Roof slab mesh	Sewerage depth 'D' (m)	Width 'W' (m)	Length 'L' (m)	Capacity (cu.m)	Percolation rate (Minutes per 25mm)				
							5 Mins	> 4 Mins	10 Mins	15 Mins	30 Mins
1	10 or Less	245	1,200	1,000	2,800	3,450	7,500	5,000	10,000	15,000	20,000
2	11-15	245	1,350	1,000	3,100	4,185	11,250	7,500	15,000	22,500	30,000
3	16-20	245	1,500	1,000	3,300	4,950	15,000	10,000	20,000	30,000	40,000
4	21-25	245	1,500	1,100	3,800	6,270	18,750	12,500	25,000	37,500	50,000
5	26-35	395	1,500	1,250	4,500	8,440	26,250	17,500	35,000	52,500	70,000
6	36-50	395	1,750	1,450	4,750	12,050	37,500	25,000	50,000	75,000	100,000
7	51-75	395	1,750	1,650	5,250	15,160	52,250	35,000	70,000	105,000	130,000
8	76-100	395	1,750	1,790	6000	18,795	60,000	45,000	75,000	120,000	145,000

Standard soak pit



NB: Depth to depend on soil as per schedule of septic tank and soakaways but should not be less than 1500mm from effluent inlet to bottom
Cross section 2-2

SIMPLIFIED SCHEDULE OF SEPTIC TANK

Septic tank details					
Type	No of persons	W	B	D	L
1	10 or Less	900	600	900	1850
2	15	900	900	1250	1850
3	20	900	1250	1500	1850
4	40	1250	1250	1600	2970
5	100	2500	1,250	1600	4,000
6	200	3000	1250	1600	6500

NOTES

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REV	DATE	DESCRIPTION

MAIN PROJECT TITLE:

Proposed Office, Store & Toilets to be built within CPU'S premisses in Mbozi District.

SUB TITLE

DRAWING TITLE

Standard septic tanks

PROJECT No.

DRAWING No.22

CLIENT:

Good Neighbors Tanzania,
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SECTION VIII: BILL OF QUANTITIES

BOQ FOR CPU HOUSE

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
1	<u>ELEMENT NUMBER ONE</u>				
	<u>SUBSTRUCTURE</u>				
	(PROVISIONAL)				
	<u>SITE PREPARATION</u>				
	Site Clearance: Cutting grasses, Scrubs, trees or the like removing from site				
	<u>CLEARING</u>				
1.1	<u>Removing vegetable soil</u> Excavating average 150mm deep removing from site	98	M ²		
	<u>CLEARING</u>				
	<u>EXCAVATION</u>				
	<u>Excavating</u>				
1.2	Trenches; to receive foundations; starting from stripped level not exceeding 1.50m deep	98	M ²		
	<u>EXCAVATION OF TRENCHES</u>				
	exceeding 1.50m deep				
1.3	Pits; to receive column footings/ Pillars; starting from stripped level not exceeding 1.50m deep: 10 NR. pillars	17.15	M ³		
		0	M ³		
1.4		3.40	M ³		
	exceeding 1.50m deep				
		0	M ³		
CM	Extra over all kinds of excavations irrespective of depth for breaking up rocks (Provisional)				
	<u>ROCKS BREAKING</u>	0	M ³		
				TSHS	

BOQ FOR CPU HOUSE

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
1.5	<u>Disposal</u> Excavated material backfilling; around foundation <p align="center">SUITABLE BACKFILL</p>	45	M ³		
1.6	Surplus excavated material removing from site <p align="center">REMOVING/SPREADING</p>	12	M ³		
	<u>DISPOSAL OF WATER</u> <u>Generally</u> general water		ITEM		
	<u>PLANKING AND STRUTTING</u> <u>Generally</u> Sides of excavations		ITEM		
1.7	<u>HARDCORE OR THE LIKE</u> <u>Hardcore</u> 200mm thick Beds <p align="center">GRAVELS/STONES(3.5 CUM/TRIP)</p>	5	M ³		
1.8	<u>Approved soil</u> <u>Filling in making up levels under floors</u> over 300mm thick; depositing and compacting in layers maximum 250mm thick Selected excavated soil <p align="center">SOIL(3.5 CUM/TRIP)</p>	45	M ³		
1.9	<u>ANTI-TERMITE TREATMENT</u> <u>Gamalin 20EC solution</u> At the rate of 7 litres per square metre to hardcore beds and tops of foundation walls <p align="center">SOIL STERILIZATION</p>	4	LTR		
1.10	At the rate of 80 litres per cubic metres to backfilling <p align="center">SOIL STERILIZATION</p>	8	LTR		
				TSHS	

BOQ FOR CPU HOUSE

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>INSITU CONCRETE; PLAIN</u> <u>Normal; grade 10;</u> 50mm thick Blinding; Overall 2 m ³				
1. 11	CEMENT	6	BAGS		
1. 12	SAND(If small amount to be neglected)	0	M ³		
1. 13	AGGREGATES (As above)	0	M ³		
	<u>Normal; grade 15;</u> Strip foundations or the like irrespective of thickness				
1. 14	CEMENT		BAGS		
1. 15	SAND(If small amount to be neglected)	0	M ³		
1. 16	AGGREGATES (As above)	0	M ³		
	Floor/slab 100mm thick: Overall 3m ³				
1. 17	CEMENT	15	BAGS		
1. 18	SAND	1	M ³		
1. 19	AGGREGATES	1	M ³		
	<u>INSITU CONCRETE; REINFORCED</u> <u>Normal; grade 20; vibrated</u> Column bases or the like irrespective of thickness: Mashine base, overall 2.7m ³				
1. 20	CEMENT	22	BAGS		
1. 21	SAND	1	M ³		
1. 22	AGGREGATES	2	M ³		
	Columns; vertical or sloping exceeding 15 degrees from horizontal irrespective of sectional area				
1. 23	CEMENT	0	BAGS		
1. 24	SAND	0	M ³		
1. 25	AGGREGATES	0	M ³		
	Steps irrespective of sectional area				
1. 26	CEMENT	1	BAGS		
1, 27	SAND	0	M ³		
1. 28	AGGREGATES	0	M ³		
				TSHS	

BOQ FOR CPU HOUSE

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>INSITU CONCRETE(Cont'd)</u> Plinth beam or the like irrespective of thickness				
1. 29	CEMENT	0	BAGS		
1. 30	SAND	0	M ³		
1. 31	AGGREGATES	0	M ³		
	<u>REINFORCEMENTS (A 12M LONG BAR)</u> <u>Bars; high Tensile steel;</u>				
	Column footings				
1. 32	16mm diameter	0	ROLL		
1. 33	12mm diameter	6	ROLL		
1. 34	8mm diameter	2	ROLL		
	Ground Beams				
1. 35	12mm diameter	0	ROLL		
1. 36	8mm diameter	0	ROLL		
	<u>FORMWORK TO INSITU CONCRETE</u> <u>Sawn Formwork; generally to;</u>				
	Sides; vertical or battering column footings or the like Ditto:Curved columns to 150mm radius				
	Sides and soffits Plinth beam				
	Edges of bed 75 to 150mm high				
	Sides or risers of steps 75 to 150mm wide				
1. 37	1" X 8" X 12'	12	PCS		
1. 38	2" X 3" X 12'	5	PCS		
1. 39	NAILS-V/SIZES	3	KGS		
				TSHS	

BOQ FOR CPU HOUSE

UNIT	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>FOUNDATION WALL</u> Solid concrete blocks to BS 2828 type A ; in cement mortar (1:3) 230mm thick Walls Overall 35m ²				
1. 40	BURNT BRICKS	3500	PCS		
1. 41	CEMENT FOR MORTAR	35	BAGS		
1. 42	SAND FOR BLOCKS	0	M ³		
1. 43	SAND FOR MORTAR	2	M ³		
	<u>DAMP PROOF COURSES</u> B.S. 743; type A; bitumen hessian base; 150mm laps				
1.44	215mm wide; Horizontal	1	ROLL		
	<u>DAMP PROOF MEMBRANE</u> Polythene; 1000 gauge; 150mm laps				
1. 45	Over 300mm wide; Horizontal	35	M ²		
	<u>INSITU FINISHING</u> Plaster; 12mm first coat of cement and sand (1:4); 3mm second coat of cement and lime putty (1:5); wood floated 15mm two coat work; to concrete or blockwork base; generally, to walls				
1. 46	CEMENT	0	BAGS		
1. 47	SAND	0	M ³		
	<u>ONE COATS OF BITUMINOUS PAINT</u> Wood floated rendered surfaces; external Walls over 300mm girth				
1.48	ALL THREE FULL COATS	0.00	GLN		
1. 49	GEN. PURPOSE SOLVENT	0	LT		
				TSHS	

BOQ FOR CPU HOUSE

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>ELEMENT NUMBER TWO</u> <u>SUPERSTRUCTURE</u> <u>(Ground Floor)</u>				
	<u>INSITU CONCRETE; REINFORCED</u> <u>Normal; grade 20; vibrated</u> Beams or the like; horizontal generally to receive slabs				
2.1	CEMENT	6	BAGS		
2.2	SAND	0.20	M ³		
2.3	AGGREGATES	0.40	M ³		
	150 mm thick Slabs or the like; horizontal				
	CEMENT	0	BAGS		
	SAND	0	M ³		
	AGGREGATES	0	M ³		
	600 x 75 mm thick Upstand				
	CEMENT	0	BAGS		
	SAND	0	M ³		
	AGGREGATES	0	M ³		
	Columns; vertical or sloping not exceeding 15 degrees from horizontal irrespective of sectional area Steps, staircases or strings irrespective of sectional area				
	CEMENT	0	BAGS		
	SAND	0	M ³		
	AGGREGATES	0	M ³		
	<u>REINFORCEMENT</u> <u>Bars; high Tensile steel;</u>				
	Beams or the like; horizontal				
2.4	12mm diameter	7	ROLL		
2.5	8mm diameter	6	ROLL		
	150 mm thick Slabs or the like; horizontal 16mm diameter	0	ROLL		
	600 x 75 mm thick Upstand 12mm diameter	0	ROLL		
2.6	6mm diameter	1	ROLL		
	Stirrups				
2.7	Binding wires	4	KGS		
				TSHS	

BOQ FOR CPU HOUSE

S/N	DESCRIPTION	MATERIALS			AMOUNT
		QTY	UNIT	COST @	
	FORMWORK TO INSITU CONCRETE				-
	<u>Sawn Formwork; generally to;</u>				-
	Sides; vertical or battering				-
	Columns				-
	Ditto: Curved columns to 150mm radius				-
	Sides and soffits				-
	beams or the like; horizontal				-
	Ditto: Upstand beam				-
	Ditto: Horizontal Slabs				-
	Staircases				-
2.8	1" X 8" X 12'	10	PCS		
2.9	2" X 3" X 12'	0	PCS		
2.10	50 MM DIA. SUPPORTERS	2	PCS		
2, 11	NAILS-VARIOUS SIZES	1	KGS		
	<u>Mild steel to BS 4360</u>				
	Size 3385 x 1000mm high overall balustrade comprising of 30mm diameter mild steel plate handrail plate embedded into concrete column; 30mm diameter mild steel hollow section middle rail with both ends welded with 100 x 100 x 3mm plate embedded into concrete column 3no, 30mm diameter mild steel hollow section baluster with one end welded with including 100 x 100 x 3mm mild steel plate; finished with smooth 75mm radius curve curve hardwood to cover the 30mm steel plate	0	NR		
	<u>BRICKWORK</u>				
	<u>Standard burnt Bricks;Flemish Bond</u>				
	<u>solid; in cement mortar (1:4)</u>				
	200mm thick Walls				
2.12	BURNT BRICKS	2650	NR		
2.13	CEMENT	15	BAGS		
2.14	SAND	1	M ³		
	110mm thick Walls				-
	BURNT BRICKS	0	NR		-
	CEMENT	0	BAGS		-
	SAND	0	TRIP		-
					-
				TSHS	

BOQ FOR CPU HOUSE

S/N	DESCRIPTION	MATERIALS			AMOUNT
		QTY	UNIT	COST @	
	ELEMENT NUMBER FOUR				
	DOORS (Ground Floor)				
	<u>WOOD WORK:</u>				
	<u>Prime Quality Hardwood Paneled Doors</u>				
4.1	40mm Thick paneled door size 900 x 2100mm high comprising of 40x100mm rebated stiles, 40x100mm rebated top, middle rail 40 x 100mm;40x150mm bottom rail; divided into two panels; all panels filled in with and including 40mm thick hardwood boards	2	NR		
	Ditto, size 1400 x 2100mm high	0	NR		
	Ditto, size 810 x 2100mm high	0	NR		
	Ditto, size 300 x 2100mm high	0	NR		
	<u>Hard wood Frames and finishing:</u>				
4.2	45 x 145mm Grounded Frames with one labours.	11	LM		
	Ditto, Mullions	0	LM		
	Ditto, Transomes	0	LM		
4.3	25 x 25mm Architraves.	22	LM		
	25 x 25mm Glazing beads	0	LM		
	<u>Sawn hardwood, third grade.</u>				
	15x100mm Grounds, plugged	0	LM		
	<u>IRON MONGERY:</u>				
	<u>Supply and fix the following iron mongery to hardwood UNION Phoenix 655-06-02 with matching screws finished with anodized silver:</u>				
4.4	Two-lever mortise lockset model 2237 case 65. Rebate component model 2979.	2	NR		
4.5	DSSW Aluminum butt hinges type U509/2 Size 101.6 x 66.67x3mm.	6	NR		
	Ditto: 100 mm Barrel Bolts	0	NR		
				TSHS	

