NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD

PROPOSED PARTITIONING AND INTERIOR FIT OUT OF 7TH FLOOR AND ALTERATIONS TO 5TH AND 6TH FLOORS UKULIMA COOPERATIVE BUILDING

FOR

NG-CDF BOARD

TENDER NO: NG-CDFB/T/017/2023/2024

TENDER DOCUMENTS

MAY 2024

Table of Contents

INVITATION TO TENDER v

PART 1: TENDERING PROCEDURES vii

SECTION I - INSTRUCTION TO TENDERERS 8

A. GENERAL PROVISIONS 8

1. Scope of Tender 8

2. Fraud and Corruption 8

3. Eligible Tenderers 8

4. Eligible Goods, Equipment and Services 11

5. Tenderer's Responsibilities 11

B. CONTENTS OF TENDER DOCUMENTS 11

6. Sections of Tender Document 11

7. Clarification of Tender Document, Site Visit, Pre-Tender Meeting 12

8. Amendment of Tender Documents 13

C. PREPARATION OF TENDERS 13

9. Cost of Tendering 13

10. Language of Tender 13

11. Documents Comprising the Tender 13

12. Form of Tender and Schedules 14

13. Alternative Tenders 14

14. Tender Prices and Discounts 14

15. Currencies of Tender and Payment 15

16. Documents Comprising the Technical Proposal 15

17. Documents Establishing the Eligibility and Qualifications of the Tenderer 15

18. Period of Validity of Tenders 17

19. Tender Security 17

20. Format and Signing of Tender 18

D. SUBMISSION AND OPENING OF TENDERS 18

21. Sealing and Marking of Tenders 18

22. Deadline for Submission of Tenders 19

23. Late Tenders 19

24. Withdrawal, Substitution and Modification of Tenders 19

25. Tender Opening 20

E. EVALUATION AND COMPARISON OF TENDERS 21

26. Confidentiality 21
27. Clarification of Tenders 21
28. Deviations, Reservations and Omissions 21
29. Determination of Responsiveness 21
30. Non-Material and Non-Conformities 22
31. Arithmetic Errors 22
32. Conversion to Single Currency 22
33. Margin of Preference and Reservations 22
34. Nominated Subcontractors 23
35. Evaluation of Tenders 23
36. Comparison of Tenders 24
37. Abnormally Low Tenders and Abnormally High Tenders 24
38. Unbalanced and/or Front-Loaded Tenders 24
39. Qualifications of the Tenderer 25
40. Lowest Evaluated Tender 25
41. Procuring Entity's Right to Accept Any Tender and To Reject Any or all Tenders 25
F. AWARD OF CONTRACT 25
42. Award Criteria 25
43. Notice of Intention to Enter into a Contract 25
44. Standstill Period 26
45. Debriefing by The Procuring Entity 26
46. Letter of Award 26
47. Signing of Contract 26
48. Performance Security 26
49. Publication of Procurement Contract 27
50. Procurement Related Complaint 27
Section II - Tender Data Sheet (TDS) 27
SECTION III – EVALUATION AND QUALIFICATION CRITERIA 30
1. GENERAL PROVISIONS 30
2. PRELIMINARY EXAMINATION FOR DETERMINATION OF RESPONSIVENESS 30
3. TENDER EVALUATION (ITT 35) 35
4. MULTIPLE CONTRACTS 35
1. TENDERERS QUALIFICATION WITHOUT PREQUALIFICATION 37
1. FORM OF TENDER 42

a) **TENDERER'S ELIGIBILITY - CONFIDENTIAL BUSINESS QUESTIONNAIRE** 45

b) **CERTIFICATE OF INDEPENDENT TENDER DETERMINATION** 48

d) **APPENDIX 1 - FRAUD AND CORRUPTION** 52

2. FORM OF TENDER SECURITY-DEMAND BANK GUARANTEE 54

3. FORM OF TENDER SECURITY (TENDER BOND) 55

4. FORM OF TENDER - SECURING DECLARATION 56

PART II - WORKS REQUIREMENTS 58

PART III - THE CONDITIONS OF CONTRACT AND CONTRACT 59

1. TERMINATION BY PROCURING ENTITY 60

2. SUSPENSION AND TERMINATION BY CONTRACTOR 62

3. RISK AND RESPONSIBILITY 63

Section IX - Special Conditions of Contract 64

SECTION X - CONTRACT FORMS 66

FORM No 1: NOTIFICATION OF INTENTION TO AWARD OF CONTRACT 67

FORM NO 2: LETTER OF AWARD 70

FORM NO 3: CONTRACT AGREEMENT 70

FORM NO. 4 - PERFORMANCE SECURITY 71

FORM No. 5- PERFORMANCE SECURITY 72

FORM NO. 6 - ADVANCE PAYMENT SECURITY 74

INVITATION TO TENDER

PROCURING ENTITY: NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD

Harambee Sacco Building, Haile Selassie Avenue; P.O Box 46682 - 00100. Nairobi, Kenya

CONTRACT NAME AND DESCRIPTION; PROPOSED PARTITIONING AND INTERIOR FIT OUT OF 7TH FLOOR AND ALTERATIONS TO 5TH AND 6TH FLOORS AT UKULIMA COOPERATIVE BUILDING.

TENDER NO: NG-CDFB/T/017/2023/2024

The NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT BOARD invites sealed tenders for PROPOSED PARTITIONING AND INTERIOR FIT OUT OF 7TH FLOOR AND ALTERATIONS TO 5TH AND 6TH FLOORS AT UKULIMA COOPERATIVE BUILDING.

Tendering will be conducted under Open tendering method using a standardized tender document and is open to all interested Tenderers. Tenderers will be allowed to tender for one

1. Qualified and interested tenderers may obtain further information and inspect the Tender Documents during office hours *0800 to 1700* at the address given below.

2. A complete set of tender documents may be obtained and inspected for free and tender documents

3. The Tenderer shall chronologically serialize all pages of the tender documents submitted.

4. Completed tenders must be delivered to the address below on or before **6th June, *2024*** *not later than* ***10.00am***. Electronic Tenders *will not* be permitted.

5. Tenders will be opened immediately after the deadline date and time specified above or any deadline date and time specified later. Tenders will be publicly opened in the presence of the Tenderers' designated representatives who choose to attend at the address below.

6. Late tenders will be rejected.

7. The addresses referred to above are:

A. **Address for obtaining further information and for purchasing tender documents**

1) **NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT BOARD**

2) P.O Box 46682- 00100 Nairobi, Chief Executive Officer

3) Harambee Sacco Building, Haile Selassie Building Haile Selassie Avenue, 10th floor

4) Chief Executive Officer, 254 709 894000;

B. Address for Submission of Tenders.

1) NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD

2) P.O Box 46682- 00100 Nairobi, Chief Executive Officer

3) Harambee Sacco Building, Haile Selassie Building Haile Selassie Avenue, 10th floor

C. Address for Opening of Tenders.

1) NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT BOARD

2) Harambee Sacco Building, Haile Selassie Building Haile Selassie Avenue, 10th floor.

Chief Executive Officer,
NG-CDF Board,

Date: 30th May, 2024

PART 1: TENDERING PROCEDURES

SECTION I - INSTRUCTION TO TENDERERS

Note: The tenderer must comply with the following conditions and instructions and failure to do so is liable to result in rejection of the tender.

A. GENERAL PROVISIONS

1. Scope of Tender

1. The Procuring Entity as defined in the Appendix to Conditions of Contract invites tenders for Works Contract as described in the tender documents. The name, identification, and number of lots (contracts) of this Tender Document are specified in the TDS.

2. Throughout this tendering document:
   1.2.1 The term "in writing" means communicated in written form (e.g., by mail, e-mail, fax, including if specified in the TDS, distributed or received through the electronic-procurement system used by the Procuring Entity) with proof of receipt;
   1.2.2 if the context so requires, "singular" means "plural" and vice versa;
   1.2.3 "Day" means calendar day, unless otherwise specified as "Business Day". A Business Day is any day that is an official working day of the Procuring Entity. It excludes official public holidays.

2. Fraud and Corruption

3. The Procuring Entity requires compliance with the provisions of the Public Procurement and Asset Disposal Act, 2015, Section 62 "Declaration not to engage in corruption". The tender submitted by a person shall include a declaration that the person shall not engage in any corrupt or fraudulent practice and a declaration that the person or his or her sub-contractors are not debarred from participating in public procurement proceedings.

4. The Procuring Entity requires compliance with the provisions of the Competition Act 2010, regarding collusive practices in contracting. Any tenderer found to have engaged in collusive conduct shall be disqualified and criminal and/or civil sanctions may be imposed. To this effect, Tenders shall be required to complete and sign the "Certificate of Independent Tender Determination" annexed to the Form of Tender.

5. Tenderers shall permit and shall cause their agents (whether declared or not), subcontractors, sub-consultants, service providers, suppliers, and their personnel, to permit the Procuring Entity to inspect all accounts, records and other documents relating to any initial selection process, pre-qualification process, tender submission, proposal submission, and contract performance (in the case of award), and to have them audited by auditors appointed by the Procuring Entity.

6. Unfair Competitive Advantage - Fairness and transparency in the tender process require that the firms or their Affiliates competing for a specific assignment do not derive a competitive advantage from having provided consulting services related to this tender. To that end, the Procuring Entity shall indicate in the **Data Sheet** and make available to all the firms together with this tender document all in formation that would in that respect give such firm any unfair competitive advantage over competing firms

3. Eligible Tenderers

a. A Tenderer may be a firm that is a private entity, a state-owned enterprise or institution subject to ITT 3.8, or an individual or any combination of such entities in the form of a joint venture (JV)

b. under an existing agree mentor with the intent to enter in to such an agreement supported by a letter of intent. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms. The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the tendering process and, in the event the JV is awarded the Contract, during contract execution. Members of a joint venture may not also make an individual tender, be a subcontractor in a separate tender or be part of another joint venture for the purposes of the same Tender. The maximum number of JV members shall be specified in the TDS.

c. Public Officers of the Procuring Entity, their Spouses, Child, Parent, Brothers or Sister. Child, Parent, Brother or Sister of a Spouse, their business associates or agents and firms/organizations in which they have a substantial or controlling interest shall not be eligible to tender or be awarded a contract. Public Officers are also not allowed to participate in any procurement proceedings.

d. A Tenderer shall not have a conflict of interest. Any tenderer found to have a conflict of interest shall be disqualified. A tenderer may be considered to have a conflict of interest for the purpose of this tendering process, if the tenderer:

    a. Directly or indirectly controls, is controlled by or is under common control with another tenderer;
    b. Receives or has received any direct or indirect subsidy from another tenderer;
    c. Has the same legal representative as another tenderer;
    d. Has a relationship with another tenderer, directly or through common third parties, that puts it in a position to influence the tender of another tenderer, or influence the decisions of the Procuring Entity regarding this tendering process;
    e. Any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the goods or works that are the subject of the tender;
    f. Any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity as a consultant for Contract implementation;
    g. Would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the contract specified in this Tender Document;
    h. Has a close business or personal relationship with senior management or professional staff of the Procuring Entity who has the ability to influence the bidding process and:
    i. Are directly or indirectly involved in the preparation of the Tender document or specifications of the Contract, and/or the Tender evaluation process of such contract; or
    ii. May be involved in the implementation or supervision of such Contract unless the conflicts teeming from such relationship has been resolved in a manner acceptable to the Procuring Entity throughout the tendering process and execution of the Contract.

e. A tenderer shall not be involved in corrupt, coercive, obstructive or fraudulent practice. A tenderer that is proven to have been involved in any of these practices shall be automatically disqualified

f. A Tenderer (either individually or as a JV member) shall not participate in more than one Tender, except for permitted alternative tenders. This includes participation as a subcontractor in other Tenders. Such participation shall result in the disqualification of all Tenders in which the firm is involved. Members of a joint venture may not also make an individual tender, be a sub-contractor

g. in a separate tender or be part of another joint venture for the purposes of the same Tender. A firm that is not a tenderer or a JV member may participate as a subcontractor in more than one tender.

h. A Tenderer may have the nationality of any country, subject to the restrictions pursuant to ITT3.9. A Tenderer shall be deemed to have the nationality of a country if the Tenderer is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed sub-contractors or sub-consultants for any part of the Contract including related Services.

i. A Tenderer that has been debarred from participating in public procurement shall be ineligible to tender or be awarded a contract. The list of debarred firms and individuals is available from the website of PPRA www.ppra.go.ke.

j. A Tenderer that is a state-owned enterprise or a public institution in Kenya may be eligible to tender and be awarded Contract(s) only if it is determined by the Procuring Entity to meet the following conditions, i.e., if it is:
   i. A legal public entity of Government and/or public administration,
   ii. Financially autonomous and not receiving any significant subsidies or budget support from any public entity or Government, and;
   iii. Operating under commercial law and vested with legal rights and liabilities similar to any commercial enterprise to enable it compete with firms in the private sector on an equal basis.

k. Firms and individuals shall be ineligible if their countries of origin are:
   a. As a matter of law or official regulations, Kenya prohibits commercial relations with that country;
   b. By an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, Kenya prohibits any import of goods or contracting of works or services from that country, or any payments to any country, person, or entity in that country.

A tenderer shall provide such documentary evidence of eligibility satisfactory to the Procuring Entity, as the Procuring Entity shall reasonably request.

l. Foreign tenderers are required to source at least forty (40%) percent of their contract inputs (in supplies, local sub-contracts and labour) from citizen suppliers and contractors. To this end, a foreign tenderer shall provide in its tender documentary evidence that this requirement is met. Foreign tenderers not meeting this criterion will be automatically disqualified. Information required to enable the Procuring Entity determine if this condition is met shall be provided for this purpose in "SECTIONI II - EVALUATION AND QUALIFICATION CRITERIA, Item 9".

m. Pursuant to the eligibility requirements of ITT 3.10, a tender is considered a foreign tenderer, If it is registered in Kenya and has less than 51 percent ownership by nationals of Kenya and if it does not subcontract to foreign firms or individuals more than 10 percent of the contract price, excluding provisional sums. JVs are considered as foreign tenderers if the individual member firms registered in Kenya have less 51 percent ownership by nationals of Kenya. The JV shall not subcontract to foreign firms more than 10 percent of the contract price, excluding provisional sums.

n. The National Construction Authority Act of Kenya requires that all local and foreign contractors be registered with the National Construction Authority and be issued with a Registration

o. Certificate before they can undertake any construction works in Kenya. Registration shall not be a condition for tender, but it shall be a condition of contract award and signature. A selected tenderer shall be given opportunity to register before such award and signature of contract. Application for registration with National Construction Authority may be accessed from the website www.nca.go.ke.

p. The Competition Act of Kenya requires that firms wishing to tender as Joint Venture undertakings which may prevent, distort or lessen competition in provision of services are prohibited unless they are exempt in accordance with the provisions of Section 25 of the Competition Act, 2010. JVs will be required to seek for exemption from the Competition Authority. Exemption shall not be a condition for tender, but it shall be a condition of contract award and signature. A JV tenderer shall be given opportunity to seek such exemption as a condition of award and signature of contract. Application for exemption from the Competition Authority of Kenya may be accessed from the website www.cak.go.ke.

q. A Kenyan tenderer shall be eligible to tender if it provides evidence of having fulfilled his/her tax obligations by producing valid tax compliance certificate or tax exemption certificate issued by the Kenya Revenue Authority.

4. Eligible Goods, Equipment and Services

a. Goods, equipment and services to be supplied under the Contract may have their origin in any country that is not ineligible under ITT 3.9. At the Procuring Entity's request, Tenderers may be required to provide evidence of the origin of Goods, equipment and services.

b. Any goods, works and production processes with characteristics that have been declared by the relevant national environmental protection agency or by other competent authority as harmful to human beings and to the environment shall not be eligible for procurement

5. Tenderer's Responsibilities

a. The tenderer shall bear all costs associated with the preparation and submission of his/her tender, and the Procuring Entity will in no case be responsible or liable for those costs.

b. The tenderer, at the tenderer's own responsibility and risk, is encouraged to visit and examine and inspect the Site of the Works and its surroundings and obtain all 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 beat the tenderer's own expense.

c. The Tenderer and any of its personnel or agents will be granted permission by the Procuring Entity to enter upon its premises and lands for the purpose of such visit. The Tenderer shall indemnify the Procuring Entity again stall liability arising from death or personal injury, loss of or damage to property, and any other losses and expenses incurred as a result of the examination and inspection

d. The Tenderer shall provide in the Form of Tender and Qualification Information, a preliminary description of the proposed work method and schedule, including charts as necessary or required.

B. CONTENTS OF TENDER DOCUMENTS

6. Sections of Tender Document

a. The tender document consists of Parts 1, 2, and 3, which includes all the sections specified below, and which should be read in conjunction with any Addenda issued in accordance with ITT 10.

PART 1: Tendering Procedures
Section I – Instructions to Tenderers

Section II – Tender Data Sheet (TDS)
Section III- Evaluation and Qualification Criteria
Section IV – Tendering Forms

PART 2: Works' Requirements
Section V - Bills of Quantities
Section VI - Specifications
Section VII – Drawings

PART 3: Conditions of Contract and Contract Forms
Section VIII - General Conditions (GCC)
Section IX - Special Conditions of Contract
Section X- Contract Forms

b. The Invitation to Tender Notice issued by the Procuring Entity is not part of the Contract documents. Unless obtained directly from the Procuring Entity, the Procuring Entity is not responsible for the completeness of the Tender document, responses to requests for clarification, the minutes of a pre-arranged site visit and those of the pre-Tender meeting (if any), or Addenda to the Tender document in accordance with ITT 10. In case of any contradiction, documents obtained directly from the Procuring Entity shall prevail.

c. The Tenderer is expected to examine all instructions, forms, terms, and specifications in the Tender Document and to furnish with its Tender all information and documentation as is required by the Tender document.

7. Clarification of Tender Document, Site Visit, Pre-Tender Meeting

a. A Tenderer requiring any clarification of the Tender Document shall contact the Procuring Entity in writing at the Procuring Entity's address specified in the TDS or raise its enquiries during the pre-Tender meeting if provided for in accordance with ITT 7.2. The Procuring Entity will respond in writing to any request for clarification, provided that such request is received no later than the period specified in the TDS prior to the deadline for submission of tenders. The Procuring Entity shall forward copies of its response to all tenderers who have acquired the Tender documents in accordance with ITT 7.4, including a description of the inquiry but without identifying its source. If so specified in the TDS, the Procuring Entity shall also promptly publish its response at the web page identified in the TDS. Should the clarification result in changes to the essential elements of the Tender Documents, the Procuring Entity shall amend the Tender Documents following the procedure under ITT 8 and ITT 22.2.

b. The Tenderer, at the Tenderer's own responsibility and risk, is encouraged to visit and examine and inspect the site(s) of the required contracts and obtain all information that may be necessary for preparing a tender. The costs of visiting the Site shall be at the Tenderer's own expense. The Procuring Entity shall specify in the TDS if a pre-arranged Site visit and or a pre-tender meeting will be held, when and where. The Tenderer's designated representative is invited to attend a pre-arranged site visit and a pre-tender meeting, as the case may be. The purpose of the site visit and the pre-tender meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.

c. The Tenderer is requested to submit any questions in writing, to reach the Procuring Entity not later than the period specified in the TDS before the meeting.

d. Minutes of a pre-arranged site visit and those of the pre-tender meeting, if applicable, including the text of the questions asked by Tenderers and the responses given, together with any responses

e. prepared after the meeting, will be transmitted promptly to all Tenderers who have acquired the Tender Documents. Minutes shall not identify the source of the questions asked.

f. The Procuring Entity shall also promptly publish anonymized (no names) Minutes of the pre-arranged site visit and those of the pre-tender meeting at the web page identified in the TDS. Any modification to the Tender Documents that may become necessary as a result of the pre-arranged site visit and those of the pre-tender meeting shall be made by the Procuring Entity exclusively through the issue of an Addendum pursuant to ITT 8 and not through the minutes of the pre-Tender meeting. Non-attendance at the pre-arranged site visit and the pre-tender meeting will not be a cause for disqualification of a Tenderer.

8. Amendment of Tender Documents

a. At any time prior to the deadline for submission of Tenders, the Procuring Entity may amend the Tender Documents by issuing addenda.

b. Any addendum issued shall be part of the Tender Documents and shall be communicated in writing to all who have obtained the Tender Documents from the Procuring Entity. The Procuring Entity shall also promptly publish the addendum on the Procuring Entity's website in accordance with ITT 7.5.

c. To give Tenderers reasonable time in which to take an addendum into account in preparing their Tenders, the Procuring Entity should extend the dead line for the submission of Tenders, pursuant to ITT 22.2.

C. PREPARATION OF TENDERS

9. Cost of Tendering

The Tenderer shall bear all costs associated with the preparation and submission of its Tender, and the Procuring Entity shall not be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.

10. Language of Tender

The Tender, as well as all correspondence and documents relating to the tender exchanged by the tenderer and the Procuring Entity, shall be written in the English Language. Supporting documents and printed literature that are part of the Tender may be in another language provided they are accompanied by an accurate and notarized translation of the relevant passages into the English Language**,** in which case, for purposes of interpretation of the Tender, such translation shall govern.

11. Documents Comprising the Tender

a. The Tender shall comprise the following:
a. Form of Tender prepared in accordance with ITT 12;
b. Schedules including priced Bill of Quantities, completed in accordance with ITT 12 and ITT 14;
c. Tender Security or Tender-Securing Declaration, in accordance with ITT 19.1;
d. Alternative Tender, if permissible, in accordance with ITT 13;
e. ***Authorization****:* written confirmation authorizing the signatory of the Tender to commit the Tenderer, in accordance with ITT20.3;
f. *Qualifications:* documentary evidence in accordance with ITT 17 establishing the Tenderer's qualifications to perform the Contract if its Tender is accepted;
g. *Conformity:* a technical proposal in accordance with ITT 16;
h. Any other document required in the **TDS**

b. In addition to the requirements under ITT 11.1, Tenders submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute

a Joint Venture Agreement in the event of a successful Tender shall be signed by all members and submitted with the Tender, together with a copy of the proposed JV Agreement. Change of membership and conditions of the JV prior to contract signature will render the tender liable for disqualification.

12. Form of Tender and Schedules

a. The Form of Tender and Schedules, including the Bill of Quantities, shall be prepared using the relevant forms furnished in Section IV, Tendering Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITT 20.3. All blank spaces shall be filled in with the information requested. The Tenderer shall chronologically serialize all pages of the tender documents submitted.

b. The Tenderer shall furnish in the Form of Tender information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Tender.

13. Alternative Tenders

a. Unless otherwise specified in the TDS, alternative Tenders shall not be considered.

b. When alternative times for completion are explicitly invited, a statement to that effect will be included in the **TDS**, and the method of evaluating different alternative times for completion will be described in Section III, Evaluation and Qualification Criteria.

c. Except as provided under ITT 13.4 below, Tenderers wishing to offer technical alternatives to the requirements of the Tender Documents must first price the Procuring Entity's design as described in the Tender Documents and shall further provide all information necessary for a complete evaluation of the alternative by the Procuring Entity, including drawings, design calculations, technical specifications, breakdown of prices, and proposed construction methodology and other relevant details. Only the technical alternatives, if any, of the Tenderer with the Winning Tender conforming to the basic technical requirements shall be considered by the Procuring Entity.

d. When specified in the **TDS**, Tenderers are permitted to submit alternative technical solutions for specified parts of the Works, and such parts will be identified in the **TDS**, as will the method for their evaluating, and described in Section VII, Works' Requirements.

14. Tender Prices and Discounts

a. The prices and discounts (including any price reduction) quoted by the Tenderer in the Form of Tender and in the Bill of Quantities shall conform to the requirements specified below.

b. The Tenderer shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items against which no rate or price is entered by the Tenderer shall be deemed covered by the rates for other items in the Bill of Quantities and will not be paid for separately by the Procuring Entity. An item not listed in the priced Bill of Quantities shall be assumed to be not included in the Tender, and provided that the Tender is determined substantially responsive notwithstanding this omission, the average price of the item quoted by substantially responsive Tenderers will be added to the Tender price and the equivalent total cost of the Tender so determined will be used for price comparison.

c. The price to be quoted in the Form of Tender, in accordance with ITT 12.1, shall be the total price of the Tender, including any discounts offered.

d. The Tenderer shall quote any discounts and the methodology for their application in the Form of Tender, in accordance with ITT 12.1.

e. It will be specified in the TDS if the rates and prices quoted by the Tenderer are or are not subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract, except in cases where the contract is subject to fluctuations and adjustments, not fixed price. In such a case, the Tenderer shall furnish the indices and weightings for the price adjustment formulae in the Schedule of Adjustment Data and the Procuring Entity may require the Tenderer to justify its proposed indices and weightings.

f. Where tenders are being invited for individual lots (contracts)or for any combination of lots (packages), tenderers wishing to offer discounts for the award of more than one Contract shall specify in their Tender the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Discounts shall be submitted in accordance with ITT 14.4, provided the Tenders for all lots (contracts) are opened at the same time.

g. All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date 30 days prior to the deadline for submission of Tenders, shall be included in the rates and prices and the total Tender Price submitted by the Tenderer

15. Currencies of Tender and Payment

a. The currency(ies) of the Tender and the currency(ies) of payments shall be the same**.**

b. Tenderers shall quote entirely in Kenya Shillings. The unit rates and the prices shall be quoted by the Tenderer in the Bill of Quantities, entirely in Kenya shillings.

a. A Tenderer expecting to incur expenditures in other currencies for inputs to the Works supplied from outside Kenya (referred to as "the foreign currency requirements") shall (if so, allowed in the **TDS**) indicate in the Appendix to Tender the percentage(s) of the Tender Price (excluding Provisional Sums), needed by the Tenderer for the payment of such foreign currency requirements, limited to no more than two foreign currencies.

b. The rates of exchange to be used by the Tenderer in arriving at the local currency equivalent and the percentage(s) mentioned in (a) above shall be specified by the Tenderer in the Appendix to Tender and shall be based on the exchange rate provided by the Central Bank of Kenya on the date 30 days prior to the actual date

of tender opening. Such exchange rate shall apply for all foreign payments under the Contract.

c. Tenderers may be required by the Procuring Entity to justify, to the Procuring Entity's satisfaction, their local and foreign currency requirements, and to substantiate that the amounts included in the unit rates and prices and shown in the Schedule of Adjustment Data in the Appendix to Tender are reasonable, in which case a detailed breakdown of the foreign currency requirements shall be provided by Tenderers.

16. Documents Comprising the Technical Proposal

The Tenderer shall furnish a technical proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in Section IV, Tender Forms, insufficient detail to demonstrate the adequacy of the Tenderer's proposal to meet the work's requirements and the completion time.

17. Documents Establishing the Eligibility and Qualifications of the Tenderer

a. Tenderers shall complete the Form of Tender, included in Section IV, Tender Forms, to establish Tenderer's eligibility in accordance with ITT 4.

b. In accordance with Section III, Evaluation and Qualification Criteria, to establish its

qualifications to perform the Contract the Tenderer shall provide the information requested in the corresponding information sheets included in Section IV, Tender Forms.

c. If a margin of preference applies as specified in accordance with ITT 33.1, nation al tenderers, individually or in joint ventures, applying for eligibility for national preference shall supply all information required to satisfy the criteria for eligibility specified in accordance with ITT 33.1.

d. Tenderers shall be asked to provide, as part of the data for qualification, such information, including details of ownership, as shall be required to determine whether, according to the classification established by the Procuring Entity, a particular contractor or group of contractors qualifies for a margin of preference. Further the information will enable the Procuring Entity identify any actual or potential conflict of interest in relation to the procurement and/or contract management processes, or a possibility of collusion between tenderers, and thereby help to prevent any corrupt influence in relation to the procurement process or contract management.

e. The purpose of the information described **in ITT 17.4** above overrides any claims to confidentiality which a tenderer may have. There can be no circumstances in which it would be justified for a tenderer to keep information relating to its ownership and control confidential where it is tendering to undertake public sector work and receive public sector funds. Thus, confidentiality will not be accepted by the Procuring Entity as a justification for a Tenderer's failure to disclose, or failure to provide required information on its ownership and control.

f. The Tenderer shall provide further documentary proof, information or authorizations that the Procuring Entity may request in relation to owner ship and control which in formation on any changes to the information which was provided by the tenderer under ITT 6.4. The obligations to require this information shall continue for the duration of the procurement process and contract performance and after completion of the contract, if any change to the information previously provided may reveal a conflict of interest

in relation to the award or management of the contract

g. All information provided by the tenderer, pursuant to these requirements must be complete, current and accurate as at the date of provision to the Procuring Entity. In submitting the information required pursuant to these requirements, the Tenderer shall warrant that the information submitted is complete, current and accurate as at the date of submission to the Procuring Entity.

h. If a tenderer fails to submit the information required by these requirements, its tender will be rejected. Similarly, if the Procuring Entity is unable, after taking reasonable steps, to verify to a reasonable degree the information submitted by a tenderer, pursuant to these requirements, then the tender will be rejected.

i. If information submitted by a tenderer, pursuant to these requirements, or obtained by the Procuring Entity (whether through its own enquiries, through notification by the public or otherwise), shows any conflict of interest which could materially and improperly benefit the tenderer in relation to the procurement or contract management process, then:
   a. If the procurement process is still ongoing, the tenderer will bed is qualified from the procurement process,
   b. if the contract has been awarded to that tenderer, the contract award will be set as depending the outcome of (iii),
   c. the tenderer will be referred to the relevant law enforcement authorities for investigation of whether the tenderer or any other person shave committed any criminal offence.

j. If a tenderer submits information pursuant to these requirements that is in complete, in

accurate or out-of-date, or attempts to obstruct the verification process, then the consequences ITT 17.8 will ensue unless the tenderer can show to the reasonable satisfaction of the Procuring Entity that any such act was not material, or was due to genuine error which was not attributable to the intentional act, negligence or recklessness of the tender

18. Period of Validity of Tenders

a. Tenders shall remain valid for the Tender Validity period specified in the TDS. The Tender Validity period starts from the date fixed for the Tender submission deadline (as prescribed by the Procuring Entity in accordance with ITT 22). At ender valid for a shorter period shall be rejected by the Procuring Entity as non-responsive.

b. In exceptional circumstances, prior to the expiration of the Tender validity period, the Procuring Entity may request Tenderers to extend the period of validity of their Tenders. The request and the responses shall be made in writing. If a Tender Security is requested in accordance with ITT 19, it shall also be extended for thirty (30) days beyond the deadline of the extended validity period. A Tenderer may refuse the request without forfeiting its Tender security. A Tenderer granting the request shall not be required or permitted to modify its Tender

19. Tender Security

a. The Tenderer shall furnish as part of its Tender, either a Tender-Securing Declaration or a Tender Security as specified in the **TDS**, in original form and, in the case of a Tender Security, in the amount and currency **specified** in the **TDS**. A Tender-Securing Declaration shall use the form included in Section IV, Tender Forms.

b. If a Tender Security is specified pursuant to ITT 19.1, the Tender Security shall be a demand guarantee in any of the following forms at the Tenderer's option:
   I) cash;
   ii) a bank guarantee;
   iii) a guarantee by an insurance company registered and licensed by the Insurance Regulatory Authority listed by the Authority;
   (iii) a guarantee issued by a financial institution approved and licensed by the Central Bank of Kenya, from a reputable source, and an eligible country.

c. If an unconditional bank guarantee is issued by a bank located outside Kenya, the issuing bank shall have a correspondent bank located in Kenya to make it enforceable. The Tender Security shall be valid for thirty (30) days beyond the original validity period of the Tender, or beyond any period of extension if requested under ITT 18.2.

d. If a Tender Security or Tender-Securing Declaration is specified pursuant to ITT 19.1, any Tender not accompanied by a substantially responsive Tender Security or Tender-Securing Declaration shall be rejected by the Procuring Entity as non-responsive.

e. If a Tender Security is specified pursuant to ITT 19.1, the Tender Security of unsuccessful Tenderers shall be returned as promptly as possible upon the successful Tenderer's signing the Contract and furnishing the Performance Security and any other documents required in the TDS. The Procuring Entity shall also promptly return the tender security to the tenderers where the procurement proceedings are terminated, all tenders were determined non-responsive or a bidder declines to extend tender validity period.

f. The Tender Security of the successful Tenderer shall be returned as promptly as possible once the successful Tenderer has signed the Contract and furnished the required Performance Security, and any other documents required in the TDS.

g. The Tender Security may be forfeited or the Tender-Securing Declaration executed:
   a) if a Tenderer withdraws its Tender during the period of Tender validity specified by the Tenderer on the Form of Tender, or any extension there to provide by the Tenderer; or
   b) if the successful Tenderer fails to: -
      i) sign the Contract in accordance with ITT47; or
      ii) furnish a Performance Security and if required in the TDS, and any other documents required in the TDS.

h. Where tender securing declaration is executed, the Procuring Entity shall recommend to the PPRA to debars the Tenderer from participating in public procurement as provided in the law.

i. The Tender Security or the Tender-Securing Declaration of a JV shall be in the name of the JV that submits the Tender. If the JV has not been legally constituted into a legally enforceable JV at the time of tendering, the Tender Security or the Tender-Securing Declaration shall be in the names of all future members as named in the letter of intent referred to in ITT 4.1 and ITT 11.2.

j. A tenderer shall not issue a tender security to guarantee itself.