BOQ FOR CPU HOUSE

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>IRON MONGERY (Cont'd)</u>				-
	<u>Metal Work: Mild Steel</u>				-
	Supply and fix door grilles to approved pattern by client.	0	SM		-
	<u>Glazing:</u>				-
	<u>5mm thick clear glass fixed with hard wood beads m/s:</u>				-
	Panes over 0.1 m ² not exceeding 0.5 m ²	0	SM		-
	<u>ALUMINIUM WINDOWS</u>				-
	<u>Supply, assemble and fixing Composite Aluminum Door units as .(REFER WINDOWS) including mullions, transoms and unblocking devices where necessary; oiling easing and adjusting; all as per Architect's detail drawings:</u>				-
4.6	900 x 600 mm high	2	NR		-
	450 x 2500 mm high	0	SM		-
				TSHS	

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>ELEMENT NUMBER SIX</u>				
	<u>FINISHING (Ground Floor)</u>				
	<u>INTERNALLY</u>				
	<u>INSITU FINISHING</u>				
	<u>Plaster; 12mm first coat of cement and sand (1:4);</u> <u>3mm second coat of cement and lime putty (1:5);</u> <u>steel trowelled</u>				
	15mm two coat work; to concrete or block work base; generally to columns				-
	Floor blinding				-
6.1	CEMENT	46	BAGS		
6.2	SAND	4	M ³		
6.3	LIME	0	BAGS		
	<u>TILE, SLAB OR BLOCK FINISHING</u>				
	<u>Non slippery porcelain tiles; BS 6431; imported;</u> <u>coloured; to pattern as per drawings ; bedding</u> <u>and jointing in cement mortar (1:3); grouting</u> <u>joints with approved grout</u>				
	300 x 300 x 8mm; joints straight both ways; to cement and sand base; generally to				
	Floors				
6.4	TILES	0	M ²		
6.5	CEMENT	0	BAGS		
6.8	GROUTING	0	KGS		
	<u>Ceramics tiles; imported; colored; to</u> <u>pattern as per drawings; bedding</u> <u>and jointing in cement mortar (1:3); grouting</u> <u>joints with approved grout</u>				
	200 x 300 x 6mm; joints straight both ways; to cement and sand base; generally to				
	Walls				
	Round edges				
6.9	TILES	0	M ²		
6.10	CEMENT	0	BAGS		
6.11	SAND	0	M ³		
6.12	GROUTING	0	KGS		
6.13	STRIPS	0	NR		
	25 x150 mm high skirting				
	TILES	0	LM		
	STRIPS	0	NR		
	GROUTING	0	KGS		
	TO COLLECTION			TSHS	-

BOQ FOR CPU HOUSE

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>BEDS OR BACKINGS</u>				
	<u>Mortar; cement and sand (1:4)</u>				-
	32mm to floors				-
	CEMENT	0	BAGS		-
	SAND	0	TRIP		-
	12mm to walls				-
	CEMENT	0	BAGS		-
	SAND	0	TRIP		-
	LIME	0	BAGS		-
	<u>EXTERNALLY</u>				-
	<u>INSITU FINISHING</u>				-
	<u>Render; 15mm first coat of cement and sand (1:6);</u>				-
	<u>5mm second coat of tyrolean (1:2); steel trowelled</u>				-
	20mm two coat work; to concrete or block work				-
	base; generally, to walls				-
6.14	CEMENT	0	BAGS		-
6.15	SAND	0	TRIP		-
6.16	LIME	0	BAGS		-
				TSHS	-

BOQ FOR FEMENTATION TANKS WASHING CHANELS

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
1	<p><u>ELEMENT NUMBER ONE</u></p> <p style="text-align: center;"><u>SUBSTRUCTURE</u></p> <p style="text-align: center;">(PROVISIONAL)</p> <p><u>SITE PREPARATION</u></p> <p><u>Site Clearance</u> Cutting grasses, Scrubs, trees or the like removing from site</p>				
1.1	<p style="text-align: center;">CLEARING</p> <p><u>Removing vegetable soil</u> Excavating average 150mm deep removing from site</p>	170	M ²		
1.2	<p style="text-align: center;">CLEARING</p> <p><u>EXCAVATION</u> <u>Excavating</u> Trenches; to receive foundations; starting from stripped level not exceeding 1.50m deep</p>	170	M ²		
1.3	<p style="text-align: center;">EXCAVATION OF TRENCHES</p> <p>exceeding 1.50m deep</p>	19.00	M ³		
		0	M ³		
1.4	<p>Pits; to receive column footings/ Pillers; starting from stripped level not exceeding 1.50m deep: 10 NR. pillers</p>	0.00	M ³		
		0	M ³		
CM	<p>Extra over all kinds of excavations irrespective of depth for breaking up rocks (Provisional)</p> <p style="text-align: center;">ROCKS BREAKING</p>	0	M ³		
				TSHS	

BOQ FOR FEMENTATION TANKS WASHING CHANELS

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
1.5	<u>Disposal</u> Excavated material backfilling; around foundation <p style="text-align: center;">SUITABLE BACKFILL</p>	19	M ³		
1.6	Surplus excavated material removing from site <p style="text-align: center;">REMOVING/SPREADING</p>	14	M ³		
	<u>DISPOSAL OF WATER</u> <u>Generally</u> general water <u>PLANKING AND STRUTTING</u> <u>Generally</u> Sides of excavations <u>HARDCORE OR THE LIKE</u> <u>Hardcore</u> 200mm thick Beds		ITEM		
1.7	<p style="text-align: center;">GRAVELS/STONES(3.5 CUM/TRIP)</p>	9.25	M ³		
1.8	<u>Approved soil</u> <u>Filling in making up levels under floors</u> over 300mm thick; depositing and compacting in layers maximum 250mm thick Selected excavated soil <p style="text-align: center;">SOIL(3.5 CUM/TRIP)</p>	19	M ³		
1.9	<u>ANTI-TERMITE TREATMENT</u> <u>Gamalin 20EC solution</u> At the rate of 7 litres per square metre to hardcore beds and tops of foundation walls <p style="text-align: center;">SOIL STERILIZATION</p>	0	LTR		
1.10	At the rate of 80 litres per cubic metres to backfilling <p style="text-align: center;">SOIL STERILIZATION</p>	0	LTR		
				TSHS	

BOQ FOR FEMENTATION TANKS WASHING CHANELS

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>INSITU CONCRETE; PLAIN</u> Normal; grade 10; 50mm thick Blinding; Overall 48 m ³				
1. 11	CEMENT	15	BAGS		
1. 12	SAND(If small amount to be neglected)	1.75	M ³		
1. 13	AGGREGATES (As above)	2	M ³		
	<u>Normal; grade 15;</u> Strip foundations or the like irrespective of thickness				
1. 14	CEMENT		BAGS		
1. 15	SAND(If small amount to be neglected)	0	M ³		
1. 16	AGGREGATES (As above)	0	M ³		
	Floor/slab 100mm thick: Overall 11m ³				
1. 17	CEMENT	66	BAGS		
1. 18	SAND	7	M ³		
1. 19	AGGREGATES	10.5	M ³		
	<u>INSITU CONCRETE; REINFORCED</u> Normal; grade 20; vibrated Column bases or the like irrespective of thickness: Mashine base, overall 2.7m ³				
1. 20	CEMENT	0	BAGS		
1. 21	SAND	0	M ³		
1. 22	AGGREGATES	0	M ³		
	Columns; vertical or sloping exceeding 15 degrees from horizontal irrespective of sectional area				
1. 23	CEMENT	0	BAGS		
1. 24	SAND	0	M ³		
1. 25	AGGREGATES	0	M ³		
	Steps irrespective of sectional area				
1. 26	CEMENT	0	BAGS		
1, 27	SAND	0	M ³		
1. 28	AGGREGATES	0	M ³		
				TSHS	

BOQ FOR FEMENTATION TANKS WASHING CHANELS

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>INSITU CONCRETE(Cont'd)</u> Plinth beam or the like irrespective of thickness				
1. 29	CEMENT	0	BAGS		
1. 30	SAND	0	M ³		
1. 31	AGGREGATES	0	M ³		
	<u>REINFORCEMENTS (A 12M LONG BAR)</u> <u>Bars; high Tensile steel;</u> Column footings				
1. 32	16mm diameter	0	ROLL		
1. 33	12mm diameter	0	ROLL		
1. 34	8mm diameter	0	ROLL		
	Ground Beams				
1. 35	12mm diameter	0	ROLL		
1. 36	8mm diameter	0	ROLL		
	<u>FORMWORK TO INSITU CONCRETE</u> <u>Sawn Formwork; generally to;</u> Sides; vertical or battering column footings or the like Ditto: Curved columns to 150mm radius Sides and soffits Plinth beam Edges of bed 75 to 150mm high Sides or risers of steps 75 to 150mm wide				
1. 37	1" X 8" X 12'	14	PCS		
1. 38	2" X 3" X 12'	2	PCS		
1. 39	NAILS-V/SIZES	3	KGS		
				TSHS	

BOQ FOR FEMENTATION TANKS WASHING CHANELS

UNIT	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>FOUNDATION WALL</u> Solid concrete blocks to BS 2828 type A ; in cement mortar (1:3) 400mm thick Walls Overall 32m ²				
1. 40	BURNT BRICKS	7000	PCS		
1. 41	CEMENT FOR MORTAR	70	BAGS		
1. 42	SAND FOR BLOCKS	0	M ³		
1. 43	SAND FOR MORTAR	4	M ³		
	<u>DAMP PROOF COURSES</u> B.S. 743; type A; bitumen hessian base; 150mm laps				
1.44	215mm wide; Horizontal	0	ROLL		
	<u>DAMP PROOF MEMBRANE</u> Polythene; 1000 gauge; 150mm laps				
1. 45	Over 300mm wide; Horizontal	0	M ²		
	<u>INSITU FINISHING</u> Plaster; 12mm first coat of cement and sand (1:4); 3mm second coat of cement and lime putty (1:5); wood floated 15mm two coat work; to concrete or blockwork base; generally to walls; Overall 15m ²				
1. 46	CEMENT SAND	5	BAGS		
1. 47	<u>ONE COATS OF BITUMINOUS PAINT</u> Wood floated rendered surfaces; external Walls over 300mm girth	0	M ³		
1.48		0.00	GLN		
1. 49	ALL THREE FULL COATS GEN. PURPOSE SOLVENT	0	LT		
				TSHS	

BOQ FOR FEMENTATION TANKS WASHING CHANELS

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>ELEMENT NUMBER TWO</u>				
	<u>SUPERSTRUCTURE</u>				
	<u>(Ground Floor)</u>				
	<u>INSITU CONCRETE; REINFORCED</u>				
	Normal; grade 20; vibrated				
	Beams or the like; horizontal				
	generally; to receive slabs				
2.1	CEMENT	0	BAGS		-
2.2	SAND	0.00	M ³		-
2.3	AGGREGATES	0.00	M ³		-
	150 mm thick Slabs or the like; horizontal				-
	CEMENT	0	BAGS		-
	SAND	0	M ³		-
	AGGREGATES	0	M ³		-
	600 x 75 mm thick Upstand				-
	CEMENT	0	BAGS		-
	SAND	0	M ³		-
	AGGREGATES	0	M ³		-
	Columns; vertical or sloping not exceeding				-
	15 degrees from horizontal				-
	irrespective of sectional area				-
	Steps, staircases or strings				-
	irrespective of sectional area				-
	CEMENT	0	BAGS		-
	SAND	0	M ³		-
	AGGREGATES	0	M ³		-
	<u>REINFORCEMENT</u>				
	<u>Bars; high Tensile steel;</u>				
	Beams or the like; horizontal				
	12mm diameter				
2.4	8mm diameter	0	ROLL		-
2.5		0	ROLL		-
	150 mm thick Slabs or the like; horizontal				
	16mm diameter				
		0	ROLL		-
	600 x 75 mm thick Upstand				
	12mm diameter				
	6mm diameter	0	ROLL		-
2.6	Stirrups	0	ROLL		-
2.7	Binding wires	0	KGS		-
				TSHS	-

BOQ FOR FEMENTATION TANKS WASHING CHANELS

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>FORMWORK TO INSITU CONCRETE</u>				-
	<u>Sawn Formwork; generally, to:</u>				-
	Sides; vertical or battering				-
	Columns				-
	Ditto: Curved columns to 150mm radius				-
	Sides and soffits				-
	beams or the like; horizontal				-
	Ditto: Upstand beam				-
	Ditto: Horizontal Slabs				-
	Staircases				-
2.8	1" X 8" X 12'	0	PCS		-
2.9	2" X 3" X 12'	0	PCS		-
2.10	50 MM DIA. SUPPORTERS	0	PCS		-
2, 11	NAILS-VARIOUS SIZES	0	KGS		-
	<u>Mild steel to BS 4360</u>				-
	Size 3385 x 1000mm high overall balustrade comprising of 30mm diameter mild steel plate handrail plate embedded into concrete column; 30mm diameter mild steel hollow section middle rail with both ends welded with 100 x 100 x 3mm plate embedded into concrete column 3no, 30mm diameter mild steel hollow section baluster with one end welded with including 100 x 100 x 3mm mild steel plate; finished with smooth 75mm radius curve curve hardwood to cover the 30mm steel plate	0	NR		-
	<u>BRICKWORK</u>				-
	<u>Standard burnt Bricks; Flemish Bond solid; in cement mortar (1:4)</u>				-
	400mm thick Walls; Overall 60 m ²				-
2.12	BURNT BRICKS	11000	NR		-
2.13	CEMENT	110	BAGS		-
2.14	SAND	11	M ³		-
	110mm thick Walls				-
	BURNT BRICKS	0	NR		-
	CEMENT	0	BAGS		-
	SAND	0	TRIP		-
					-
				TSHS	

BOQ FOR FEMMENTATION TANKS WASHING CHANELS

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>ELEMENT NUMBER SIX</u>				
	<u>FINISHING (Ground Floor)</u>				
	<u>INTERNALLY</u>				
	<u>INSITU FINISHING</u>				
	<u>Plaster; 12mm first coat of cement and sand (1:4); 3mm second coat of cement and lime putty (1:5); steel trowelled</u>				
	15mm two coat work; to concrete or block work base; generally to columns				-
	Walls; Overall 160m ²				-
6.1	CEMENT	42	BAGS		
6.2	SAND	7	M ³		
6.3	LIME	0	BAGS		
	<u>TILE, SLAB OR BLOCK FINISHING</u>				
	<u>Non slippery porcelain tiles; BS 6431; imported; coloured; to pattern as per drawings ; bedding and jointing in cement mortar (1:3); grouting joints with approved grout</u>				
	300 x 300 x 8mm; joints straight both ways; to cement and sand base; generally to				-
	Floors: Cement floor screeds for tanks and chanel Overall 170m ²				-
6.4	SAND	7	M ²		
6.5	CEMENT	85	BAGS		
6.8	GROUTING	0	KGS		
	<u>Ceramics tiles; imported; coloured; to pattern as per drawings ; bedding and jointing in cement mortar (1:3); grouting joints with approved grout</u>				
	200 x 300 x 6mm; joints straight both ways; to cement and sand base; generally to				-
	Walls				-
	Round edges				-
6.9	TILES	0	M ²		
6.10	CEMENT	0	BAGS		
6.11	SAND	0	M ³		
6.12	GROUTING	0	KGS		
6.13	STRIPS	0	NR		
	25 x150 mm high skirting				-
	TILES	0	LM		
	STRIPS	0	NR		
	GROUTING	0	KGS		
	TO COLLECTION			TSHS	

BOQ FOR FEMMENTATION TANKS WASHING CHANELS

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>BEDS OR BACKINGS</u>				
	<u>Mortar; cement and sand (1:4)</u>				-
	32mm to floors				-
	CEMENT	0	BAGS		-
	SAND	0	TRIP		-
	12mm to walls				-
	CEMENT	0	BAGS		-
	SAND	0	TRIP		-
	LIME	0	BAGS		-
	<u>EXTERNALLY</u>				-
	<u>INSITU FINISHING</u>				-
	<u>Render; 15mm first coat of cement and sand (1:6);</u>				-
	<u>5mm second coat of tyrolean (1:2);steel trowelled</u>				-
	20mm two coat work; to concrete or block work				-
	base; generally to				-
	walls				-
6.14	CEMENT	0	BAGS		-
6.15	SAND	0	TRIP		-
6.16	LIME	0	BAGS		-
				TSHS	-

PLUMBING

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<p>ELEMENT NUMBER EIGHT PLUMBING AND ENGINEERING INSTALLATIONS:</p> <p><i>SANITARY APPLIANCES</i> (Armitage Shanks ref. or equal and approved manufacturer) including all connections and fixing to floor or wall where necessary</p>				
8.1	560 x 750 Wash hand basin complete with chromium bottle trap		NR		-
8.2	515 x 915 x 735mm White vitreous china WC comprising vitreous 9 litres capacity low level flushing cistern with plastic siphon fitting, 12mm B.S.S. high pressure ball valve, cover, handle, 32mm flush pipe side supply and overflow set, domex screws and S or P trap .		NR		-
	80mm diameter plastic floor drains.				-
8.3	holder.		NR		-
	Stainless Steel kitchen Sink, Double Bowl Double Drainer (DBDD); size 1500 x 600mm , bright/satin complete with 38mm chromium plated bottle trap; waste plug; chain and pin.		NR		-
8.4	6mm Thick x 450 x 600mm polished glass mirror with chamfered edges, 4no chromium plated domex screws.		NR		-
8.5	White vitreous china Mayfair 305 x 150mm soap dish and sponge holder		NR		-
	Flexible pipes:12mm. Tube in short lengths; 600mm long a piece including nuts.				-
	800 x 800mm glass fibre shower tray with 13mm supply pipe ;13mm stop valve, 38mm slotted drainer waste, and 38mm "p" trap with 17mm seal and mixer taps complete with shower assembly		NR		-
					-
				TSHS	-

PLUMBING

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
<u>Pvc pipes; waste and soil water pipes (Class B)</u>					
UPVC pipes;Diameter					
8.6	50mm GS	2	PCS		
	25mm flexiable pipe	25	M		
8.7	50mm Poly pipe	220	M		
	38mm Poly pipe	25	M		
Galvanized pipes					
8.8	38mm	4	PCS		
Accessories					
8.9	Tee coupling 50mm Pvc	4	NR		
8.10	Plugs 50mm GS	6	NR		
8.11	Elbow 50mm GS	6	NR		
8.12	Elbow 50mm PVC	2	NR		
8.13	Cap nuts 50mm GS	2	NR		
8.14	socket 38mm GS	6	NR		
8.15	Nipple 50mm GS	2	NR		
8.16	Socket 50mm GS	5	NR		
8.17	Connector 50mm GS	2	NR		
8.18	Nipple 38mm GS	3	NR		
8.19	Gate Valve50mm GS	1	NR		
8.20	Union 50mm GS	1	NR		
8.21	Union 38mm GS	3	NR		
8.21	Male connector 50mm Poly	4	NR		
8.22	Socket 50mm GS	6	NR		
8.23	Gate valve 38mm GS	3	NR		
8.24	Reducing bush 38mm GS	3	NR		
8.25	Elbow 38mm GS	6	NR		
8.26	Plugs 38mm GS	6	NR		
8.27	Excavations of 3 ponds 40m ³ each	120	M ³		
				TSHS	

PLUMBING

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>WATER PUMP UNIT:</u>				
8.25	Purchase of Diesel water pump: ENGINE 20Hp (Royalty Brand) PUMP: Flow- 200 cubic M/h; Power - 16Hp; Head - 32M	1	NR		
8.26	Supply and Install ground water storage tank; "SIMTANK" 10,000 liters capacity; including ball valve; high level and low level float switch; .cover; ladder and making all necessary perforations for supply; distribution; overflow and washout pipes	1	NR		
	Gully trap covers; size 300 x 300mm	1	NR		
	Cast Iron cover.	0	NR		
	Stainless steel sheet for coffee traps 1200X1200mm	1	NR		
8.27	Allow for construction of overhead storage tanks:	1	NR		
8.28	The stand should be made of burnt bricks in cement/sand mortar 1:3 mix with the maximum height of 4m, wall thickness 400mm crossed each other.				
	Both ground base overhead slabs, to be of 150mm thick reinforced with 12mm diameter corrugated steel at 200mm spacing: top and bottom				
	(i) 12mm reinforcement bars	25	ROLL		
	(ii) Cement	40	BAG		
	(iii) Sand	7	M ³		
	(iv) Aggregates	14	M ³		
	(v) Burnt bricks	2,200	NR		
	(vi) Binding wire	10	KG		
				TSHS	

DRYING TABLE INFRASTRUCTURE

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
1	<u>ELEMENT NUMBER ONE</u>				
	<u>SUBSTRUCTURE</u>				
	(PROVISIONAL)				
	<u>SITE PREPARATION</u>				
	<u>Site Clearance</u>				
	Cutting grasses, Scrubs, trees or the like removing from site				
1.1	CLEARING	1520	M ²		
	<u>Removing vegetable soil</u>				
	Excavating average 150mm deep removing from site				
1.2	CLEARING	170	M ²		
	<u>EXCAVATION</u>				
	Pit size 700 x 700 x 300mm deep				
	18Nos per raw x 25 raws				
1.3	EXCAVATION OF PITS FOR PILLARS	66.00	M ³		
	<u>CONSTRUCTION OF PILLARS</u>				
	Pillar size 400 x 400mm, average heigh 1200mm from underground to above floor level				
	NB: Pillars are to be erected starting 300mm deep below ground to 900mm above the floor				
1.4	BURNT BRICKS	23700	PCS		
1.5	CEMENT FOR MORTAR	230	BAGS		
1.6	SAND FOR BLOCKS	0	M ³		
1.7	SAND FOR MORTAR	59	M ³		
	<u>TIMBERS FOR COFFEE TRAYS (SW)</u>				
1.8	2" X 4" X 12' For sides	325	PCS		
1.9	2" X 3" X 12' For central & sides supporters	300	PCS		
1.10	Galvanized coffee tray wire (1200 x 25000mm)	25	ROLL		
1.11	Galvanized tension wire 3mm	2	ROLL		
1.12	<u>4" Wire nails</u>	100	KG		
1.13	3" wire nails	50	KG		
1.14	Ceiling board wire nails	50	KG		
				TSHS	

BOQ FOR STORE/OFFICE

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
1	<p><u>ELEMENT NUMBER ONE</u></p> <p style="text-align: center;"><u>SUBSTRUCTURE</u></p> <p style="text-align: center;">(PROVISIONAL)</p> <p><u>SITE PREPARATION</u></p> <p><u>Site Clearance</u> Cutting grasses, Scrubs, trees or the like removing from site</p>				
1.1	<p style="text-align: center;">CLEARING</p> <p><u>Removing vegetable soil</u> Excavating average 150mm deep removing from site</p>	256	M ²		
1.2	<p style="text-align: center;">CLEARING</p> <p><u>EXCAVATION</u> <u>Excavating</u> Trenches; to receive foundations; starting from stripped level not exceeding 1.50m deep</p>	130	M ²		
1.3	<p style="text-align: center;">EXCAVATION OF TRENCHES</p> <p>exceeding 1.50m deep</p>	24.00	M ³		
		0	M ³		
1.4	<p>Pits; to receive column footings/ Pillers; starting from stripped level not exceeding 1.50m deep: 10 NR. pillers</p>	6.00	M ³		
		0	M ³		
CM	<p>Extra over all kinds of excavations irrespective of depth for breaking up rocks (Provisional)</p> <p style="text-align: center;">ROCKS BREAKING</p>	0	M ³		
				TSHS	

BOQ FOR STORE/OFFICE

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
1.5	<u>Disposal</u> Excavated material backfilling; around foundation <p style="text-align: center;">SUITABLE BACKFILL</p>	50	M ³		
1.6	Surplus excavated material removing from site <p style="text-align: center;">REMOVING/SPREADING</p>	20	M ³		
	<u>DISPOSAL OF WATER</u> <u>Generally</u> general water <u>PLANKING AND STRUTTING</u> <u>Generally</u> Sides of excavations <u>HARDCORE OR THE LIKE</u> <u>Hardcore</u> 200mm thick Beds		ITEM		
1.7	<p style="text-align: center;">GRAVELS/STONES(3.5 CUM/TRIP)</p>	2	M ³		
1.8	<u>Approved soil</u> <u>Filling in making up levels under floors</u> over 300mm thick; depositing and compacting in layers maximum 250mm thick Selected excavated soil <p style="text-align: center;">SOIL(3.5 CUM/TRIP)</p>	45	M ³		
1.9	<u>ANTI-TERMITE TREATMENT</u> <u>Gamalin 20EC solution</u> At the rate of 7 litres per square metre to hardcore beds and tops of foundation walls <p style="text-align: center;">SOIL STERILIZATION</p>	2	LTR		
1.10	At the rate of 80 litres per cubic metres to backfilling <p style="text-align: center;">SOIL STERILIZATION</p>	2	LTR		
				TSHS	