20. Format and Signing of Tender

a. The Tenderer shall prepare one original of the documents comprising the Tender as described in ITT 11 and clearly mark it "ORIGINAL." Alternative Tenders, if permitted in accordance with ITT 13, shall be clearly marked "ALTERNATIVE." In addition, the Tenderer shall submit copies of the Tender, in the number specified in the **TDS** and clearly mark them "COPY." In the event of any discrepancy between the original and the copies, the original shall prevail.

b. Tenderers shall mark as "CONFIDENTIAL" all information in their Tenders which is confidential to their business. This may include proprietary information, trade secrets, or commercial or financially sensitive information.

c. The original and all copies of the Tender shall be typed or written in indelible ink and shall be signed by a person 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 where entries or amendments have been made shall be signed or initialled by the person signing the Tender.

d. In case the Tenderer is a JV, the Tender shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.

e. Any inter-lineation, erasures, or overwriting shall be valid only if they are signed or initialled by the person signing the Tender.

D. SUBMISSION AND OPENING OF TENDERS

21. Sealing and Marking of Tenders

a. The Tenderer shall deliver the Tender in a single sealed envelope, or in a single sealed package, or in a single sealed container bearing the name and Reference number of the Tender, addressed to the Procuring Entity and a warning not to open before the time and

date for Tender opening date. Within the single envelope, package or container, the Tenderer shall place the following separate, sealed envelopes:

a. in an envelope or package or container marked "ORIGINAL", all documents comprising the Tender, as described in ITT 11; and
b. in an envelope or package or container marked "COPIES", all required copies of the Tender; and
c. if alternative Tenders are permitted in accordance with ITT 13, and if relevant:
    i. in an envelope or package or container marked "ORIGINAL –ALTERNATIVE TENDER", the alternative Tender; and
    ii. in the envelope or package or container marked "COPIES- ALTERNATIVE TENDER", all required copies of the alternative Tender.

The inner envelopes or packages or containers shall:

a. bear the name and address of the Procuring Entity,
b. bear the name and address of the Tenderer; and
c. bear the name and Reference number of the Tender.

b. If an envelope or package or container is not sealed and marked as required, the Procuring Entity will assume no responsibility for the misplacement or premature opening of the Tender. Tenders misplaced or opened prematurely will not be accepted.

22. Deadline for Submission of Tenders

a. Tenders must be received by the Procuring Entity at the address specified in the TDS and no later than the date and time also specified in the TDS. When so specified in the TDS, tenderers shall have the option of submitting their Tenders electronically. Tenderers submitting Tenders electronically shall follow the electronic Tender submission procedures specified in the TDS.

b. The Procuring Entity may, at its discretion, extend the deadline for the submission of Tenders by amending the Tender Documents in accordance with ITT 8, in which case all rights and obligations of the Procuring Entity and Tenderers previously subject to the deadline shall thereafter be subject to the deadline as extended.

23. Late Tenders

The Procuring Entity shall not consider any Tender that arrives after the deadline for submission of tenders, in accordance with ITT 22. Any Tender received by the Procuring Entity after the deadline for submission of Tenders shall be declared late, rejected, and returned unopened to the Tenderer.

24. Withdrawal, Substitution and Modification of Tenders

a. A Tenderer may withdraw, substitute, or modify its Tender after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITT 20.3, (except that withdrawal notices do not require copies). The corresponding substitution or modification of the Tender must accompany the respective written notice. All notices must be:
    a. prepared and submitted in accordance with ITT 20 and ITT 21 (except that withdrawals notices do not require copies), and in addition, the respective envelopes shall be clearly marked "WITHDRAWAL," "SUBSTITUTION," "MODIFICATION;" and
    b. received by the Procuring Entity prior to the deadline prescribed for submission of Tenders, in accordance with ITT 22.

b. Tenders requested to be withdrawn in accordance with ITT 24.1 shall be returned unopened to the Tenderers.

c. No Tender may be withdrawn, substituted, 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 Form of Tender or any extension thereof.

25. Tender Opening

a. Except in the cases specified in ITT 23 and ITT 24.2, the Procuring Entity shall publicly open and read out all Tenders received by the deadline, at the date, time and place specified **in the TDS**, in the presence of Tenderers' designated representatives who chooses to attend. Any specific electronic Tender opening procedures required if electronic Tendering is permitted in accordance with ITT 22.1, shall be as specified in the **TDS.**

b. First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelopes with the corresponding Tender shall not be opened but returned to the Tenderer. No Tender withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at Tender opening.

c. Next, envelopes marked "SUBSTITUTION" shall be opened and read out and exchanged with the corresponding Tender being substituted, and the substituted Tender shall not be opened, but returned to the Tenderer. No Tender substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at Tender opening.

d. Next, envelopes marked "MODIFICATION" shall be opened and read out with the corresponding Tender. No Tender modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at Tender opening.

e. Next, all remaining envelopes shall be opened one at a time, reading out: the name of the Tenderer and whether there is a modification; the total Tender Price, per lot (contract) if applicable, including any discounts and alternative Tenders; the presence or absence of a Tender Security or Tender-Securing Declaration, if required; and any other details as the Procuring Entity may consider appropriate.

f. Only Tenders, alternative Tenders and discounts that are opened and read out at Tender opening shall be considered further for evaluation. The Form of Tender and pages of the Bill of Quantities (to be decided on by the tender opening committee) are to be initialled by the members of the tender opening committee attending the opening.

g. At the Tender Opening, the Procuring Entity shall neither discuss the merits of any Tender nor reject any Tender (except for late Tenders, in accordance with ITT 23.1).

h. The Procuring Entity shall prepare minutes of the Tender Opening that shall include, as a minimum: -

a) the name of the Tenderer and whether there is a withdrawal, substitution, or modification;
b) the Tender Price, per lot (contract) if applicable, including any discounts;
c) any alternative Tenders;
d) the presence or absence of a Tender Security, if new as required;
e) number of pages of each tender document submitted.

i. The Tenderers' representatives who are present shall be requested to sign the minutes. The omission of a Tenderer's signature on the minutes shall not invalidate the contents and effect of the minutes. A copy of the tender opening register shall be distributed to all Tenderers.

E. EVALUATION AND COMPARISON OF TENDERS

26. Confidentiality

a. Information relating to the evaluation of Tenders and recommendation of contract award shall not be disclosed to Tenderers or any other persons not officially concerned with the Tender process until information on Intention to Award the Contract is transmitted to all Tenderers in accordance with ITT 43.

b. Any effort by a Tenderer to influence the Procuring Entity in the evaluation of the Tenders or Contract award decisions may result in the rejection of its tender.

c. Notwithstanding ITT 26.2, from the time of tender opening to the time of contract award, if a tenderer wishes to contact the Procuring Entity on any matter related to the tendering process, it shall do so in writing.

27. Clarification of Tenders

a. To assist in the examination, evaluation, and comparison of the tenders, and qualification of the tenderers, the Procuring Entity may, at its discretion, ask any tenderer for a clarification of its tender, given a reasonable time for a response. Any clarification submitted by a tenderer that is not in response to a request by the Procuring Entity shall not be considered. The Procuring Entity's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease, 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 Procuring Entity in the evaluation of the tenders, in accordance with ITT 31.

b. If a tenderer does not provide clarifications of its tender by the date and time set in the Procuring Entity's request for clarification, its Tender may be rejected.

28. Deviations, Reservations and Omissions

a. During the evaluation of tenders, the following definitions apply: -
a. *"Deviation"* is a departure from the requirements specified in the tender document;
b. *"Reservation"* is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the tender document; and
c. *"Omission"* is the failure to submit part or all of the information or documentation required in the Tender document.

29. Determination of Responsiveness

a. The Procuring Entity's determination of a Tender's responsiveness is to be based on the contents of the tender itself, as defined in ITT 11.

b. A substantially responsive Tender is one that meets the requirements of the Tender document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that, if accepted, would:
   i. Affect in any substantial way the scope, quality, or performance of the Works specified in the Contract;
   ii. limit in any substantial way, inconsistent with the tender document, the Procuring Entity's rights or the tenderer's obligations under the proposed contract;
   iii. if rectified, would unfairly affect the competitive position of other tenderers presenting substantially responsive tenders.

c. The Procuring Entity shall examine the technical aspects of the tender submitted in accordance with ITT 16, to confirm that all requirements of Section VII, Works'

Requirements have been met without any material deviation, reservation or omission.

d. If a tender is not substantially responsive to the requirements of the tender document, it shall be rejected by the Procuring Entity and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

30. Non-Material and Non-Conformities

a. Provided that a tender is substantially responsive, the Procuring Entity may waive any non-conformities in the tender.

b. Provided that a Tender is substantially responsive, the Procuring Entity may request that the tenderer submit the necessary information or documentation, within a reasonable period of time, to rectify non-material non- conformities in the tender related to documentation requirements. Requesting information or documentation on such non-conformities shall not be related to any aspect of the price of the tender. Failure of the tenderer to comply with the request may result in the rejection of its tender.

c. Provided that a tender is substantially responsive, the Procuring Entity shall rectify quantifiable non-material non-conformities related to the Tender Price. To this effect, the Tender Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component in the manner specified **in the TDS.**

31. Arithmetic Errors

a. The tender sum as submitted and read out during the tender opening shall be absolute and final and shall not be the subject of correction, adjustment or amendment in any way by any person or entity.

b. Provided that the Tender is substantially responsive, the Procuring Entity shall handle errors on the following basis: -
   a. Any error detected if considered a major deviation that affects the substance of the tender, shall lead to disqualification of the tender as non-responsive.
   b. Any errors in the submitted tender arising from a miscalculation of unit price, quantity, subtotal and total bid price shall be considered as a major deviation that affects the substance of the tender and shall lead to disqualification of the tender as non-responsive. and
   c. if there is a discrepancy between words and figures, the amount in words shall prevail

c. Tenderers shall be notified of any error detected in their bid during the notification of award.

32. Conversion to Single Currency

For evaluation and comparison purposes, the currency(ies) of the Tender shall be converted in to a single currency as specified in the **TDS**.

33. Margin of Preference and Reservations

a. A margin of preference may be allowed only when the contract is open to international competitive tendering where foreign contractors are expected to participate in the tendering process and where the contract exceeds the value/threshold specified in the Regulations.

b. A margin of preference shall not be allowed unless it is specified so in the **TDS**.

c. Contracts procured on basis of international competitive tendering shall not be subject to reservations exclusive to specific groups as provided in ITT 33.4.

d. Where it is intended to reserve a contract to a specific group of businesses (these groups are Small and Medium Enterprises, Women Enterprises, Youth Enterprises and Enterprises of

persons living with disability, as the case may be), and who are appropriately registered as such by the authority to be specified in the **TDS**, a procuring entity shall ensure that the invitation to tender specifically indicates that only businesses or firms belonging to the specified group are eligible to tender. No tender shall be reserved to more than one group. If not so stated in the Invitation to Tender and in the Tender documents, the invitation to tender will be open to all interested tenderers.

34. Nominated Subcontractors

a. Unless otherwise stated in the **TDS,** the Procuring Entity does not intend to execute any specific elements of the Works by subcontractors selected/nominated by the Procuring Entity. In case the Procuring Entity nominates a subcontractor, the subcontract agreement shall be signed by the Subcontractor and the Procuring Entity. The main contract shall specify the working arrangements between the main contractor and the nominated subcontractor.

b. Tenderers may propose sub-contracting up to the percentage of total value of contracts or the volume of works as specified in the **TDS**. Subcontractors proposed by the Tenderer shall be fully qualified for their parts of the Works.

c. Domestic subcontractor's qualifications shall not be used by the Tenderer to qualify for the Works unless their specialized parts of the Works were previously designated so by the Procuring Entity in the **TDS** a scan be met by subcontractors referred to hereafter as 'Specialized Subcontractors', in which case, the qualifications of the Specialized Subcontractors proposed by the Tenderer may be added to the qualifications of the Tenderer

35. Evaluation of Tenders

a. The Procuring Entity shall use the criteria and methodologies listed in this ITT and Section III, Evaluation and Qualification Criteria No other evaluation criteria or methodologies shall be permitted. By applying the criteria and methodologies the Procuring Entity shall determine the Lowest Evaluated Tender in accordance with ITT 40

b. To evaluate a Tender, the Procuring Entity shall consider the following:

   a) price adjustment in accordance with ITT 31.1 (iii); excluding provisional sums and contingencies, if any, but including Daywork items, where priced competitively;
   b) price adjustment due to discounts offered in accordance with ITT 14.4;
   c) converting the amount resulting from applying (a) and (b) above, if relevant, to a single currency in accordance with ITT 32;
   d) price adjustment due to quantifiable non material non-conformities in accordance with ITT 30.3; and
   e) any additional evaluation factors specified in the **TDS** and Section III, Evaluation and Qualification Criteria.

c. The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be considered in Tender evaluation.

d. Where the tender involves multiple lots or contracts, the tenderer will be allowed to tender for one or more lots (contracts). Each lot or contract will be evaluated in accordance with ITT 35.2. The methodology to determine the lowest evaluated tenderer or tenderers base done lot (contract) or based on a combination of lots (contracts), will be specified in Section III, Evaluation and Qualification Criteria. In the case of multiple lots or contracts, tenderer will be will be required to prepare the Eligibility and Qualification Criteria Form for each Lot.

36. Comparison of Tenders

The Procuring Entity shall compare the evaluated costs of all substantially responsive Tenders established in accordance with ITT 35.2 to determine the Tender that has the lowest evaluated cost.

37. Abnormally Low Tenders and Abnormally High Tenders

Abnormally Low Tenders

a. An Abnormally Low Tender is one where the Tender price, in combination with other elements of the Tender, appears so low that it raises material concerns as to the capability of the Tenderer in regards to the Tenderer's ability to perform the Contract for the offered Tender Price or that genuine competition between Tenderers is compromised.

b. In the event of identification of a potentially Abnormally Low Tender, the Procuring Entity shall seek written clarifications from the Tenderer, including detailed price analyses of its Tender price in relation to the subject matter of the contract, scope, proposed methodology, schedule, allocation of risks and responsibilities and any other requirements of the Tender document.

c. After evaluation of the price analyses, in the event that the Procuring Entity determines that the Tenderer has failed to demonstrate its capability to perform the Contract for the offered Tender Price, the Procuring Entity shall reject the Tender.

Abnormally High Tenders

d. An abnormally high tender price is one where the tender price, in combination with other constituent elements of the Tender, appears unreasonably too high to the extent that the Procuring Entity is concerned that it (the Procuring Entity) may not be getting value for money or it may be paying too high a price for the contract compared with market prices or that genuine competition between Tenderers is compromised.

e. In case of an abnormally high price, the Procuring Entity shall make a survey of the market prices, check if the estimated cost of the contract is correct and review the Tender Documents to check if the specifications, scope of work and conditions of contract are contributory to the abnormally high tenders. The Procuring Entity may also seek written clarification from the tenderer on the reason for the high tender price. The Procuring Entity shall proceed as follows:

   i. If the tender price is abnormally high based on wrong estimated cost of the contract, the Procuring Entity may accept or not accept the tender depending on the Procuring Entity's budget considerations.
   ii. If specifications, scope of work and/or conditions of contract are contributory to the abnormally high tender prices, the Procuring Entity shall reject all tenders and may retender for the contract based on revised estimates, specifications, scope of work and conditions of contract, as the case may be.

f. If the Procuring Entity determines that the Tender Price is abnormally too high because genuine competition between tenderers is compromised (*often due to collusion, corruption or other manipulations*), the Procuring Entity shall reject all Tenders and shall institute or cause competent Government Agencies to institute an investigation on the cause of the compromise, before retendering.

38. Unbalanced and/or Front-Loaded Tenders

a. If in the Procuring Entity's opinion, the Tender that is evaluated as the lowest evaluated price is seriously unbalanced and/or frontloaded, the Procuring Entity may require the Tenderer to provide written clarifications. Clarifications may include detailed price analyses to demonstrate the consistency of the tender prices with the scope of works,

proposed methodology, schedule and any other requirements of the Tender document.

b. After the evaluation of the information and detailed price analyses presented by the Tenderer, the Procuring Entity may as appropriate:
   a. accept the Tender;
   b. require that the total amount of the Performance Security be increased at the expense of the Tenderer to a level not exceeding a 30% of the Contract Price;
   c. agree on a payment mode that eliminates the inherent risk of the Procuring Entity paying too much for undelivered works;
   d. reject the Tender

39. Qualifications of the Tenderer

a. The Procuring Entity shall determine to its satisfaction whether the eligible Tenderer that is selected as having submitted the lowest evaluated cost and substantially responsive Tender, meets the qualifying criteria specified in Section III, Evaluation and Qualification Criteria.

b. The determination shall be based upon an examination of the documentary evidence of the Tenderer's qualifications submitted by the Tenderer, pursuant to ITT 17. The determination shall not take into consideration the qualifications of other firms such as the Tenderer's subsidiaries, parent entities, affiliates, subcontractors (other than Specialized Sub-contractors if permitted in the Tender document), or any other firm(s) different from the Tenderer.

c. An affirmative determination shall be a prerequisite for award of the Contract to the Tenderer. A negative determination shall result in disqualification of the Tender, in which event the Procuring Entity shall proceed to the Tenderer who offers a substantially responsive Tender with the next lowest evaluated price to make a similar determination of that Tenderer's qualifications to perform satisfactorily.

40. Lowest Evaluated Tender

Having compared the evaluated prices of Tenders, the Procuring Entity shall determine the Lowest Evaluated Tender. The Lowest Evaluated Tender is the Tender of the Tenderer that meets the Qualification Criteria and whose Tender has been determined to be:

a. Most responsive to the Tender document; and
b. The lowest evaluated price.

41. Procuring Entity's Right to Accept Any Tender and To Reject Any or all Tenders

The Procuring Entity reserves the right to accept or reject any Tender and to annul the Tender process and reject all Tenders at any time prior to Contract Award, without there by incurring any liability to Tenderers. In case of annulment, all Tenders submitted and specifically, Tender securities, shall be promptly returned to the Tenderers.

F. AWARD OF CONTRACT

42. Award Criteria

The Procuring Entity shall award the Contract to the successful tenderer whose tender has been determined to be the Lowest Evaluated Tender.

43. Notice of Intention to Enter into a Contract

Upon award of the contract and prior to the expiry of the Tender Validity Period the Procuring Entity shall issue a Notification of Intention to Enter into a Contract/Notification of award to all tenderers which shall contain, at a minimum, the following information:

a. the name and address of the Tenderer submitting the successful tender;

b. the Contract price of the successful tender;
c. a statement of the reason(s) the tender of the unsuccessful tenderer to whom the letter is addressed was unsuccessful, unless the price information in (c) above already reveals the reason;
d. the expiry date of the Standstill Period; and
e. instructions on how to request a debriefing and/ or submit a complaint during the stand still period

44. Standstill Period

a. The Contract shall not be signed earlier than the expiry of a Standstill Period of 14 days to allow any dissatisfied tender to launch a complaint. Where only one Tender is submitted, the Standstill Period shall not apply.

b. Where a Standstill Period applies, it shall commence when the Procuring Entity has transmitted to each Tenderer the Notification of Intention to Enter into a Contract with the successful Tenderer

45. Debriefing by The Procuring Entity

a. On receipt of the Procuring Entity's Notification of Intention to Enter into a Contract referred to in ITT 43, an unsuccessful tenderer may make a written request to the Procuring Entity for a debriefing on specific issues or concerns regarding their tender. The Procuring Entity shall provide the debriefing within five days of receipt of the request.

b. Debriefings of unsuccessful Tenderers may be done in writing or verbally. The Tenderer shall bear its own costs of attending such a debriefing meeting.

46. Letter of Award

Prior to the expiry of the Tender Validity Period and upon expiry of the Standstill Period specified in ITT 42.1, upon addressing a complaint that has been filed with in the Standstill Period, the Procuring Entity shall transmit the Letter of Award to the successful Tenderer. The letter of award shall request the successful tenderer to furnish the Performance Security within 21 days of the date of the letter.

47. Signing of Contract

a. Upon the expiry of the fourteen days of the Notification of Intention to enter in to contract and upon the parties meeting their respective statutory requirements, the Procuring Entity shall send the successful Tenderer the Contract Agreement.

b. Within fourteen (14) days of receipt of the Contract Agreement, the successful Tenderer shall sign, date, and return it to the Procuring Entity.

c. The written contract shall be entered into within the period specified in the notification of award and before expiry of the tender validity period.

48. Performance Security

a. Within twenty-one (21) days of the receipt of the Letter of Award from the Procuring Entity, the successful Tenderer shall furnish the Performance Security and, any other documents required in the **TDS**, in accordance with the General Conditions of Contract, subject to ITT 38.2 (b), using the Performance Security and other Forms included in Section X, Contract Forms, or another form acceptable to the Procuring Entity. A foreign institution providing a bank guarantee shall have a correspondent financial institution located in Kenya, unless the Procuring Entity has agreed in writing that a correspondent bank is not required

b. Failure of the successful Tenderer to submit the above-mentioned Performance Security

and other documents required in the **TDS** or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Tender Security. In that event the Procuring Entity may award the Contract to the Tenderer offering the next Best Evaluated Tender.

c. Performance security shall not be required for contracts estimated to cost less than the amount specified in the Regulations.

49. Publication of Procurement Contract

Within fourteen days after signing the contract, the Procuring Entity shall publish the awarded contract at its notice boards and websites; and on the Website of the Authority. At the minimum, the notice shall contain the following information:

a. name and address of the Procuring Entity;
b. name and reference number of the contract being awarded, a summary of its scope and the selection method used;
c. the name of the successful Tenderer, the final total contract price, the contract duration;
d. dates of signature, commencement and completion of contract;
e. names of all Tenderers that submitted Tenders, and their Tender prices as readout at Tender opening.

50. Procurement Related Complaint

The procedures for making Procurement-related Complaints are as specified in the TDS.

Section II - Tender Data Sheet (TDS)

The following specific data 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.

[Where an e-procurement system is used, modify the relevant parts of the TDS accordingly to reflect the e-procurement process]. [Instructions for completing the Tender Data Sheet are provided, as needed, in the notes in italics mentioned for the relevant ITT].

ITT Reference	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS
	A. General
ITT 1.1	**THE TENDER REFERENCE NUMBER (ITT) IS: NG-CDFB/T/017/2023/2024** **THE PROCURING ENTITY IS: : NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD** **THE NAME OF THE ITT PROPOSED PARTITIONING AND INTERIOR FIT OUT OF 7TH FLOOR AND ALTERATIONS TO 5TH AND 6TH FLOORS AT UKULIMA COOPERATIVE BUILDING**
ITT 2.1	**NOT APPLICABLE**
ITT 3.3	The Information made available on competing firms is as follows:
ITT 4.1	Maximum number of members in the Joint Venture (JV) shall be: **NONE**

B. Contents of Tender Document	
ITT 8.2	The Tenderer will submit any questions in writing, to reach the Procuring Entity not later **3rd June, 2024** **Email: procurement@ngcdf.go.ke**
ITT 8.4	Pretender site visit. **Allowed**
ITT 9.1	For Clarification of Tender purposes, for obtaining further information and for purchasing tender documents, the Procuring Entity's address is: Attention: CHIEF EXECUTIVE OFFICER Postal Address: P.O Box 46682-00100, Nairobi, Kenya. Physical Address: *Nairobi, Haile* Selassie Avenue*, Harambee Sacco Building, 10th Floor.*

ITT Reference	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS
C. Preparation of Tenders	
ITP 13.1 (h)	The Tenderer shall submit the following additional documents in its Tender: *AS PER THE EVALUATION CRITERIA*
ITT 15.1	Alternative Tenders ***SHALL NOT*** be considered.
ITT 15.2	Alternative times for completion ***SHALL NOT BE*** permitted.
ITT 15.4	Alternative technical solutions shall be permitted for the following parts of the Works: ***SHALL NOT BE*** ALLOWED
ITT 16.5	The prices quoted by the Tenderer shall be *FIXED*
ITT 20.1	The Tender validity period shall be **120 DAYS**_____
ITT 20.3 (a)	) The delayed to exceeding 30 number of days. AS PER CONTRACT DAYS -) The Tender price shall be adjusted by the following percentages of the tender price:
ITT 21.1	A Tender Security *of* ***Kshs. 500,000 Bid Price shall*** be required. If a Tender Security shall be required, the amount and currency of the Tender Security shall be *As Above* FROM FINANCIAL INSTITUITION RECOGNISED BY Central Bank of Kenya, Bank Guarantee, Credit Note OR INSUARANCE COMPANIES APPROVED BY PPRA
ITT 21.2 (d)	The other Tender Security shall be _NOT APPLICABLE
ITT 21.5	On the Performance Security, other documents required shall be_____ AS PER SPECIAL CONDITONS OF CONTRACT

ITT 22.1	In addition to the original of the Tender, the number of copies is: ORIGINALS ONLY ONE
ITT 22.3	The written confirmation of authorization to sign on behalf of the Tenderer shall consist of: *WRITEN POWER OF ATTORNEY/ FROM COMMISSIONER OF OATHS*
D. Submission and Opening of Tenders	
ITT 24.1	(A) For Tender submission purposes only, the Procuring Entity's address is: **Attention: CHIEF EXECUTIVE OFFICER** **Postal Address: P.O Box 46682-00100, Nairobi, Kenya.** **Physical Address: Nairobi, Haile Selassie Avenue, Harambee Sacco Building, 10th Floor.**

ITT Reference	**PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS**
ITT 25.1	The deadline for Tender submission is: -- **June ,6th , 2024 10:00 am** Tenderers ***shall not*** have the option of submitting their Tenders electronically.
ITT 26.1	The Tender opening shall take place at: **Attention: CHIEF EXECUTIVE OFFICER** **Postal Address: P.O Box 46682-00100, Nairobi, Kenya.** **Physical Address: Nairobi, Haile Selassie Avenue, Harambee Sacco Building, 10th Floor.**
ITT 26.2	The electronic Tender opening procedures shall NOT be APPLICABLE
ITT 26.6	The Form of Tender and priced Schedule of requirements shall be initialed by **TENDER OPENING COMMITTEE *[4]*** representatives.
E. Evaluation and Comparison of Tenders	
ITT 33.2	The currency shall be Kenya Shillings and the source of exchange rate shall be Central bank of Kenya as on as on five (5) calendar days prior to the deadline for submission of bids
ITT 34.2	Margin of preference shall be **not allowed.**
	F. Award of Contract
ITT 44.1	The negotiations will be held at NG-CDF BOARD, BOARDROOM AT 10TH FLOOR
ITT 49.1	The procedures for making a Procurement-related Complaint are available from the PPRA Website www.ppra.go.ke or email complaints@ppra.go.ke. If a Tenderer wishes to make a Procurement-related Complaint, the Tenderer should submit its complaint following these procedures, in writing (by the quickest means available, that is either by hand delivery or email to: For the attention: **Yusuf Mbuno** **Title/position:** ***Chief Executive Officer*** **Procuring Entity:** ***NGCDF Board*** **Email address:** ***ymbuno@ngcdf.go.ke***

	In summary, a Procurement-related Complaint may challenge any of the following: (i) the terms of the Tender Documents; and the Procuring Entity's decision to award the contract.

SECTION III – EVALUATION AND QUALIFICATION CRITERIA

1. GENERAL PROVISIONS

1.1. This section contains the criteria that the Employer shall use to evaluate tender and qualify tenderers. No other factors, methods or criteria shall be used other than specified in this tender document. The Tenderer shall provide all the information requested in the forms included in Section IV, Tendering Forms. The Procuring Entity shall use **the Standard Tender Evaluation Document for Goods and Works** for evaluating Tenders.

1.2. Wherever a Tenderer is required to state a monetary amount, Tenderers should indicate the Kenya Shilling equivalent using the rate of exchange determined as follows:

a) For construction turnover or financial data required for each year - Exchange rate prevailing on the last day of the respective calendar year (in which the amounts for that year are to be converted) was originally established.
b) Value of single contract - Exchange rate prevailing on the date of the contract signature.
c) Exchange rates shall be taken from the publicly available source identified in the ITT 14.3. Any error in determining the exchange rates in the Tender may be corrected by the Procuring Entity.

1.3. EVALUATION AND CONTRACT AWARD CRITERIA

The Procuring Entity shall use the criteria and methodologies listed in this Section to evaluate tenders and arrive at the Lowest Evaluated Tender. The tender that(i) meets the qualification criteria, (ii) has been determined to be substantially responsive to the Tender Documents, and (iii) is determined to have the Lowest Evaluated Tender price shall be selected for award of contract.

1. For construction turnover or financial data required for each year - Exchange rate prevailing on the last day of the respective calendar year (in which the amounts for that year is to be converted) was originally established.
2. Value of single contract - Exchange rate prevailing on the date of the contract signature.
3. Exchange rates shall be taken from the publicly available source identified in the ITT 14.3. Any error in determining the exchange rates in the Tender may be corrected by the Procuring Entity.

2. PRELIMINARY EXAMINATION FOR DETERMINATION OF RESPONSIVENESS

Preliminary examination for Determination of Responsiveness

The Procuring Entity will start by examining all tenders to ensure they meet in all respects the eligibility criteria and other mandatory requirements in the ITT, and that the tender is complete in all aspects in meeting the requirements provided for in the preliminary evaluation criteria outlined below. The Standard Tender Evaluation Report Document for Goods and Works for evaluating Tenders provides very clear guide on how to deal with review of these requirements. Tenders that do not pass the Preliminary Examination will be considered non- responsive and will not be considered further.

EVALUATION AND CONTRACT AWARD CRITERIA

The Procuring Entity shall use the criteria and methodologies listed in this Section to evaluate tenders and arrive at the Lowest Evaluated Tender. The tender that(i) meets the qualificationcriteria, (ii) has been determined to be substantially responsive to the Tender Documents, and

(iii) is determined to have the Lowest Evaluated Tender price shall be selected for award of contract.

1. For construction turnover or financial data required for each year - Exchange rate prevailing on the last day of the respective calendar year (in which the amounts for that year is to beconverted) was originally established.
2. Value of single contract - Exchange rate prevailing on the date of the contract signature.
3. Exchange rates shall be taken from the publicly available source identified in the ITT 14.3.Any error in determining the exchange rates in the Tender may be corrected by the Procuring Entity.

2. PRELIMINARY EXAMINATION FOR DETERMINATION OF RESPONSIVENESS

This stage shall involve examination of the pre-qualification conditions as set out in the ITT and anyother conditions stated in the bid document.

The tender shall be complete in all aspects in meeting the requirements provided for in the preliminary **evaluation criteria** outlined below; -

Tenders that do not pass the Preliminary Examination will be considered non-responsive and will notbe considered further.

ITEM	MANDATORY REQUIREMENT (MR) – MAIN CONTRACTOR
MR1	Certificate of Incorporation / Registration from the Registrar of Companies / Businesses;
MR2	(copy of CR 12 or CR 13) for list of directors, beneficial owners, name of proprietor or names of partners, the bidder not more than one year old
MR3	Current Category of Registration with National Construction Authority (NCA) inthe relevant trade; **(NCA 4 and above for Building Works)**
MR4	Contractor's Annual Practicing License from NCA for the current year
MR5	The Bid has been submitted in the format required by the procuring entity - the tender document to be returned in the order and pages provided in the tender and paginated in sequence including attachments(Spiral Binding and use of Spring or box files will not be accepted and will lead to automatic disqualification)
MR6	Provision of a tender Security/Bid Bond of the stated amount of **Kshs. 500,000.00,** If a Tender Security shall be required, the amount and currency of the Tender Security shall be *As Above* FROM FINANCIAL INSTITUITION RECOGNISED BY Central Bank of Kenya, Bank Guarantee, Credit Note OR INSUARANCE COMPANIES APPROVED BY PPRA
MR7	Fully filled, Signed and Stamped Form of Tender prepared in the required format.
MR8	Valid copy of Trading / Business Permit
MR9	Valid Tax Compliance Certificates

MR10	Fully filled, Signed and Stamped Confidential Business Questionnaire;
MR 11	Filled and signed certificate of Independent tender Determination

Note:

The bid security shall be in accordance with the following notes;-

The bidders' who do not satisfy any of the above requirements shall be considered Non- Responsive and their tenders will not be evaluated further.