BOQ FOR STORE/OFFICE

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>INSITU CONCRETE; PLAIN</u>				
	<u>Normal; grade 10;</u>				
	50mm thick Blinding;				
1. 11	CEMENT	10	BAGS		
1. 12	SAND(If small amount to be neglected)	0	M ³		
1. 13	AGGREGATES (As above)	0	M ³		
	<u>Normal; grade 15;</u>				
	Strip foundations or the like				
	irrespective of thickness				
1. 14	CEMENT		BAGS		
1. 15	SAND(If small amount to be neglected)	0	M ³		
1. 16	AGGREGATES (As above)	0	M ³		
	Floor/slab				
	100mm thick:				
1. 17	CEMENT	22	BAGS		
1. 18	SAND	1.5	M ³		
1. 19	AGGREGATES	1.5	M ³		
	<u>INSITU CONCRETE; REINFORCED</u>				
	<u>Normal; grade 20; vibrated</u>				
	Column bases or the like				
	irrespective of thickness: Mashine base,				
1. 20	CEMENT	15	BAGS		
1. 21	SAND	1	M ³		
1. 22	AGGREGATES	1	M ³		
	Columns; vertical or sloping exceeding 15 degrees				
	from horizontal				
	irrespective of sectional area				
1. 23	CEMENT	0	BAGS		
1. 24	SAND	0	M ³		
1. 25	AGGREGATES	0	M ³		
	Steps				
	irrespective of sectional area				
1. 26	CEMENT	5	BAGS		
1, 27	SAND	0	M ³		
1. 28	AGGREGATES	0	M ³		
				TSHS	

BOQ FOR STORE/OFFICE

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>INSITU CONCRETE(Cont'd)</u> Plinth beam or the like irrespective of thickness				
1. 29	CEMENT	10	BAGS		
1. 30	SAND	1	M ³		
1. 31	AGGREGATES	1	M ³		
	<u>REINFORCEMENTS (A 12M LONG BAR)</u> <u>Bars; high Tensile steel;</u>				
	Column footings				
1. 32	16mm diameter	0	ROLL		
1. 33	12mm diameter	0	ROLL		
1. 34	8mm diameter	0	ROLL		
	Ground Beams				
1. 35	12mm diameter	0	ROLL		
1. 36	8mm diameter	0	ROLL		
	<u>FORMWORK TO INSITU CONCRETE</u> <u>Sawn Formwork; generally to;</u>				
	Sides; vertical or battering column footings or the like Ditto:Curved columns to 150mm radius				
	Sides and soffits Plinth beam				
	Edges of bed 75 to 150mm high				
	Sides or risers of steps 75 to 150mm wide				
1. 37	1" X 8" X 12'	20	PCS		
1. 38	2" X 3" X 12'	9	PCS		
1. 39	NAILS-V/SIZES	7	KGS		
				TSHS	

BOQ FOR STORE/OFFICE

UNIT	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>FOUNDATION WALL</u> Solid concrete blocks to BS 2828 type A ; in cement mortar (1:3) 230mm thick Walls Overall 35m ²				
1. 40	BURNT BRICKS	6000	PCS		
1. 41	CEMENT FOR MORTAR	60	BAGS		
1. 42	SAND FOR BLOCKS	0	M ³		
1. 43	SAND FOR MORTAR	3	M ³		
	<u>DAMP PROOF COURSES</u> B.S. 743; type A; bitumen hessian base; 150mm laps 215mm wide;Horizontal	1	ROLL		
1. 44					
	<u>DAMP PROOF MEMBRANE</u> Polythene; 1000 gauge; 150mm laps Over 300mm wide;Horizontal	42	M ²		
1. 45					
	<u>INSITU FINISHING</u> Plaster; 12mm first coat of cement and sand (1:4); <u>3mm second coat of cement and lime putty (1:5);</u> <u>wood floated</u> 15mm two coat work; to concrete or blockwork base; generally to walls				
1. 46	CEMENT	0	BAGS		
1. 47	SAND	0	M ³		
	<u>ONE COATS OF BITUMINOUS PAINT</u> Wood floated rendered surfaces; external Walls over 300mm girth				
1. 48	ALL THREE FULL COATS	0.00	GLN		
1. 49	GEN. PURPOSE SOLVENT	0	LT		
				TSHS	

BOQ FOR STORE/OFFICE

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<p><u>ELEMENT NUMBER TWO</u> <u>SUPERSTRUCTURE</u> <u>(Ground Floor)</u></p> <p><u>INSITU CONCRETE; REINFORCED</u> <u>Normal; grade 20; vibrated</u> Beams or the like; horizontal generally ;to receive slabs</p>				
2.1	CEMENT	23	BAGS		
2.2	SAND	2.70	M ³		
2.3	AGGREGATES	3.00	M ³		
	150 mm thick Slabs or the like; horizontal				
	CEMENT	0	BAGS		
	SAND	0	M ³		
	AGGREGATES	0	M ³		
	600 x 75 mm thick Upstand				
	CEMENT	0	BAGS		
	SAND	0	M ³		
	AGGREGATES	0	M ³		
	Columns; vertical or sloping not exceeding 15 degrees from horizontal irrespective of sectional area Steps, staircases or strings irrespective of sectional area				
	CEMENT	0	BAGS		
	SAND	0	M ³		
	AGGREGATES	0	M ³		
	<u>REINFORCEMENT</u> <u>Bars; high Tensile steel;</u>				
	Beams or the like; horizontal				
2.4	12mm diameter	28	ROLL		
2.5	8mm diameter	13	ROLL		
	150 mm thick Slabs or the like; horizontal 16mm diameter	0	ROLL		
	600 x 75 mm thick Upstand 12mm diameter	0	ROLL		
2.6	6mm diameter	5	ROLL		
	Stirrups				
2.7	Binding wires	15	KGS		
				TSHS	

BOQ FOR STORE/OFFICE

S/N	DESCRIPTION	MATERIALS			AMOUNT
		QTY	UNIT	COST @	
	<u>FORMWORK TO INSITU CONCRETE</u>				-
	<u>Sawn Formwork; generally to:</u>				-
	Sides; vertical or battering				-
	Columns				-
	Ditto:Curved columns to 150mm radius				-
	Sides and soffits				-
	beams or the like; horizontal				-
	Ditto:Upstand beam				-
	Ditto:Horizontal Slabs				-
	Staircases				-
2.8	1" X 8" X 12'	20	PCS		
2.9	2" X 3" X 12'	0	PCS		
2.10	50 MM DIA. SUPPORTERS	9	PCS		
2, 11	NAILS-VARIOUS SIZES	10	KGS		
	<u>Mild steel to BS 4360</u>				-
	Size 3385 x 1000mm high overall balustrade				-
	comprising of 30mm diameter mild steel				-
	plate handrail plate embedded				-
	into concrete column; 30mm diameter mild				-
	steel hollow section middle rail with both ends				-
	welded with 100 x 100 x 3mm plate embedded				-
	into concrete column 3no, 30mm diameter mild				-
	steel hollow section baluster with one				-
	end welded with including 100 x 100 x 3mm				-
	mild steel plate;finished with smooth 75mm radius curve	0	NR		-
	curve hardwood to cover the 30mm steel plate				-
	<u>BRICKWORK</u>				
	<u>Standard burnt Bricks;Flemish Bond</u>				
	<u>solid; in cement mortar (1:4)</u>				
	200mm thick Walls				
2.12	BURNT BRICKS	12550	NR		
2.13	CEMENT	125	BAGS		
2.14	SAND	14	M ³		
	110mm thick Walls				
	BURNT BRICKS	0	NR		
	CEMENT	0	BAGS		
	SAND	0	TRIP		
				TSHS	

BOQ FORSTORE/OFFICE

S/N	DESCRIPTION	MATERIALS			AMOUNT
		QTY	UNIT	COST @	
	ELEMENT NUMBER FOUR				
	DOORS (Ground Floor)				
	<u>WOOD WORK:</u>				
	<u>Prime Quality Hardwood Paneled Doors</u>				
4.1	40mm Thick paneled door size 900 x 2100mm high comprising of 40x100mm rebated stiles, 40x100mm rebated top, middle rail 40 x 100mm;40x150mm bottom rail; divided into two panels; all panels filled in with and including 40mm thick hardwood boards	1	NR		
	Ditto, size 1400 x 2100mm high	0	NR		
	Ditto, size 810 x 2100mm high	0	NR		
	Ditto, size 300 x 2100mm high	0	NR		
	<u>Hard wood Frames and finishing;</u>				
4.2	45 x 145mm Grounded Frames with one labours.	11	LM		
	Ditto, Mullions	0	LM		
	Ditto, Transomes	0	LM		
4,3	25 x 25mm Architraves.	22	LM		
	25 x 25mm Glazing beads	9	LM		
	<u>Sawn hardwood, third grade.</u>				
	15x100mm Grounds, plugged	0	LM		
	<u>IRON MONGERY:</u>				
	<u>Supply and fix the following iron mongery to hardwood UNION Phoenix 655-06-02 with matching screws finished with anodized silver:</u>				
4.4	Two-lever mortise lockset model 2237 case 65. Rebate component model 2979.	1	NR		
4.5	DSSW Aluminum butt hinges type U509/2 Size 101.6 x 66.67x3mm.	6	NR		
	Ditto: 100 mm Barrel Bolts	1	NR		
				TSHS	

BOQ FORSTORE/OFFICE

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>IRON MONGERY (Cont'd)</u>				-
	<u>Metal Work: Mild Steel</u>				-
	Supply and fix door grilles to approved pattern by client.	14	M ²		-
	<u>Glazing:</u>				-
	<u>5mm thick clear glass fixed with hard wood beads m/s:</u>				
	Panes over 0.1 m ² not exceeding 0.5 m ²	10.00	M ²		
	<u>ALUMINIUM WINDOWS</u>				
	<u>Supply, assemble and fixing Composite Aluminium units as .(REFER WINDOWS) including mullions, transoms and unblocking devices where necessary; oiling easing and adjusting; all as per Architect's detail drawings:</u>				
4.6	900 x 600 mm high	0	NR		-
	Not exceeding 1500 x 2500 mm high	3	NR		-
				TSHS	

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>ELEMENT NUMBER SIX</u>				
	<u>FINISHING (Ground Floor)</u>				
	<u>INTERNALLY</u>				
	<u>INSITU FINISHING</u>				
	<u>Plaster; 12mm first coat of cement and sand (1:4); 3mm second coat of cement and lime putty (1:5); steel trowelled</u>				
	15mm two coat work; to concrete or block work base; generally to columns				-
	Floor blinding				-
6.1	CEMENT	70	BAGS		
6.2	SAND	5	M ³		
6.3	LIME	6	BAGS		
	<u>TILE, SLAB OR BLOCK FINISHING</u>				
	<u>Non slippery porcelain tiles; BS 6431; imported; coloured; to pattern as per drawings ; bedding and jointing in cement mortar (1:3); grouting joints with approved grout</u>				
	300 x 300 x 8mm; joints straight both ways; to cement and sand base; generally to				-
	Floors (To Office, verrandah and steps only)				-
6.4	TILES	51	M ²		
6.5	CEMENT	5	BAGS		
6.8	GROUTING	3	KGS		
	<u>Ceramics tiles; imported; coloured; to pattern as per drawings ; bedding and jointing in cement mortar (1:3); grouting joints with approved grout</u>				
	200 x 300 x 6mm; joints straight both ways; to cement and sand base; generally to				-
	Walls				-
	Round edges				-
6.9	TILES	0	M ²		
6.10	CEMENT	0	BAGS		
6.11	SAND	0	M ³		
6.12	GROUTING	0	KGS		
6.13	STRIPS	0	NR		
	25 x130 mm high skirting				
	TILES	30	LM		
	STRIPS	0	NR		
	GROUTING	1	KGS		
					-
TO COLLECTION				TSHS	

BOQ FOR STORE/OFFICE

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>BEDS OR BACKINGS</u>				
	<u>Mortar; cement and sand (1:4)</u>				-
	32mm to floors				-
	CEMENT	0	BAGS		-
	SAND	0	TRIP		-
	12mm to walls				-
	CEMENT	1	BAGS		-
	SAND	0	TRIP		-
	LIME	0	BAGS		-
	<u>EXTERNALLY</u>				-
	<u>INSITU FINISHING</u>				-
	<u>Render; 15mm first coat of cement and sand (1:6);</u>				-
	<u>5mm second coat of tyrolean (1:2);steel trowelled</u>				-
	20mm two coat work; to concrete or block work				-
	base; generally to				-
	walls				-
6.14	CEMENT	0	BAGS		-
6.15	SAND	0	TRIP		-
6.16	LIME	0	BAGS		-
				TSHS	

BOQ FOR STORE/OFFICE

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	SUSPENDED CEILING				-
	<u><i>Gypsum board finishing:</i></u>				-
	9mm Thick stepped ceiling lining; fixed to brandering using screws including joint tapes gypsum powder				-
	Extra over for ceiling access hatches size 600 x 600mm.	0	ITEM		-
	Gypsum cornice				
	GYPSUM BOARD	14	PCS		
	GYPSUM CORNICE	12	NR		
	GYPSUM POWDER	3	BAG		
	GYPSUM SCREWS	2	PKT		
					-
				TSHS	

BOQ FOR STORE/OFFICE

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>ELEMENT NUMBER SEVEN</u>				
	<u>DECORATIONS (Ground Floor)</u>				
	<u>INTERNALLY</u>				
	<u>Prepare and apply ONE undercoats and two full</u>				
	<u>coats of paint as per Architect's instruction</u>				
	<u>Plastered walls (To office and verandah only)</u>				-
					-
7.1	EMULSION PAINT	20	LTS		
	OIL PAINT (2000 MM)	4	LTS		
	SOLVENT	1	LTS		
	THINNER	1	LTS		
7.2	STUCCO	1	BUCKETS		
	<u>Prepare and apply one thinned coat and two full</u>				
	<u>coats of emulsion paint as per Architect's instruction</u>				
	Gypsum plastered ceilings				
	EMULSION PAINT	2	BUCKET		
	SOLVENT	0	LTS		
	THINNER	0	LTS		
	STUCCO	1	BUCKET		
	<u>Prepare and apply one undercoat and two full</u>				
	<u>coats of polyurethane clear varnish on timber</u>				
	<u>surfaces:</u>				-
	General wood surfaces				-
					-
					-
7.3	CLEAR VARNISH	0.5	GLN		
	SOLVENT				
7.4	THINNER	1	LTS		
	<u>EXTERNALLY</u>				
	<u>Prepare and apply two undercoats and two full</u>				
	<u>coats of weather guard paint as per the Architect's</u>				
	<u>instruction</u>				
	Walls,				
7.5	EMULSION PAINT		BUCKET		
	WEATHER GUARD PAINT	0	GLN		
	OIL PAINT	0	GLN		
	SOLVENT	0	LTS		
	THINNER	0	LTS		
	STUCCO	0	BUCKET		
				TSHS	

TOILET BLOCK

S/N	DESCRIPTION	MATERIALS			AMOUNT
		QTY	UNIT	COST @	
1	<p><u>ELEMENT NUMBER ONE</u></p> <p style="text-align: center;"><u>SUBSTRUCTURE</u></p> <p style="text-align: center;">(PROVISIONAL)</p> <p><u>SITE PREPARATION</u></p> <p><u>Site Clearance</u> Cutting grasses, Scrubs, trees or the like removing from site</p>				
1.1	<p style="text-align: center;">CLEARING</p> <p><u>Removing vegetable soil</u> Excavating average 150mm deep removing from site</p>	45	M ²		
1.2	<p style="text-align: center;">CLEARING</p> <p><u>EXCAVATION</u> <u>Excavating</u> Trenches; to receive foundations; starting from stripped level not exceeding 1.50m deep</p>	45	M ²		
1.3	<p style="text-align: center;">EXCAVATION OF TRENCHES</p> <p>exceeding 1.50m deep</p> <p>Pits; to receive column footings; starting from stripped level not exceeding 1.50m deep</p> <p>exceeding 1.50m deep</p> <p>Extra over all kinds of excavations irrespective of depth for breaking up rocks (Provisional)</p>	9	M ³		
		0	M ³		
		0	M ³		
CM					
1.4	ROCKS BREAKING	0	M ³		
				TSHS	

S/N	DESCRIPTION	MATERIALS			AMOUNT
		QTY	UNIT	COST @	
1.5	<u>Disposal</u> Excavated material backfilling; around foundation SUITABLE BACKFILL	7	M ³		
1.6	Surplus excavated material removing from site REMOVING/SPREADING	2	M ³		
	<u>DISPOSAL OF WATER</u> <u>Generally</u> general water		ITEM		
	<u>PLANKING AND STRUTTING</u> <u>Generally</u> Sides of excavations		ITEM		
1.7	<u>HARDCORE OR THE LIKE</u> <u>Hardcore</u> 200mm thick Beds GRAVELS/STONES(3.5 CUM/TRIP)	1.75	M ³		
1.8	<u>Approved soil</u> <u>Filling in making up levels under floors</u> over 300mm thick; depositing and compacting in layers maximum 250mm thick Selected excavated soil SOIL(3.5 CUM/TRIP)	3.5	M ³		
1.9	<u>ANTI-TERMITE TREATMENT</u> <u>Gamalin 20EC solution</u> At the rate of 7 litres per square metre to hardcore beds and tops of foundation walls SOIL STERILIZATION	1	LTR		
1.10	At the rate of 80 litres per cubic metres to backfilling SOIL STERILIZATION	1	LTR		
				TSHS	

S/N	DESCRIPTION	MATERIALS			AMOUNT
		QTY	UNIT	COST @	
	<u>INSITU CONCRETE; PLAIN</u> Normal; grade 10; 50mm thick Blinding				
1. 11	CEMENT	1	BAGS		
1. 12	SAND(If small amount to be neglected)	0	M ³		
1. 13	AGGREGATES (As above)	0	M ³		
	<u>Normal; grade 15;</u> Strip foundations or the like irrespective of thickness				
1. 14	CEMENT		BAGS		
1. 15	SAND(If small amount to be neglected)	0	M ³		
1. 16	AGGREGATES (As above)	0	M ³		
	Floor/slab 100mm thick				
1. 17	CEMENT	6	BAGS		
1. 18	SAND	1	M ³		
1. 19	AGGREGATES	1	M ³		
	<u>INSITU CONCRETE; REINFORCED</u> Normal; grade 20; vibrated Column bases or the like irrespective of thickness				
1. 20	CEMENT	0	BAGS		
1. 21	SAND	0	M ³		
1. 22	AGGREGATES	0	M ³		
	Columns; vertical or sloping exceeding 15 degrees from horizontal irrespective of sectional area				
1. 23	CEMENT	0	BAGS		
1. 24	SAND	0	M ³		
1. 25	AGGREGATES	0	M ³		
	Steps irrespective of sectional area				
1. 26	CEMENT	1	BAGS		
1, 27	SAND	0	M ³		
1. 28	AGGREGATES	0	M ³		
				TSHS	

S/N	DESCRIPTION	MATERIALS			AMOUNT
		QTY	UNIT	COST @	
	<u>INSITU CONCRETE(Cont'd)</u> Plinth beam or the like irrespective of thickness				
1. 29	CEMENT	0	BAGS		
1. 30	SAND	0	M ³		
1. 31	AGGREGATES	0	M ³		
	<u>REINFORCEMENTS (A 12M LONG BAR)</u> <u>Bars; high Tensile steel;</u>				
	Column footings				
1. 32	16mm diameter	0	ROLL		
1. 33	12mm diameter	0	ROLL		
1. 34	8mm diameter	0	ROLL		
	Ground Beams				
1. 35	12mm diameter	0	ROLL		
1. 36	8mm diameter	0	ROLL		
	<u>FORMWORK TO INSITU CONCRETE</u> <u>Sawn Formwork; generally to;</u>				
	Sides; vertical or battering column footings or the like Ditto:Curved columns to 150mm radius				
	Sides and soffits Plinth beam				
	Edges of bed 75 to 150mm high				
	Sides or risers of steps 75 to 150mm wide				
1. 37	1" X 8" X 12'	6	PCS		
1. 38	2" X 3" X 12'	3	PCS		
1. 39	NAILS-V/SIZES	1	KGS		
				TSHS	

UNIT	DESCRIPTION	MATERIALS			AMOUNT
		QTY	UNIT	COST @	
	<u>FOUNDATION WALL</u> Solid concrete blocks to BS 2828 type A ; in cement mortar (1:3) 230mm thick Walls				
1. 40	BURNT BRICKS	1100	PCS		
1. 41	CEMENT FOR MORTAR	6	BAGS		
1. 42	SAND FOR BLOCKS	0	M ³		
1. 43	SAND FOR MORTAR	1.5	M ³		
	<u>DAMP PROOF COURSES</u> B.S. 743; type A; bitumen hessian base; 150mm laps				
1.44	215mm wide;Horizontal	0.3	ROLL		
	<u>DAMP PROOF MEMBRANE</u> Polythene; 1000 gauge; 150mm laps				
1. 45	Over 300mm wide;Horizontal	15	M ²		
	<u>INSITU FINISHING</u> Plaster; 12mm first coat of cement and sand (1:4); <u>3mm second coat of cement and lime putty (1:5);</u> <u>wood floated</u> 15mm two coat work; to concrete or blockwork base; generally to walls				
1. 46	CEMENT	0	BAGS		
1. 47	SAND	0	M ³		
	<u>ONE COATS OF BITUMINOUS PAINT</u> Wood floated rendered surfaces; external Walls over 300mm girth				
1.48	ALL THREE FULL COATS	0.50	GLN		
1. 49	GEN. PURPOSE SOLVENT	1	LT		
				TSHS	

		MATERIALS			
S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>ELEMENT NUMBER TWO</u> <u>SUPERSTRUCTURE</u> <u>(Ground Floor)</u>				
	<u>INSITU CONCRETE; REINFORCED</u> <u>Normal; grade 20; vibrated</u> Beams or the like; horizontal generally ;to receive slabs				
2.1	CEMENT	6	BAGS		
2.2	SAND	0.20	M ³		
2.3	AGGREGATES	0.40	M ³		
	150 mm thick Slabs or the like; horizontal				
	CEMENT	0	BAGS		
	SAND	0	M ³		
	AGGREGATES	0	M ³		
	600 x 75 mm thick Upstand				
	CEMENT	0	BAGS		
	SAND	0	M ³		
	AGGREGATES	0	M ³		
	Columns; vertical or sloping not exceeding 15 degrees from horizontal irrespective of sectional area				- -
	Steps, staircases or strings irrespective of sectional area				- -
	CEMENT	0	BAGS		
	SAND	0	M ³		
	AGGREGATES	0	M ³		
	<u>REINFORCEMENT</u> <u>Bars; high Tensile steel;</u>				
2.4	Beams or the like; horizontal 12mm diameter	7	ROLL		
2.5	8mm diameter	6	ROLL		
	150 mm thick Slabs or the like; horizontal 16mm diameter	0	ROLL		
	600 x 75 mm thick Upstand 12mm diameter	0	ROLL		
2.6	6mm diameter	1	ROLL		
2.7	Stirrups Binding wires	4	KGS		
				TSHS	

		MATERIALS			
S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	FORMWORK TO INSITU CONCRETE				-
	<u>Sawn Formwork; generally to:</u>				-
	Sides; vertical or battering				-
	Columns				-
	Ditto:Curved columns to 150mm radius				-
	Sides and soffits				-
	beams or the like; horizontal				-
	Ditto:Upstand beam				-
	Ditto:Horizontal Slabs				-
	Staircases				-
2.8	1" X 8" X 12'	10	PCS		
2.9	2" X 3" X 12'	0	PCS		
2.10	50 MM DIA. SUPPORTERS	2	PCS		
2, 11	NAILS-VARIOUS SIZES	1	KGS		
	<u>Mild steel to BS 4360</u>				
	Size 3385 x 1000mm high overall balustrade comprising of 30mm diameter mild steel plate handrail plate embedded into concrete column; 30mm diameter mild steel hollow section middle rail with both ends welded with 100 x 100 x 3mm plate embedded into concrete column 3no, 30mm diameter mild steel hollow section baluster with one end welded with including 100 x 100 x 3mm mild steel plate;finished with smooth 75mm radius curve curve hardwood to cover the 30mm steel plate	0	NR		
	<u>BRICKWORK</u>				
	<u>Standard burnt Bricks;Flemish Bond</u>				
	<u>solid; in cement mortar (1:4)</u>				
	200mm thick Walls				
2.12	BURNT BRICKS	2650	NR		
2.13	CEMENT	15	BAGS		
2.14	SAND	1	M ³		
	110mm thick Walls				
	BURNT BRICKS	0	NR		
	CEMENT	0	BAGS		
	SAND	0	TRIP		
					-
				TSHS	

		MATERIALS			
S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<p><u>ELEMENT NUMBER THREE</u></p> <p>ROOF</p> <p>ROOF COVERINGS</p> <p><u>PITCHED ROOF</u></p> <p><u>Troughed Pre-painted Aluminium-Zinc coated steel sheets,size 900 mm width x 4000 mm length in multiple of 300mm as per Versatile profile ALAF specification (or equal and approved) fixed to treated softwood battens</u></p> <p>Roof covering sloping not exceeding 45 degrees from horizontal Ditto:Ridge/Hips cover. Ditto:Valley cover Ditto:DB Barge/Fascia cover</p> <p>TROUGHED SHEETS 28 GAUGE (900 MM WIDE x 3000 MM LONG)</p> <p style="text-align: center;">RIDGE CAP</p> <p style="text-align: center;">VALLEY COVERS</p> <p style="text-align: center;">NAILS/SCREWS-3" SIZE</p> <p>ROOF STRUCTURE:</p> <p><u>Treated softwood; pressure impregnated</u></p> <p>3.1 2" x 4" x 12'. Rafters.</p> <p>3.2 2" x 6" x 12' Tie beam.</p> <p>3.3 2" x 4" x 12'. Struts.</p> <p>3.4 2" x 4" x 12' Wall plate.</p> <p>3.5 2" x 3"x 12' Purlins</p> <p><u>Softwood;</u> Branding</p> <p>3.6 2" X 2" X 12'</p> <p>3.7 2" X 3" X 12'</p> <p style="text-align: center;">ROUND WIRE NAILS- V/ SIZES</p> <p><u>Carpenter's metal work:</u> Allow sum for metal works associated with roofing structure</p> <p><u>Prime Quality Hardwood; mninga</u></p> <p>3.8 1" x 8" x 12" Barge/Fascia boards</p>				-
		6	PCS		-
		0	LM		-
		0	LM		-
		2	KGS		-
					-
		2	PCS		-
		0	PCS		-
		0	PCS		-
		9	PCS		-
		20	PCS		-
					-
		11	PCS		-
		0	PCS		-
		3	KGS		-
				ITEM	-
		4	PCS		-
TO SUMMARY OF SECTION NR. 3				TSHS	