STAGE 2: TECHNICAL EVALUATION

Assessment for eligibility

The tender document shall be examined based on clause 11.1 of the Instruction to Tenderers .

The tenderers will be required to provide evidence for eligibility of the award of the tender by satisfying the employer of their eligibility and their capability and adequacy of resources to effectively carry out the subject contract.

The tenderers shall be required;

*a) To fill the Standard Forms provided in the bid document for the purposes of providing the required information. The tenderers **MUST** also attach the required information if they so desire;*

A.) TECHNICAL EVALUATION FOR BUILDERS WORKS

The award of points for the STANDARD FORMS considered in this section shall be as shown below;

PARAMETER	*MAXIMUM POINTS*
(i) Key personnel……..	15
(ii) Works of similar magnitude and complexity undertaken in the last …	15
(iii). Bank statement for the last six months ----------	15
(iv) Adequate equipment holding for the specified type of work ----------	20
(v) Audited accounts for the last 3 years (2021,2022 & 2023)----------	15
(vi) Evidence of Financial Resources ----------	15
(vii) Litigation History	5
TOTAL	**100**

The detailed scoring plan shall be as shown in table A below: -

TABLE A: Assessment for Eligibility

Parameter	Maximum Points
A. Key technical staff to be engaged	15
B. Works of similar magnitude and complexity undertaken in the last 3 years	15
C. Bank statement for the last six months	15
D. Adequate equipment holding for the specified type of work	20
E. Audited accounts for the last 3 years (2021,2022 & 2023)	15
F. Evidence of sound financial standing	15
G. Litigation History	5
Total	**100**

The pass-mark under the Technical Evaluation is 70 percent. Any bidder who scores below the pass mark will be considered non responsive

**Monthly Cash Flow =Tender Sum/Contract Period*

STAGE 3 - FINANCIAL EVALUATION

Upon completion of the technical evaluation a detailed financial evaluation for the bidder (and all their joint venture partners) shall follow.

(The financial evaluation shall proceed in the manner described in the Public Procurement and Disposal Act (2015) of the laws of Kenya and the Public Procurement and Disposal Regulations, 2020 specifically section 77.

The evaluation shall be in three stages

a) Determination of Arithmetic Errors for the bidder (and all their joint venture partners);
b) Comparison of Rates for the bidder (and all their joint venture partners); and
c) Consistency of the Rates for the bidder (and all their joint venture partner

A) *Determination of the Arithmetic Errors*

Arithmetic Errors will be corrected by the Procuring Entity as follows:

i) In the event of a discrepancy between the amount as stated in the form of Tender and the corrected tender figure in the Main summary of the Bills of Quantities, the amount as stated in the Form of tender shall prevail. Pursuant to Section 82 of the

Public Procurement and Asset Disposal Act 2015, the tender sum as submitted and read out during the tender opening shall be absolute and final and shall not be the subject of correction, adjustment or amendment in any way by any person or entity;

ii) Error correction factor shall be computed by expressing the difference between the amount and the corrected tender sum as a percentage of the corrected contract works

iii) The Error correction factor shall be applied to all contract works (as a rebate or addition as the case may be) for the purposes of valuations for Interim Certificates and valuations of variations.

B) *Comparison of rates for the bidder*

Items that are under-priced or overpriced may indicate potential for non-delivery and front loading respectively. The committee shall promptly write to the tenderer asking for detailed breakdown of costs for any of the quoted items, relationship between those prices, proposed construction/installation methods and schedules.

The evaluation committee shall evaluate the responses and make an appropriate recommendation to the procuring entity's tender committee giving necessary evidence. Such recommendations may include but not limited to:

a) Recommend no adverse action to the tenderer after a convincing response;
b) Employer requiring that the amount of the performance bond be raised at the expense of the successful tenderer to a level sufficient to protect the employer against potential financial losses;
c) Recommend non-award based on the response provided and the available demonstrable evidence that the scope, quality, completion timing, administration of works to be undertaken by the tenderer, would adversely be affected or the rights of the employer or the tenderers obligations would be limited in a substantial way.

C) *Consistency of the Rates*

The evaluation committee will compare the consistency of rates for similar items and note all inconsistencies of the rates for similar items

STAGE 4 - DUE DELIGENEC & RECOMMENDATION FOR AWARD

Particulars of post – qualification if applicable **at NG-CDF Board office at UKulima cooperative House,** inspect the premises and under due diligence to seek further clarification/confirmation, if necessary, to confirm authenticity /compliance of any condition of the tender /qualifications of the tenderer in line with **Section 83 of the Public Procurement and Asset Disposal Act ,2015**
Award Criteria: ***The firm achieving the lowest evaluated price will be awarded the contract in line withSection 86 of the Public Procurement and Disposal Act,2015***

3. TENDER EVALUATION (ITT 35)

Price evaluation: in addition to the criteria listed in ITT 35.2 (a) – (d) the following criteria shall apply:

(i) Alternative Completion Times, if permitted under ITT13.2, will be evaluated as follows:
……..

(ii) Alternative Technical Solutions for specified parts of the Works, if permitted under ITT 13.4, will be evaluated as follows:
……..

(iii) Other Criteria; if permitted under ITT 35.2(j):
……

4. MULTIPLE CONTRACTS

4.1 Multiple contracts will be permitted in accordance with ITT 35.4. Tenderers are evaluated on basis of Lots and a lowest evaluated tenderer identified for each Lot. The Procuring Entity will select one Option of the two Options listed below for award of Contracts.

OPTION 1

(i) If a tenderer wins only one Lot, the tenderer will be awarded a contract for that Lot, provided the tenderer meets the Eligibility and Qualification Criteria for that Lot.

(i) If a tenderer wins more than one Lot, the tender will be awarded a contract for all won Lots, provided the tenderer meets the aggregate Eligibility and Qualification Criteria for all the won Lots. The tenderer will be awarded only the combinations for which the tenderer qualifies and the others will be considered for award to second lowest the tenderers.

Declaration

I, the undersigned [insert either “Contractor's Representative” or “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	[*insert period (start and end dates) for which this Contractor’s Representative or Key Personnel is available to work in this contract*]
Time commitment	[*insert period (start and end dates) for which this Contractor’s Representative or Key Personnel is available to work in this contract*]

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:

Signature:

Date: (day month year):

Counter signature of authorized representative of the Tenderer:

Signature:

Date: (day month year):

1. TENDERERS QUALIFICATION WITHOUT PREQUALIFICATION

To establish its qualifications to perform the contract in accordance with Section III, Evaluation and Qualification Criteria the Tenderer shall provide the information requested in the corresponding Information Sheets included hereunder.

1.1. FORM ELI – 1.1

Tenderer Information Form

Date: _____

ITT No. and Title: _____

Tenderer's Name
In case of Joint Venture (JV), Name of Each Member
Tenderer's Actual or Intended Year of Incorporation
Tenderer's Legal Address [in country of registration]
Tenderer's Authorised Representative Information Name: Address: Telephone/Fax Numbers: E-mail Address:
1. Attached are copies of original documents of: • Articles of Incorporation (or equivalent documents of constitution or association) and /or documents of registration of the legal entity named above in accordance with ITT 3.6 • In case of JV, letter of intent to form JV or JV agreement in accordance with ITT 3.5 • In case of state-owned enterprise or institution in accordance with ITT 3.8 documents establishing: a. Legal and financial autonomy b. Operation under commercial law c. Establishing that the tenderer is not under the supervision of the Procuring Entity 2. Included are the organisational chart, a list of Board of Directors and the beneficial ownership

1.2. FORM ELI - 1.2
Tenderer's JV Information Form

(To be completed for each member of Tenderer's JV)

Date: _____

ITT No. and Title: _____

Tenderer's JV Name
JV Member's Name
JV Member's Country of Registration
JV Member's Year of Constitution
JV Member's Legal Address in Country of Constitution
JV Member's Authorised Representative Information Name: Address: Telephone/Fax Numbers: E-mail Address:
1. Attached are copies of original documents of: • Articles of Incorporation (or equivalent documents of constitution or association) and /or documents of registration of the legal entity named above in accordance with ITT 3.6 • In case of state-owned enterprise or institution in accordance with ITT 3.8 documents establishing: d. Legal and financial autonomy e. Operation under commercial law f. Establishing that the tenderer is not under the supervision of the Procuring Entity, in accordance with ITT 3.5 2. Included are the organisational chart, a list of Board of Directors and the beneficial ownership

1.3. FORM CON – 2
Historical Contract Non-Performance, Pending Litigation and Litigation History

Tenderer's Name: _____Date: _____

JV Member's Name_____ ITT No. And Title_____

<table>
<tr><td colspan="4">Non-Performed Contracts in accordance with Section III, Evaluation and Qualification Criteria</td></tr>
<tr><td colspan="4">o Contract non-performance did not occur since 1st January [insert year] specified in Section III, Evaluation and Qualification Criteria, Sub-Factor 2.1

o Contract(s) non-performance since 1st January [insert year] specified in Section III, Evaluation and Qualification Criteria, Requirement 2.1

o Contract(s) withdrawn did not occur since 1st January [insert year] specified in Section III, Evaluation and Qualification Criteria, Requirement 2.1</td></tr>
<tr><td>Year</td><td>Non-performed portion of contract</td><td>Contract Identification</td><td>Total Contract Amount (current value, currency, exchange rate and Kenya Shilling equivalent)</td></tr>
<tr><td>[insert year]</td><td>[insert amount and percentage]</td><td>Contract Identification: [indicate complete contract name/number and any other identification]
Name of Procuring Entity: [insert full name]
Address of Procuring Entity: [insert street/city/country]
Name of Procuring Entity: [insert street/city/country]
Reason(s) for non-performance: [indicate main reasons]</td><td>[insert amount]</td></tr>
<tr><td colspan="4">Pending Litigation in accordance with Section III, Evaluation and Qualification Criteria</td></tr>
<tr><td colspan="4">o No Pending Litigation in accordance with Section III, Evaluation and Qualification Criteria, Sub Factor 2.3
o Pending Litigation in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.3 as indicated below.</td></tr>
</table>

Year of dispute	Amount in dispute (currency)	Contract Identification	Total Contract Amount (currency), Kenya Shilling Equivalent (exchange rate)
		Contract Identification: _____ Name of Procuring Entity: _____ Address of Procuring Entity: _____ Matter in dispute: _____ Party who initiated the dispute: _____ Status of Dispute: _____	
[*insert year*]	[*insert percentage*]	Contract Identification: _____ Name of Procuring Entity: _____ Address of Procuring Entity: _____ Matter in dispute: _____ Party who initiated the dispute: _____ Status of Dispute: _____	[*insert amount*]
Litigation in accordance with Section III, Evaluation and Qualification Criteria			
o No Litigation in accordance with Section III, Evaluation and Qualification Criteria, Sub Factor 2.4 o Pending Litigation in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.4 as indicated below.			
Year of award	**Outcome as percentage of Net Worth**	**Contract Identification**	**Total Contract Amount (currency), Kenya Shilling Equivalent (exchange rate)**
[*insert year*]	[*insert percentage*]	Contract Identification: [*indicate complete contract name/number and any other identification*] Name of Procuring Entity: [*insert full name*] Address of Procuring Entity: [*insert street/city/country*] Matter in dispute: [*indicate main issues in dispute*] Party who initiated the dispute: [*indicate "Procuring Entity" or "Contractor"*] Reason(s) for Litigation and Award Decision: [*indicate main reasons*]	[*insert amount*]

Include details relating to potential bid-rigging practices such as previous occasions where tenders were withdrawn, joint bids with competitors, subcontracting work to unsuccessful tenderers, etc.

1.3.1. Sources of Finance

Specify sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.

No.	Source of Finance	Amount (Kenya Shilling Equivalent)

1		
2		
3		

1.3.2.Financial Documents

The Tenderer and its parties shall provide copies of financial statements for years pursuant Section III, Evaluation and Qualifications Criteria, Sub-factor 3.1. The financial statements shall:

a. Reflect the financial situation of the Tenderer or In case of JV member, and not an affiliated entity (such as parent company or group member).
b. Be independently audited or certified in accordance with local legislation.
c. Be complete, including all notes to the financial statements.
d. Correspond to accounting periods already completed and audited

Attached are copies of financial statements for the _____ years required above and complying with the requirements.

1. FORM OF TENDER

INSTRUCTIONS TO TENDERERS

i) The Tenderer must prepare this Form of Tender on stationery with its letterhead clearly showing the Tenderer's complete name and business address.

ii) All italicized text is to help Tenderer in preparing this form.

iii) Tenderer must complete and sign CERTIFICATE OF INDEPENDENT TENDER DETERMINATION and the SELF DECLARATION OF THE TENDERER attached to this Form of Tender.

iv) The Form of Tender shall include the following Forms duly completed and signed by the Tenderer.

- *Tenderer's Eligibility- Confidential Business Questionnaire*
- *Certificate of Independent Tender Determination*
- *Self-Declaration of the Tenderer*

Date of this Tender submission: *[insert date (as day, month and year) of Tender submission]* **Request for Tender No.: [***insert identification]* **Name and description of Tender** *[Insert as per ITT)* **Alternative No.:** *[insert identification No if this is a Tender for an alternative]*

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

Dear Sirs,

1. In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities for the execution of the above-named Works, we, the undersigned offer to construct and complete the Works and remedy any defects there in for the sum[3] of Kenya Shillings [[*Amount in figures*]_____Kenya Shillings *[amount in words*]_____

   The above amount includes foreign currency[4] amount(s) of [*state figure or a percentage and currency*] [figures]
   _____[words]
   _____ The percentage or amount quoted above does not include provisional sums, and only allows not more than two foreign currencies.

2. We undertake, if our tender is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Architect notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the Special Conditions of Contract.

3. We agree to adhere by this tender until_____*[Insert date],* and it shall remain binding upon us and may be accepted at any time before that date.

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

5. We, the under signed, further declare that:

   i) No reservations: We have examined and have no reservations to the tender document, including Addenda issued in accordance with ITT 28;

   ii) Eligibility: We meet the eligibility requirements and have no conflict of interest in accordance with ITT 3 and 4;

   iii) Tender - Securing Declaration: We have not been suspended nor declared ineligible by the Procuring Entity based on execution of a Tender-Securing or Proposal-Securing Declaration in the Procuring

Entity's Country in accordance with ITT

iv) Conformity: We offer to execute in conformity with the tendering documents and in accordance with the implementation and completion specified in the construction schedule, the following Works: *[insert a brief description of the Works];*

v) Tender Price: The total price of our Tender, excluding any discounts offered in item 1 above is: *[Insert one of the options below as appropriate]*

vi Option 1, in case of one lot: Total price is: *[insert the total price of the Tender in words and figures, indicating the various amounts and the respective currencies*]; or

Option2, in case of multiple lots:

(a) Total price of each lot [*insert the total price of each lot in words and figures, indicating the various amounts and the respective currencies*]; and

(b) Total price of all lots (sum of all lots) [*insert the total price of all lots in words and figures, indicating the various amounts and the respective currencies*];

vii) Discounts: The discounts offered and the methodology for their application are:

viii) The discounts offered are: [*Specify in detail each discount offered.*]

ix) The exact method of calculations to determine the net price after application of discounts is shown below: [*Specify in detail the method that shall be used to apply the discounts*];

x) Tender Validity Period: Our Tender shall be valid for the period specified in TDS 18.1 (as amended, if applicable) from the date fixed for the Tender submission deadline specified in TDS 22.1 (as amended, if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

xi) Performance Security: If our Tender is accepted, we commit to obtain a Performance Security in accordance with the Tendering document;

xii) One Tender Per Tender: We are not submitting any other Tender(s) as an individual Tender, and we are not participating in any other Tender(s) as a Joint Venture member or as a sub-contractor, and meet the requirements of ITT 3.4, other than alternative Tenders submitted in accordance with ITT 13.3;

xiii) Suspension and Debarment: We, along with any of our subcontractors, suppliers, Engineer, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the Public Procurement Regulatory Authority or any other entity of the Government of Kenya, or any international organization.

xiv) State-owned enterprise or institution: [*select the appropriate option and delete the other*] [*We are not a state- owned enterprise or institution*]/[*We are a state-owned enterprise or institution but meet the requirements of ITT3.8*];

xv) Commissions, gratuities, fees: We have paid, or will pay the following commissions, gratuities, or fees with respect to the tender process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity].*

Name of Recipient	Address	Reason	Amount

(If none has been paid or is to be paid, indicate "none.")
This sum should be carried forward from the Summary of the Bills of Quantities.
The percentage quoted above should not include provisional sums, and not more than two foreign currencies are allowed.

xvi) Binding Contract: We understand that this Tender, together with your written acceptance there of included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;

xvii) Not Bound to Accept: We understand that you are not bound to accept the lowest evaluated cost Tender, the Most Advantageous Tender or any other Tender that you may receive;

xviii) Fraud and Corruption: We here by certify that we have taken steps to ensure that no person acting for us or on our behalf engages in any type of Fraud and Corruption; and

xix) Collusive practices: We hereby certify and confirm that the tender is genuine, non-collusive and made with the intention of accepting the contract if awarded. To this effect we have signed the "Certificate of Independent Tender Determination" attached below.

xx) We undertake to adhere by the Code of Ethics for Persons Participating in Public Procurement and Asset Disposal, copy available from_____(*specify website*) during the procurement process and the execution of any resulting contract.

xxi) We, the Tenderer, have completed fully and signed the following Forms as part of our Tender:

a) Tenderer's Eligibility; Confidential Business Questionnaire - to establish we are not in any conflict to interest
b) Certificate of Independent Tender Determination - to declare that we completed the tender without colluding with other tenderers
c) Self-Declaration of the Tenderer - to declare that we will, if awarded a contract, not engage in any form of fraud and corruption.
d) Declaration and commitment to the Code of Ethics for Persons Participating in Public Procurement and Asset Disposal.

Further, we confirm that we have read and understood the full content and scope of fraud and corruption as informed in **"Appendix 1 - Fraud and Corruption"** attached to the Form of Tender.

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

Name of the person duly authorized to sign the Tender on behalf of the Tenderer: **[*insert complete name of person duly authorized to sign the Tender*]

Title of the person signing the Tender: [*insert complete title of the person signing the Tender*]

Signature of the person named above: [*insert signature of person whose name and capacity are shown above*]

Date signed [*insert date of signing*] day of [*insert month*], [*insert year*]Date signed__day of__,

Notes
** In the case of the Tender submitted by joint venture specify the name of the Joint Venture as Tenderer.*

***Person signing the Tender shall have the power of attorney given by the Tenderer to be attached with the Tender.*

a) TENDERER'S ELIGIBILITY - CONFIDENTIAL BUSINESS QUESTIONNAIRE

Instruction to Tenderer

Tender is in structed to complete the particulars required in this Form, one form for each entity if Tender is a JV. Tenderer is further reminded that it is an offence to give false information on this Form.

a. Tenderer's Details

	ITEM	DESCRIPTION
1	Name of the Procuring Entity	
2	Reference Number of the Tender	
3	Date and Time of Tender Opening	
4	Name of the Tenderer	
5	Full Address and Contact Details of the Tenderer.	1. Country 2. City 3. Location 4. Building 5. Floor 6. Postal Address 7. Name and email of contact person.
6	Current Trade License Registration Number and Expiring date	
7	Name, country and full address (*postal and physical addresses, email, and telephone number*) of Registering Body/Agency	
8	Description of Nature of Business	
9	Maximum value of business which the Tenderer handles.	
10	State if Tenders Company is listed in stock exchange, give name and full address (*postal and physical addresses, email, and telephone number*) of state which stock exchange	

General and Specific Details

b. **Sole Proprietor**, provide the following details

Name in full_____Age____ Nationality
Country of Origin__

Citizenship_____

c. **Partnership,** provide the following details

	Names of Partners	Nationality	Citizenship	% Shares Owned
1				
2				
3				

d. **Registered Company,** provide the following details

I. Private or public company_____

II. State the nominal and issued capital of the company_____
Nominal Kenya Shillings (Equivalent) _____

Issued Kenya Shillings (Equivalent) _____

III. Give Details of Directors as follows

	Names of Director	Nationality	Citizenship	% Shares Owned
1				
2				
3				

e. **DISCLOSURE OF INTEREST – Interest of the Firm in the Procuring Entity**

i. Are there any person/persons in _____ (Name of Procuring Entity) who has/have an interest or relationship in this firm? Yes/No _____

If Yes provide details as follows:

	Names of Person	Designation in the Procuring Entity	Interest or Relationship with Tenderer
1			
2			
3			

ii. Conflict of Interest Disclosure

	Type of Conflict	Disclosure YES OR NO	If YES provide details of the relationship with Tenderer
1	Tenderer is directly or indirectly controls, is controlled by or is under common control with another tenderer.		
2	Tenderer receives or has received any direct or indirect subsidy from another Tenderer.		
3	Tenderer has the same legal representative as another tenderer		
4	Tender has a relationship with another tenderer, directly or through common		

	third parties, that puts it in a position to influence the tender of another tenderer, or influence the decisions of the Procuring Entity regarding this tendering process.		
5	Any of the Tenderer's affiliates participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of the tender.		
6	Tenderer would be providing goods, works, non-consulting services or consulting services during implementation of the contract Specified in this Tender Document.		
7	Tenderer has a close business or family relationship with a professional staff of the Procuring Entity who are directly or indirectly involved in the preparation of the Tender document or specifications of the Contract, and/or the Tender evaluation process of such contract.		
8	Tenderer has a close business or family relationship with a professional staff of the Procuring Entity who would be involved in the implementation or supervision of the such Contract.		
9	Has the conflict stemming from such relationship stated in item 7 and 8 above been resolved in a manner acceptable to the Procuring Entity throughout the tendering process and execution of the Contract.		

Certification

On behalf of the Tenderer, I certify that the information given above is complete, current and accurate as at the date of submission.

Full Name _____

Title or Designation _____

_____ _____

(Signature) (Date)

b) CERTIFICATE OF INDEPENDENT TENDER DETERMINATION

I, the undersigned, in submitting the accompanying Letter of Tender to the _____[*Name of Procuring Entity]* for: _____[*Name and number of tender]* in response to the request for tenders made by:_____[*Name of Tenderer*] do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of_____[*Name of Tenderer]* that:

1. I have read and I understand the contents of this Certificate;

2. I understand that the Tender will be disqualified if this Certificate is found not to be true and complete in every respect;

3. I am the authorized representative of the Tenderer with authority to sign this Certificate, and to submit the Tender on behalf of the Tenderer;

4. For the purposes of this Certificate and the Tender, I understand that the word "competitor" shall include any individual or organization, other than the Tenderer, whether or not affiliated with the Tenderer, who:
   a) Has been requested to submit a Tender in response to this request for tenders;
   b) could potentially submit a tender in response to this request for tenders, based on their qualifications, abilities or experience;

5. The Tenderer discloses that [check one of the following, as applicable]:
   a) The Tenderer has arrived at the Tender independently from, and without consultation, communication, agreement or arrangement with, any competitor;
   b) The Tenderer has entered into consultations, communications, agreements or arrangements with one or more competitors regarding this request for tenders, and the Tenderer discloses, in the attached document(s), complete details thereof, including the names of the competitors and the nature of, and reasons for, such consultations, communications, agreements or arrangements;

6. In particular, without limiting the generality of paragraphs (5)(a) or(5)(b) above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
   a) prices;
   b) methods, factors or formulas used to calculate prices;
   c) the intention or decision to submit, or not to submit, a tender; or
   d) the submission of a tender which does not meet the specifications of the request for Tenders; except as specifically disclosed pursuant to paragraph (5)(b) above;

7. In addition, there has been no consultation, communication, agreement or arrangement with any competitor regarding the quality, quantity, specifications or delivery particulars of the works or services to which this request for tenders relates, except as specifically authorized by the procuring authority or as specifically disclosed pursuant to paragraph(5)(b) above;

8. The terms of the Tender have not been, and will not be, knowingly disclosed by the Tenderer, directly or indirectly, to any competitor, prior to the date and time of the official tender opening, or of the awarding of the Contract, whichever comes first, unless otherwise required by law or as specifically disclosed pursuant to paragraph (5)(b) above.

Name
Title
Date

[Name, title and signature of authorized agent of Tenderer and Date]

c) SELF DECLARATION FORMS

FORM SD1

SELF DECLARATION THAT THE PERSON/TENDERER IS NOT DEBARRED IN THE MATTER OF THE PUBLIC PROCUREMENT AND ASSET DISPOSAL ACT 2015.

I, ……., of Post Office Box …….……. being a resident of ……... in the Republic of ……. do hereby make a statement as follows: -

1. THAT I am the Company Secretary/ Chief Executive/Managing Director/Principal Officer/Director of ……...…….. *(insert name of the Company)* who is a Bidder in respect of **Tender No. ……..** for ……. *(insert tender title/description)* for ……. *(insert name of the Procuring entity)* and duly authorized and competent to make this statement.

2. THAT the aforesaid Bidder, its Directors and subcontractors have not been debarred from participating in procurement proceeding under Part IV of the Act.

3. THAT what is deponed to here in above is true to the best of my knowledge, information and belief.

……. ……. …… (Title)
(Signature) (Date)

Bidder Official Stamp

FORM SD2

SELF DECLARATION THAT THE PERSON/TENDERER WILL NOT ENGAGE IN ANY CORRUPT OR FRAUDULENT PRACTICE.

I, ……of P.O. Box …….....……. being a resident of …….. in the Republic of ……. do hereby make a statement as follows: -

1. THAT I am the Chief Executive/Managing Director/Principal Officer/Director of ……..... (insert name of the Company) who is a Bidder in respect of **Tender No.**…… for …… *(insert tender title/description)* for …… *(insert name of the Procuring entity)* and duly authorized and competent to make this statement.

2. THAT the afore said Bidder, its servants and/or agents/subcontractors will not engage in any corrupt or fraudulent practice and has not been requested to pay any inducement to any member of the Board, Management, Staff and/or employees and/or agents of …… *(insert name of the Procuring entity)* which is the procuring entity.

3. THAT the aforesaid Bidder, its servants and/or agents /subcontractors have not offered any inducement to any member of the Board, Management, Staff and/or employees and/or agents of …….. *(name of the procuring entity).*

4. THAT the aforesaid Bidder will not engage /has not engaged in any corrosive practice with other bidders participating in the subject tender

5. THAT what is deponed to here in above is true to the best of my knowledge information and belief.

…… ……

…….....…… (Title)

(Signature) (Date)

Bidder's Official Stamp

DECLARATION AND COMMITMENT TO THE CODE OF ETHICS

I ……. (person) on behalf of ***(Name of the Business/ Company/Firm***)
.....
…….. declare that I have read and fully understood the contents of the Public Procurement & Asset Disposal Act, 2015, Regulations and the Code of Ethics for persons participating in Public Procurement and Asset Disposal and my responsibilities under the Code.

I do here by commit to abide by the provisions of the Code of Ethics for persons participating in Public Procurement and Asset Disposal.

Name of Authorized signatory.....

Sign…….....

Position.....

Office address.....

Telephone..... E-

mail…….....

....

Name of the Firm/Company…….....

Date…….....

(Company Seal/ Rubber Stamp where applicable)

Witness

Name…….....

Sign…….....

Date…….....

d) APPENDIX 1 - FRAUD AND CORRUPTION

(Appendix 1 shall not be modified)

1. Purpose

1.1 The Government of Kenya's Anti-Corruption and Economic Crime laws and their sanction's policies and procedures, Public Procurement and Asset Disposal Act *(no. 33 of 2015)* and its Regulation, and any other Kenya's Acts or Regulations related to Fraud and Corruption, and similar offences, shall apply with respect to Public Procurement Processes and Contracts that are governed by the laws of Kenya.

2. Requirements

2.1 The Government of Kenya requires that all parties including Procuring Entities, Tenderers, (applicants/proposers), Consultants, Contractors and Suppliers; any Sub-contractors, Sub-consultants, Service providers or Suppliers; any Agents (whether declared or not); and any of their Personnel, involved and engaged in procurement under Kenya's Laws and Regulation, observe the highest standard of ethics during the procurement process, selection and contract execution of all contracts, and refrain from Fraud and Corruption and fully comply with Kenya's laws and Regulations as per paragraphs 1.1 above.

2.2 Kenya's public procurement and asset disposal act *(no. 33 of 2015)* under Section 66 describes rules to be followed and actions to be taken in dealing with Corrupt, Coercive, Obstructive, Collusive or Fraudulent practices, and Conflicts of Interest in procurement including consequences for offences committed. A few of the provisions noted below highlight Kenya's policy of no tolerance for such practices and behavior:

1) A person to whom this Act applies shall not be involved in any corrupt, coercive, obstructive, collusive or fraudulent practice; or conflicts of interest in any procurement or as set disposal proceeding;

2) A person referred to under subsection (1) who contravenes the provisions of that sub-section commits an offence;

3) Without limiting the generality of the subsection (1) and (2), the person shall be: -

   a) disqualified from entering into a contract for a procurement or asset disposal proceeding; or

   b) if a contract has already been entered into with the person, the contract shall be voidable;

4) The voiding of a contract by the procuring entity under subsection (7) does not limit any legal remedy the procuring entity may have;

5) An employee or agent of the procuring entity or a member of the Board or committee of the procuring entity who has a conflict of interest with respect to a procurement: -

   a) Shall not take part in the procurement proceedings;

   b) shall not, after a procurement contract has been entered in to, take part in any decision relating to the procurement or contract; and

   c) shall not be a subcontract or for the tender to whom was awarded contract, or a member of the group of tenderers to whom the contract was awarded, but the subcontractor appointed shall meet all the requirements of this Act.

6) An employee, agent or member described in subsection (1) who refrains from doing anything prohibited under that subsection, but for that subsection, would have been within his or her duties shall disclose the conflict of interest to the procuring entity;

7) If a person contravenes subsection (1) with respect to a conflict of interest described in subsection (5)(a) and the contract is awarded to the person or his relative or to another person in whom one of

them had a direct or indirect pecuniary interest, the contract shall be terminated and all costs incurred by the public entity shall be made good by the awarding officer. Etc.

3. In compliance with Kenya's laws, regulations and policies mentioned above, the Procuring Entity:

a) Defines broadly, for the purposes of the above provisions, the terms set forth below as follows:

i) "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;

ii) "fraudulent practice" is any act or omission, including is representation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;

iii) "collusive practice "is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party; "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;

iv) "obstructive practice" is:

- Deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede investigation by Public Procurement Regulatory Authority (PPRA) or any other appropriate authority appointed by Government of Kenya into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or

- acts intended to materially impede the exercise of the PPRA's or the appointed authority's inspection and audit rights provided for under paragraph 2.3 e. below.

b) Defines more specifically, in accordance with the above procurement Act provisions set forth for fraudulent and collusive practices as follows:

"fraudulent practice" includes a misrepresentation of fact in order to influence a procurement or disposal process or the exercise of a contract to the detriment of the procuring entity or the tenderer or the contractor, and includes collusive practices amongst tenderers prior to or after tender submission designed to establish tender prices at artificial non-competitive levels and to deprive the procuring entity of the benefits of free and open competition.

c) Rejects a proposal for award[1] of a contract if PPRA determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;

d) Pursuant to the Kenya's above stated Acts and Regulations, may recommend to appropriate authority(ies) for sanctioning and debarment of a firm or individual, as applicable under the Acts and Regulations;

e) Requires that a clause be included in Tender documents and Request for Proposal documents requiring(i) Tenderers (applicants/proposers), Consultants, Contractors, and Suppliers, and their Sub-contractors, Sub-consultants, Service providers, Suppliers, Agents personnel, permit the PPRA or any other appropriate authority appointed by Government of Kenya to inspect[2] all accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have them audited by auditors appointed by the PPRA or any other appropriate authority appointed by Government of Kenya; and

f) Pursuant to Section 62 of the above Act, requires Applicants/Tenderers to submit along with their Applications/Tenders/Proposals a "Self-Declaration Form" as included in the procurement document declaring that they and all parties involved in the procurement process and contract execution have not engaged/will not engage in any corrupt or fraudulent practices.