S/N	DESCRIPTION	MATERIALS			AMOUNT
		QTY	UNIT	COST @	
	ELEMENT NUMBER FOUR				
	DOORS (Ground Floor)				
	<u>WOOD WORK:</u>				
	<u>Prime Quality Hardwood Paneled Doors</u>				
4.1	40mm Thick paneled door size 900 x 2100mm high comprising of 40x100mm rebated stiles, 40x100mm rebated top, middle rail 40 x 100mm;40x150mm bottom rail; divided into two panels; all panels filled in with and including 40mm thick hardwood boards	2	NR		
	Ditto, size 1400 x 2100mm high	0	NR		
	Ditto, size 810 x 2100mm high	0	NR		
	Ditto, size 300 x 2100mm high	0	NR		
	<u>Hard wood Frames and finishing;</u>				
4.2	45 x 145mm Grounded Frames with one labours.	11	LM		
	Ditto, Mullions	0	LM		
	Ditto, Transomes	0	LM		
4,3	25 x 25mm Architraves.	22	LM		
	25 x 25mm Glazing beads	0	LM		
	<u>Sawn hardwood, third grade.</u>				
	15x100mm Grounds, plugged	0	LM		
	<u>IRON MONGERY:</u>				
	<u>Supply and fix the following iron mongery to hardwood UNION Phoenix 655-06-02 with matching screws finished with anodized silver:</u>				
4.4	Two-lever mortise lockset model 2237 case 65. Rebate component model 2979.	2	NR		
4.5	DSSW Aluminum butt hinges type U509/2 Size 101.6 x 66.67x3mm.	6	NR		
	Ditto: 100 mm Barrel Bolts	0	NR		
				TSHS	

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>IRON MONGERY (Cont'd)</u>				-
	<u>Metal Work: Mild Steel</u>				-
	Supply and fix door grilles to approved pattern by client.	0	SM		-
	<u>Glazing:</u>				-
	<u>5mm thick clear glass fixed with hard wood beads m/s:</u>				-
	Panes over 0.1 m ² not exceeding 0.5 m ²	0	SM		-
	<u>ALUMINIUM WINDOWS</u>				-
	<u>Supply, assemble and fixing Composite Aluminium Door units as .(REFER WINDOWS) including mullions, transoms and unblocking devices where necessary; oiling easing and adjusting; all as per Architect's detail drawings:</u>				-
4.6	900 x 600 mm high	2	NR		-
	450 x 2500 mm high	0	SM		-
				TSHS	

		MATERIALS			
S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	SUSPENDED CEILING				-
	<u><i>Gypsum board finishing:</i></u>				-
SM	9mm Thick stepped ceiling lining; fixed to brandering using screws including joint tapes gypsum powder				-
NR	Extra over for ceiling access hatches size 600 x 600mm.	1	ITEM		-
LM	Gypsum cornice				-
	GYPSUM BOARD	4	PCS		-
	GYPSUM CORNICE	6	NR		-
	GYPSUM POWDER	16	KGS		-
	GYPSUM SCREWS	100	NR		-
				TSHS	

		MATERIALS			
S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>ELEMENT NUMBER SIX</u>				
	<u>FINISHING (Ground Floor)</u>				
	<u>INTERNALLY</u>				
	<u>INSITU FINISHING</u>				
	<u>Plaster; 12mm first coat of cement and sand (1:4); 3mm second coat of cement and lime putty (1:5); steel trowelled</u>				
	15mm two coat work; to concrete or block work base; generally to columns				-
	Floor blinding				-
6.1	CEMENT	12	BAGS		
6.2	SAND	4	M ³		
6.3	LIME	2	BAGS		
	<u>TILE, SLAB OR BLOCK FINISHING</u>				
	<u>Non slippery porcelain tiles; BS 6431; imported; coloured; to pattern as per drawings ; bedding and jointing in cement mortar (1:3); grouting joints with approved grout</u>				
	300 x 300 x 8mm; joints straight both ways; to cement and sand base; generally to Floors				
6.4	TILES	10	M ²		
6.5	CEMENT	3	BAGS		
6.8	GROUTING	1	KGS		
	<u>Ceramics tiles; imported; coloured; to pattern as per drawings ; bedding and jointing in cement mortar (1:3); grouting joints with approved grout</u>				
	200 x 300 x 6mm; joints straight both ways; to cement and sand base; generally to Walls Round edges				
6.9	TILES	22	M ²		
6. 10	CEMENT	7	BAGS		
6. 11	SAND	0	M ³		
6. 12	GROUTING	2	KGS		
6. 13	STRIPS	5	NR		
	25 x150 mm high skirting				
	TILES	0	LM		
	STRIPS	0	NR		
	GROUTING	0	KGS		
TO COLLECTION				TSHS	

		MATERIALS			
S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>BEDS OR BACKINGS</u>				
	<u>Mortar; cement and sand (1:4)</u>				
	32mm to floors				-
	CEMENT	0	BAGS		-
	SAND	0	TRIP		-
	12mm to walls				
	CEMENT	0	BAGS		
	SAND	0	TRIP		
	LIME	0	BAGS		
	<u>EXTERNALLY</u>				
	<u>INSITU FINISHING</u>				
	<u>Render; 15mm first coat of cement and sand (1:6);</u>				
	<u>5mm second coat of tyrolean (1:2);steel trowelled</u>				
	20mm two coat work; to concrete or block work				
	base; generally to				
	walls				
6.14	CEMENT	8	BAGS		
6.15	SAND	2.5	TRIP		
6.16	LIME	2	BAGS		
				TSHS	

S/N	DESCRIPTION	MATERIALS			
		QTY	UNIT	COST @	AMOUNT
	<u>ELEMENT NUMBER SEVEN</u>				
	<u>DECORATIONS (Ground Floor)</u>				
	<u>INTERNALLY</u>				
	<u>Prepare and apply ONE undercoats and two full</u>				
	<u>coats of paint as per Architect's instruction</u>				
	Plastered walls				-
					-
7.1	EMULSION PAINT	2	TIN		
	OIL PAINT (2000 MM)	0	GLN		
	SOLVENT	0	LTS		
	THINNER	0	LTS		
7.2	STUCCO	1	BUCKETS		
	<u>Prepare and apply one thinned coat and two full</u>				
	<u>coats of emulsion paint as per Architect's instruction</u>				
	Gypsum plastered ceilings				
	EMULSION PAINT	0	BUCKET		
	SOLVENT	0	LTS		
	THINNER	0	LTS		
	STUCCO	0	BUCKET		
	<u>Prepare and apply one undercoat and two full</u>				
	<u>coats of polyurethane clear varnish on timber</u>				
	<u>surfaces:</u>				
	General wood surfaces				-
					-
7.3	CLEAR VARNISH	0.25	GLN		
	SOLVENT				
7.4	THINNER	1	LTS		
	<u>EXTERNALLY</u>				
	<u>Prepare and apply two undercoats and two full</u>				
	<u>coats of weather guard paint as per the Architect's</u>				
	<u>instruction</u>				
	Walls,				
7.5	EMULSION PAINT	1	BUCKET		
	WEATHER GUARD PAINT	0	GLN		
	OIL PAINT	0	GLN		
	SOLVENT	0	LTS		
	THINNER	0	LTS		
	STUCCO	0	BUCKET		
				TSHS	

		MATERIALS			
S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<p>ELEMENT NUMBER EIGHT</p> <p>PLUMBING AND ENGINEERING INSTALLATIONS</p> <p><i>SANITARY APPLIANCES</i></p> <p>(Armitage Shanks ref. or equal and approved manufacturer) including all connections and fixing to floor or wall where necessary</p>				
8.1	560 x 750 Wash hand basin complete with chromium bottle trap	2	NR		
8.2	515 x 915 x 735mm White vitreous china WC comprising vitreous 9 litres capacity low level flushing cistern with plastic siphon fitting, 12mm B.S.S. high pressure ball valve, cover, handle, 32mm flush pipe side supply and overflow set, domex screws and S or P trap .	2	NR		
8.3	80mm diameter plastic floor drains. holder.	2	NR		
8.4	Stainless Steel kitchen Sink, Double Bowl Double Drainer (DBDD); size 1500 x 600mm , bright/satin complete with 38mm chromium plated bottle trap; waste plug; chain and pin.	0	NR		
8.4	6mm Thick x 450 x 600mm polished glass mirror with chamfered edges, 4no chromium plated domex screws.	2	NR		
8.5	White vitreous china Mayfair 305 x 150mm soap dish and sponge holder	2	NR		
	Flexible pipes:12mm. Tube in short lengths; 600mm long a piece including nuts.				
	800 x 800mm glass fibre shower tray with 13mm supply pipe ;13mm stop valve, 38mm slotted drainer waste, and 38mm"p" trap with 17mm seal and mixer taps complete with shower assembly	0	NR		
				TSHS	

S/N	DESCRIPTION	MATERIALS			AMOUNT
		QTY	UNIT	COST @	
	<u>Pvc pipes; waste and soil water pipes</u>				
	UPVC pipes;Diameter				
8.6	100mm	4	PCS		
	75mm	0	PCS		
	50mm	0	PCS		
8.7	25mm	4	PCS		
	Galvanized pipes				
8.8	15mm	4	PCS		
	Accessesories				
8.9	Tee	20mm PVC	5	NR	
8.10		15mm GS	2	NR	
8.11		100mm PVC	2	NR	
8.12	Elbow	20mm PVC	2	NR	
8.13		15mm GS	2	NR	
8.14		100mm PVC	2	NR	
8.15	Nipple	15mm GS	6	NR	
8.16	Socket	20mm PVC	6	NR	
8.17		15mm GS	3	NR	
8.18		100mm PVC	2	NR	
8.19	Gate Valve	15mm GS	1	NR	
8.20	Union	15mm GS	4	NR	
8.21	B. Valve	15mm GS	2	NR	
8.21	Thread Tape		10	NR	
8.22	B.Nut		2	NR	
8.23	Bib Tape	15mm	2	NR	
8.24	Pillar Tape	15mm	2	NR	
				TSHS	

		MATERIALS			
S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	<u>PUMPS:</u>				
8.25	Supply and fix water booster pumps; "GRUNDFOS AUTOMATIC"; Type: CH2 - 30;Flow; Q = 1 -3.5 m3/h; Head; H = 3 - 42m; orequivalent and approved; connecting to pipes as	1	NR		
8.26	Supply and Install ground water storage tank; "SIMTANK" 10,000 liters capacity; including ball valve; high level and low level float switch; .cover; ladder and making all necessary perforations for supply; distribution; overflow and washout pipes	1	NR		
	Gully trap covers; size 300 x 300mm	0	NR		
	Cast Iron cover.				
8.27	Manhole and meter chamber cover size 600 x 600mm cast iron cover.	3	NR		
				TSHS	

S/N	DESCRIPTION	MATERIALS			AMOUNT
		QTY	UNIT	COST @	
	ELEMENT NUMBER TEN - EXTERNAL WORKS				
	SEPTIC TANK				
	(The following are in one number Septic tank)				
	Excavation and earth work				
10.1	Excavate oversite 150mm deep	6	M ²		
10.2	Excavate pit not exceeding 1.50 metres deep commencing at striped level	8	M ³		
10.3	Ditto over 1.50 but not exceeding 3.00 metres deep	5	M ³		
10.4	Extra over excavations for breaking up rocks and the like	6	M ³		
10.5	Level and compact bottoms of excavations	4	M ²		
10.6	Grading bottom of excavation to form sloping surfaces not exceeding 15 degrees from horizontal	3	M ²		
10.7	Load up surplus excavated material and remove from site	13	M ²		
	Allow for keeping excavations free from water (except spring or running water) by pumping, baling or by other means necessary				
	Allow for the provision and subsequent removal of planking and strutting to uphold and maintain all faces of excavations				
TO COLLECTION				TSHS	