2. FORM OF TENDER SECURITY-DEMAND BANK GUARANTEE

Beneficiary:_____

Request for Tenders No:_____

Date:_____

TENDER GUARANTEE No.:_____

Guarantor: _____

1. We have been informed that_____(hereinafter called "the Applicant") has submitted or will submit to the Beneficiary its Tender (hereinafter called" the Tender") for the execution of under Request for Tenders No._____("the ITT").

2. Furthermore, we understand that, according to the Beneficiary's conditions, Tenders must be supported by a Tender guarantee.

3. At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of_____(_____) upon receipt by us of the Beneficiary's complying demand, supported by the Beneficiary's statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating that either the Applicant:

(a) has withdrawn its Tender during the period of Tender validity set forth in the Applicant's Letter of Tender ("the Tender Validity Period"), or any extension thereto provided by the Applicant; or

b) having been notified of the acceptance of its Tender by the Beneficiary during the Tender Validity Period or any extension there to provided by the Applicant, (i) has failed to execute the contract agreement, or (ii) has failed to furnish the Performance.

4. This guarantee will expire: (a) if the Applicant is the successful Tenderer, upon our receipt of copies of the contract agreement signed by the Applicant and the Performance Security and, or (b) if the Applicant is not the successful Tenderer, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the Tendering process; or (ii) thirty days after the end of the Tender Validity Period.

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

_____

[Signature(s)]

3. FORM OF TENDER SECURITY (TENDER BOND)

[The Surety shall fill in this Tender Bond Form in accordance with the

instructions indicated.] BOND NO.____

1. BY THIS BOND *[name of tenderer]* as Principal (hereinafter called "the Principal"), and *[name, legal title, and address of surety],***authorized to transact business in** *[name of country of Purchaser],* as Surety (hereinafter called "the Surety"), are held and firmly bound unto *[name of Purchaser]* as Obligee (hereinafter called "the Purchaser") in the sum of *[amount of Bond][amount in words]*,for the payment of which sum, well and truly to be made, we, the said Principal and Surety, bind ourselves, our successors and as signs, jointly and severally, firmly by these presents.

2. WHERE AS the Principal has submitted or will submit a written Tender to the Purchaser dated the_____day of
_____, 20, for the supply of *[name of Contract]* (herein after called the "Tender").

3. NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if the Principal:

a) Has withdrawn its Tender during the period of Tender validity set forth in the Principal's Letter of Tender ("the Tender Validity Period"), or any extension there to provided by the Principal; or

b) Having been notified of the acceptance of its Tender by the Purchaser during the Tender Validity Period or any extension there to provided by the Principal;(i) failed to execute the Contract agreement; or (ii) has failed to furnish the Performance Security, in accordance with the Instructions to tenderers ("ITT") of the Purchaser's Tendering document.

then the Surety undertakes to immediately pay to the Purchaser up to the above amount upon receipt of the Purchaser's first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser shall state that the demand arises from the occurrence of any of the above events, specifying which event (s) has occurred.

4. The Surety here by agrees that its obligation will remain in full force and effect up to and including the date 30 days after the date of expiration of the Tender Validity Period set forth in the Principal's Letter of Tender or any extension thereto provided by the Principal.

IN TESTIMONY WHEREOF, the Principal and the Surety have caused these presents to be executed in their respective names this day of_____20.

Principal: _____ Surety: _____

Corporate Seal (where appropriate)

Principal: _____ Surety: _____

(Signature) (Signature)

(Printed name and title) (Printed name and title)

4. FORM OF TENDER - SECURING DECLARATION

[The Bidder shall complete this Form in accordance with the instructions indicated]

Date: ..... *[insert date (as day, month and year) of Tender Submission]*

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

To: ..... *[insert complete name of Purchaser]* I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Tender-Securing Declaration.
2. I/We accept that I/we will automatically be suspended from being eligible for tendering in any contract with the Purchaser for the period of time of [insert number of months or years] starting on [insert date], if we are in breach of our obligation(s) under the bid conditions, because we–(a) have withdrawn our tender during the period of tender validity specified by us in the Tendering Data Sheet; or (b) having been notified of the acceptance of our Bid by the Purchaser during the period of bid validity, (i) fail or refuse to execute the Contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the instructions to tenders.
3. I/We understand that this Tender Securing Declaration shall expire if we are not the successful Tenderer(s), upon the earlier of:
   a) Our receipt of a copy of your notification of the name of the successful Tenderer; or
   b) thirty days after the expiration of our Tender.
4. I/We understand that if I am /we are/ in a Joint Venture, the Tender Securing Declaration must be in the name of the Joint Venture that submits the bid, and the Joint Venture has not been legally constituted at the time of bidding, the Tender Securing Declaration shall be in the names of all future partners as named in the letter of intent.

Signed……..……. Capacity/title (director or

partner or sole proprietor, etc.) …….…….....…….

Name……. Duly authorized

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

Dated on ……. day of ……., ……. *[Insert date of signing]* Seal or stamp

Appendix to Tender

Schedule of Currency Requirements

Summary of currencies of the Tender for _____[insert name of Section of the Works]

Name of Currency	**Amounts Payable**
Local Currency _____	
Foreign Currency #1 _____	
Foreign Currency #2 _____	
Foreign Currency #3 _____	
Provisional Sums expressed in local currency _____	[To be entered by the Procuring Entity]

PART II- WORKS REQUIREMENTS

PART III - THE CONDITIONS OF CONTRACT AND CONTRACT

1. TERMINATION BY PROCURING ENTITY

1.1 Notice to correct any defects or failures

If the Contractor fails to carry out any obligation under the Contract, the Architect may by notice require the Contractor to make good the failure and to remedy it within 30 days.

1.2 Termination by Procuring Entity

1.2.1 The Procuring Entity shall be entitled to terminate the Contract if the Contractor breaches the contract based on following circumstances which shall include but not limited to:

a) fails to comply with Sub-Clause 4.2 [Performance Security] or with a notice under Sub-Clause 15.1 [Notice to Correct],

b) abandons the Works or otherwise plainly demonstrates the intention not to continue performance of his obligations under the Contract,

c) without reasonable excuse fails:

i) to proceed with the Works in accordance with Clause 8 [Commencement, Delays and Suspension], or

ii) to comply with a notice issued under Sub-Clause 7.5 [Rejection] or Sub-Clause 7.6 [Remedial Work], within 30 days after receiving it,

d) subcontracts the major part or whole of the Works or assigns the Contract without the consent of the Procuring Entity,

e) becomes bankrupt or insolvent, goes into liquidation, has a receiving or administration order made against him, compounds with his creditors, or carries on business under a receiver, trustee or manager for the benefit of his creditors, or if any act is done or event occurs which (under applicable Laws) has a similar effect to any of these acts or events, or

f) gives or offers to give (directly or indirectly) to any person any bribe, gift, gratuity, commission or other thing of value, as an induce mentor reward:

i) for doing or for bearing to do any action in relation to the Contract, or

ii) for showing or for bearing to show favor or disfavor to any person in relation to the Contract, or

iii) if any of the Contractor's Personnel, agents or Subcontractors gives or offers to give (directly or indirectly) to any person any such induce mentor reward as is described in this sub-paragraph (f). However, lawful inducements and rewards to Contractor's Personnel shall not entitle termination, or

g) If the contract or repeatedly fails to remedy delivers defective work,

h) based on reasonable evidence, has engaged in Fraud and Corruption as defined in paragraph 2.2 of the Appendix B to these General Conditions, in competing for or in executing the Contract.

1.2.2 In any of these events or circumstances, the Procuring Entity may, upon giving 14 days' notice to the Contractor, terminate the Contract and expel the Contractor from the Site. However, in the case of sub-paragraph (e) or (f) or (g) or (h), the Procuring Entity may by notice terminate the Contract immediately.

1.2.3 The Procuring Entity's election to terminate the Contract shall not prejudice any other rights of the Procuring Entity, under the Contractor otherwise.

1.2.4 The Contractor shall then leave the Site and deliver any required Goods, all Contractor's Documents, and other design documents made by or for him, to the Engineer. However, the Contractor shall use his best efforts to comply immediately with any reasonable instructions included in the notice (i) for the assignment of any subcontract, and (ii) for the protection of life or property or for the safety of the Works.

1.2.5 After termination, the Procuring Entity may complete the Works and/ or arrange for any other entities

to do so. The Procuring Entity and these entities may then use any Goods, Contractor's Documents and other design documents made by or on behalf of the Contractor.

1.2.6 The Procuring Entity shall then give notice that the Contractor's Equipment and Temporary Works will be released to the Contractor at or near the Site. The Contractor shall promptly arrange their removal, at the risk and cost of the Contractor. However, if by this time the Contractor has failed to make a payment due to the Procuring Entity, these items may be sold by the Procuring Entity in order to recover this payment. Any balance of the proceeds shall then be paid to the Contractor.

1.3 Valuation at Date of Termination

As soon as practicable after a notice of termination under Sub-Clause 15.2 [Termination by Procuring Entity] has taken effect, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine the value of the Works, Goods and Contractor's Documents, and any other sums due to the Contractor for work executed in accordance with the Contract.

1.4 Payment after Termination

After a notice of termination under Sub-Clause 15.2 [Termination by Procuring Entity] has taken effect, the Procuring Entity may:

a) Proceed in accordance with Sub-Clause 2.5 [Procuring Entity's Claims],

b) withhold further payments to the Contractor until the costs of execution, completion and remedying of any defects, damages for delay in completion (if any), and all other costs incurred by the Procuring Entity, have been established, and/ or

c) recover from the Contractor any losses and damages incurred by the Procuring Entity and any extra costs of completing the Works, after allowing for any sum due to the Contractor under Sub-Clause 15.3 [Valuation at Date of Termination]. After recovering any such losses, damages and extra costs, the Procuring Entity shall pay any balance to the Contractor.

1.5 Procuring Entity's Entitlement to Termination for Convenience

The Procuring Entity shall be entitled to terminate the Contract, at any time at the Procuring Entity's convenience, by giving notice of such termination to the Contractor. The termination shall take effect 30 days after the later of the dates on which the Contractor receives this notice or the Procuring Entity returns the Performance Security. The Procuring Entity shall not terminate the Contract under this Sub-Clause in order to execute the Works itself or to arrange for the Works to be executed by another contractor or to avoid a termination of the Contract by the Contractor under Clause 16.2 [Termination by Contractor]. After this termination, the Contractor shall proceed in accordance with Sub-Clause 16.3 [Cessation of Work and Removal of Contractor's Equipment] and shall be paid in accordance with Sub-Clause 16.4 [Payment on Termination].

1.6 Fraud and Corruption

The Contractor shall ensure compliance with the Kenya Government's Anti-Corruption Laws and its prevailing sanctions.

1.7 Corrupt gifts and payments of commission

1.7.1 The Contractor shall not;

a) Offer or give or agree to give to any person in the service of the Procuring Entity any gift or consideration of any kind as an inducement or reward for doing or for bearing to door for having done or for borne to do any act in relation to the obtaining or execution of this or any other Contract for the Procuring Entity or for showing or for bearing to show favor or disfavor to any person in relation to this or any other contract for the Procuring Entity.

b) Enter into this or any other contract with the Procuring Entity in connection with which commission has been paid or agreed to be paid by him or on his behalf or to his knowledge, unless before the Contract is made particulars of any such commission and of the terms and conditions of any agreement for the payment there of have been disclosed in writing to the Procuring Entity.

1.7.2 Any breach of this Condition by the Contractor or by anyone employed by him or acting on his behalf (whether with or without the knowledge of the Contractor) shall be an offence under the provisions of the Public Procurement and Asset Disposal Act (2015) and the Anti-Corruption and Economic Crimes Act (2003) of the Laws of Kenya.

2. SUSPENSION AND TERMINATION BY CONTRACTOR

1.8 Contractor's Entitlement to Suspend Work

1.8.1 If the Architect fails to certify in accordance with Sub-Clause 14.6 [Issue of Interim Payment Certificates] or Sub-Clause 14.7 [Payment],or not receiving instructions that would enable the contractor to proceed with the works in accordance with the program, the Contractor may, after giving not less than 30 days' notice to the Procuring Entity, suspend work (or reduce the rate of work) unless and until the Contractor has received the Payment Certificate, reasonable evidence or payment, as the case may be and as described in the notice.

1.8.2 The Contractor's action shall not prejudice his entitlements to financing charges under Sub-Clause 14.8 [Delayed Payment] and to termination under Sub-Clause 16.2 [Termination by Contractor].

1.8.3 If the Contractor subsequently receives such Payment Certificate, evidence or payment (as described in the relevant Sub-Clause and in the above notice) before giving a notice of termination, the Contractor shall resume normal working as soon as is reasonably practicable.

1.8.4 If the Contractor suffers delay and/or incurs Cost as a result of suspending work (or reducing the rate of work) in accordance with this Sub-Clause, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:

a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and

b) payment of any such Cost-plus profit, which shall be included in the Contract Price.

1.9 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

1.10 Termination by Contractor

1.10.1 The Contractor shall be entitled to terminate the Contract if:

a) the Architect fails, within 60 days after receiving a Statement and supporting documents, to issue the relevant Payment Certificate,

b) the Contractor does not receive the amount due under an Interim Payment Certificate within 90 days after the expiry of the time stated in Sub-Clause1 4.7 [Payment] within which payment is to be made (except for deductions in accordance with Sub-Clause 2.5 [Procuring Entity's Claims]),

c) the Procuring Entity substantially fails to perform his obligations under the Contract in such manner as to materially and adversely affect the economic balance of the Contract and/or the ability of the Contractor to perform the Contract,

d) a prolonged suspension affects the whole of the Works as described in Sub-Clause 8.11 [Prolonged Suspension], or

e) the Procuring Entity becomes bankrupt or insolvent, goes into liquidation, has a receiving or administration order made against him, compounds with his creditors, or carries on business under a receiver, trustee or manager for the benefit of his creditors, or if any act is done or event occurs which (under applicable Laws) has a similar effect to any of these acts or events.

f) the Contractor does not receive the Architect instruction recording the agreement of both Parties on the fulfilment of the conditions for the Commencement of Works under Sub-Clause 8.1 [Commencement of Works].

1.10.2 In any of these events or circumstances, the Contractor may, upon giving 14 days' notice to the Procuring Entity, terminate the Contract. However, in the case of sub-paragraph (f) or (g), the Contractor may by notice terminate the Contract immediately.

1.10.3 The Contractor's election to terminate the Contract shall not prejudice any other rights of the Contractor, under the Contractor otherwise.

1.11 Cessation of Work and Removal of Contractor's Equipment

After a notice of termination under Sub-Clause 15.5 [Procuring Entity's Entitlement to Termination for Convenience], Sub-Clause 16.2 [Termination by Contractor] or Sub-Clause 19.6 [Optional Termination, Payment and Release] has taken effect, the Contractor shall promptly:

a) cease all further work, except for such work as may have been instructed by the Architect for the protection of life or property or for the safety of the Works,
b) hand over Contractor's Documents, Plant, Materials and other work, for which the Contractor has received payment, and
c) remove all other Goods from the Site, except as necessary for safety, and leave the Site.

1.12 Payment on Termination

After a notice of termination under Sub-Clause 16.2 [Termination by Contractor] has taken effect, the Procuring Entity shall promptly:

a) Return the Performance Security to the Contractor,
b) pay the Contractor in accordance with Sub-Clause 19.6 [Optional Termination, Payment and Release], and
c) pay to the Contractor the amount of any loss or damage sustained by the Contractor as a result of this termination.

3. RISK AND RESPONSIBILITY

1.13 Indemnities

1.13.1 The Contractor shall indemnify and hold harmless the Procuring Entity, the Procuring Entity's Personnel, and their respective agents, against and from all claims, damages, losses and expenses (including legal fees and expenses) in respect of:

a) Bodily injury, sickness, disease or death, of any person what so ever arising out of or in the course of or by reason of the Contractor's design (if any), the execution and completion of the Works and the remedying of any defects, unless attributable to any negligence, willful actor breach of the Contract by the Procuring Entity, the Procuring Entity's Personnel, or any of their respective agents, and
b) damage to or loss of any property, real or personal (other than the Works), to the extent that such damage or loss arises out of or in the course of or by reason of the Contractor's design (if any), the execution and completion of the Works and the remedying of any defects, unless and to the extent that any such damage or loss is attributable to any negligence, willful act or breach of the Contract by the Procuring Entity, the Procuring Entity's Personnel, their respective agents, or anyone directly or indirectly employed by any of them.

1.13.2 The Procuring Entity shall indemnify and hold harmless the Contractor, the Contractor's Personnel, and their respective agents, against and from all claims, damages, losses and expenses (including legal fees and expenses) in respect of (1) bodily injury, sickness, disease or death, which is attributable to any negligence, willful act or breach of the Contract by the Procuring Entity, the Procuring Entity's

Personnel, or any of their respective agents, and (2) the matters for which liability may be excluded from insurance cover, as described in sub-paragraphs (d)(i), (ii) and (iii) of Sub-Clause 18.3 [Insurance Against Injury to Persons and Damage to Property], unless and to the extent that any such damage or loss is attributable to any negligence, willful actor breach of the Contract by the contractor, the contractor's Personnel, their respective agents, or anyone directly or indirectly employed by any of them.

Section IX - Special Conditions of Contract

The following Special Conditions shall supplement the GCC. Whenever there is a conflict, the provisions here in shall prevail over those in the GCC.

Part A - Contract Data

.

Number of GC Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract
	A. General
GCC 1.1 (q)	The Procuring Entity is *[insert name, address, and name of authorized representative]*.
GCC 1.1 (u)	The Intended Completion Date for the whole of the Works shall be SIX MONTHS FROM COMMENCEMENT DATE *[If different dates are specified for completion of the Works by section ("sectional completion" or milestones), these dates should be listed here]*
GCC 1.1 (z)	The Site is located at Ukulima Cooperative Building
GCC 1.1 (cc)	The Start Date shall be as agreed with the **Project manager (PM)**
GCC 1.1 (gg)	The Works consist of AS PER DWGS, BQS,
GCC 2.2	Sectional Completions are: N/A*[insert nature and dates, if appropriate]*
GCC 5.1	The Project manager ***MAY* DELEGATE** any of his duties and responsibilities.
GCC 8.1	Schedule of other contractors: *[insert Schedule of Other Contractors, if appropriate]*
GCC 9.1	**Key Personnel -N/A** GCC 9.1 is replaced with the following: 9.1 Key Personnel are the Contractor's personnel named in this GCC 9.1 of the Special Conditions of Contract. The Contractor shall employ the Key Personnel and use the equipment identified in its Bid, to carry out the Works or other personnel and equipment approved by the Project Manager. The Project Manager shall approve any proposed replacement of Key Personnel and equipment only if their relevant qualifications or characteristics are substantially equal to or better than those proposed in the Bid. [insert the name/s of each Key Personnel agreed by the Procuring Entity prior to Contract signature.]

GCC 13.1	The minimum insurance amounts and deductibles shall be: (a) for loss or damage to the Works, Plant and Materials:2.5% *[insert amounts]*. (b) For loss or damage to Equipment: 2.5% *[insert amounts]*. (c) for loss or damage to property (except the Works, Plant, Materials, and Equipment) in connection with Contract 2.5% *[insert amounts]*. (d) for personal injury or death: (i) of the Contractor's employees: 2%*[amount]*. (ii) of other people: 2%*[[amount]*.
GCC 14.1	Site Data are: *[list Site Data]*
GCC 20.1	The Site Possession Date(s) shall be: **TO BE COMMUNICATEED BY PM**
GCC 23.1 &	Appointing Authority for the Adjudicator: **ACCOUNTING OFFICER**
Number of GC Clause	**Amendments of, and Supplements to, Clauses in the General Conditions of Contract**
GCC 23.2	
	Hourly rate and types of reimbursable expenses to be paid to the Adjudicator: TO BE DETERMINED *[insert hourly fees and reimbursable expenses]*.
B. Time Control	
GCC 26.1	The Contractor shall submit for approval a Program for the Works within 7 DAYS days from the date of the Letter of Acceptance.
GCC 26.3	The period between Program updates is 7 DAYS days. The amount to be withheld for late submission of an updated Program is WHOLE.
C. Quality Control	
GCC 34.1	The Defects Liability Period is: SIX MONTHS FROM PRACTICAL COMPLETION DATE days. *[The Defects Liability Period is usually limited to 12 months, but could be less in very simple cases]*
D. Cost Control	
GCC 38.9	If the value engineering proposal is approved by the Procuring Entity the amount to be paid to the Contractor shall be_% *(insert appropriate percentage. The percentage is normally up to 50%)* of the reduction in the Contract Price. N/A
GCC 44.1	The currency of the Procuring Entity's Country is: *[insert name of currency of the* Procuring Entity's Country*]*.**KES**
GCC 45.1	The Contract *"is not"* subject to price adjustment in accordance with GCC Clause 45, and the following information regarding coefficients *[specify "does" or "does not"]* apply. *[Price adjustment is mandatory for contracts which provide for time of completion exceeding 18 months]* The coefficients for adjustment of prices are: (a) *[insert percentage]* percent nonadjustable element (coefficient A). (b) *[insert percentage]* percent adjustable element (coefficient B). (c) The Index I for shall be *[insert index]*.
GCC 46.1	The proportion of payments retained is: 10% *[insert percentage]*

GCC 47.1	The liquidated damages for the whole of the Works are *5%* per day. The maximum amount of liquidated damages for the whole of the Works is *10%* of the final Contract Price.
GCC 48.1	The Bonus for the whole of the Works is *[insert percentage of final Contract Price]* per day. The maximum amount of Bonus for the whole of the Works is *[insert percentage]* of the final Contract Price**. N/A**
Number of GC Clause	**Amendments of, and Supplements to, Clauses in the General Conditions of Contract**
GCC 49.1	The Advance Payments shall be: *[insert amount(s)]* and shall be paid to the Contractor not later than *[insert date(s)]*. SHALL NOT BE APPLICABLE
GCC 50.1	The Performance Security amount is 5% OF CONTRACT SUM*[insert amount(s) denominated in the types and proportions of the currencies in which the Contract Price is payable, or in a freely convertible currency acceptable to the* Procuring Entity*]* (a) Performance Security – Bank Guarantee: in the amount(s) of *[insert related figure(s)]* percent of the Accepted Contract Amount and in the same currency(ies) of the Accepted Contract Amount.-APPLICABLE (b) Performance Security – N/A Performance Bond: in the amount(s) of *[insert related figure(s)]* percent of the Accepted Contract Amount and in the same currency(ies) of the Accepted Contract Amount.
E. Finishing the Contract	
GCC 56.1	The date by which operating and maintenance manuals are required is *[insert date]*. The date by which "as built" drawings are required is N/A*[insert date]*.
GCC 56.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required in GCC 58.1 is 0.05% *[insert amount in local currency]*.
GCC 57.2 (g)	The maximum number of days is: *[insert number; consistent with Clause 47.1 on liquidated damages]*.
GCC 58.1	The percentage to apply to the value of the work not completed, representing the Procuring Entity's additional cost for completing the Works, is 20%.

SECTION X - CONTRACT FORMS

FORM No. 1 - NOTIFICATION OF INTENTION TO AWARD

FORM No. 2 - NOTIFICATION OF AWARD - LETTER OF ACCEPTANCE

FORM No. 3 - CONTRACT AGREEMENT

FORM No. 4 - PERFORMANCE SECURITY [Option 1 - Unconditional Demand Bank Guarantee]

FORM No. 5- PERFORMANCE SECURITY [Option 2– Performance Bond]

FORM No. 6 - ADVANCE PAYMENT SECURITY

FORM No. 7 - RETENTION MONEY SECURITY

FORM No 1: NOTIFICATION OF INTENTION TO AWARD OF CONTRACT

This Notification of Award shall be sent to each Tenderer that submitted a Tender and was not successful. Send this Notification to the Tenderer's Authorized Representative named in the Tender Information Form on the format below.

FORMAT

1. For the attention of Tenderer's Authorized Representative

   i) Name: *[insert Authorized Representative's name]*

   ii) Address: *[insert Authorized Representative's Address]*

   iii) Telephone: *[insert Authorized Representative's telephone/fax numbers]*

   iv) Email Address: *[insert Authorized Representative's email address]*

   [IMPORTANT: insert the date that this Notification is transmitted to Tenderers. The Notification must be sent to all Tenderers simultaneously. This means on the same date and as close to the same time as possible.]

2. Date of transmission: [*email*] on [*date*] (local time)

   This Notification is sent by (*Name and designation*)

---

3. Notification of Award

   i) Procuring Entity: *[insert the name of the Procuring Entity]*

   ii) Project: *[insert name of project]*

   iii) Contract title: *[insert the name of the contract]*

   iv) ITT No: *[insert ITT reference number from Procurement Plan]*

   This Notification of Intention to Award (Notification) notifies you of our decision to award the above contract. The transmission of this Notification begins the Standstill Period. During the Standstill Period, you may:

4. Request a debriefing in relation to the evaluation of your tender by submitting a Procurement-related Complaint in relation to the decision to award the contracts.

a) The successful tenderers

i) Name of successful Tender

ii) Address of the successful Tender

---

iii) Contract price of the successful Tender Kenya Shillings

_____

(in words_____)

b) The reasons for your tender being unsuccessful are as follows:

c) Other Tenderers

Names of all Tenderers that submitted a Tender. If the Tender's price was evaluated include the evaluated price as well as the Tender price as read out.

SNo	Name of Tender	Tender Price as read out	Tender's evaluated price (Note a)	One Reason Why Not Evaluated
1				
2				
3				
4				
5				

(Note a) State NE if not evaluated

5. How to request a debriefing

a) DEADLINE: The dead line to request a debriefing expires at midnight on [*insert date*] (*local time*).

b) You may request a debriefing in relation to the results of the evaluation of your Tender. If you decide to request a debriefing your written request must be made within three (5) Business Days of receipt of this Notification of Intention to Award.

c) Provide the contract name, reference number, name of the Tenderer, contact details; and address the request for debriefing as follows:
   i) Attention: [*insert full name of person, if applicable*]
   ii) Title/position: [*insert title/position*]
   iii) Agency: [*insert name of Procuring Entity*]
   iv) Email address: [*insert email address*]

d) If your request for a debriefing is received within the 3 Days deadline, we will provide the debriefing within five (3) Business Days of receipt of your request. If we are unable to provide the debriefing within this period, the Standstill Period shall be extended by five (3) Days after the date that the debriefing is provided. If this happens, we will notify you and confirm the date that the extended Standstill Period will end.

e) The debriefing may be in writing, by phone, video conference call or in person. We shall promptly advise you in writing how the debriefing will take place and confirm the date and time.

f) If the deadline to request a debriefing has expired, you may still request a debriefing. In this case, we will provide the debriefing as soon as practicable, and normally no later than fifteen (15) Days from the date of publication of the Contract Award Notice.

6. How to make a complaint?

a) Period: Procurement-related Complaint challenging the decision to award shall be submitted by midnight, [*insert date*] (local time).

b) Provide the contract name, reference number, name of the Tenderer, contact details; and address the Procurement-related Complaint as follows:
   i) Attention: [*insert full name of person, if applicable*]
   ii) Title/position: [*insert title/ position*]
   iii) Agency: [*insert name of Procuring Entity*]
   iv) Email address: [*insert email address*]

c) At this point in the procurement process, you may submit a Procurement-related Complaint challenging the decision to award the contract. You do not need to have requested, or received, a debriefing before making this complaint. Your complaint must be submitted within the Standstill Period and received by us before the Standstill Period ends.

d) Further information: For more information refer to the Public Procurement and Disposals Act 2015 and its Regulations available from the Website www.ppra.go.ke.

You should read these documents before preparing and submitting your complaint.

e) There are four essential requirements:
   i) You must be an 'interested party'. In this case, that means a Tenderer who submitted a Tender in this tendering process and is the recipient of a Notification of Intention to Award.
   ii) The complaint can only challenge the decision to award the contract.
   iii) You must submit the complaint within the period stated above.
   iv) You must include, in your complaint, all of the information required to support your complaint.

7. Standstill Period

i) DEADLINE: The Standstill Period is due to end at midnight on [*insert date*] (local time).
ii) The Standstill Period lasts ten (14) Days after the date of transmission of this Notification of Intention to Award.
iii) The Standstill Period may be extended as stated in paragraph Section 5(d) above.

If you have any questions regarding this Notification please do not hesitate to contact us. On behalf of the Procuring Entity:

Signature:_____

Name:_____

Title/position:_____

_____**T**

elephone:

FORM NO 2: LETTER OF AWARD

[letterhead paper of the Procuring Entity]

[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 Contract Data]* for the Accepted Contract Amount *[amount in numbers and words] [name of currency]*, as corrected and modified in accordance with the Instructions to Tenderers, is here by accepted by…… *(name of Procuring Entity)*.

You are requested to furnish the Performance Security within in accordance with the Conditions of Contract, using, for that purpose, one of the Performance Security Forms included in Section VIII, Contract Forms, of the Tender Document.

Authorized Signature: .....

Name and Title of Signatory: .....

Name of Procuring Entity: .....

Attachment: *Contract Agreement:* .....

FORM NO 3: CONTRACT AGREEMENT

THIS AGREEMENT made the day of……. 20……., between……. ……...of……. (hereinafter "the Procuring Entity"), of the one part, and_____of _____(hereinafter "the Contractor"), of the other part:

WHEREAS the Procuring Entity desires that the Works known as _____should be executed by the Contractor, and has accepted a Tender by the Contractor for the execution and completion of these Works and the remedying of any defects there in,

The Procuring Entity and the Contractor agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.

2. The following documents shall be deemed to form and be read and construed as part of this Agreement.

This Agreement shall prevail over all other Contract documents.

a) The Notification of Award
b) the Form of Tender
c) the addenda Nos_____(if any)
d) the Special Conditions of Contract
e) the General Conditions of Contract;
f) the Specifications
g) the Drawings; and
h) the completed Schedules and any other documents forming part of the contract.

3. In consideration of the payments to be made by the Procuring Entity to the Contractor as specified in this Agreement, the Contractor here by covenants with the Procuring Entity to execute the Works and to remedy defects therein in conformity in all respects with the provisions of the Contract.

4. The Procuring Entity here by covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects there in, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

INWITNESS where of the parties here to have caused this Agreement to be executed in accordance with the Laws of Kenya on the day, month and year specified above.

Signed and sealed by_____(for the Procuring Entity)

Signed and sealed by_____(for the Contractor).

FORM NO. 4 - PERFORMANCE SECURITY

[Option 1 - Unconditional Demand Bank Guarantee]

[Guarantor letterhead]

Beneficiary: *[insert name and Address of Procuring Entity]*

Date: _____*[Insert date of issue]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

1. We have been informed that_____(hereinafter called "the Contractor") has entered into Contract No._____dated_____with (*name of Procuring Entity*)_____(the Procuring Entity as the Beneficiary), for the execution of _____(Hereinafter called "the Contract").

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

3. At the request of the Contractor, we as Guarantor, here by irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of_____(*in words*),[1] such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate

signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.

4. This guarantee shall expire, no later than the……...Day of……,2...…[2], and any demand for payment under it must be received by us at the office indicated above on or before that date.

5. The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed *[six months] [one year],* in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee." .....

[Name of Authorized Official, signature(s) and seals/stamps]

Note: *All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.*

FORM No. 5- PERFORMANCE SECURITY

[Option 2– Performance Bond]

*[**Note:** Procuring Entities a readvised to use Performance Security – Unconditional Demand Bank Guarantee instead of Performance Bond due to difficulties involved in calling Bond holder to action]*

[Guarantor letterhead or SWIFT identifier code]

Beneficiary *[insert name and address of* Procuring

Entity*]* **Date:** _____*[Insert date of issue]* **PERFORMANCE BOND No.:**__

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

1. By this Bond_____ as Principal (hereinafter called "the Contractor") and_____] as Surety (hereinafter called "the Surety"),are held and firmly bound unto_____] as Obligee (hereinafter called "the Procuring Entity") in the amount of_____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.

2. WHEREAS the Contractor has entered into a written Agreement with the Procuring Entity dated the_____day of_____,20_____, for_____in accordance with the documents, plans, specifications, and amendments there to, which to the extent here in provided for, are by reference made part here of and are here in after referred to as the Contract.

3. 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 Procuring Entity to be, in default under the Contract, the Procuring Entity having performed the Procuring Entity's obligations there under, the Surety may promptly remedy the default, or shall promptly:

   a) Complete the Contract in accordance with its terms and conditions; or

   b) Obtain a tender or tenders from qualified tenderers for submission to the Procuring Entity for

completing the Contract in accordance with its terms and conditions, and upon determination by the Procuring Entity and the Surety of the lowest responsive Tenderers, arrange for a Contract between such Tenderer, and Procuring Entity and make a 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 Procuring Entity to Contractor under the Contract, less the amount properly paid by Procuring Entity to Contractor; or

c) Pay the Procuring Entity the amount required by Procuring Entity to complete the Contract in accordance with its terms and conditions up to a total not exceeding the amount of this Bond.

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

5. Any suit under this Bond must be instituted before the expiration of one year from the date of the issuing of the Taking-Over Certificate. No right of action shall accrue on this Bond to or for the use of any person or corporation other than the Procuring Entity named here in or the heirs, executors, administrators, successors, and assigns of the Procuring Entity.

6. In testimony whereof, the Contractor has here unto set his hand and affixed his seal, and the Surety has caused these presents to be sealed with his corporate seal duly at tested by the signature of his legal representative, this day of_____20_____.

SIGNED ON_____on behalf of_____

By_____in the capacity of_____

In the presence of _____

SIGNED ON_____on behalf of_____

By_____in the capacity of
_____

In the presence of
_____

FORM NO. 6 - ADVANCE PAYMENT SECURITY

[Demand Bank Guarantee]
[Guarantor letterhead]
Beneficiary:_____*[Insert name and Address of* Procuring Entity*]* **Date:**_____*[Insert date of issue]*
ADVANCE PAYMENT GUARANTEE No.: *[Insert guarantee reference number]*
Guarantor: [*Insert name and address of place of issue, unless indicated in the letterhead]*

1. We have been informed that_____(hereinafter called "the Contractor") has entered into Contract No._____*dated*_____with the Beneficiary, for the execution of _____ (hereinafter called" the Contract").

2. Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum _____(*in words*_____) is to be made against an advance payment guarantee.

3. At the request of the Contractor, we as Guarantor, here by irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of_____(*in words*_____)[1] upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating either that the Applicant:
   a) Has used the advance payment for purposes other than the costs of mobilization in respect of the Works; or
   b) Has failed to repay the advance payment in accordance with the Contract conditions, specifying the amount which the Applicant has failed to repay.

4. A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Beneficiary's bank stating that the advance payment referred to above has been credited to the Contractor on its account number_____at_____.

5. The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Contractor as specified 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 ninety (90) percent of the Accepted Contract Amount, less provisional sums, has been certified for payment, or on the___day of_____,2_____,[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.

6. The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed *[six months] [one year],* in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.

[Name of Authorized Official, signature(s) and seals/stamps

FORM NO. 7 – RETENTION MONEY SECURITY
[Demand Bank Guarantee]
[Guarantor letterhead]
Beneficiary:_____*[Insert name and Address of* Procuring Entity*]*

Date:_____*[Insert date of issue]*

Advance payment guarantee no. *[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

1. We have been informed that_____*[insert name of Contractor, which in the case of a joint venture shall be the name of the joint venture]* (hereinafter called "the Contractor") has entered into Contract No. _____*[insert reference number of the contract]* dated_____with the Beneficiary, for the execution of_____*[insert name of contract and brief description of* Works*]* (hereinafter called "the Contract").

2. Furthermore, we understand that, according to the conditions of the Contract, the Beneficiary retains moneys up to the limit set forth in the Contract ("the Retention Money"), and that when the Taking-Over Certificate has been issued under the Contract and the first half of the Retention Money has been certified for payment, and payment of *[*insert the second half of the Retention Money] is to be made against a Retention Money guarantee.

3. At the request of the Contractor, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of *[insert amount in figures]*_____ (*[insert amount in words*_____*])*[1] upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or showgrounds for your demand or the sum specified there in.

4. A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Beneficiary's bank stating that the second half of the Retention Money as referred to above has been credited to the Contractor on its account number_____at_____*[insert name and address of Applicant's bank]*.

5. This guarantee shall expire no later than the.....Day of.....2.....[2], and any demand for payment under it must be received by us at the office indicated above on or before that date.

6. The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed *[six months] [one year],* in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.

_____

[Name of Authorized Official, signature(s) and seals/stamps]

Note: *All italicized text (including footnotes) is for use in preparing this form and shall be delete from the final product.*

BILLS OF QUANTITIES

AND

SPECIFICATIONS

FOR

PROPOSED PARTITIONING AND INTERIOR FIT OUT OF 7TH FLOOR AND ALTERATIONS TO 5TH AND 6TH FLOORS UKULIMA COOPERATIVE BUILDING.

FOR

NG-CDF BOARD

MAY 2024

TABLE OF CONTENTS

1	Specifications	I - Lxxii
2	Bill No. 1 - Preliminaries	1/1
3	Bill No. 2 - Demolitions	2/1
4	Bill No. 3 - Builder's Work	3/1 - 3/15
5	Bill No. 4 - Plumbing and Drainage	4/1 - 4/7
6	Bill No. 5 - AC and Mechanical Ventilation	5/1 - 5/3
7	Bill No. 6 - Electrical Services	6/1 - 6/5
8	Bill No. 7 - Security Systems CCTV	7/1 - 7/2
9	Bill No. 8 - Structured Cabling	8/1 - 8/3
10	Bill No. 9 - Public Address System	9/1 - 9/2
11	Bill No. 10 - PC and Provisional Sums	10/1
12	Bill No. 11 - Alteration Works to 5th and 6th Floor	11/1 - 11/9
13	Main Summary	MS

SPECIFICATIONS

TRADE PREAMBLES. NOTES:

Descriptions of the measured works in these bills of quantities shall be read in conjunction with these preambles. Where there is a conflict between the said descriptions and these preambles, clarification should be sought from the Architect. Should the Contractor find no parallel specification for items described in the bills, he should notify the Architect and seek further directions before pricing and / or proceeding with the work.

Any work which may be condemned because of the Contractor's failure to observe the provision here above shall be rectified at the Contractor's cost.

The term Engineer wherever used in this section refers to the project Structural Engineer.

TRADE PREAMBLES GENERAL.

GENERALLY.

Generally, for the purpose of the proposed buildings the following British standard specifications are referred to or their equivalent Kenya Bureau of standard specifications.

i. Glossary of general building terms to conform to B.S.3589.
ii. Schedule of weights of Building materials to conform to B.S.648
iii. Glossary of formwork terms to conform to B.S.4330
iv. Glossary of terms relating to timber preservation to conform to B.S.426
v. Glossary of terms relating to builder's hardware to conform to B.S.3827, Part 1-4
vi. Glossary of terms relating to internal flooring, external rendering and floor screeding to conform to B.S.4049
vii. Glossary of terms applicable to sanitation to conform to B.S.4118
viii. Glossary of terms used in glass industry to conform to B.S.3447
ix. Glossary of terms applicable to paint to conform to B.S.2015
x. Glossary of terms applicable to landscapes work to conform to B.S.3975
xi. Method of testing plasters top to conform to B.S. 2782
xii. Fire tests on building materials and structures to conform to B.S.476 part 2,3,4,5,6, and 7.

WALLING.

CONCRETE BLOCKS.

Concrete blocks walling 150 mm thick shall have minimum crushing strength of 10.5 Newtons per square millimeter.

All concrete blocks must be cured for a minimum period of four weeks before they are used and all testing of blocks is to be carried out by the Ministry of Works Materials Testing Laboratory.

WALL REINFORCEMENT.

Where so specified, shall consist of Hoop Iron 25 mm wide, one strip per 75 mm of wall thickness, laid in alternate joints for the full length of walls, lapped and cramped at running joints and full width of wall at angles and intersections.

CHASING.

In load bearing walling for electrical conduit, pipes etc., is to be kept to a minimum. The size to be cut and position and runs of chases are to be approved by the Architect before any cutting is commenced. Horizontal runs will not be permitted. All walls less than 200 mm thick shall be reinforced.

CEMENT.

The cement shall be as described under "Concrete Works".

SAND.

The sand for mortars shall be as described in "Concrete Work" except that it shall be fine.

LIME.

The lime shall be as described in "plaster work".

NATURAL STONE WALLING.

Where masonry walls are specified, they shall be constructed of Natural Blue Stone and finished as described under the specification item description in the measured works section of these Bills of Quantities.

MORTARS.

Cement mortar shall consist of one part of Portland cement, and three parts of sand by volume. (1:3)

The cement/lime mortar shall consist of one part of Portland cement, one part of lime and six parts of sand by volume. (1:1:6)

The ingredients of mortar shall be measured in proper gauge boxes on boarded platform the ingredients being thoroughly mixed dry, and again whilst adding water. In case of cement/lime mortar the sand and lime shall be mixed first then the cement added All mortar is to be thoroughly mixed to a uniform consistency with only sufficient water to obtain a plastic condition suitable for trowelling. No mortar that has commenced to set is to be used or re-mixed

SETTING OUT.

The Contractor shall provide proper setting out rods and set out with the same all work showing openings, heights, cills and lintels and shall build the various walls and piers to the thickness, widths and heights shown upon the drawings. No part of the walling shall be carried up more than three feet higher at one time than any other part and in such cases the jointing shall be made in long steps so as to prevent cracks arising and all walls shall be leveled round at floors and wall heads.

BONDING.

All blocks shall be properly bonded together and in such a manner that no vertical joints in any one course shall be within 115 mm of a similar joint in the course immediately above and below. Alternate courses of walling at all angles and intersections shall be carried through the full thickness of the adjoining walls.

All perpends, reveals, quoins and other angles and joints of the walls, etc. shall be built strictly true and square.

LAYING AND JOINTING.

All bricks and blocks are to be well wetted before laying and tops of walls where left off shall be well wetted before commencing building All joints are to be 9 mm thick and flushed up and grouted in solid as the works proceeds.

All the other faces shall be cleaned down on completion with a wire brush or as necessary and mortar droppings, smear marks, etc., removed and rates must include for this.

PUTLOG HOLES.

All putlog holes shall be carefully, properly and completely filed up on completion of walling and before plastering is commenced.

FAIR FACE.

Walling described as fair faced shall be built with selected blocks and pointed with neat recessed joints.

DAMP PROOF COURSE.

Damp proof course shall be bituminous felt complying with B.S. 743 weighing not less than 3.80 Kg per meter, free from tears, holes, lapped and 150 mm at running joints and full width of wall at angles, and intersections and bedded in hot bitumen on a leveling screed of cement and sand (1.4) 10 mm thick neatly pointed where exposed.

PRICES TO INCLUDE.

The prices for walling shall include for all straight cutting, bonding plumbing angles, forming reveals, pining up to underside of concrete soffits and cutting up to sides of columns and cutting and pinning ends of lintels and cills.

CARPENTRY.

TIMBER.

All timber shall be in accordance with the latest approved Grading Rules issued by the Government of Kenya (legal notice No. 348). Timber for carpentry shall be second (or select) grade.

GENERALLY.

All timber shall be inspected as it arrives on the site by the Contractor, and any timber brought on the site and not complying with Specification or not approved must be removed forthwith from the site and only approved timber shall be used in the works.

The Contractor shall upon signing the Contractor, purchase sufficient supplies of specified hardwood to avoid possible shortages of a later date.

SPECIES OF TIMBER.

The following timber shall be used: - Standard Common names

Cypress, Podo, Cedar, Camphor, African Mahogany (Munyama), Meru Oak

TOLERANCES IN THICKNESS.

Shall conform with the following extracts from the Government of Kenya Grading Rules (or the Metric equivalent).

1. Hardwood Grading: (First and Second Grades) The following tolerances in thickness will be admitted: -
    a. 1.5 mm oversize on pieces up to 25 mm in thickness.
    b. 1/8 in oversize on pieces over 25 mm and up to 50 mm in thickness.
    c. 6 mm oversize on pieces over 50 mm in thickness.
2. Softwood grading: Strength Grades (for carpentry) First and Second Grades. Undersize not allowed. Oversize: all timber to be sawn oversize by 1.5 mm per 25 m thickness and width. Not more than 3 mm in thickness and not more than 6 mm in width.
3. Softwood Grading: appearance, grades (for Joinery) First and Second Grades.

All as for Strength Grades above.

All timber shall be free of live or dead borer beetle or other insect attack when brought upon the site. The Contractor shall be responsible up to the end of the maintenance period for executing at his own cost all work necessary to eradicate insect attack of timber which becomes evident including the replacement of timber attacked or suspected of being attacked, notwithstanding that the timber concerned may have already been inspected and passed as fit for use.

SEASONING OF TIMBER.

All timber shall be seasoned to moisture content of not more than 22% for carpentry.

PRESSURE IMPREGNATION TREATMENT.

All carpentry timber, sawn joinery and timber grounds for fixing shall be treated with pressure impregnated “Celcure” or “Tanalith” solution with minimum net retention of 0.35 lbs. of dry salt per cubic foot. If so required “charge sheets” issued after treatment with “Celcure” or “Tanalith” shall be submitted by the Contractor to the Architect for his retention. All cut ends and any other cut faces or timbers sawn after treatment shall be treated before fixing with “Celcure” or “Wolmol” solution brushed on. The Contractors prices for such timber hereinafter must allow for the above treatment.

INSPECTION AND TESTING.

The Architect shall be given facilities for inspection of all works in progress whether in workshop or on site. The Contractor is to allow for testing or prototypes of special construction units and the Architect shall be at liberty to select any samples he may require for the purpose of testing i.e. for moisture content, or identification, strength, etc., Such tests shall be carried out by the Forestry Department, The University of Nairobi, or Kenya Bureau of Standards.

CLEARING UP.

The Contractor is to clear out and destroy all cut ends, shaving and other wood waste from all parts of the building and the site generally, as the work progresses and at the conclusion of the work.

This is to prevent accidental borer infestation and to discourage termites and decay.

WORKMANSHIP.

All Carpenter's work shall be accurately set out in strict accordance with the drawings and shall be framed together and securely fixed in the best responsible manner with properly made joints: all bands, nails and screws etc. shall be provided as necessary, directed, and approved, and the Contractor's prices shall allow for all the foregoing.

All workmanship shall be of the best quality.

All Carpenters work shall be left with sawn surfaces except where particularly specified to be wrought.

DIMENSIONS.

Dimensions of timber for Carpentry left with sawn faces shall comply with the previous clause specifying tolerance in thickness. Dimensions for wrought members shall be as described in joinery.

JOINTING.

All timber shall be as long as possible and practicable to eliminate joints. Where joints are unavoidable surfaces shall be in contact over the whole area of the joint before fastenings are applied.

No nails, screws or bolts are to be fixed in any split end. If splitting is likely, or is encountered in the course of the work, holes for nails are to be pre-bored at diameters not exceeding 4/5th of the diameter of the nails. Clenched nails must be bent at right angles to the grain. Bulldog connectors shall also be used for connections where appropriate.

Lead holes are to be bored for all screws. When the use of bolts is specified, the holes are to be bored from both sides of the timber and are to be of the diameter D+ 1.6, where D is the diameter of the bolt. Nuts must be brought up tight but care is to be taken to avoid crushing of the timber under the washers.

FIXING JOINERY.

All beads, fillets and small members shall be fixed with round or oval brads or nails well punched in and stopped. All larger members shall be fixed with screws. Brass screws shall be used for fixing of all hardwoods, the heads, let in and palleted over with wood to march the grain.

BEDDING FRAMES, ETC.

The contractor's rates must include for bedding frames, sills, etc., in mortar or dressing surfaces of walls etc. in lieu.

PLUGGING CONCRETE AND WALLS.

Round wood plugs shall not be used, all work described shall be fixed with screws to plugs formed by drilling concrete walls, etc., with a proper tool of suitable size at 750 mm spacing and filling the holes completely with "philplug" rawl plastic or rawl plugs in accordance with the manufacturer's instructions. Alternatively, and where so agreed by the Architect hardwood dovetailed fixing slips, dipped in „wolmanol" or „Celcure B" solution and cut and pinned or bedded in cement mortar (1.3) may be used.

FIBREBOARD.

Shall be 12 mm "Celotex" or equal and approved.

PLYWOOD.

Shall comply with B.S. 1455 (First Quality "interior type" unless otherwise specified).

BLOCKBOARD.

Shall be laminated board faced both sides with 4 mm plywood. Exposed edges shall be lipped with 19 mm hardwood and rates shall include for lipping.

PROTECTION OF JOINERY.

All fixed joinery which in the opinion of the architect is liable to become bruised or damaged in any way, shall be completely cased and protected by the Contractor until the completion of the works.

FLUSH DOORS.

All flush doors shall be manufactured to the thicknesses specified and consists of 100 mm wide framing all round with horizontal core battens at not more than 75 mm centers pressure impregnated as described and bored with 12 mm diameter ventilation holes at 300 mm centers. Doors shall have two lock blocks and be faced both sides with 6 mm plywood as specified and have 25 mm mahogany twice rebated lipping all round and otherwise be equal to an approved sample. External flush doors shall be as described above but faced both sides with marine quality plywood.

PRICES TO INCLUDE.

Prices of items hereafter shall include for the foregoing labours, etc., and in addition all prices for linear items are to include all internal and external angles, either mitred or tongued, all fair, fitted, stopped, notched or returned ends, all similar incidental labors and all short lengths.

BOTTOM EDGES.

Bottom edges of doors shall be painted with one coast of approved primer before fixing.

IRONMONGERY.

All locks and ironmongery shall be fixed with screws etc. to match. Before the woodwork is painted, handles shall be removed carefully stored and re-fixed after completion of painting and locks oiled and left in perfect working order. All keys shall be labeled with the door reference numbers marked on labels before handing over to the Architect on completion.

METAL WORKS.

ALL MATERIALS.

Shall be of the best quality, free form defects the materials in all stages of transportation, handling and piling shall be kept clean and free from injury and breaking, bending and distortion prevented.

NAILS, SCREWS AND BOLTS.

Shall be of the best quality mild steel of lengths and weights approved by the Architect. Nails shall be to B.S 1202 and bolts to B.S 916.

WORKMANSHIP.

All work shall be carried out in the most workmanlike manner and strictly as directed by the Architect.

Welding shall be neatly cleaned off and units shall be prefabricated in the workshop whenever possible, the minimum of site welding being employed.

All screwed work shall have full internal and external threads and holes shall have been cleared off. Counter-sinking must be concentric.

FIXING METAL WINDOWS AND DOORS.

The Contractor's prices for fixing metal windows, doors, etc., shall include for assembling and fixing, cutting mortises for lugs in concrete or walling and running with cement mortar (1.4) bedding frames in similar mortar and pointing in mastic, bedding cills, transoms and mullions in mastic, making good plaster around frames both sides and fixing, oiling and adjusting all fittings.

MILD STEEL.

Steel for burglar bars and reinforcement shall comply with B.S 15. No work shall be fabricated until site dimensions have been checked and no additional claim will be accepted should final dimensions differ from those on the drawings.

All welds shall be ground smooth and the Contractor shall ensure that the metal work is prepared for painting as described in painting and decorating.

The Contractor is to ensure that all work is erected plumb and true and be so maintained until properly secured by permanent fixing.

ELECTRONIC WELDING.

All welding is to be in accordance with the requirements of B.S 1856 and 938 and the electrode shall comply with B.S. 639.

Fusion faces shall be free from irregularities, which could interfere with the welding materials. Those faces shall also be free from any deleterious matter such as rust, grease and paint.

All welds shall be prepared by planning or machine frame cutting.

During welding all parts will be maintained in their correct position.

Welds shall be carried out with each run closely following the one prior with sufficient time between to allow for removal of slag.

Each run of weld is to be inspected and sub-contractor shall ensure that unsatisfactory welds are cut out or remade to the required standard.

The minimum size of fillet weld shall be 6 mm.

All completed welds shall have regular and smooth surfaces. The weld material shall be solid with complete fusion throughout the weld material and to the metal.

Any defects shall be cut or made good to approval. External faces of butt welds are to be ground smooth.

PAINTING.

All steel is to be wire brushed and sanded, and any loose scale, dirt or grease shall be removed before and painting is commenced One coat of red oxide primer type A to BS 2523 shall be applied at the shop. Any damage to the priming paint shall be made good to the Architect's satisfaction.

PLASTER WORK AND OTHER FINISHES.

CEMENT.

The cement shall be as previously described in "Concrete Work".

SAND.

The sand shall be as described for the fine aggregate but that for plastering shall be light in colour and well graded to a suitable fineness in accordance with the nature of the work in order to obtain the finish directed.

LIME.

The lime for plastering shall comply with B.S 890 Class "A" for non-hydraulic lime and shall be as rich as obtainable and to approval. It must be freshly burnt and shall be slaked at least one month before being used by drenching with water, well broken up and mixed and the wet mixture shall be passed through a sieve of sixty-four meshes to the square inch. Lime putty shall consist of freshly slaked line as above described, saturated with water until semi-fluid and passed through a fine sieve: it shall then be allowed to stand until superfluous water has evaporated and it has become of the consistency of thick paste, in no case for a shorter period than one month before use, during which it must be kept damp and clean and no portion of it allowed to become dry.

Alternatively, hydrated lime with 70% average calcium oxide content may be used and it must be protected from dampness until required for use. It shall be soaked to a putty at least 24 hours before use.

COMPOSITION OF PLASTERS, ETC.

A mix referred to as 1:4 shall mean 41 kg of cement and 0.45 cm. of sand. All other mixes shall be construed in a like manner.

HACKING ETC.

The prices for all paving and plastering, etc. shall include for hacking concrete surfaces and for racking out joints of walls 13 mm deep and for cross scoring undercoats to form a proper key.

Plastering on walls generally shall be taken to include flush faces of lintels, beams, etc. in same.

All surfaces to be paved or plastered must be brushed clean and well wetted before each coat is applied. All cement pavings and plaster shall be kept continually damp in the intervals between application of coat and for seven days after the application of the final coat.

DUBBING OUT.

Where required shall be composed of one part of cement to six parts of sand.

Partially or wholly set materials will not be allowed to be used or re-mixed. The plaster, etc. mixed must be used within two hours of being combined with water.

SAMPLES.

The Contractor shall prepare sample square yards or the screeds, pavings and plastering as directed until the quality, texture and finish required is obtained and approved by the Architect, after which all work executed shall conform with the respective approved samples.

FINISH GENERALLY.

All screeds and paving shall be finished plump, square, smooth, hard and even and junctions between surfaces shall be perfectly true, straight and square.

All work shall be approved and any not complying with the above shall be hacked away and replaced at the Contractor's expense.

ARISES AND ANGLES.

All arises and angles shall be clean and sharp or slightly rounded or thumb coved as directed including neatly forming mitres.

MAKING GOOD.

All making good shall be cut out to a rectangular shape, the edges undercut to form dovetail key and finished flush with the face of the surrounding paving or plaster, cut out and make good all cracks, blister and other defects and leave the whole of the work perfect on completion.

PRICES TO INCLUDE.

In addition to the foregoing, prices of superficial items are to include for work in narrow widths, all linear labors, angles and arises, all fair edges, for making good up to or stopping to a line at the required level at top of skirting or dado rails were directed and for making good up to windows, doors and similar. The prices for all linear items unless otherwise measured are to include for all short lengths, angles and arises, mitres and ends of every description.

FLOOR SCREEDS.

Shall be composed of cement and sand and shall not be laid in an area exceeding one hundred and twenty square feet during any period of 24 hours. As bays are formed, batten strips must be used to retain the exposed edge of the screed.

Lime plastering shall consist of first coat in cement lime and sand (1:2:9) and finish coat of lime putty skin with 10% cement added. The two coats shall have a total finished coat of not less than 12 mm thick.

The first coat shall be trowelled to a perfectly true and even surface and finished with a wood float, the surface being sprinkled with water from a brush during the process and before it has set, thoroughly scratched to form key. The finishing coat shall not be less than 1 mm thick thoroughly worked with trowel and sprinkled with water as before and be brought to a uniform smooth hard surface.

Lightweight roof screeds shall consist of cement, sand and pumice (1:3:7) and finished with a 13 mm layer of cement and sand (1:4). Screeds shall not be laid in areas exceeding one hundred and twenty square feet during any period of 24 hours. As bays are formed batten strips must be used to retain the exposed edge of the screed. Screeds shall be finished to falls and cross falls to receive other finishes as specified.

P.V.C. FLOOR TILING.

P.V.C. floor tiling shall be asbestos based vinyl floor tiles complying with B.S 3260.

WHITE GLAZED WALL TILES.

Shall be imported quality and of approved size and thickness, with associated fittings all to B.S

1281. Tiles shall be soaked in water, laid with straight horizontal and vertical joints and bedded in cement screed (1:4) and pointed in white cement and cleaned down on completion all to Architect's approval.

Rates for linear items shall include for all special fittings and cutting at angles and intersections.

GRANOLITHIC PAVINGS.

The granolithic shall consist of one part cement (by volume) to two and a half parts (by volume) of local granite chips graded from 6mm down to 3 mm with not more than 15% to pass a No. 50 B.S sieve.

Granolithic shall be spread well compacted and given only sufficient trowelling to produce a perfectly level surface immediately after laying. When the granolithic has stiffened sufficiently so that a hard surface can be obtained, then the surface shall be polished with a steel float to a perfectly even and smooth surface. On no account will dusting with neat cement to the surface be permitted.

POLISHED TERRAZZO.

Shall be laid by an approved Sub-Contractor and shall consist of a screed or backing coat and a finishing of "Snow Crete" and the marble chips (1:2) mixed with cement one No. 1 "coloring in accordance with Manufacturer's instructions. Overall thickness is to be as later specified.

The finishing coat shall be a minimum of 12 mm thick for pavings and 9 mm thick for wall finishes, trowelled to a smooth and even finish and well rubbed and polished with carborundum.

TYROLEAN RENDERING.

Tyrolean rendering shall consist of a backing coat approximately 12 mm thick of one part cement with 10% of lime by volume added to the cement and four parts of sand and a finishing coat of an approved shade of cement and sand of a suitable mix applied with a cement spraying machine to the Architect"s approval. All adjoining surfaces shall be masked whilst spraying.

GLAZING.

GLASS.

All glass shall be of British manufacturers complying with B.S 952, free from flaws, bubbles, specks and other imperfections All glass shall be delivered in proper containers with maker's name, guarantee, type of glass and thickness or weight of glass attached to the outside of the containers.

Glass panes shall be cut to sizes to fit the openings with not more that 1.5 mm play all round and where puttied shall be sprigged to wood or clipped to metal frames.

Clear sheet glass shall be ordinary glazing (O.Q.) quality. Polishes plate glass shall be G.G. quality. Obscured glass shall be roughcast plain rolled glass 6 mm thick.

Wired glass shall be polished Georgian wired glass 6 mm thick.

BEADS AND WASHLEATHER.

The glass to doors and screens and other places where vibration may occur shall be bedded in wash-leather with beads and fixed with brass cups and screws.

The timber rebates shall be cleaned, primed and painted with one coat of oil paint.

PUTTY.

For glazing in wood frames shall be composed to pure linseed oil and powdered whitting free from tight grit in accordance with B.S 544 type 1 putty.

Putty for glazing in metal frames shall be quick hard setting tropical putty specifically manufactured for use with steel windows.

BEDDING STRIPS.

Shall be of plastic or wash-leather approved by the Architect and shall be cut to fit exactly the line of frame and beads.

ON COMPLETION.

Remove all broken scratched or cracked panes and replace with new to the satisfaction of the Architect; clean inside and out with an approved cleaner. On no account shall windows be cleaned by scrapping with glass.

PAINTING AND DECORATING.

All work under this trade must be executed by an approved specialist, unless the Architect agrees otherwise.

GENERALLY.

The Contractor shall arrange his programme for work such that all other trades within the area where painting is being done are completed before painting begins. Before painting the Contractor must prepare the surfaces to the satisfaction of the Architect and in accordance with the paint manufacturer"s instructions.

All plaster, metal, wood or other surfaces which are to receive paint, stain, polish, distemper or paintwork of any description are to be carefully inspected by the painting Sub-Contractor and the main Contractor before paintwork commences. The Sub-Contractor should ensure that all such surfaces are finished (by the main Contractor) satisfactorily before commencing any paintwork as he (the Sub-Contractor) will be held responsible for any defective paintwork arising from the background being of unsatisfactory finish prior to the paint being applied on it.

PAINTING GENERALLY.

All materials are to be of the best quality and shall be of an approved proprietary brand selected from the latest Schedule of approved paints issued by the Ministry of Works. All materials to be applied externally shall be of exterior quality and/or recommended by the Manufacturers for external use.

All materials shall be delivered on site intact in the original sealed drums or tins and shall be mixed and applied strictly in accordance with manufacturer's instructions and to the approval of the Architect.

Unless specifically instructed or approved by the Architect no paints distemper, etc., are to be thinned or otherwise adulterated, but are to be used as supplied by the Manufacturers and direct from the tins.

If required by the Architect the Contractor is to provide at his own expense samples of paints, etc., with containers and cases to be forwarded carriage paid by the Contractor for analysis to a laboratory.

The priming, undercoats and finishing coats shall each be of differing tints and the priming and undercoats shall be the correct brands and tints to suit the respective coats, in accordance with the Manufacturer's instructions. All finishing coats shall be of colors and tints selected by the Architect. Each coat must be approved by the Architect before the next coat is applied.

Each coat shall be properly dry and is the case of oil or enamel paints shall be well rubbed down with fine glass paper before the next coat is applied. The paintwork shall be finished smooth and free from brush marks.

Colour cards of al paints, etc., shall be submitted to and samples prepared for approval of the

Architect before laying on and such samples, when approved, shall become the standard work.

Oil paints, emulsion paints and distempers shall be applied by means of a brush or spray gun or rollers of an approved type, where so agreed by the Architect. No painting is to be done in wet weather or on surfaces, which are not thoroughly dry.

Prices of paint, distemper, etc. shall include for preparation of surfaces, rubbing down between each coat, stopping, knotting, etc., and all other work in connection and as described and as necessary to obtain a first class and proper finish to approval.

Emulsion paint on ceiling and all undercoats of emulsion paint and completed oil painting on walls shall be completed before floorings are laid. Final coats of emulsion paints on walls shall be applied after such flooring has been laid complete.

SAMPLES.

The contactor shall furnish at the earliest possible opportunity before work commences and at his own cost, samples of painting for the Architect's approval and any further samples in the

case of rejection until such samples are approved by the Architect and such samples when approved shall be the minimum standard for the work to which they apply.

The Architect may reject any materials or workmanship not in his opinion up to the approved samples and these must be removed from the site without delay.

PREPARATION AND PRIMING OF PLASTER, ETC., SURFACES.

Plaster surfaces shall be perfectly smooth, free from defects and ready for decoration. All such surfaces shall be allowed to dry for a minimum period of six weeks, stopped with approved plaster stopping compound and rubbed down flush, as necessary, and then be thoroughly brushed down and left free from all efflorescence, dirt and dust immediately prior to decorating.

Plaster surfaces which are to be finished with emulsion, oil or enamel paint, shall be primed with Leyland primoplas P.20 or other equal and approved and applied in accordance with the Manufacturer's instructions.

PREPARATION AND PRIMING OF FIBREBOARD.

Fiberboard or similar surfaces shall be lightly brushed down to remove all dirt, dust and loose particles and have all nail holes or other defects stopped with an approved plaster stopping compound rubbed down flush and left with a texture to match surrounding materials and shall receive one coat primer at last.

PREPARATION AND PRIMING OF METAL WORK.

All surfaces shall be thoroughly brushed down with wire brushes, sanded and scraped where necessary to remove all scale rust, etc., immediately prior to decoration and given one coat of red oxide primer, where severe rust exists and if approved by the Architect a proprietary de-rusting solution may be used in accordance with Manufacturer's instructions.

Galvanized surfaces shall be treated before painting with a solution of calcium plumbate, applied in strict accordance with the Manufacturer's printed instructions (agent: M/s Dodwell & Company, Nairobi) or with an approved calcium plumbate primer.

PREPARATION AND PRIMING WOODWORK.

All woodwork shall be rubbed down, all knots covered with a thick coat of good shellac or aluminum knotting: primed and one coat of approved ready mixed proprietary wood primer and all cracks, nail holes, defects and uneven surfaces, etc., stopped and faced up with hard stopping rubbed down flush. Plywood shall be brushed filled over the entire surface.

Woodwork to receive finishes other than paint shall have all stains removed and shall be well rubbed down and have all defects leveled with hard stopping of a colour to match the adjoining surface.