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	Plain concrete grade "15"				
	230mm Bed				
	Ditto, Sloping not exceeding 15 degrees from horizontal				
	Kerbs and the like				
	150mm Bed				
	750 x 600 x 100mm (average) thick benching bottoms including forming 100mm half round curved main channel				
10.8	CEMENT	2	BAGS		
	SAND	0	M ³		
	AGGREGATES	0	M ³		
	Reinforced concrete grade '20' including vibration around reinforcement				
	100mm thick cover slab				
10.9	CEMENT	5	BAGS		
10.10	SAND	0.25	M ³		
10.11	AGGREGATES	0.5	M ³		
	Reinforcement				
	Fabric reinforcement;B.S 4483;Reference A393; Mesh size 200x200mm; Weight 3.02kgs per square metre; 200mm end laps; 200mm side laps				
10.12	In any location	4	M ²		
	Sawn formwork to:				
	Soffits of suspended slab				
	Edges of slab over 75 but not exceeding 150mm high; curved				
	Sides of kerbs or upstands over 75 but not exceeding 150mm wide				
	Boxing to form rebated openings for access covers and frames; Size 750x600mm				
10.13	25 X 200 X3000 MM	10	PCS		
10.14	50 X 75 X 2700 MM	4	PCS		
	POLES	0	PCS		
10.15	NAILS-VARIOUS SIZES	2	KGS		
TO COLLECTION				TSHS	

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	Standard Burnt Bricks; Solid Mortar (1:3) cement sand				
	215mm Thick				-
	100mm Thick Baffle wall				-
	Ditto; with 100x200mm openings				-
	Build into brickwall ends of 100mm pipes				-
	Racking cutting				-
	Holes for large pipes				-
10. 16	BURNT BRICKS	900	NR		
10. 17	CEMENT	10	BAGS		
10. 18	SAND	2	M ³		
	Step iron to BS 1247 mild steel iron building into joints				
	Type 'A' dove tail	0	NR		
	PVC Pipes and fittings to BS 3506				
	100mm diameter branch junction, 900mm long, built into brick work	0	NR		
	100mm diameter x 400mm long vent pipe, cast into concrete cover slab; fresh air inlet with mica flap and frame		NR		
	Access cover				
	Precast concrete grade "20"				
	750 x 600 x 100mm thick cover slab with rebated openings; reinforced with Fabric reinforcement to B.S 4483 ref. A. 193 weighing 3.02 kgs per square metres, including bedding	0	NR		
TO COLLECTION				TSHS	

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	Mortar; cement and sand (1:4) steel trowelled to a smooth finish; Water proof				
	40mm Work to floors level				
	Ditto sloping not exceeding 15 degrees from horizontal				
	15mm Thick, two coat work to walls				
10. 19	CEMENT	6	BAGS		
	SAND	0	M ³		
	(End of one number Septic Tank)				
	SOAK PIT				
	(The following are in one number Soak Pit)				
10. 20	Excavate oversite 150mm deep	13	M ²		
10. 21	Excavate pit not exceeding 1.50 metres deep commencing at striped level	13	M ³		
10. 22	Ditto over 1.50 but not exceeding 3.00 metres deep	20	M ³		
10. 23	Extra over excavations for breaking up rocks and the like	10	M ³		
10. 24	Load up surplus excavated material and remove from site	21	M ³		
10. 25	Earth backfilling around; compacted	4	M ³		
10. 26	Allow for keeping excavations free from water (except spring or running water) by pumping, baling or by other means necessary	1	SUM		
10. 27	Allow for the provision and subsequent removal of planking and strutting to uphold and maintain all faces of excavations	1	SUM		
TO COLLECTION				TSHS	

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	Hardcore and the like				
	200mm Thick bed; leveled Filling around sides of excavations; 260mm wide, curved on plan to 1981mm radius				
	GRAVELS/STONES SOIL	0			
	Plain concrete grade "15" Footing generally irrespective of thickness		M3 M3		
	CEMENT SAND AGGREGATES	2			
10. 28	Reinforced concrete grade '20' including vibration around	0.25			
10. 29	reinforcement 125mm Thick cover slab	0.00	BAGS M3 M3		
	CEMENT SAND AGGREGATES	4			
10. 30	Reinforcement	0.25			
10. 31	Fabric reinforcement;B.S 4483;Reference A393; Mesh size 200x200mm; Weight 3.02kgs per square metre; 200mm end laps; 200mm side laps In any location	0	BAGS M3 M3		
	Sawn formwork to: Soffits of suspended slab curved to 1750mm mean radius Edges of slab over 75 but not exceeding 150mm high; curved to 1980mm mean radius 600x750mm Boxing to form an opening in 125mm thick concrete with 25x25mm rebate	0	m ²		
	Labour for curved cutting to 1750mm mean radius	0	NR		
	1' X 8'X 12'	0			
	2' X 3' X 12' POLES	3	LM PCS		
	NAILS-VARIOUS SIZES	2	PCS		
10. 32		5	PCS		
10. 33		3	KGS		
10. 34					
10. 35					
TO COLLECTION				TSHS	

S/N	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	Standard Burnt Bricks;Solid;Mortar (1:3) cement sand				
10. 36	215mm Thick curved to 1865mm mean radius				
10. 37	Ditto; with 20mm Thick open joints, flush pointing one side as the work proceed				
10. 38	Holes for large pipes				
	Build into brickwall ends for 100mm pipes				
	BURNT BRICKS CEMENT	1200	NR		
	SAND	5	BAGS		
	PVC Pipes and fittings to BS 3506	0.20	M3		
10. 39	100mm diameter branch junction, 900mm long, built into brickwork	1	NR		
10. 40	100mm diameter x 400mm long vent pipe, cast into concrete cover slab; fresh air inlet with mica flap and frame	1	NR		
10, 41	Access cover				
	Precast concrete grade "20"				
	750 x 600 x 100mm thick cover slab with rebated openings; reinforced with Fabric reinforcement to B.S 4483 ref. A.	2	NR		
	193 weighing 3.02 kgs per square metres, including bedding				
TO COLLECTION				TSHS	

UNIT	DESCRIPTION	QTY	UNIT	COST @	AMOUNT
	Mortar; cement and sand (1:3) steel trowelled to a smooth finish; Water proof 20mm Thick, one coat to concrete or brick work				
10.42	CEMENT SAND (End of one number Soak pit) Manholes Construct standard manholes not exceeding 1000mm deep as per specification and drawings including heavy duty cast iron cover complete with all pipe connection to inspection chambers and backfilling to pipe trenches. Internal size: 600x600mm Testing	20	BAGS M3		
10.43 ITEM	Allow for testing the whole of the drainage installation to the Architect's satisfaction	1	NR ITEM		
TO COLLECTION				TSHS	

Summary of bid price Sums for Each AMCOS

(Attached BOQ and Bill of Quantities is for

AMCOS NO.	Item no.	Description	Amount (currency) VAT Inclusive
1		Bid price for Itumpi Ward	
2		Bid price for Idiwili Wards	
3		Bid price for Nyimbili Wards	
Total bid price			

Note:

- The provided Bill of Quantities (BOQ) is based on the construction of one standard CPU unit.
 - Bidders must calculate the total bid price for three (3) CPUs by multiplying the unit price accordingly.
 - This total should be clearly written in the tender submission form.
- Bidders are required to prepare a General Summary that includes:
 - Actual Amount (total cost before tax),
 - VAT (Value Added Tax),
 - Grand Total (Actual Amount + VAT).

SECTION IX: FORMS OF TENDER

1. Form of Tender

To: [name and address of Employer] [date]

We [insert name of tenderer], offer to execute the [name and identification number of contract] in accordance with the Conditions of Contract accompanying this tender for the Contract Price of [amount in numbers], [amount in words] [name of currency].

We declare that our tendering price did not involve agreements with other tenderers for the purpose of tender suppression.

We hereby confirming [insert name of the appointing authority] to be the appointing authority, to appoint the adjudicator in case of any arisen disputes in accordance with ITT 43.1[Adjudicator]

We are not participating, as tenders, in more than one tender in this tendering process other than alternative tenders in accordance with the tendering documents.

We declare that, as tenderer (s) we do not have conflict of interest with reference to ITT 3.7 [Eligibility of Tenderers]

With reference to ITT 3.11, it is our intention to subcontract approximately [insert the percent] percentage of the Tender /Contract Price, details of which are provided herein.

Our firm, its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the contract has not been declared ineligible by the Government of the United Republic of Tanzania under Tanzania's laws or any other official regulations.

We declare that our tendering price did not involve agreement with other tenderers for the purpose of tender suppression.

This tender and your written acceptance of it shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any tender you receive.

We hereby confirm that this tender complies with the tender validity and tender security required by the tendering documents and specified in the Tender Data Sheet.

Authorized Signature: _____

Name and Title of Signatory: _____

Name of Tenderer: _____

Address: _____

The form of tender must be supported by a form for summary priced bill of quantity per the format bellow

2. Standard Power of Attorney

TO ALL IT MAY CONCERN

THAT BY THIS POWER OF ATTORNEY given on the *[insert date, month and year]*, WE the undersigned *[insert name of the company/donor]* of *[insert address of the company/donor]*, by virtue of authority conferred to us by the Board Resolution No _____ of _____ day of _____*[insert year]*, do hereby ordain nominate and appoint *[insert name of donee]* of *[insert address of the donee]* to be our true lawful Attorney and Agent, with full power and authority, for us and in our names, and for our accounts and benefits, to do any, or all of the following acts, in the execution of tender No. *[insert tender number]* that is to say;

To act for the company and do any other thing or things incidental for *[insert tender Number]* of *[insert description of procurement]* for the *[insert name of the procuring entity]*;

AND provided always that this Power of Attorney shall not revoke or in any manner affect any future power of attorney given to any other person or persons for such other power or powers shall remain and be of the same force and affect as if this deed has not been executed.

AND we hereby undertake to ratify everything, which our Attorney or any substitute or substitutes or agent or agents appointed by him under this power on his behalf herein before contained shall do or purport to do in virtue of this Power of Attorney.

SEALED with the common seal of the said *[insert name of the company]* and delivered in the presence of us this *[insert date]* day of *[insert month]* *[insert year]*.

IN WITNESS whereof we have signed this deed on this *[insert date]* day of *[insert month]* *[insert year]* at *[insert region]* for and on behalf of *[insert name of the company]*

.....

SEALED and DELIVERED by the
Common Seal of *[insert name of the donor/coy]* }
This *[insert date, month and year]* }

.....

DONOR

Acknowledgement

I [*insert name of Donee*] doth hereby acknowledge and accept to be Attorney of the said [*insert name of the company/donor*] under the Terms and Conditions contained in this Power of Attorney and I promise to perform and discharge my duties as the lawfully appointed Attorney faithfully and honestly.

SIGNED AND DELIVERED by the said
[*insert name of Donee*] Identified to me
by [*insert name*]
The latter being known to me personally
this [*insert date, month and year*],

.....
DONEE

BEFORE ME

Name:.....

Address:.....

Qualification:.....

Signature:.....

COMMISSIONER FOR OATHS

APPENDIX TO TENDER

(i) Qualification Information

Form of Qualification Information

To establish qualifications to perform the contract the Tenderer shall provide information requested in form

1. Individual Tenderers or Individual Member of Joint Ventures

1.1 Eligibility

Registration/ Certificate of Incorporation [attach]

CRB Certificate class 5 or above for Civil Contractor only

Current Business License [attach]

Conflict of Interest – No conflict of interest in accordance with ITT 3.6 [should be declared in the Form of Tender]

Government-owned entity – meet conditions of ITT 3.8 [Attach legal status

Copy of valid Business License

Tax clearance certificate

Tax Identification Number Certificate

Company profile

Bank statement for the past 6 months

Letter of intent to form JVCA or JVCA

Compliance to safeguarding policy

Attach duly filled and Signed Form of Tender

Anti-Bribery Policy per section XI: integrity

Standard Power of Attorney

1.1 Experience

1. Three Work performed as prime Contractor on works of a similar nature (Construction of CPU facility) in the last 5 years. Any other experience will be rejected.
2. Attach evidence of project implementation being Contract or contract award letter and reference letter for each project from the client with full contact details (email, phone number, physical address)

S/No.	Project Name and Country	Name of Employer and full address	Contractor Participation	Type of Work Performed	Year	Value of Contract
1.						
2.						

3.						
----	--	--	--	--	--	--

1.2 Equipment and Plants

Major items of Contractor’s Equipment proposed for carrying out the works.

List key equipment

For each equipment attach ownership or lease agreement or arrangement to lease document

S/No	Item of equipment <i>[Bidder to propose to list required equipment]</i>	Description, make, and age (years)	Condition (new, good, Poor) and number available	Owned, leased (from whom?) or to be purchased (from whom?)
1.				
2.				
3.				

1.4 Personnel

- 1) Qualifications and experience of key personnel proposed for administration and execution of the Contract. (CVs of all proposed key personnel to be attached)
- 2) Education Certificate for all key proposed key staff,
- 3) Engineer registration certificate copy for the team leader is mandatory
- 4) Use the form bellow to fill and submit CV for each key personnel

**Form – Key Personnel:
Resume and Declaration for Key Personnel**

- Civil /Irrigation Engineer - Minimum 5 years Experiences in supervising Civil works and proven Three completed projects. Registration with ERB
- Technician (FTC holder, Minimum 3years in Civil works with minimum five completed Projects.
- 2 Site foremen -Minimum 5years experience in building works with minimum five projects supervised and completed.
- Land Surveyor with minimum 3 years’ Experience

Name of Tenderer

Position [#1]: [title of position]		
Personnel information	Name:	Date of birth:
	Address:	E-mail:
	Professional qualifications:	
	Academic qualifications:	
	Language proficiency: [language and levels of speaking, reading and writing skills]	
Details	Address of PE:	
	Telephone:	Contact (manager / personnel officer):
	Fax:	
	Job title:	Years with present PE:

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

Project	Role	Duration of involvement	Relevant experience
<i>[main project details]</i>	<i>[role and responsibilities on the project]</i>	<i>[time in role]</i>	<i>[describe the experience relevant to this position]</i>

Declaration

I, the undersigned *[insert either "Key Personnel" as applicable]*, certify that to the best of my knowledge and belief, the information contained in this Form PER-2 correctly describes myself, my qualifications and my experience.