WOOD PRESERVATIVE.

All woodwork in contact with walling or plaster shall be treated after cutting and preparation but before assembly or fixing with one coat of approved wood preservative.

WAX POLISH.

Wax polish shall be furniture polish of an approved brand, and wood surfaces shall be clean, smooth, and free from oil or grease or any other blemishes. A minimum of two coats shall be applied to approval.

EMULSION PAINT.

Emulsion paint shall be of approved brand. After preparation as specified above a minimum of three coats shall be applied using a thinning medium of water only if and as recommended by the Manufacturer.

An approved plaster primer tinted to match may be used for the first coat.

ENAMEL PAINT ON METAL WORK AND WOODWORK.

Enamel paint shall be of approved brand. Apply one undercoat and two finishing coats, after preparation and priming as specified above.

IRONMONGERY.

Where instructed, all ironmongery on existing components to be painted shall be removed from joinery, steel windows and louvers before painting is commence, and shall be cleaned and oiled and adjusted if necessary and re-fixed after completion of painting.

PAINTING ITEMS.

Painting items as billed hereafter shall include for preparing and priming surfaces as described above.

COVER UP.

Cover up all floors, fittings, etc., with dustsheets when executing all painting and decorating works.

CLEANING AND TOUCH UP.

Paint splashes, spots and stains shall be removed from floors, woodwork, etc., any damaged surfaces touched up and the whole of the work left clean and excellent upon completion.

GENERAL SPECIFICATION FOR PLUMBING INSTALLATION.

1.0 GENERAL REQUIREMENTS.

1.01 Introduction.

This specification details the requirements for the materials supply, installation, testing and commissioning of the Plumbing and firefighting installation as shown on the Contract Drawings.

The Sub-Contractor shall include for all appurtenances and appliances not necessarily called for in this specification or shown on the Contract Drawings but which are necessary for the completion and satisfactory functioning of the contract works.

If there is a difference between the requirements of this Specification and the Contract Drawings or lack of clarity in either specification or the Contract Drawings, the Contractor must clarify such differences with the Engineer before tendering. No claim for extra payments shall be entertained from the Contractor due to failure to comply with this requirement.

1.02 Scope of Works.

The Sub-Contract works shall comprise the supply and installation of all the sanitary appliances, the internal drainage system up to the nearest man-hole outside the building, the internal cold and hot water supply and storage system, the external water reticulation system, together with the installation of the firefighting equipment all as shown on the Contract Drawings and as here-in specified.

1.03 Regulations and Standards.

All the Plumbing works shall be carried out by a licensed and experienced plumber under the Government Regulations The work shall be executed in accordance with the best principles of modern plumbing practice.

The Contractor shall be responsible for ensuring compliance with all the governing regulations and in particular, his attention is drawn to the following specific codes and regulations: -

a) The Local Authority by-laws and regulations.

b) The current Republic of Kenya Building Code.

c) The M.O.W latest issue of "General Specification for Building Works"

d) B.S. 5572 - Code of practice for sanitary pipework.

e) B.S. 8301 - Code of practice on building drainage.

f) B.S. 6465 - Sanitary Appliances.

g) B.S 5955 - Code of Practice for uPVC pipework.

h) C.P. 310 - Water Supply.

i) B.S. 6700: 1987 - Water supplies within buildings.

j) The I.E.E Regulation.

k) The Kenya Bureau of Standard (K.B.S) Specification.

All plumbing shall be executed in accordance with Regulations of the Local Authorities and the Water Supply Companies the Contractor shall give all Notices and pay all fees required thereunder the amount of such fees shall be deemed to be included in the Contract Sum unless otherwise expressly stated.

1.04 Occupation Certificate.

The plumbing Contractor shall upon completion obtain an "Occupation Certificate" from the Local Authority and forward it to the Engineer. The cost of obtaining the certificate shall be deemed to be included in the Contract Sum.

1.05 Materials and Standards.

All equipment and materials shall be new, strong and of durable construction All the items must meet the relevant quality standards and of reputable manufacture Safety devices such as pressure relieve valves, thermal expansion joints, thermal and over-load protectors etc. must be installed wherever deemed necessary.

1.06 Builders Work.

Holes, trenches and wall chase in building fabric to accommodate pipes, cable trays etc., together with concrete plinths for pumps, tanks etc. shall be carried out by the Main Contractor at no cost to the Sub-Contractor. However, the Sub-Contractor must inform the Main Contractor of his requirements well in advance to allow such requirements to be incorporated before casting of the building fabric Drill holes in concrete for anchor channels, clamps, supports etc. shall be carried out by this Sub-Contractor but he must liaise with the Main Contractor before carrying out such

works. The Sub-Contractor shall not make any holes nor cut the building fabric without the express consent of the Structural Engineer and consultation with the Main-Contractor.

1.07 Water meters.

These shall be to BS 5728 part I and I.S. 4064/1. The meters shall be suitable for water temperature upto 30 O C and 10 bar Nominal pressure.

These shall have counter registration in cubic meters (or liters), and be able to register down to 1 liter of water volume. These shall be installed to the requirements of BS 5728 part 2 and to the approval of the local council. The subcontractor shall on behalf of the client apply for and secure the meter connection from the Local Authority. He shall therefore allow for all the costs for permits, materials and attendance in connection thereof.

2.0 WATER SUPPLY INSTALLATION:

2.01 Galvanized Mild steel pipes.

Tubing shall be galvanized mild steel to B.S. 1387, with tapered pipe thread to B.S 21:1985. These shall be medium gauges for general use and heavy gauge for underground use, with screwed and socketed joints and of approved manufacture. Tubes must be cleanly finished with smooth surfaces, free from defects and scales.

All pipes below ground are to be protected by coating with bitumen reinforced with glass fiber tissue, hessian cloth or other approved material.

Fittings shall be galvanized wrought steel to B.S 1740, with B.S. thread, or galvanized malleable cast iron to B.S. 143 and 1256, of approved manufacture, for use with galvanized steel pipes to B.S. 1387. Castings must be smooth and free from blow holes, pitting and other defects.

Where flanged connections are used, these shall comply with B.S. 4504, welded or screwed. All flanges shall withstand a Nominal pressure of 1.6 Mpa (PN 16) and shall be of either grey cast iron or steel. Flanged joints shall have gaskets complying with B.S. 4865 part 1 of 1972, for pressures upto 6.4 Mpa (64 bars).

Galvanizing of pipes and fittings shall be to B.S. 729:1971.

2.02 Copper Pipework.

Copper pipes shall be used to B.S. 2871:1971 part 1, of approved manufacture. These must be solid drawn, round, clean, smooth and free from all defects and deleterious films in the bore Fittings shall be capillary or compression type to B.S. 864:1983 Part 2, of approved manufacture, free from internal fins and designed for minimum resistance of fluid flow. Compression fittings to be type A (Non-manipulative), unless otherwise specified. Copper tubing is to be used as shown on the drawings and as connection tube between steel pipe work and sanitary/laboratory fittings.

In order to avoid direct contact a brass straight connector shall be positioned between the steel tube and the copper tube.

2.02 u.P.V.C. Cold Water Service Pipe System.

Pipes shall comply in all respects with British Standard 3305:1968 and shall bear the British Standard Kite Mark together with the appropriate class colour coding at one-meter intervals.

Fittings shall comply in all respects with British Standard 4346 Part 1:1969 and shall bear the British Standard Kite Mark.

Pipes shall be supplied in plain-ended lengths.

The minimum acceptable wall thickness of pipe and fittings shall be as follows:

- 12mm nominal 1.7mm 40mm nominal 3.1 mm.
- 20mm nominal 1.9mm 50mm nominal 3.9mm.
- 25mm nominal 2.2mm 75mm nominal 5.7mm.
- 30mm nominal 2.7mm 100mm nominal 7.3mm.

The method of jointing to be employed for dimensions 40mm and smaller shall be that of solvent welding socket using the manufacturers approved solvent cement.

For dimensions 50mm and larger the method of jointing shall be with lock-ring integral socket and coupling.

The grade of Polymer used for the pipe shall have a minimum softening point of 75 ^{0}C and for the fittings a minimum softening point of 72^{0}C when tested by the „Vicat" method 102J and a Tensile strength of Min. 45MN/m2 at 20^{0}C as described in British Standard 2782:1975.

The pipes and fittings shall be colour grey.

2.03 Valves, Taps and Ball-valves.

a) Brass stops valves and draw-off taps (bibtaps, pillar taps combination taps etc.) shall be to B.S. 1010 Part 2:1973 or B.S. 5412; screw-down pattern, to comply to test pressure of 2.0 Mpa (20 Bars) and of approved manufacture.

b) Draw off taps shall be of metal body with chromium plated finish unless otherwise specified.

c) Copper alloy valves (gate, globe, stop and check valves) shall be to B.S. 5154 and tested to B.S. 5146 Part 2; 1984 These shall be with screwed, flanged or capillary compression ends. flanged check valves shall be to B.S. 5153:1974 as type Glenfield No. 5003. The body, door cover to be of meehanite cast iron with fun-metal seat to B.S, 1400.

d) Gate valves of sizes above 80mm shall be of cast iron wedge type to B.S. 5163:1974 as Glenfield R.S. No. 3500 series. These are of meehanite cast iron body to B.S. 1452 with rubber covered meehanite cast iron gate.

e) Brass draining taps to be screw down pattern to B.S. 2879:1980, type A (Bushed) unless otherwise specified.

f) Ball valves shall be of brass body and to B.S. 1212 Part 1:1953 piston type for low, medium or high pressure (3.58 bars, 7.72 bars and 12.62 bars respectively) as directed and with provision for removable seats, supplied with copper floats to B.S. 1968:1953, or plastic floats to B.S. 2456., approximately marked.

2.04 Pipe Thermal Insulation.

All exposed and under-ground hot water and chilled water supply pipes and fittings shall be adequately thermally insulated. The insulation shall be to B.S. 5422:1977, and B.S.

5970:1981 The insulation shall be pre-formed fiber-glass insulation for hot water and steam, and expanded polystyrene (styropor) in sections for chilled water.

The insulation shall be covered with proprietary cladding material or, where no proprietary material exists, with cotton canvas for indoor pipework and o.25mm thick aluminum sheet or foil for external and under-ground piping. The sheet jointing shall be water proofed to the Engineers approval Underground Cladding shall be finished with two coats of bituminous painting.

Pipe insulation thickness for hot water supply shall be as given in the table below; and the density of the fiber glass shall be 100 kg/c.m., and 0.045 w/m2 oC declared max. thermal conductivity.

Pipe diameter 15-20mm 25-80mm 100-200mm

Insulation thickness 20mm 25mm 30mm

All lagged pipes which run in a visible position after erection shall be given a canvas cover prepared for painting as follows:

a) Apply a coating of suitable filler until the canvas weave disappears and allows to dry.
b) Apply two undercoats of an approved paint and finish in suitable gloss enamel to colors approved by the Engineer.

All lagging for cold and hot water pipes erected in crawlways, ducts, and above false ceilings which, shall be covered with a reinforced aluminum foil finish and banded in colors to be approved by the Engineers.

In all respects, unless otherwise stated, the hot and cold-water installation shall be carried out in accordance with the best standards of modern practice as described in C.P. 342 and C.P. 310 respectively, to the approval of the Engineer.

Hot water pipes chased in walls shall be wrapped with hair felt or tobacco paper and secure with copper wire.

2.06 Jointing of Water Supply Pipework.

a) All joints must be air tight and water tight.
b) Compounds containing red-lead shall not be used in jointing water supply pipes.
c) Steel pipes shall be screwed together using an approved compound/proprietary thread tape. Exposed threads above ground shall be rust-proof painted using non-toxic bituminous paint while those to be buried shall be thickly coated with bitumen.
d) Joints of copper to steel pipes of less than 38mm diameter shall be by copper unions or union ferrules. Those of 38mm diameter and above shall be by screw,

braze, or weld copper flange to copper pipe jointing to steel flange with copper allow bolts and nuts.

Before any joint is made, the pipes shall be hung in their supports and adjusted to ensure that the jointing faces are parallel and any falls which shall be required are achieved without springing the pipe.

Where falls are not shown on the drawings or stated elsewhere in the specification, pipework shall be installed parallel to the lines of the building and as close to the walls, ceilings, columns, etc., as is practicable.

e) All water systems shall be provided with sufficient drain points and automatic air vents to enable them to function correctly.

Before any joint is made, the pipes shall be hung in their supports and adjusted to ensure that the jointing faces are parallel and any falls which shall be required are achieved without springing the pipe.

Where falls are not shown on the drawings or stated elsewhere in the specification, pipework shall be installed parallel to the lines of the building and as close to the walls, ceilings, columns, etc., as is practicable.

All water systems shall be provided with sufficient drain points and automatic air vents to enable them to function correctly. Valves and other user equipment shall be installed with adequate access for operation and maintenance Where valves and other operational equipment are unavoidably installed beyond normal reach or in such a position as to be difficult to reach from a short step ladder, extension spindles with floor or wall pedestals shall be provided.

Screwed piping shall be installed with sufficient number of unions to facilitate easy removal of valves and fittings, and to enable alterations of pipework to be carried out without the need to cut the pipe.

Full allowance shall be made for the expansion and contraction of the pipework, precautions being taken to ensure that any forces produced by the pipe movements are not transmitted to valves, equipment or plant.

All screwed joints to piping and fittings shall be made with P.T.F.E tape or Boss white proprietary compound.

2.07 Expansion Joints and Anchors.

Where practicable, hot water pipework systems shall be arranged with sufficient bends and changes of direction to absorb pipe expansion providing that the pipe stresses are contained within the working limits prescribed in the relevant B.S. Specifications.

Where piping anchors are supplied, they shall be fixed to the main structure only. Details of all anchor design proposals shall be submitted to the Engineer for approval before erection commences.

When arranging piping it shall be ensured that no expansion movements are transmitted directly to connections and flanges on pumps or other items of plant.

Flexible joints shall be supplied to prevent vibrations and other movements being transmitted from pumps to the piping systems or vice versa.

All bends, valves and hydrant tee etc. in the line of the water mains shall be adequately anchored to resist thrust due to internal water pressure. A concrete block shall be cast under and the around the pipe and between it and the sides of the trench. Well rammed materials shall be used to support the pipe on either side of the concrete.

2.08 Pipe Supports and Fixings.

(a) General

This sub-clause deals with pipe hangers, slider and roller type supports, clamps, cages, cantilevers etc supports securing pipes to the structure of buildings for above ground application. These shall be manufactured to B.S. 3974.

The variety and type of supports shall be kept to a minimum and their design shall be such as to facilitate quick and secure fixings to metal, concrete, masonry or wood.

Consideration shall be given, when designing supports, to the maintenance of desired pipe falls and the restraining of pipe movements to a longitudinal direction only.

Pipes shall be fixed in a position which leaves the lower surfaces at the same horizontal level, unless otherwise instructed.

Pipes shall be fixed to true lines parallel to adjacent lines of the building unless otherwise specified.

Where insulated, pipes shall be fixed with the insulation at least 25mm clear of adjacent surfaces.

The Plumbing Contractor shall apply and install all steelwork forming part of the pipe support assemblies and make good any damage to builder"s work associated with the pipe support installation.

All proposals for pipe support shall be submitted to the Engineer for approval before any erection work commences.

b) Spacing for Pipe Supports.

Pipe runs shall be secured by pipe clips connected to pipe hangers, wall brackets or trapeze type supports U bolts shall not be used as a substitute for pipe clips without the prior approval of the Engineer.

An approximate guide to the maximum permissible supports spacings in metres for steel and copper pipe and tube is given in the following table for horizontal runs.

Size	Copper Tube	Steel Tube
15mm	1.25mm	2.0m
20mm	2.0m	2.5m
25mm	2.0m	2.5m
32mm	2.5m	2.7m
40mm	2.5m	3.0m
50mm	2.5m	3.0m
65mm	3.0m	3.5m
80mm	3.0m	3.5m
100mm	3.0m	4.0m
125mm	3.5m	4.5m
150mm	4.5m	5.5m

The Support spacings for vertical runs shall not exceed one and half times the distances given for horizontal runs, or as given by the manufacturers.

c) Pipe Sleeves.

Where pipes pass through concrete or block wall, pipe sleeves of galvanised steel tube shall be used; these shall be of sufficient sizes to give at least 3mm clearance around the pipe. The annular space shall be filled with bitumastic material and caulked at the ends.

2.09 Trench Excavation – Water Main.

As described in B.S 8301 Clause 18 and the following: -

a. The Contractor shall excavate the pipe trenches in the line to the depths indicated by the Engineer Except where otherwise indicated on the drawings or directed by the Engineer, all pipes must have a minimum cover of 500mm over top of the barrel of the pipe when laid, plus or minus a tolerance of 75mm either way. All trenches shall be excavated in open cuttings.
b. Where the trench passes through grassland, arable land or garden, whether enclosed or otherwise, the turf, if any, shall be pared off and stacked, and the productive soil shallbe carefully removed from a width of 600mm greater than the normal trench width, or equal to the overall width of track of the excavating machine whichever is greater, and laid aside to be subsequently used in reinstating the surface of the ground after the trench has been refilled.
c. The bottom of the trench shall be properly trimmed off, and all low places or irregularities shall be levelled up with fine material. Where rock or large stones are encountered, they shall be cut down to a depth of at least 75mm below the level at which the bottoms of the barrels of the pipes are to be laid, and covered to a like depth with fine material (sand or red soil) so as to form a fine and even bed for the pipes.
d. Joint holes shall be excavated to such minimum dimensions as will allow the joints to be well and properly jointed.
e. The pipe trench shall be kept clear of water at all times.
f. The Contractor shall, wherever necessary, by means of timbering or otherwise, support the sides of the trench so as to make them thoroughly secure, and afford adequate support to adjoining roads, lands, building and property, during the whole time the trench remains open and shall remove such timbering when the trench has been backfilled. The cost of such timbering or other work shall be

deemed to be included in the rates for excavation and backfilling. In case the Contractor is instructed by the Engineer to leave any portion of such timber in position, he will be paid for it accordingly.

g. The clear width inside the timbering, in the case of single pipes shall be at least 320mm in excess of the external diameter of the pipe being laid, in order to allow it to be freely lowered into position in the trench without damage to the external protection.

h. Where more than one pipe is to be laid parallel, then the clear width inside the timbering shall be at least 520mm in excess of the combined external diameters of the pipes.

i. Any excavation below the specified depth, in error or otherwise, shall be refilled to the correct levels, at not extra cost, with mix 1:3:6 concrete or other approved material.

j. If a mechanical excavator is used by the Contractor, he shall indemnify the Employer against all claims for damage which, in the opinion of the Engineer, may have been caused by the use of this plant When a mechanical excavator issued the bottom

200mm of excavation shall be excavated by hand to ensure an even bed for the pipes.

2.10 Concrete Bedding, Haunching and Surround.

Concrete bedding, haunching and surround shall be provided as necessary of were called for by the Engineer in accordance with the requirements laid down in B.S. 8301:1985 Clause 11.

2.11 Backfilling.

Backfilling of trenches, shall be carried out in accordance with the methods described in B.S. 8301:1985 Clause 5.7.6.

2.12 Reinstatement of Surfaces.

Following the final backfilling of all trenches and manhole surrounds, the surface of the excavated areas shall be fully reinstated to the approval of the Engineer.

Where the excavations have been carried out in public highways or other areas not forming part of the site, prices will be deemed to allow for all charges associated

with the temporary and final reinstatement requirements of the Local Highway Authority.

No claims for extras in this respect will be accepted.

2.13 Identification of Pipelines.

All pipes conveying fluids shall be identified by applying the basic identification colours or the colour code indication as specified in B.S. 1710. The following table is given as a guide.

Pipe Contents		Basic identification colour
1.	Water	Green
2.	Drainage	Black
3.	Steam	Silver Grey
4.	Fire extinguishing	Red
5.	Compressed air and vacuum	Light Blue
6.	Oils	Brown
7.	L.P.Gas	Yellow

The method of application shall be as here-in specified and/or shown on the drawings.

2.14 Lettering.

The lettering for sluice valves, fire hydrants, air valves and washouts abbreviated SV, FH, AV and WO respectively shall be in accordance with the normal practice and as details shown on the drawings and colour coded as above with letters in white or black on the appropriate background colour.

2.15 Surface Boxes.

Sluice valves, air valves and fire hydrants shall be covered with surface boxes in accordance with details as shown on the drawings. In roads and footpaths, the boxes shall be laid flush with the surface.

2.16 Water Supply Pipework Testing.

The whole of the water supply system shall be tested to the approval of the Engineer as follows: -

Plug-off valves of main service line and/or terminals in the section to be tested.

Fill pipes with drinking water and apply test pressure which shall be the maximum working pressure plus 50%, or as directed by the Engineer.

There must be no measurable loss of pressure at the end of one hour and system must be water tight.

Open all taps and check for satisfactory rate of outflow.

Test all cisterns as directed, at pressure not less than the working pressure. Locate and make good all defects and re-test to the satisfaction of the Engineer.

2.17 Testing – Mains Installation.

a) The test pressure shall be one and a half the maximum working pressure except where a pipe is manufactured from a material for which the relevant B.S. Specification designates a maximum test pressure as in the case of the cast or spun iron pipes, where the test pressures should not exceed 120, 180 and 240 metre/head for Clause B, C, or D pipes, respectively. The test pressure shall be maintained by the pump for about one hour and if there is any leakage, it shall be measured by the quantity of water pumped into the main in that time.

b) When a section of the main has been jointed, the ends shall be closed with caps, plugs, or flanges which must be strongly strutted against a solid surface to the satisfaction of the Engineer. The trench shall be properly backfilled and rammed as herein specified, and as shown on the drawings, for its whole length so as to cover the main to a depth of not less than 500mm, except at the joint places which shall be kept clear of all backfilling, if necessary, by the use of timbering, so that each joint is left fully exposed for inspection. No backfilling of joints will be permitted before testing of each section.

As long as a section of main as possible shall be tested at one time subject to the maximum length of open trench approved by the Engineer or permitted by the Highway Authority, and the test shall be carried out within 12 working days of the completion of such sections of mains.

Where a main is laid across a road or in such as position as to interfere seriously with the normal use of the road, the Contractor may, with the consent of the Engineer and at his own risk, fill in such joint holes as may be necessary. He shall, at his own expense, re-excavate any or all joint holes necessary to locate a leak and carry out repair work should the results of his hydraulic test prove unsatisfactory.

The section shall then be filled with mains water, great care being taken to drive out all air through air valves ferrules or otherwise to the approval of the Engineer.

c) After the section to be tested has been charged and all air liberated it shall remain standing under moderate pressure for several days for final airing.

The leakage from the mains and connections from each section tested shall not exceed 4 litres of water per 25mm diameter of main, per 2 km length each 24 hours, every 30 metres head of pressure, and any visible individual leak shall be repaired.

To determine the rate of leakage, the Contractor shall furnish a suitable hydraulic test pump, pressure gauge, connections and water meter or other appliance, for measuring the amount of water pumped.

If the leakage to be at a greater rate than that specified the Contractor shall re-excavate the trench where necessary and shall remake the joints and replace defective work until the leakage shall be reduced to the allowable amount.

d) The Employer shall charge the Contractor the cost of any couplings required to join up tested lengths of main if, in the Engineer"s opinion, greater lengths could reasonably have been tested or if failure under test requires the pipe to be cut, or other methods of laying should have been adopted.

Water used by the Contractor in testing the main shall be supplied by the Main Contractor. The Contractor shall carry out all work which may be necessary for making temporary connections to the existing mains to obtain water for testing at his own expense.

e) In carrying out the test for watertightness the Engineer only shall authorise the operation of all valves, but the Contractor shall provide all the necessary labour to assist in the opening and closing of the valves to the Engineer's instruction, and he shall allow in his prices for all his expenses in connection with testing on completion. The Engineer shall be the sole judge of watertightness.

2.18 Sterilization of Installation.

After testing, all the water supply system shall be sterilized before taking into use, and after being opened up for any repairs.

Sterilizing shall be done in accordance with C.P. 310:1965 Clause 409, or as detailed below, to the satisfaction of the Engineer.

a) Fill the whole system with drinking water and flash out.

b) Re-fill the system, adding sterilizing chemical gradually as the storage cistern fills. Use proprietary chemicals, or bleaching powder at the rate of 0.15 kg per 1000 litres.
c) When the cistern is full, open the taps successively working away from the cistern, and closing each tap as the discharge begins to small chlorine.
d) Top up the cistern with water and the sterilizing chemical and leave still for 24 hours.
e) Empty system and flush-out thoroughly with clean water.

2.19 Cleansing and Sterilizing the Mains.

When a pipeline is complete and where applicable, has successfully passed the test, it shall be thoroughly washed out using, if possible, an open end. Thereafter it shall be sterilized by being filled with a suitable solution containing not less than 20 p.p.m of free available Chlorine or such other sterilizing agent, as the Engineer shall prove. After standing for 24 hours the main shall again be washed out and refilled with main water prior to the taking of bacteriological samples. The Contractor shall provide all necessary stop ends, fitting and chemicals for this work.

Empty and washing out of the pipes shall be done in such a manner as not to damage the trench or cause flooding, and the Contractor shall supply and use such piping, specials and/or hose as may be necessary to facilitate the flow of water to the nearest drain or watercourse Water used for washing out and sterilizing will be supplied by the Main Contractor.

Before any section of the main is put into use a bacteriological sample or samples will be taken in the presence of the Engineer and only on receipt of satisfactory certificate from the Medical Research Laboratory will the main or section of main be permitted to be put into supply and be considered as having been substantially completed.

Any expenditure involved in providing facilities or materials for the taking of samples shall be included in the Contractor"s tendered rates and the Engineer will specify and shall be the sole judge as to the number of samples required and the points at which they are to be taken.

The cost of the bacteriological examination will be borne by the Employer but if the sample or samples are not satisfactory the cost of any subsequent analysis will be borne by the Contractor.

2.20 Existing Installation.

Where pipes for cold water are to be connected up to existing installations, the condition of the existing installation it to be reported to the Engineer in order to establish if part of the existing installations is to be replaced or serviced The Sub-Contractor shall allow for keeping the services in use with minimum interruptions. All service interruptions must be reported and agreed to with the client at least 24 hours in advance.

2.21 Clearance of the Site.

The Contractor shall remove all surplus pipes, specials and other fittings from the site, upon completion of the works and prior to handing over. The site of works shall be levelled and all surplus excavation, debris, cut trees or bushes shall be carted to approved tip sites.

3.08 Booster Pumps.

These will comprise of 2 No. Electrically driven pumps, one for duty and one for standby. The pump vital parts (seal drivers, head cover, intermediate chamber, impeller, shaft, washer outer sleeve etc.) shall be in stainless steel, with tungsten carbide seal ring and cast-iron pump head and a maintenance free mechanical shaft seal. This shall be coupled to a totally enclosed squirrel cage 2 pole fan cooler motor.

Flange connections on each pump are to be BS 4504NP.16.

Each pump is to be supplied with isolating valves, non-return valves and test cocks on the pump body, all as shown on the drawings or elsewhere in this specification.

The pump and motors are to be assembled on a mild steel fabricated support base plate which is to be bolted down to a concrete plinth in an approved manner.

Flexible coupling with flange connections is to be supplied and fitted to both suctions and delivery pipes to reduce pump vibrations being transmitted via the connection pipework.

3.09 PUMP CONTROL PANEL.

The control panel shall house the pump motor starters, selector switches, alarm devices and overload protection gear together with a micro-door switch to isolate all power upon opening the panel door.

The panel shall be fabricated from heavy duty sheet steel with stove enamelled finish and clear Perspex front cover, forming a dust and damp-proof enclosure.

All control buttons and indicator lights shall be mounted on the panel door and suitably labelled and shall include the following: -

a) Main isolator switch.
b) Pump No. 1 switch on push button.
c) Pump No. 2 switch on push button.
d) Automatic and manual change-over switches.
e) Pump running (green light) indicator light for each pump.
f) Pump failure.

4.0 DRAINAGE SYSTEM.

MATERIALS AND WORKMANSHIP.

4.01 Cast Iron Spigot and Socket Pipes.

These shall conform to B.S. 416:1973 for above ground pipework and of approved manufacture. Castings must be sound and free from defects, and must ring clearly when struck with a light metal hammer. All pipes and fittings to be coated with tar or bitumen-based solution suitable for tropical conditions by the manufacturer.

Jointing shall be by packing the joint space with a gasket of firmly caulked tarred yarn, then caulked with molten lead or fibrous lead yarn.

Cast iron socketed pipes shall generally be supported at every socket joint by means of either holderbats secured rigidly to the structure, or purpose made straps for attachment to rigid steel support brackets.

When holderbats are used, they shall conform to the requirements of B.S. 416.

Suitable anchors shall be provided at all changes of pipe direction, junctions and tees, to counteract the effect of end thrust loads.

All cast iron pipework, branches, tees, bends and other fittings shall be supplied complete with inspection covers for cleaning purposes. These inspection covers shall be included as part of the fittings and shall comply with the requirements of B.S. 146.

4.02 u.P.V.C. Soil and Water System.

The pipes and fittings shall comply in all respects to B.S.S. 4514 and B.S 5255 and shall where appropriate bear the British Standard Kite Mark.

Pipe will be supplied in plain ended lengths.

The minimum acceptable wall thickness of pipe and fittings will be as follows: -

32mm pipe	1.8mm.
40mm pipe	1.9mm.
50mm pipe	2.0mm.
80mm pipe	3.20mm.
100mm pipe	3.20mm.
150mm pipe	3.30mm.

The method of jointing to be employed shall be that of solvent welding using the manufacturers approved cement Seal ring fittings shall be used where necessary to accommodate thermal movement, or the sockets of standard fittings shall be converted to seal ring joints by the addition of a seal ring adaptor.

The grade of Polymer used for the pipe shall have a minimum softening point of 82 deg. C and for the fittings a minimum softening point of 79 deg C when tested by the Vicat" method 102D as described in British Standard 2782:1975.

The pipe and fittings shall be colour grey, to British Standard 5252:1976, 10.A.07 with the exception of water closet connections, which may be colour white.

The rubber seals for seal ring joint shall be of „W" section and shall be to the material requirements of British Standard 2494:1976 Water closet connections shall be to the same British Standard.

Water boss connections when fitted to pipes shall consist of two parts with inner and outer flanges, solvent welded as a complete unit with inbuilt gradients for the waste pipes of 1.25 degrees. Where it is not possible to gain access to the bore of the

soil pipe, self locking bosses with integral clamping action may be used provided that the mating surfaces are suitable for and used with solvent weld cement.

Water boss connections to branch fittings as necessary shall be solvent welded to set positions of its branch fittings.

Alternative waste boss connections may be made using unequal junctions conforming to British Standard 4514:1969 with solvent weld joints conforming to the same.

Holderbats shall be made of mild steel protected from corrosion by galvanising. They shall have a two-position fixing suitable for either acting as pipe support but allowing thermal movement or as a clamp fit on a fitting creating a fixed point for optimum fit to pipe supports P.C.V packing pieces may be used.

Access shall be provided when necessary either by means of an integrally moulded door in an access fitting with an externally fitted rubber seal and secured with two galvanised bolts and nuts or alternatively two-piece clamp type door fitted into the pipe run. The system shall be as described in a „Product Handbook" complying with the recommendations of B.S. 4940:1973.

4.03 u.P.V.C. Rainwater Fittings.

All fittings shall be injection moulded and shall be compatible with pipes and gutters/

All gutters, pipes and fittings shall be colour grey to British Standard 5252:1976 10.A.07, or black or white.

Gutter connecting fittings shall have integrally moulded seal retaining cavities housing a polychloroprene seal of hollow section.

The fittings shall incorporate a gutter retaining clip: -

Gutter connecting fittings shall incorporate provision for fixing the fascia boards, rafters or blockwork such that the fixing screws shall not be in contact with the inner surface of the gutter and shall have provision for expansion of the gutter clearly marked in the fitting.

The grade of Polymer used for pipes and fittings shall have a minimum softening point of 75 deg.C when tested by the Vicat method 102J as described in the British Standard 2782:1975.

Gutters shall be supported on support brackets at one metre centres. Gutters shall be installed to accommodate thermal movement. Expansion joints shall be provided at maximum 4 metre centres.

All rainwater system shall be installed in accordance with the manufacturer's site work instructions.

4.04 u.P.V.C Underground Drainage System.

The pipes and fittings shall comply in all respects to British Standard 4660:1973 and shall bear the British Standard Kite Mark.