I confirm that I am available as certified in the following table and throughout the expected time schedule for this position as provided in the Tender:

Commitment	Details
Commitment to duration of contract:	<i>[insert period (start and end dates) for which this Contractor's Representative or Key Personnel is available to work on this contract]</i>
Time commitment:	<i>[insert period (start and end dates) for which this Contractor's Representative or Key Personnel is available to work on this contract]</i>

I understand that any misrepresentation or omission in this Form may:

- (a) be taken into consideration during Tender evaluation;
- (b) result in my disqualification from participating in the Tender;
- (c) result in my dismissal from the contract.

Name of Contractor's Representative or Key Personnel: *[insert name]*

Signature: _____

Date: (day month year): _____

Countersignature of authorized representative of the Tenderer:

Signature: _____

Date: (day month year): _____

S/No.	Position [PE to list required key personnel]	Name	Years of Experience (General Experience) [PE to list required Years of Experience]	Years of experience in proposed position [PE to list Years of Experience]
1.				
2.				
3.				
n				

1.5 Subcontracting

Proposed sub-contractor and firms involved. Refer to ITT 3.11 and Clause 8 of General Conditions of Contract

S/No.	Sections of the Works	Value of subcontract	Subcontractor (name and address)	Experience in similar work
1.				
2.				
n-1				
n				

1.6 Average Annual Construction Turnover

Minimum average annual construction turnover of TZS [TZS. 500,000,000], calculated as total certified payments received for contracts in progress and/or completed within year 2022 and 2023, divided by 2 years.

Annual turnover data (construction only)			
Year	Amount Currency	Exchange Rate	TZS Equivalent
Year 2022			
Year 2023			
		Average Annual Construction Turnover□	

Support by attachment of audited financial statements

1.7 Financial Situation and Performance

Financial reports for the number of years [2022 and 2023]. Balance sheets, profit and loss statements

[List below and attach copies of audited financial statements]

The submitted financial reports must demonstrate the current soundness of the Tenderer's financial position and indicate its prospective long-term profitability.

1. Average Coefficient of Current Ratio ≥ 1.1
2. Average Coefficient of Debt Ratio ≤ 0.75
3. Average Coefficient of Interest Coverage Ratio ≥ 5.0
4. Debt Equity Ratio ≤ 1.5

Information in this table should be extracted from the financial reports submitted.

Type of Financial information in (TZS)	Historic information for previous (TZS equivalent)	
	2022	2023
Statement of Financial Position (Information from Balance Sheet)		
Total Assets (TA)		
Total Liabilities (TL)		
Total Equity/Net Worth (NW)		
Current Assets (CA)		
Current Liabilities (CL)		
Working Capital (WC)		
Information from Income Statement		
Total Revenue (TR)		
Profits Before Taxes (PBT)		
Cash Flow Information		
Cash Flow from Operating Activities		

1.8 Financial Capability

The Tenderer shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow requirements per the bid price

Specify proposed sources of financing, such as liquid assets, unencumbered real assets,

lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts.

Source of financing	Amount (TZS Equivalent)
1.	
2.	
3.	
4.	

- 1.9 Name, address, and telephone, telex, and facsimile numbers of banks that may provide references if contracted by the Employer.

1.10 Litigation History

Information on current litigation in which the Tenderer is involved.

S/No.	Other party(ies)	Cause of dispute	Amount involved
1.			
2.			

1.11 Occupation Health and Safety Policy

Information regarding Occupation Health and Safety Policy and Safety Record of the Tenderer

1.12 Proposed Work Programme

Proposed Program (work method and schedule). Descriptions, drawings, and charts, as necessary, to comply with the requirements of the tendering documents.

2. Joint Ventures

- 2.1 The information listed in 1.1 - 1.11 above shall be provided for each partner of the joint venture.
- 2.2 The information in 1.11 & 1.12 above shall be provided for the joint venture.

3. Letter of Acceptance

[letter head paper of the Employer]

[date]

To: *[name and address of the Contractor]*

This is to notify you that your tender dated [date] for execution of the [name of the Contract and identification number, as given in the Special Conditions of Contract] for the Contract Price of the equivalent of [amount in numbers and words] [name of currency], as corrected and modified in accordance with the Instructions to Tenderers is hereby accepted by us.

We hereby confirming [insert name of the Appointing Authority] to be the appointing authority, to appoint the Adjudicator in case of any arisen disputes in accordance with ITT 43.1.

You are hereby instructed to proceed with the execution of the said works in accordance with the Contract documents.

Please return the contract dully signed.

Authorized Signature: _____

Name and Title of Signatory: _____

Name of Agency: _____

Attachment: Form of Contract

SECTION X: FORMS OF SECURITIES

1. Tender Securing Declaration

Date: *[insert date (as day, month and year)]*

Tender No.: *[insert number of tendering process]*

Alternative No.: *[insert identification No if this is a Tender for an alternative]*

To: *[insert complete name of Procuring Entity]*

We, the undersigned, declare that:

We understand that, according to your conditions, tenders must be supported by a *[insert "Tender Securing Declaration" or "Tender Security" whichever was requested by Procuring Entity]*.

We accept that we will automatically be suspended from being eligible for tendering in any contract with the Procuring Entity for the period of time determined by the Authority, if we are in breach of our obligation(s) under the tender conditions, because we:

- (a) have withdrawn or modified our Tender during the period of tender validity specified in the Form of Tender;
- (b) disagreement to arithmetical correction made to the tender price; or
- (c) having been notified of the acceptance of our Tender by the Procuring Entity during the period of tender validity, (i) failure to sign the contract if required by Procuring Entity to do so or (ii) fail or refuse to furnish the Performance Security or to comply with any other condition precedent to signing the contract specified in the tendering documents.

We understand this *[insert "Tender Securing Declaration" or "Tender Security" whichever was requested by Procuring Entity]* shall expire if we are not the successful Tenderer, upon the earlier of (i) our receipt of your notification to us of the name of the successful Tenderer; or (ii) twenty-eight days after the expiration of our Tender.

Signed: *[insert signature of person whose name and capacity are shown]*

In the capacity of *[insert legal capacity of person signing the Tender Securing Declaration]*

Name: *[insert complete name of person signing the Tender Securing Declaration]*

Duly authorized to sign the tender for and on behalf of: *[insert complete name of Tenderer]*

Dated on _____ day of _____, _____ *[insert date of signing]*
Corporate Seal (where appropriate)

2. Performance Bank Guarantee [Unconditional]

[The **bank/successful tenderer** providing the Guarantee shall fill in this form in accordance with the instructions indicated in brackets, if the Employer requires this type of security.]

[insert bank's name, and address of issuing branch or office]

Beneficiary: *[insert name and address of Employer]* **Date:**

[insert date]

PERFORMANCE GUARANTEE No.: *[insert Performance Guarantee number]*

We have been informed that *[insert name of Contractor]* (hereinafter called "the Contractor") has been awarded a Contract No. *[Insert reference number of the Contract]* dated with you, for the execution of *[insert name of Contract 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 *[insert name of Bank]* 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]*), such sum being payable in the types and proportions of currencies in which the Contract Price is payable, 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 twenty-eight days from the date of issuance of the Taking-Over Certificate, calculated based on a copy of such Certificate which shall be provided to us, or on the *[insert number day of [insert month], [insert year]*, whichever occurs first. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

[signature(s) of an authorized representative(s) of the Bank]

3. Performance Bond

By this Bond, *[insert name and address of Contractor]* as Principal (hereinafter called "the Contractor") and *[insert name, legal title, and address of surety, bonding company, or insurance company]* as Surety (hereinafter called "the Surety"), are held and firmly bound unto *[insert name and address of Employer]* as Oblige (hereinafter called "the Employer") in the amount of *[insert amount of Bond]* *[insert amount of Bond in words]*, for the payment of which sum well and truly to be made in the types and proportions of currencies in which the Contract Price is payable, the Contractor and the Surety bind themselves, their heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

Whereas the Contractor has entered into a Contract with the Employer dated the *[insert number]* day of *[insert month]*, *[insert year]* for *[insert name of Contract]* in accordance with the documents, plans, specifications, and amendments thereto, which to the extent herein provided for, are by reference made part hereof and are hereinafter referred to as the Contract.

Now, therefore, the Condition of this Obligation is such that, if the Contractor shall promptly and faithfully perform the said Contract (including any amendments thereto), then this obligation shall be null and void; otherwise it shall remain in full force and effect. Whenever the Contractor shall be, and declared by the Employer to be, in default under the Contract, the Employer having performed the Employer's obligations there under, the Surety may promptly remedy the default, or shall promptly:

- (1) complete the Contract in accordance with its terms and conditions; or
- (2) obtain a Tender(s) from qualified tenderers for submission to the Employer for completing the Contract in accordance with its terms and conditions, and upon determination by the Employer and the Surety of the lowest responsive Tenderer, arrange for a Contract between such Tenderer and Employer and make available as work progresses (even though there should be a default or a succession of defaults under the Contract or Contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the Contract Price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "Balance of the Contract Price," as used in this paragraph, shall mean the total amount payable by the Employer to the Contractor under the Contract, less the amount properly paid by the Employer to the Contractor; or

- (3) pay the Employer the amount required by the Employer to complete the Contract in accordance with its terms and conditions up to a total not exceeding the amount of this Bond.

The Surety shall not be liable for a greater sum than the specified penalty of this Bond.

Any suit under this Bond must be instituted before the expiration of one year from the date of issuance of the Certificate of Completion.

No right of action shall accrue on this Bond to or for the use of any person or corporation other than the Employer named herein or the heirs, executors, administrators, successors, and assigns of the Employer.

In testimony whereof, the Contractor has hereunto set its hand and affixed its seal, and the Surety has caused these presents to be sealed with its corporate seal duly attested by the signature of its legal representative, this *[insert day]* day of *[insert month]*, *[insert year]*.

Signed by *[insert signature(s) of authorized representative(s)]*
on behalf of *[name of Contractor]* in the capacity of *[insert title(s)]*

In the presence of *[insert name and signature of witness]*
Date *[insert date]*

Signed by *[insert signature(s) of authorized representative(s) of Surety]*
on behalf of *[name of Surety]* in the capacity of *[insert title(s)]*

In the presence of *[insert name and signature of witness]*
Date *[insert date]*

4. Bank Guarantee for Advance Payment

[Bank's Name, and Address of Issuing Branch or Office]

Beneficiary: _____ [Name and Address of Employer]

Date: _____

ADVANCE PAYMENT GUARANTEE No.: _____

We have been informed that [name of Contractor] (hereinafter called "the Contractor") has been awarded Contract No. [reference number of the contract] dated _____ with you, for the execution of [name of contract and brief description of Works] (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 Bank] 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 under the Contract because the Contractor used the advance payment for purposes other than the costs of mobilization in respect of the Works.

It is a condition for any claim and payment under this guarantee to be made that the advance payment referred to above must have been received by the Contractor on its account number _____ at _____ [name and address of Bank].

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Contractor as indicated in copies of interim statements or payment certificates which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the interim payment certificate indicating that eighty (80) percent of the Contract Price has been certified for payment, or on the ___ day of , 2_, whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

Yours truly,

Signature and seal: _____

Name of Bank/Financial Institution: _____

Address: _____

Date: _____

SECTION XI: INTEGRITY

Each Tenderer must submit a statement, as part of the tender documents, with either of the following format

MEMORANDUM (Format 1)

(Regulation 78(2) of the Public Procurement Regulations, 2013 - Government Notice No. 446 of 2013 as amended in 2016.)

This company _____ *[name of company]* places importance on competitive tendering taking place on a basis that is free, fair, competitive and not open to abuse. It is pleased to confirm that it will not offer or facilitate, directly or indirectly, any improper inducement or reward to any public officer their relations or business associates, in connection with its tender, or in the subsequent performance of the contract if it is successful.

This company has an Anti-Bribery Policy/Code of Conduct and a Compliance Program which includes all reasonable steps necessary to assure that the No-bribery commitment given in this statement will be complied with by its managers and employees, as well as by all third parties working with this company on the public sector projects, or contract including agents, consultants, consortium partners, sub- contractors and suppliers. Copies of our Anti-Bribery Policy/Code of Conduct and Compliance Program are attached.

Authorized Signature: _____

Name and Title of Signatory: _____

Name of Tenderer: _____

Address: _____