Pipes shall be supplied win plain ended lengths.

The minimum acceptable wall thickness of pipe and fittings will be as follows: -

80mm pipe	2.25mm.
110mm pipe	3.2mm.
160mm pipe	4.10mm.
80mm junction	3.2mm.
110mm junction only	3.50mm socket 3.80mm body.
All other fittings	3.20mm socket 3.40mm body.
160mm all fittings	4.30mm socket 4.70mm body.

The method of jointing to be employed shall be solvent weld or lip-seal socketed fittings. Jointing to other materials shall be made in the manner specified by the manufacturer.

The grade of polymer used for the pipe shall have a minimum softening point of 82 deg. C when tested by the „Vicat" method 102D as described in British Standard 2782:1975, and for fittings 79 deg.C.

The pipes and fittings shall be of colour golden brown approximating to British Standard

381C:1971 No. 414. The seal retaining caps and seal rings shall be black.

The rubber for lip seal joints shall be to British Standard 2494:1976.

The base of soil and vent stack connection to the below ground drain shall be made with a bend of minimum centre line radius 250 mm.

Minor changes of direction where permitted shall be made with a variable bend.

Where pipes are laid under floor slab, these shall be laid on 150mm thick concrete class "15" (1:3:6 mix) bed on full width of trench or min. 400mm wide, and the pipe shall be completely surrounded with similar concrete thickness. In all other cases, the pipes shall be laid on prepared ground in trench and backfilling to manufacturer"s recommendations. Pipes shall not be left exposed to the sub during construction period.

4.05 Waste Fitment Traps

a) Standard Traps.

These shall be generally of the same diameter and material as the waste outlets to which they are connected to or as specified on the drawings. All wastes shall comply to B.S. 3380.

Wastes connected to main drains through an intermediate gully trap may have a trap with a minimum water seal depth of 40mm. All other traps shall have a water seal of minimum depth – 75mm. Bottle traps shall not be used for waste connections to sinks.

Copper and copper alloy traps shall be case, solid drawn or hot formed to B.S. 1184.

Plastic traps shall be B.S. 3943, of approved manufacture. These and the uPVC pipe work must be supplied by the same manufacturer.

b) Anti-Syphon traps.

Where specified, anti-syphon traps shall be as manufactured by "Caradon Terrain Ltd", self-resealing type or by "Marley Extrusions Ltd", Anti-syphon type, or equal and approved.

4.06 Sealing off Existing Drains and Manholes.

Existing foul, surface water and sub-soil drains exposed during progress of work are to be reported to the Engineer. Where not required to be reused seal off with concrete or grout solid as directed Seal off connection to manholes, demolish walls to 500mm below surrounding ground level and fill remainder of manhole with consolidated approved rubble and cover to level of surrounding ground as directed.

4.07 Drain Trenches.

Excavation of trenches shall be made to such depths as shall be required to obtain proper falls and firm foundation. No permanent construction shall be commenced on any trench until the excavation has been approved by the Engineer Where trenches have been excavated below the required depths they shall be re-filled to the correct level with Class "10" mass concrete (1:4:8 mix) for indoors and compacted granular or other approved fill for outdoors. Backfilling of the pipe trenches shall be by soft material free from stones and shall be watered and carefully tamped over and around the pipe concrete surround in 300mm layers until they are covered to a depth of 600mm. Subsequent filling is to be in 150mm layers, watered and rammed.

4.08 Cast Iron Man-hole Covers and Frames.

Covers and frames shall be to B.S. 497, of approved manufacturer Covers are to be cleanly cast, free from air-holes, sand holes and voids, and to fit well in the frame. Covers and frames shall be coated using hot applied coal-tar based material complying with B.S. 4164:1980.

Unless otherwise specified, covers are to 600 x 450 mm, single or double seal, flat type or recessed top for light or medium duty as specified on the Contract drawings.

Heavy duty as "East Africa foundry works"

Medium duty (Grade B): Minimum weight 143 Kg.

Light duty (Grade C): Minimum weight 37 Kg.

Step irons for deep man-holes, where specified shall be of cast iron to B.S. 1247.

4.09 Sundries.

Galvanised steel wire baloons shall be B.S. 416, table 22, of approved manufacture. Vent cowls, weathering slates and aprons for uPVC piping shall be supplied from the manufacture of the plastic pipeworks system.

Fixing of all pipework shall be by holder-bats, pipe-rings and fixing clips, screwed, nailed or bolted to the structure to manufacturers recommendations and to the Engineer's approval.

4.10 Inspection and Testing.

All inspection and testing shall be carried out as laid down in B.S. 5572:1978 and to the Engineer's approval. All apparatus and water for testing shall be provided by the Contractor.

Drainage pipework shall be tested as soon as practical after erection. Concealed pipework shall be tested to approval before enclosing.

Testing shall be carried out as follows: -

a) Carry out air-test as described in B.S. 5572, Clause 12.3.1.
b) Carry out water test as described in B.S. 5572, Clause 12.3.2.3.
c) Carry out performance tests as described in B.S. 5572 Clause 12.3.3.

Keep record of all tests carried out for inspection by the Engineer.

5.0 SANITARY APPLIANCES.

5.01 General.

All sanitary appliances shall be installed in accordance with the best standard of modern practice as described in B.S. 6465, and to the approval of the Engineer.

The appliances shall be as here-in specified and as described on the Contract drawings. The item specification is given as a guidance only, including manufacturers reference numbers, but the Contractor shall ascertain and procure all the necessary accessories specified or not, but which are required for complete installation and proper functioning of the appliance. The Contractor shall also ensure that all items ordered comply with the general regulations, standard and by-laws as specified in this document.

Where specific items are unobtainable, the Engineer shall be entitled to reject any of the alternatives on grounds of appearance or for any other reason, notwithstanding compliance with the terms of this specification.

5.02 Protection.

Protection covers for the appliances etc shall be retained during and after fixing as far as possible.

None of the equipment for the Contract works shall be used for preparing or soaking materials for washing tools, disposing waste or for any other purpose for which they are not designed.

All appliances must be stored under cover and kept dry prior to installation.

Where existing sanitary fittings are to be removed or replaced, the fitting is to be removed with utmost care and all fittings and taps to be handed over to the Employer.

5.03 Fixing.

All fixtures shall be fixed in accordance with the manufacturer with the manufacturer's recommendations and to the Engineer's approval.

Fastenings and fixings supplied by the equipment manufacturers shall be used wherever possible.

TECHNICAL SCHEDULE.

The Tenderer must complete the following schedule comprehensively, indicating the names of Manufacturers and/or suppliers and unit types and must submit technical brochures for the equipment he proposes to supply for the work.

ITEM **MANUFACTURE & MODEL Nos.**

1.Sanitary Appliances……

2. Stainless steel sinks……

3. Wash Hand Basins ……

4. Taps ……

5. Galvanised Mild Steel pipes and fittings ……

6. u.P.V.C pipes and fittings (Drainage) ……

7. u.P.V.C pressure pipes and fittings ……

8. Valves ……

9. Water Tanks ……..

10. Laboratory Sinks …….....

11. Hot Water Cylinders ……...

12. Portable firefighting units ……

13. Hose Reels ……...

Signature: ……..…….. Date: …… 20 ……

Tenderer.

PLUMBING INSTALLATION.

WATER PIPES TESTING REPORT.

Project…… Date …….. 20……..

Foreman/Plumber …….

DATA RECORDED ON SITE

Location and Ref. Drawing:					
Length/Diameter of Pipe:					
Class/Type of pipe					
Test Pressure Required					
Water filled at –					
Test Pressure Reached at –					
Loss of Water/Pressure – Reading	1st Hr.	2nd Hr.	3rd Hr.	4th Hr.	6th Hr.
Quantity of water pumped to					
Allowable Quantity of Leakage					
Remarks					

Signature: …… Date: …… 20 ……..

(C.O.W/R. E)

Signature: …… Date: …… 20 ……..

Foreman/Plumber

PLUMBING INSTALLATION

WATER PIPES TESTING REPORT.

Project…… Date …….. 20……..

Foreman/Plumber …….

DATA RECORDED ON SITE

Location and Ref. Drawing:					
Length/Diameter of Pipe:					
Class/Type of pipe					
Test Pressure Required					
Water filled at –					
Test Pressure Reached at –					
Loss of Water/Pressure – Reading	1st Hr.	2nd Hr.	3rd Hr.	4th Hr.	6th Hr.
Quantity of water pumped to					
Allowable Quantity of Leakage					
Remarks					

Signature: …… Date: …… 20 ……..

(C.O.W/R. E).

Signature: …… Date: …… 20 ……..

Foreman/Plumber.

FIRE FIGHTING/PROTECTION INSTALLATION.

A. PORTABLE FIRE EXTINGUISHERS.

The Contractor shall supply and install portable fire extinguishers as shown on the Contract Drawings and as directed on site by the Engineer. These shall be containing an extinguishing medium of water, foam powder, carbon dioxide or halon, contained in a metal body, rechargeable or non-rechargeable.

The units shall comply in all respects to B.S. 5423:1980 and B.S. 5306 Part 3, 1985.

Where fixed on the wall, an appropriate fixing method shall be used, with rawl plugs in the wall to ensure permanent fix.

Timber pegs shall not be acceptable for wall fixing the units shall be supplied sealed to manufacturer's recommendation and the seal shall be easily breakable to facilitate quick use during firefighting operation.

B. HOSE-REEL INSTALLATION.

The Contractor shall supply and install the hose-reel firefighting installation all as shown on the Contract Drawings and as directed by the Engineer.

The hose reels shall comply in all respects to B.S. 5274:1985; automatic type, with the reel-hose complying to B.S. 3169:1981.

Each hose-reel shall be fitted with a screw down globe valve to B.S. 1010, on the inlet to the reel. The hose-reel booster pump shall be of centrifugal type, with a minimum capacity as shown on the drawings. The pump shall be complete with an electric motor, a pressure cylinder, a base plate together with a gate valve and a strainer on the suction side plus a non-return valve on the discharge side all as shown on the Contract Drawings.

Control for the pump shall be by a pressure switch.

Piping for the hose-reel water supply shall be galvanized steel tubing to B.S 1387:1967, Class B with pipe threads to B.S. 21:1985. Pipe fittings shall be seamless wrought steel to B.S. 1974 Part 1, 1971.

Gate valves shall be of bronze body and solid wedge with a non-rising stem and wheel, conforming to B.S. 5154:1983, and generally as Crane type DM 160 Check valves shall be Lift

type with bronze body and composition disc conforming to B.S. 5154:1983 and generally as crane type DM 118.

All hose-reel supply pipework and fittings shall be painted etching primer and two coats of red enamel paint to comply to B.S. 1710:1984. All painting shall be applied to manufacturer's instructions.

C. DRY-RISER INSTALLATION.

Pipes shall be galvanized steel tubing to B.S. 1387:1967 Class B with pipe threads to B.S. 21. Pipe fittings shall be wrought steel seamless pipe fitting to B.S. 1740 Part 1: 1971.

Flanges: steel flanges to B.S. 4504:1969 PN 16.

Fire Brigade Breeching inlet shall consist of twin inlets; each inlet consisting of 65mm diameter male instantaneous coupling to B.S. 336 with a non-return valve and a blank cap secured with a short chain.

The breeching inlet shall be enclosed in a sheet metal inlet box, finished in „fire red" backed enamel paint, with wired glass door to B.S. 3980. The door shall be secured with spring lock such that it can only be opened from the inside by breaking the glass and releasing the catch on the lock.

The door glass front shall be clearly marked with 50mm high red lettering "DRY RISER BREECHING CONNECTOR".

Landing valves shall be 65mm diameter gunmetal gate pattern dry riser outlets with flanged inlets and female instantaneous outlets fitted with plugs secured by short chain and conforming to B.S 5041: Part 2:1976.

Air Release Valve shall be fixed to the dry riser terminating at least one meter above the topmost landing valve.

The above valve shall be automatic air release valve conforming to B.S. 1452.

The valve and the dry riser projecting over the roof shall be effectively earthed to prevent damage from lighting.

D. FIRE HYDRANTS.

The fire-hydrant system shall comply to the requirements of B.S. 5306 Part 1.

The fire hydrants shall be of the screw down type to B.S. 750 type 2. These shall be of meehanite cast iron body with bronze spindle rings and nut and nickel-plated mild steel bearing plate.

Units shall have discharge capacity of not less than 34 1/s (450 gal/min) at a constant running pressure of 1.7 bars.

Units shall be installed underground in a concrete block chamber with surface box manufactured from meehanite cast iron (medium or heavy traffic design as specified) all to B.S. 750. The cover shall be inscribed F.H and chained to the box, all as manufacturer by Glenfield Ltd., or equal, approved.

An indication plate to B.S. 3251 and of approved manufacture shall be installed at a nearby and conspicuous position.

E. SPRINKLER SYSTEM.

The specification shall comply with the Fire offices (FOC) rules for ordinary Hazard Group I.

This is a wet pipe system that is permanently charged with water under pressure both above and below the installation alarm (wet pipe) valve.

PIPEWORK.

1. All pipework above ground shall be heavy grade (class C) galvanized steel conforming to BS 1387 suitable for screwing to BS 21 pipe threads.

2. Pipes laid underground must conform to BS 3505 Unplasticized PVC pipe for cold water supply.

3. Joints must be made with fittings of the manipulative compression type to BS 864 part 2 only. Pipe bending is not allowed.

4. All welding of sprinkler pipework must be carried out in accordance with the provisions of BS 2640, BS 2971 or heating and ventilating contractors" association manual-welding of mild steel pipework, except that the use of “set in type branches or sockets” and “cut and shut” or “segmented” bends is not permitted.

5. All pipework shall be given 2 coats of red paint.

6. Slope of pipes for drainage: Sprinkler pipes of installations, whether on the wet, dry or alternate system must be installed such that the system can be thoroughly drained. Sprinkler pipes must be laid to the following minimum slopes:

- Wet pipe systems -2mm in 1 m.
- Dry pipe and alternate wet and dry pipe systems with pipe diameter 50mm and above -

4mm in 1 m.

- Dry pipe and alternate wet and dry pipe systems with pipe diameter less than 50mm – 12mm in 1 m.

7. Support of pipework:

The contractor shall make use of the following items to support the pipework as necessary:

- Hangers
- Fasteners.
- Primary support brackets.
- Pipe clips.
- Sling rods.
- U – bolts and
- Toggles.

8. spacing and location of hangers:

There must be at least one hanger for each pipe section: the distance between hangers for horizontal and vertical sprinkler pipework shall not exceed the following:

Nominal diameter of pipe(mm)	maximum spacing(m)
Less or equal to 65	4.0.
More than 65 and upto 100	6.1.
More than 100 and upto 250	6.5.

PRESSURE GAUGES

1. On all installations, there must be a pressure gauge (c) fitted immediately above the alarm valve and another (b) immediately below the alarm and main stop valves.
2. Pressure gauges shall conform to BS 1780. The maximum scale value of such gauges should be of the order of 150 per cent of the known maximum pressure. Pressure gauges must have divisions not exceeding 0.2 bar for a maximum scale value of 10bar, not exceeding 0.5 bar for a maximum scale of 16 bar and not exceeding 1 bar for a maximum scale exceeding 16 bar.
3. Means must be provided to enable each pressure gauge to be readily removed without interruption of installation water supplies.

FITTINGS VALVES.

Installation control valves:

The installation must be provided with a set of installation control valves comprising:

a) a main stop valves

b) an alarm valve suitable for a wet system and

c) a water motor alarm and gong.

STOP VALVES:

1. All stop valves must be right-handed i.e they must be so constructed that in order to shut the valve, the spindle must turn clockwise. The control wheels must be clearly marked showing in which direction the wheel is to be turned to close the valve. There must be an indicator also to show whether the valve is open or closed.
2. The following types of installation valves are allowed:

   a) Gate / sluice valves designed and constructed to one or other of the following specifications or equal and approved:

   - BS 5150- cast iron wedge and double disc gate valves for general purposes.
   - BS 5163- Double flanged cast iron wedge gate valves for water works purposes.
   - BS 1952-copper alloy gate valves for general purposes.
   - BS 5157-steel gate valve for general purposes.

   b) Gear operated butterfly valves designed and constructed in accordance with the following specifications or its equivalent subject to approval----BS 5155 cast iron and carbon steel butterfly valves for general purposes

BALL VALVES.

Ball valves for use in connection with the incoming water main to be brass gun metal or other corrosion resistant material preferably equilibrium type to BS 1212 (1953) as GLENFIELD AND KENNEDY LTD.

All ball valves to be classified as high-pressure Ball valves rated at 14.10 kg/sq. cm maximum.

CHECK VALVES to be of cast body incorporating flanges, for service of over 54 mm nominal bore to BS 5153 (1974).

Services of 54 mm nominal bore and under to be copper alloy to BS 5154 (1974).

SPRINKLERS:

The sprinklers in this installation shall be 15mm conventional pattern suitable for pendent position and a temperature rating of 68 deg. C.

GENERAL SPECIFICATION FOR ELECTRICAL WORKS.

A. GENERAL CLAUSES.

2.01 Regulations.

This specification covers the requirements of lighting and power installation in Kenya. All apparatus and material supplied and all work carried out shall comply with the Kenya Government Electrical Specifications, GES.1 and GES.2 and local Statutory Regulations. Installations should also be generally in accordance with the requirements of the 16th Edition of the "Regulations of the Electrical Equipment for Buildings" issued by the institution of Electrical Engineers, which should be used as a “Code of practice" except where they conflict with Kenya Government Legislation regarding electrical installations.

2.02 Standards.

Except where otherwise indicated in this Specification the Contract Works and all manufactured items shall comply with the relevant Specification of the British Standards Installation. Such Specification are here in after referred to as "BS". In each case, the latest edition of such Specification shall apply.

Should it be desired to offer equipment covered by other National or International Standards, the approval of the Engineer must be obtained, in Writing, before completion of the tender.

2.03 Records Drawings.

The contractor shall mark accurately on one set of drawings the conduit laid during the progress of the work. This information must be made available on site for inspection by the Engineer.

At the completion of the Contract, the Contractor shall supply the engineer with one set of transparent originals, and two complete sets of prints showing the complete installation.

The drawing shall include the location of all apparatus conduits and cable routes and a schematic diagram of the main distribution indicating the phasing of the system.

2.04 Contract Drawings.

These drawing form part of this specification and are to be read in conjunction with this specification to enable the contractor to prepare a tender. Where there are any omissions in the bills of quantities, contract drawings supersede the bills of quantities.

These drawings are not intended to be used as working drawings unless they are released for that purpose.

2.05 Working Drawings.

The contractor shall prepare the working drawings as may be necessary. These shall be submitted to be Engineer for approval before the execution of the works.

Working drawings, to be prepared by the contractor, shall be detailed as below but not restricted only to these: -

1. General arrangement of drawings showing plants, M.V. Switchgear, distribution boards, consumer units, fittings, switches, switched sockets outlets etc.
2. Layout drawings of concealed and surface conduits, ducts, trucking etc.
   Any other drawings that are not called for in the Specification.
   Two copies of all working drawings shall be submitted to the Engineer for approval.
3. Thereafter, the contractor shall submit copies of approved working drawings for distribution to the parties concerned. The contractor shall not be relieved of any of these obligations under the contract or from correction any errors on site or elsewhere found subsequently in the approved working drawings by the Engineer.

2.06 Labels.

All switchgear, switch fuses, distribution boards, etc., shall be clearly labeled with black on white background engraved labels to indicate the name, purpose and position of the gear. All circuits in distribution boards shall be clearly identified in respect of the number and location of the M.C.B. The charts shall be securely fixed inside the covers of the distribution boards.

2.07 Galvanizing.

Galvanizing shall be applied by the hot process and shall consist of a smooth clean zinc coating free from defects and be uniform in thickness.

The thickness shall be not less than 610gms of zinc per square meter of surface and tested in accordance with the requirements of B.S 729 where applicable. Sheradiling or other alternative processes shall not be used without approval in writing of the Engineer.

The preparation for galvanizing itself shall not adversely affect the mechanical properties of the coated material. Surfaces which are normally in contact with oil shall not be galvanized or cadmium plated.

All out-door structures, access ladders, platforms, equipment cubicles shall be galvanized.

2.08 Cleaning and painting.

Having due regard to the destination and climate conditions under which the plant is to operate, extreme care shall be exercised in the manufacture of the equipment to prevent the formation of any corrosion. All equipment shall be cleaned of all dust, oil, grease, dirt, scale and rust by power tool operated metal brush or preferably by shot or grit blasting and then ground smooth where necessary. Unless otherwise approved, they shall then immediately have applied to them two coats of approved primer paint. After inspection any rough surface shall be filled in and smoothed over and further painting in the factory shall be as follows: -

a) All interior of cubicles, kiosks, boxes etc., containing wiring or other apparatus and internal components of the plant which are dispatched to site in an assembled condition, shall be finish painted with at least two coats of white enamel. The final oat shall be of white anti-condensation finish, where so specified.
b) The external surface of the panels shall be finished in gray stove enamel to B.S. shade 631 or other shade as may be approved by the Engineer.
c) All interior surface of tanks and other oil filled chambers and external surface of piping therein shall be painted finally with an oil resisting coating to the approved by the Engineer.
d) All wall and floor mounted junction boxes, loose starters, etc., throughout the works shall be finished in grey stove enamel or painted finally with to B.S. 381C shade 631 or other shade as may be approved by the Engineer.

   After all erection has been made completed at site, the contractor shall make good all defects in painting and galvanizing which have arisen during transport, storage and erection on site and shall apply undercoat and one finished coat of gloss paint

to B.S. 311C shade as may be approved by the Engineer to the external surface of all equipment.

Where galvanized metal work has been damaged it shall either be repaired by cold galvanizing

at site or alternatively at the discretion of the Engineer, be returned to the manufacturer for re-galvanizing by the hot process.

2.09 Lighting and Distribution Boards.

General lighting and power distribution boards shall comply with the B.S. 3817, 5861 and B.S. 214 and shall be of the metal clad pattern, flush mounted, except where otherwise specified on the drawings.

2.10 Construction.

Enclosures shall be substantially constructed from 16S.W.G. minimum thickness sheet steel having hinged front cover, and shall be vermin and insect proof. Each unit shall house M.C.B."s and shall be supplied complete with bus-bars, earthing terminal, neutral bar, circuit chart, and blanking plate for any spare ways. The incoming isolator switch shall be integral with the distribution board in consumer Units only.

2.11. Miniature Circuit Breakers.

All distribution boards shall be supplied with M.C.B.'s manufactured to B.S. 3871 and of a rating as specified on the drawings. The circuit breakers shall incorporate both thermal overload and magnet short circuit tripping, with a trip-free mechanism.

Three phase circuits shall be controlled by integrally manufactured three pole circuit breakers, with one common operating lever. An intercropping mechanism shall ensure isolation of all three poles in the event of an overload or short circuit on any one phase.

2.12 Earth leakage Circuit Breakers.

If specified or indicated on the Contract drawings the use of E.L.C.B. for isolation of incoming supply in the distribution board shall be of an approved type for flush mounting. The general requirements of the E.L.C.B. are as follows: -

a) It shall have high sensitivity i.e. it shall operate in 30 milliseconds for a leakage current of

30 milliampere.

b) Its operation shall not rely on the mains supply for tripping under fault conditions. For example, in the event of a leakage from the live to earth conductor occurring at the same time as break in the neutral supply wire, the breaker shall trip.

2.13. Labeling.

A circuit chart in each board shall show the name, location and current loading of each circuit connected. Each board shall be fitted with an engraved identification label in black on white, such as "Distribution Board D.I.", etc., and all three phase distribution boards shall be labeled in white on red, "DANGER 415 VOLTS".

B. NON-METALLIC CONDUIT.

2.14 Standards and Installation.

All non-metallic conduits shall be class `A' heavy gauge, high impact, PVC complying with BS 4606-part 2 type All. The minimum size to be used on the Contract is 20mm external diameter. The required sizes are shown on the Contract drawings. All conduit installation shall be concealed in the walls and floors or in structural slabs.

2.15 Joints.

Conduit will be joined and terminated utilizing the appropriate rigid PVC compounds as detailed below, or standard conduit entry electrical equipment. Jointing will conform to one of the following techniques:

No. 1 - Permanent Adhesives - The solvent cement supplied by the conduit manufacturers will be used to produce a rigid sealed connection.

No. 2 - Flexible Adhesive - A non-hardening adhesive supplied by the conduit manufacturers will be used to produce a flexible sealed joint where allowance is necessary for longitudinal movement (e.g. expansion couplers).

2.16 Bends.

Bends and sets in the conduit will be made in accordance with the manufacturer's

instructions. The radius of the bend shall not be less than 2.5 times the outside diameter of the conduit or such greater radius which will facilitate easy drawing in of cables.

2.17 Expansion.

Adequate allowance shall be made for longitudinal expansion and contraction of the conduit under normal working temperature variations as follows: -

(a) Expansion couplers should be used in straight runs exceeding 6 meters with a loose or flexible type joint
N0.2 above) at the long spout end of the coupler.

(b) Saddles as supplied by the manufacturers shall include a sliding support tolerance for longitudinal expansion.

Special consideration may need to be given to the fixing of accessories where this may prevent natural conduit movements Over size or slotted fixing holes may be necessary or the introduction of expansion couplers.

2.18 Support.

Conduits should be supported by saddles, at not more than 900mm intervals. Where working temperatures tend to be high this should be reduced to 600mm.

2.19 Conduit Boxes and Fittings.

a) All conduit boxes shall be circular or square pattern of Rigid PVC suitable for plain connections conforming to sheet 62 B.S. 4607 part 2. Boxes for supporting a fitting or accessory shall be fitted with a PVC lid held in position by means of two 2BA round headed screws Boxes shall have metallic screwed inserts.

b) Circular or square boxes shall be provided at all outlet points, unless otherwise specified and lighting fitting, ceiling switches and other accessories will be screwed to the internal lugs of the boxes. Care must be taken when considering the use of totally enclosed fitting with PVC circular boxes where the temperature within the box is likely to rise above 60 C [140 F]. Special steel insert clips should be used in conjunction with circular boxes where heavy pendants are used.

c) Looping in boxes of circular P.V.C. pattern to sheet 63B.S. 4607 part 2 may be used in such work as dictated by the structure of the buildings. Conduit entry shall be made by means of P.V.C. bushes.

d) Adaptable boxes shall be of molded or fabricated PVC of square or oblong shape complete with P.V.C. Lids secured by 2 BA or steel plates round-headed screws. All adaptable boxes and lids of the same size shall be interchangeable. No adaptable box smaller than 75mm x 50mm or larger than 300mm x 300mm shall be employed. Boxes shall be of adequate depth in relation to the size of conduit entering them.

e) Conduits shall be terminated at adaptable boxes, fuse-board switches, sockets outlets or other equipment not possessing push-in or threaded spouts, by means of appropriate size female adapter and PVC hexagonal headed Bare Bush. All cemented joints to be made to a depth of not less than the diameter of the conduit being used.

2.20 Earth Continuity.

Earth continuity shall be provided by a separate insulated conductor drawn into the plastic conduit and rated in accordance with circuit loadings and appropriate regulations, or as mentioned, on the drawings.

Where required under the Regulations, an earth continuity conductor shall be provided for lighting fittings in which case the control switches shall be equipped with an appropriate earth terminal.

2.21 Arrangement of Conduit Layout.

The conduit system shall be carefully planned and erected to avoid unnecessary bends or changes in direction. Conduits shall be laid in straight horizontal or vertical lines with easy sets. Where several conduits follow similar routes, they shall be laid out from a common center. Where draw-in boxes for right angled change of direction are required in multiple runs, adaptable boxes shall be used for such size as to allow conduits to enter the box without sets. Where conduits are concealed or laid on constructional floors, they shall be secured by fixing as approved by the Engineer. Where it is essential that conduits cross one another in floors, the chases shall be deepened and the conduits set to create the minimum desirable diversion.

Care shall be taken to ensure that there are no obstructions to cables within the conduits caused by the ingress of plaster, concrete, or other matter. Conduit ends must be square and cleaned of burrs.

2.22 Conduit Draw-in Points.

Conduits for each circuit shall be completely erected before any cable is drawn in. Adequate draw-in points shall be provided. Straight runs shall have drawn-in facilities at distance not exceeding 12 meters. Runs incorporating sets of bends shall have drawn-in facilities at a distance not exceeding 9 meters These distances may need to the reduced in difficult situations or with particular cable complexes.

Not more than four easy sets, or two right angle bends or sets may be installed between draw- in points. Solid elbows or tees shall not be accepted.

C. FINAL CIRCUIT WIRING.

2.23 Type.

All power and lighting wiring cables shall be 600/1000-volt grade, single core, P.V.C. insulated, with stranded copper conductors, manufactured in accordance with B.S. 6006. The minimum size of lighting circuits shall be 1.5 sq.mm sizes, 4.0sq.mm on power spur circuits and 2.5sq.mm on ring main circuits.

2.24 Installation.

Cables forming circuits connected to different distribution boards shall not be drawn into the same conduit or draw-in box The cables shall be colored in accordance with Table B4 of the IEE Regulations. Cables used on extra low voltage circuits shall be of distinctive colour other than these colour.

No reduction of the strands forming the conductors shall be allowed at switch or other terminals, but all strands shall be effectively secured by screws, nuts and washers or other approved means.

Cables shall be joined together at the terminals of ceiling boxes and other accessories. Under no circumstances will joints be permitted in the run of the cable.

D. P.V.C. INSULATED ARMOURED CABLES.

2.25 Type.

These shall be 600/1000 voltage grade to BS.6346 or B.S 6004 having copper wire insulated, P.V.C. sheathed, single wire armored and P.V.C. sheathed overall. The cores of four core cables shall be distinctively colored red, yellow, blue and black. The Contractor shall provide suitable glands and accessories for all armored cable termination, and where cables are suspended shall provide the necessary rack, cleat or hanger supports and fixing.

Cable supports and racks shall be made by a recognized manufacturer and shall be to the approval of the Consulting Engineer.

All supports and racks shall be arranged as far as is practicable for the easy removal of any single cable in a multi-cable run, without threading cables through supports and racks. The number of types of supports and racks shall be kept to a minimum commensurate with meeting the requirements of the Contract Works.

2.26 Laying of Cables.

The work of excavating and back-filling of all trenches for cables, is included in this contract and the responsibility for positioning, width and depth of trenches, and for laying and bedding of all cables and protective covers is included with the Electrical Works covered by this Specification. Cables shall be laid in trenches at the following minimum depths.

For M.V. cables in open ground	0.55m
For M.V. cables under roads and pavements	0.85

Where more than one cable is laid in a trench, cables shall be spaced as follows:

Between M.V. cables	0.1m
Between M.V. and telephone cables	0.4m
Between M.V. and L.V. cables	0.4m
Between L.V. and telephone cable	0.4m
Between L.V. cables	0.1m.

In straight run trenches cable crossings shall not be permitted except where cables branch from the main run.

At every draw-in point or junction box the cable should be snaked.

Before cables are laid the bottom of the trench shall be evenly graded and cleared of all loose stones, and shall then be covered with an 80mm layer of sand or sifted soil and lightly compacted, and a further 80mm layer shall be placed on top of the cables. The approved cable protection, see Clause 2.27, shall then be laid and the excavated materials in 0.2m layers, each layer being well compacted by hand or mechanical punners before the next layer is filled.

The width of the trench shall be such that a clearance of 80mm shall be provided between outermost cable and the side of the trench. Where cables are disposed in more than one layer, the vertical spacing shall be 0.4. between centers of cables or cable groups, the depth of the trench being made suitable accordingly.

2.27 Protective Covers.

The protective covers, of approved local manufacture to BS.2484 shall be provided over cables laid in the ground each complete with an interlocking device to prevent lateral displacement. These protective covers shall extend at least 50mm laterally beyond the outside of the outer cable in each group of cables so protected.

2.28 Cable Position Markers.

These should be placed adjacent to all points where cables change direction, and at all intervals of not more than 30m and at other positions designated by the Architect or the Consulting Engineer.

2.29 Sealing of Cable Entries.

Where cables enter a building in pipes, or ducts, the mouths of the pipes or ducts shall be effectively sealed by means of close fitting solid impregnated wooden plugs and mixture of compound and transformer oil, or other approved manner. All cables passing through interior walls or floors shall be effectively sealed to the approval of the Engineer By means of asbestos cement after the cables have been pulled through, in order to prevent the accumulation of moisture and the ingress of debris, sand or vermin. The cost of sealing the cables shall be included in the rates for erection and laying.

2.30 Protection Against Mechanical Damage.

All cables located in such positions where they are vulnerable to damage by mechanical or other means shall be protected by suitable lengths of steel pipe bushed to prevent damage to the cable.

2.31 Rating Plates.

Each cable when completely erected shall have permanently attached to it at each end, and in such intermediate positions as may be considered necessary by the Engineer, metal plates upon which is engraved, or stamped, the identification number of cable together with it supplies. This information shall be recorded by the contractor so that it may appear on drawings of the completed installation.

2.32 Cable Jointing.

The Contractor shall be wholly responsible for sealing and jointing of all cables supplies and erected under the contract. The cable boxes, loop-boxes and glands for power and L.V. cables on all items of equipment shall be provided under the contract.

Sealing and jointing shall be in accordance with the best current practices and of first-class workmanship. Where cable armoring is used as earth continuity conductors the glands shall have the necessary contact surfaces or straps to provide a low resistance path under fault conditions.

The Tender shall include for all cable jointing where appropriate and also all labour, jointing material and compound, together with the use of all jointer`s tools and making of the tails to the apparatus terminals.

Generally, cable terminations on switchgear, transformers, joint boxes, outgoing, and incoming circuits on the switch-boars shall be glanded in an approved manner.

E. SOCKET OUTLETS.

2.33 General.

In all areas, general power outlets shall be of the 13 Amp.3 pin fused plug type complying with BS. 1363. They shall be flush pattern with white or ivory plates unless otherwise specified on the drawings. Where the circuits are supplied from a common feed, two outlets shall form a twin unit in a common box. The earthing terminal of every socket outlet shall be connected to the earth continuity conductor of the final circuit by an

appropriately sized insulated copper conductor. Unless otherwise stated they shall be mounted at 300mm above finished floor level.

2.34 Plugs.

One fused plug top shall be supplied for each socket outlet installed. Fuses shall be 13 Amp unless otherwise specified.

F. FUSED CONNECTION UNITS.

2.35. General.

All fused connection units shall be 13 Amp. with fuse and neon indicator lamp. Boxes shall be flush type with white or ivory copper plates and shall be switched type unless otherwise specified on the drawings.

2.36 Fuses.

All fused connection units shall be fitted with 13 Amp. fuses, unless otherwise specified.

2.37 Labeling.

The front plate of each fused connection unit shall, unless otherwise specified, be engraved with the name of the appliance connected to it.

G. LIGHTING SWITCHES.

2.38 Type.

Lighting switches shall be of the all-insulated rocker operating plate switch type to BS. 3676 of ample rating. Switch inserts shall be white set in white or ivory cover plates.

Switches controlling points in bathrooms shall be placed outside the bathroom or consist of a ceiling switch operated by a non-conducting cord, as specified. Switches mounted outdoors shall be of a weather tight pattern.

Switches shall be one way, two ways or intermediate as specified and where a number of switches are mounted together, they shall be tilted in a common box.

Ceiling switches shall be white or ivory semi recessed pattern, and shall only be used where specified. Pull cords shall be fitted with shock absorbing springs.

H. LIGHTING FITTINGS.

2.39 General.

The Contractor shall supply and fit all lighting fittings of the type indicated on the drawings and in the schedules. All fittings shall be suitable for operation on a 240V, 50Hz supply. Lighting fittings rated other than 240 volts will not be accepted. All lighting fittings shall be supplied with lamps.

2.40 Fluorescent Fittings.

Fluorescent fittings shall generally be of the batten type, with control gear contained within the supporting channel. All fittings shall be supported from conduit boxes, and shall be suspended by two 20mm diameter conduits to give a clearance of 25mm between the top of the fitting and the ceiling. Where fittings are suspended by chains from the ceiling the contractor shall use white flexible cord between the box and the fittings.

The installation of the suspension chain and cord shall be approved on site by the Engineer. In the ceiling, conduit boxes, to BS. 31, shall be fitted with dome covers, to which the suspension conduits shall be joined, so that the lighting fitting hangs vertically below the conduit boxes.

Fitting shall comply with BS. 3820 or class1, indoor normal atmospheres.

All fluorescent fittings shall be fitted with radio interference suppression capacitors and power factor correction capacitors and shall be earthen.

2.41 Reflectors and Diffusers.

All reflectors for fluorescent fittings shall be made of sheet metal suitably shaped and stiffened, and shall be of white enamel finish. The diffusers shall be of white enamel finish. The diffusers shall be of white opal type in extruded plastic with external reeding.

2.42. Lamps.

All lighting fittings shall be supplied complete with lamps of the type and rating specified. Fluorescent tubes shall be of the "white" type, except where otherwise stated. Pearly type tungsten lamps will be fitted in open fittings.

I. FLEXIBLE CORDS.

2.43 General.

These shall be of 250-volt grade PVC insulated and shall comply with BS.7. Flexible cords shall not be less than 24/.20(23/.0076).

Flexible cords for pendant fittings shall be circular type, heat resistant and white in colour.

J. EARTHING.

2.44 Earthing Electrodes.

Earth electrodes shall be minimum 1.4 meters long by 12mm diameter hard drawn copper rod, and shall be located not less than 3 meters apart at a convenient position 6 meters away from the building. The terminal head of each electrode shall be in a concrete inspection pit, with cover. If the resistance to earth is not satisfactory with one electrode, then additional electrodes or an earth mat shall be provided as directed by the Engineer.

2.45 Distribution System Earthing.

All distribution boards shall be earthed in accordance with the I.E.E. Regulations. All metal work associated with the regulations currently in force.

2.46 Testing of Earthing System.

The resistance of the earth continuity system when measured between earthing point and other point in the installation, including all conduit and metal work which may provide a path or earth, shall not exceed 0.5 ohm where steel conduit form's part or the whole part of the system, or 1.0 ohm, if the earth continuity system is composed entirely of copper, copper alloy or aluminum. When the installation is complete the Contractor shall carry out tests for earth loop impedance, polarity insulation resistance, ring circuit continuity and earth electrode resistance, in the presence of, and to the satisfaction of the Engineer and the K.P.& L Co. ltd.

The Contractor shall rectify all work not giving test results within the limits prescribed.

2.47 P.M.E. system.

Provision shall be made for P.M.E. System at supply intake (where applicable) and on the isolators of the adjacent building. "P.M.E." means that system whereby the neutral conductor of the supply network is earthed at a prescribed number of points along its route, together with the installation earth continuity conductor, at each consumer's

installation, so providing a metallic path for the flow of earth fault currents. The connections between the neutral conductor of the installation shall be made by the supply. Authority at the point of intake only. The connection at the isolators will be made by the Contractor in the presence of the Engineer after completion of all tests.

2.48 COMMISSIONING.

All installations shall be tested to the statutory requirements of the Electricity Authority, and commissioned in the presence of and to the satisfaction of the Engineer.

Four copies of tests reports shall be provided within seven days of carrying out the tests; and reports shall include full details of how each test was carried out, and a copy of all readings taken.

P A R T C.

PARTICULAR SPECIFICATION.

1. General.

The Specification contained hereinafter relates to specific electrical installation in the

"PROPOSED PARTITIONING AND INTERIOR FIT OUT OF 7TH FLOOR AND ALTERATIONS TO 5TH AND 6TH FLOORS UKULIMA COOPERATIVE BUILDING. – NAIROBI"

The Contract works shall be carried out in accordance with the current Code of Practice applicable to outside and inside electrical installation in public buildings and shall comply in all aspects with current regulations enumerated in Part B of this Specification. In carrying out the installation, the Contractor shall ensure that terminations and outlets for various appliances and machinery are correctly wired and rated.

2. Extent and Description of Project

The work to be carried out under this contract includes the supply, delivery, installation, connection, testing, energizing and leaving in service condition to the satisfaction of the Engineer of the complete installation as herein described in the specification and related specification and/or on the attached drawings. The installation includes the following items:

(a) Supply and installation of distribution board and armored cable.
(b) Supply and installation of super high impact gauge PVC conduit concealed in the buildings" roof space for drawing in of cables for lighting fittings.
(c) Supply and installation of electric cabling to all electrical points.
(d) Supply and installation of all electrical fittings and accessories.
(e) Tiding up of the whole working area.
(f) Supply and installation of lightening arrestor materials.
(g) Supply and installation of street lighting work.
(h) Power reticulations.

3. Commencement of Works.

The Contractor in submitting his tender shall be deemed to have included for commencing any necessary work on site at such time as to comply with the overall contractor's works

program. Safety is paramount and all necessary precautions should be taken into account to avoid accidents.

4. Incoming Electricity supply.

The Electricity supply for the project will be derived from existing meter board nearby. The tenderer shall test and commission the whole installation.

5. Attendance.

The contractor shall liaise fully with the Main Contractor and all other contractors in ensuring satisfactory completion of all their works. The works shall not be deemed completed until it is fully energized.

6. Distribution Board.

The distribution board shall be 4/6-way triple pole and neutral as specified in the contract schematic diagram. It shall be of the miniature circuit break type. The boards shall comply with B.S. 3817, B.S. 5861 AND B.S. 214. The MCBs shall comply with B.S. 3871.

7. Method of Wiring.

7.1. General.

Armored cables from the LV switchboard to distribution board shall be properly clipped onto the walls and roof space.

7.2 Lighting Circuit.

The lighting installation shall be carried out in single core PVC insulated cables drawn into plastic conduit concealed in floor slab, columns and walls, i.e. wiring system A.

8. Lighting Switches.

The lighting switches shall be single pole 10A ratings, rocker operated microgrid switches. The lighting switches shall be mounted at 1400mm above floor level.

9. Lighting Fittings.

Fluorescent Bulkhead Fittings

Fluorescent bulkhead lighting fittings shall comply with B.S. 4533, where applicable, and be complete with bi-pin lamp holders, auxiliary apparatus, internal wiring and lamps or tubes,

Fluorescent fittings shall be complete with correctly rated "Switchless start" control gear incorporated in the body of the fitting. Dangerous internal gas pressures shall not develop in capacitors. Discharge lamp circuits shall be effectively suppressed and have an operating power factor of not less than 0.85 lag.

All tungsten lighting fittings and accessories shall comply with B.S. 816.

All lighting fittings shall be protected against the ingress of hydrogen sulphide and the insulation shall not be subjected to excessive heat. Lamp holders not included in fittings shall be of heavy gauge brass screwed to conduit. Unless otherwise approved tungsten lighting fittings up to 200 watts capacity shall have Edison Screw lamp sockets, and lighting fittings over 200 watts capacity shall have Giant Edison Screw lamp sockets shall be suitably shrouded.

Fittings shall be rigidly fixed on the surface of ceilings except in the Printing Area where they shall be rigidly suspended from steel trusses by suitable steel rods, conduit or other non-flexible means.

Lighting fittings shall be complete with white fluorescent tubes.

10. Telephone/Computer cables.

The work to be carried out under this Contract is for the supply and installation of trunking for drawing in telephone and computer system cables.

The Contractor shall supply and lay 160mmx50mm 2 compartment powder coated metallic trunking as indicated in the contract drawings

11. Bonding and Earthing of cable sheaths and Terminations.

At a point near the switchgear termination ends of each power cable not laid in trefoil, bonding the earthing of three and four-core cables shall be by means of a branch earth tape connection from each cable armor clamp to the switchgear earth bar. The surfaces of the armor wire and gland are to be thoroughly cleaned to ensure a first-class connection.

Except where otherwise approved, single-core lead covered cables carrying alternating currents shall be run in close trefoil formation so as to keep to a minimum losses and voltage rise in the sheaths. With this arrangement, the cable sheath shall be insulated from the switchgear or other apparatus at both ends and bonded and earthed at one end only at the point of breaking trefoil. The cables having a route length exceeding 30mm, shall in addition,

have the lead sheaths bonded together (not earthed) at intervals of approximately 30m.After the single cables leave the final trefoil points, the clamps must be carefully insulated.

Unless otherwise approved, the method of bonding the metal sheaths of single-core cables in close trefoil formation shall consist of sheath lead 5mm thickness and approximately 100mm wide, wrapped round the trefoil cable assembly in such manner as the make close contact therewith. The edges of the lead strip shall be made at each side. Free ends of lead shall be left so that connection can be made thereto.

Where required, by means of strip between the lead ends and two other backing strips. Three galvanized steel bolts of not less than 10mm diameter shall be used for the connection of the earth strip to the lead bond. When buried direct in a creosote wooded box which shall be completely filled with bituminous compound.

12. Testing of complete Installation.

The installation when complete shall pass the following tests: -

1. Insulation resistance between lines and line/neutral.
2. Insulation resistance between line and earth and neutral and earth.
3. Earth continuity resistance including all fittings.
4. Test on earth electrode when carried out with earth (null balance) at any point within the network must not exceed 3 ohms.

The result of the test shall be issued to the Engineer who will ascertain whether they conform to the standard

13. Certificate of completion.

The contractor shall complete commencement, completion and installation test certificate and submit them to KPLC with a copy to the Engineer on completion of the works.

PART D.

SCHEDULES.

(i) The Tenderer shall complete all the schedules. The schedules shall be read in conjunction with the specifications and the drawings.

(ii) The total prices in the main summary of price schedules shall be deemed to include all obligations under the Contract including and not limited to supply of materials equipment, apparatus, fittings, spares, tools, insurance, delivery to site, storage, installation, testing and commissioning in accordance with this specification.

(iii) Any prices omitted from any section or part of price schedule shall be deemed to have been included in another item, section or part.

(iv) All prices shall be duty paid and shall also be inclusive of all taxes current at the time of tendering.

NOTES.

The bill of quantities listed hereunder as provisional are approximate and as such are subject to re- measurement on completion.

The quantities listed hereunder are not to be used for ordering purposes. The contractor is to make his own assessment from the documentation provided and from site measurement for the purpose of ordering materials.

PRELIMINARIES

Item	Description	Unit	Qty	Rate	Amount
	BILL NO. 1 **GENERAL PRELIMINARIES**				
	Compliance with Safety, Health & Environment Regulations	Item	1.00		
	10% Performance Bond	Item	1.00		
	Insurance of the Works	Item	1.00		
	Third Party Insurance Cover	Item	1.00		
	Workmen's Compensation	Item	1.00		
	Training Levy	Item	1.00		
	Temporary Facilities, Site Offices, Telephone, Power & Water	Item	1.00		
	Plant, Tools and Scaffolding	Item	1.00		
	Watching and Lighting	Item	1.00		
	Locating & Isolating Services	Item	1.00		
	Provisional Sum for Materials Testing & Site Control	Item	1.00		
	Occupation Certificate	Item	1.00		
	As built drawings for electrical, plumbing & drainage,	Item	1.00		
	Access to site	Item	1.00		
	Transport to and from site	Item	1.00		
	Setting Out	Item	1.00		
	Cleaning	Item	1.00		
	Protection of Adjacent Properties	Item	1.00		
	Temporary Hoarding, incl. NCC permits. Remove on completion	Item	1.00		
	Carried to Main Summary				

BUILDER'S WORK

Item	Description	Unit	Qty	Rate	Amount
	BILL NO. 1 **ELEMENT NO 1** **DEMOLITIONS (PROVISIONAL)**				
A	Carefully demolish existing 200mm thick walls and cart away debris arising therefrom and make good disturbed surfaces.	m^2	28.00		
B	Allow for removal of existing ceramic tiles floor finish and cart away debris arising therefrom, form key in backing for new screed (Approx. 43 m^2).	m^2	43.00		
C	Ditto but hacking to wall to allow for backing in preparation for new render for tiling. (Approx.104 m^2)	m^2	104.00		
D	Allow for removal of existing epoxy floor tiles finish with complete skirting and cart away debris arising therefrom, form key in backing for new screed. (Approx. 302 m^2)	m^2	302.00		
E	Carefully Demolish existing terrazzo floor finish and cart away debris arising therefrom, form key in backing for new screed. (Approx. 12m^2)	m^2	12.00		
F	Carefully remove existing timber door complete with frame including ironmongery overall size 820 x 2350mm high and cart away debris arising therefrom and make good disturbed surfaces.	No	5.00		
G	Ditto 900 X 2350mm high	No	2.00		
H	Allow careful removal of cabinet doors, frames and divisions below windows. Set aside for re-use as directed.	m	56.00		
I	Allow for careful removal of existing wash hand basin complete with associated pipe work and all accessories and cart away debris arising therefrom.	No	4.00		
J	Ditto Urinals	No	2.00		
K	Ditto Water closets	No	4.00		
L	Ditto Kitchen sink	No	2.00		
M	Carefully remove existing Soap dispenser and cart away.	No	3.00		
N	Carefully remove existing Hand driers and cart away.	No	2.00		
O	Carefully remove existing 200 x 50mm powder coated metal trunking with all connection accessories; and cart away.	m	97.00		
P	Carefully remove existing 1500x 200mm panelled casements including fluorescent tubes light fittings from ceilings and cart away.	No	14.00		
Q	Ditto 1500x 100mm	No	3.00		
R	Carefully remove existing LED fluorescent tubes light including all accessories from ceilings and cart away.	No	7.00		
S	Ditto Single Fluorescent Tube Fitting.	No	21.00		
T	Carefully remove existing Marine Optical smoke detector including all accessories from ceilings and cart away.	No	3.00		
	Carried to Main Summary				

Item	Description	Unit	Qty	Rate	Amount
	BILL NO.3 BUILDER'S WORK				
	ELEMENT NO 1 WALLING & PARTITIONS				
	INTERNAL WALLS				
	Fine Chisel dressed natural stone jointed and bedded in cement and sand mortar (1:4) as described in :-				
A	150mm thick walls with and including 25x3mm thick hoop iron strips every alternate course.	m^2	7		
B	Ditto 100mm thick	m^2	17		
	Dry Walling				
C	Supply & fix 12 mm gypsum board on 150mm steel studwork as Donn Ultrasteel with 25mm blockboard on both sides rockwool infill with steel framing all round complete with metal edge floor and ceiling trims in accordance with Architect's Details and manufacturer's printed instructions.	m^2	49		
D	Supply & fix 12mm thick Gypsum board to walling including all necessary galvanized steel channel brandering to Gypsum board partitions 2600mm high	m^2	50		
	Prepare & apply 3 coats (roller painted) first quality matt emulsion paint or equal and approved				
E	To gypsum surface	m^2	220		
	Glass Partitioning				
F	10 mm thick toughened glass frameless partition 2200mm high on 12.5 mm thick Gypsum board 50mm wide with all necessary galvanized steel channel brandering to Gypsum board partitions 400mm high in accordance with Architect's Details and manufacturer's printed instructions.	m^2	159		
G	Polycarbonate film to glazed partitions to Architect's approval.	m^2	159		
	Carried to Summary				

Item	Description	Unit	Qty	Rate	Amount
	ELEMENT NO 3 WINDOWS TIMBER FRAMED WINDOWS				
A	900 x 1800mm high timber framed windows fixed with 5mm thick obscure sheet panel glazing 630 x 1125mm high; Louvre Window Carriers 600mm high with Louvres for 100 mm blades per set of blade with handle.	No.	1		
B	Polycarbonate film to window overall size	m^2	3		
	Window blinds				
C	Horizontal roller window blinds including supply and fix to Architect's approval	m^2	79		
	TOUGHENED GLASS WINDOW				
D	10mm thick toughened glass with natural voice speak through at 1500mm high from floor level surrounded with metal framing; 50x50 x 4mm and screwed to granite top (m.s) in stainless steel channels to Architect's details and instructions.	No.	1		
	Carried to Summary				

Item	Description	Unit	Qty	Rate	Amount
	ELEMENT NO 2 DOORS FRAMELESS GLASS DOORS Frameless door				
A	10mm thick toughned frameless glass door with film overall size 900 x 2100 mm high. Including stainless steel pivot hinges, stainless steel handle and a magnetic lock system. (D03, D04)	No.	13		
	Steel Doors Supply, assemble and fix the following purpose-made standard 32mm "Z" section steel doors & partitions to comply to B.S. 990, obtained from an approved manufacturer, primed with red oxide primer before delivery to site complete with hinges, handles, catches and building in lugs; complete with glass and infills as detailed on drawings with all necessary ironmongery. All doors to have permanent vents				
B	Overall door size 900 x 2100mm high : comprising glazed panel size 240 x 800mm. (D07, D08)	No.	4		
C	Ditto 800 x 2100mm high. (D09)	No.	1		
	Prepare touch up primer and apply two undercoats and one finishing coat gloss paint to Architect's instructions : on metal				
D	General surfaces : steel doors : (both sides measured flat overall)	m^2	33		
	Purpose made mild steel burglar proofing to main door as detailed : 20 x 20 x 2mm SHS frame all round 12mm square section steel bars welded together at 150mm centres diagonally : : 40 x 25 x 2mm RHS frame horizontal with smooth welded joints : fixed with lugs built into and including mortices : finished with one shop coat primer all to Architect's approval and as per Schedule				
E	Overall Grill size 3000 x 2400mm high	No.	1		
	TIMBER DOORS Wrot hardwood timber : Solid core Panel mahogany door to details:				
F	45mm thick door overall size 900 x 2100 mm high. (D01,D02)	No.	6		
G	Ditto 770 x 2100mm high. (D11, D12)	No.	4		
	Wrot hardwood timber : Solid core mahogany flush door to details :				
H	45mm thick door overall size 1200 x 2100 mm high. (D13)	No.	1		
I	Ditto 1000 x 2100mm high. (D10)	No.	1		
J	Ditto 800 x 2100mm high. (D05)	No.	2		
K	Ditto 800 x 1800mm high. (D06)	No.	4		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount
	Wrot mahogany treated as described;				
A	150 x 50mm Frame : four labours : screwed and pellated	m	71		
B	50 x 25mm Architrave : two labours	m	71		
C	25mm Quadrant beading	m	71		
	Supply and fix the following ironmongery to timber : with matching screws : references are to 'union' catalogue or other equal and approved				
D	Three heavy-duty brass hinges	No.	36		
E	Three lever mortice lock complete with set lever aluminium handle furniture of high quality and as supplied by Assa abloy or equivalent.	No.	7		
F	Two lever mortice lock ditto	No.	7		
G	Indicator vacant/Engaged - satin steel ref 8094SS or equal an approved.	No.	4		
H	Magnetic door stop	No.	32		
I	Stainless steel kickplate 700 x 150mm	No.	4		
J	Hydraulic Door Closer; Casted aluminium body, Opening angle up to 180° as supplied by Assa abloy or equal and approved.	No.	32		
	Prepare and prime before fixing: on woodwork				
K	Frames ; over 100 but not exceeding 200mm girth	m	71		
	Prepare and apply three coats polyurethane clear varnish : on wood work				
L	General surfaces : doors	m^2	58		
M	Frames : over 200 but not exceeding 300mm girth	m	71		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount
	DOORS **COLLECTION** Total Brought Forward from Page No.		Page No		Amount
	Carried to Summary				

Item	Description	Unit	Qty	Rate	Amount
	ELEMENT NO 4 **INTERNAL FINISHES** **Render, Plasterwork and Screeds**				
	Prepare and apply 12mm (minimum) thick backing cement and sand (1:4): steel trowelled finish: on concrete blockwork or stonework : to				
A	Walls	m^2	190		
	Cement and sand (1:4) trowelled screeds : on concrete : to				
B	32mm Floors : finished to receive ceramic tile flooring	m^2	348		
	WALL FINISHES **Wall Tiles** **Provide a prime cost sum as indicated for supply of;**				
C	300 x 100mm glazed ceramic wall tiles to Architect's approval.	m^2	55	**1,200.00**	66,377.35
D	600 x 300mm ditto.	m^2	125	**1,200.00**	149,742.13
E	Hexagon shaped (80mm all sides) ditto.	m^2	10	**1,200.00**	12,408.00
	Take delivery & fix coloured glazed ceramic wall tiles as approved by the Architect : on and including cement and sand backing ; fixed with approved quality adhesive : grouted, jointed and pointed in matching colour cement mortar : on				
F	300 x 100 mm to Architect's approval.	m^2	55		
G	600 x 300mm ditto.	m^2	125		
H	Hexagon shaped (80mm all sides) ditto.	m^2	10		
	FLOOR FINISHES **Floor Tiles** **Provide a prime cost sum as indicated for supply of;**				
I	600 x 600 x 8mm coloured glazed non-slip ceramic floor tiles to Architect's approval.	m^2	348	**1,500.00**	522,537.75
J	450 x 450mm ditto.	m^2	38	**1,500.00**	56,999.25
K	500 x 500mm blue carpet tiles.	m^2	69	**3,500.00**	239,793.75
	Take delivery & fix coloured glazed non-slip ceramic floor tiles: as selected by the Architect : on screeded bed (m/s) jointed, pointed and grouted in matching colour cement mortar				
L	600 x 600 x 8mm thick to Architect's approval.	m^2	348		
M	100 x 12mm thick skirtings ditto.	m	382		
N	450 x 450 x 8mm thick to Architect's approval.	m^2	38		
O	500 x 500mm Blue carpet tiles ditto.	m^2	69		
P	100 x 12mm thick wrot mahogany skirtings ditto.	m	33		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount
	Server Room Platform				
	Supply, assemble and fix the following purpose-made standard 32mm "Z" section steel channels to comply to B.S. 990, obtained from an approved manufacturer, primed with red oxide primer before delivery to site				
A	6mm thick galvanised steel channels top and bottom laid on 200mm high steel studs at 600mmc/c on 200 x 200mm base plate including all other accessories to Architet's details.	m^2	2		
B	Supply and Fix 14mm thick laminated interlocking floor boards to Architect's approval.	m^2	2		
	Ceiling Finishes				
	Gypsum Ceiling				
	Supply & fix 12mm thick gypsum board on 50 mm steel studwork as Donn Ultrasteel complete with metal edge floor and ceiling trims in accordance with Architect's details.				
C	In horizontal suspended ceiling	m^2	391		
D	In vertical faces of 300mm wide bulkhead gypsum surfaces	m	471		
E	Ditto 1200mm wide	m	14		
F	Ditto 1500mm wide	m	6		
	Painting and Decorating				
	Rub down, skim and prepare and apply three coats 1st grade plastic emulsion paint : to				
G	Walls,beams and columns	m^2	278		
	Painting and Decorating				
	Prepare & apply 3 coats (roller painted) of first quality matt emulsion paint or equal and approved				
H	In horizontal suspended ceiling	m^2	391		
I	In vertical faces of 300mm high bulkhead gypsum surfaces	m	490		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount
	INTERNAL FINISHES COLLECTION Total Brought Forward from Page No.		Page No		Amount
	Carried to Summary				

Item	Description	Unit	Qty	Rate	Amount
	ELEMENT No.5 JOINERY FITTINGS				
	Worktops Concrete				
A	75mm concrete (class 20/20) top with one layer A142 fabric mesh : formwork ; and polished ceramic tile finish to top and edge	m^2	3		
	Sawn formwork : to				
B	Horizontal Soffits; Suspended work top slabs	m^2	3		
C	Vertical edge : fascia over 75 but not exceeding 150mm high	m	7		
	Supply and fix approved granite top; fixed to backing screed (m/s) with approved adhesive; laid to straight butt joints				
D	20mm Thick light grey granite slab top with rounded edge on blockboard base	m^2	5		
E	Ditto supported with mild steel brackets to Architect's approval	m^2	1		
F	Ditto to concrete surfaces	m^2	3		
G	150mm high light grey granite backsplash	m	2		
H	Extra over raking cuttings to counter tops for CHUBB Stainless steel cash tray overall size 445x325x135mm deep. Including supply and fix equal and approved.	No.	1		
I	Ditto for four-burner cooker	No.	4		
	Joinery Fittings Low level cabinets : comprising 20 x 20mm wrot camphor frames : 20 x 20mm sawn cypress bearers plugged and screwed : 25mm Medium Density Fibre board doors, shelves, partitions: all exposed MDF surfaces to have approved laminated finish : 100mm brass D-handles, brass piano hinges : and magnetic ball catches to each door, timber support to edges at 100mm high; all to Architects drawing and approval)				
J	Low-level kitchen cabinetry unit (overall) size 1800mm long x 450mm wide x 800mm high: comprising two equal compartments : 580mm wide x 450mm deep x 800mm high with 2No doors in frames : 3No drawers size 620mm wide x 450mm deep x 260mm high.	No.	1		
K	Ditto 1250mm long x 600mm wide x 800mm high: comprising Fixed cabinet board and 1 openable compartment: 650mm wide x 600mm deep x 780mm high; 1No door in frames.	No.	1		
L	Ditto 945mm long x 740mm wide x 800mm high: comprising two equal compartments : 472mm wide x 740mm deep x 780mm high; 2No doors in frames.	No.	1		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount
A	Low-level cabinetry unit (overall) size 1250mm long x 400mm wide x 800mm high: comprising two equal compartments : 610mm wide x 400mm deep x 800mm high with 2No doors in frames.	No.	1		
B	Ditto 2070mm long x 600mm wide x 800mm high: comprising two equal compartments : 510mm wide x 600mm deep x 800mm high: one openable compartment 515mm wide x 600mm deep x 800mm high: 3No doors in frames: 3No. Drawers 505x600x270mm high drawers made of 20mm front, 12mm sides and back and 6mm plywood bottom	No.	1		
C	Ditto 1200mm long x 600mm wide x 800mm high: comprising two equal compartments : 570mm wide x 600mm deep x 600mm high: 2No doors in frames: 2No. Drawers 570x600x140mm high drawers made of 20mm front, 12mm sides and back and 6mm plywood bottom	No.	1		
D	Ditto 1000mm long x 600mm wide x 800mm high: comprising 4 equal shelves size 420mm wide x 600mm deep x 310mm high: 2No doors in frames: 2No. Drawers 420x600x100mm high drawers made of 20mm front, 12mm sides and back and 6mm plywood bottom	No.	1		
E	Ditto 1160mm long x 500mm wide x 800mm high: comprising 2 equal shelves size 550mm wide x 500mm deep x 465mm high: 2 equal shelves size 550mm wide x 500mm deep x 260mm high.	No.	1		
	Skirtings				
F	100 x 25mm MDF skirting to match cabinets	m	20		
	Sliding Cabinets				
	Wrot mahogany treated as described				
G	75 x 50mm Frame : two labours : screwed and pellated	m	135		
H	Install soft close silent roller & door track to 75 x 25mm timber frames	m	107		
I	Take set aside cabinet doors and re-use to Architect's instructions.	No.	84		
	25mm thick mahogany doors faced both sides with 6mm MDF veneer for painting and lipped on all edges in hardwood				
J	560 x 500mm high cabinet doors	No.	12		
	Painting and Decorating				
	Rub down, skim, prepare and apply three coats polyurethane clear varnish : on wood work				
K	General surfaces : doors	m^2	48		
L	Frames : not exceeding 100mm girth	m	135		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount
	High level cabinets : comprising 20 x 20mm wrot camphor frames : 20 x 20mm sawn cypress bearers plugged and screwed : 25mm Medium Density Fibre board doors, shelves, partitions: all exposed MDF surfaces to have approved laminated finish : 100mm brass D-handles, brass piano hinges : and magnetic ball catches to each door; all to Architects drawing and approval)				
A	High level cupboard unit (overall) size 1200mm long x 300mm wide x 800mm high : 4No doors	No.	1		
B	Ditto 2070mm long x 300mm wide x 800mm high: 6No doors	No.	1		
C	Ditto 1800mm long x 300mm wide x 1000mm high : 6No doors	No.	1		
	WARDROBES AND CABINETS Built in wardrobe and cabinet units ; comprising 20 x 20mm wrote camphor frames : 20 x 20mm sawn cypress bears battens plugged and screwed : Medium Density Fibre board doors, shelves, partitions: all exposed MDF surfaces to have approved laminated finish : brass cabinet lock, 100mm brass D-handle : brass piano hinges and magnetic ball catches to each door ; prime back of frame before fixing prepare and apply three coats polyurethane clear finish to all exposed surfaces: All done in strict adherance to the Architect's drawings and Instructions.				
D	Wardrobe unit (overall) size 770mm long x 600mm wide x 2200mm high : one open height division: 350mm wide x 600mm deep x 1600mm high including 1 No 25mm diameter chromium plated hanging rail 900mm long with brass cup end fixing brackets: 2 equal top shelves size 385mm wide x 600mm deep x 300mm high: 4No. equal shelves size 400mm wide x 600mm deep x 280mm high: 2No drawers size 400mm wide x 485mm deep x 150mm high : 3No shoe racks size 800mm wide x 485mm deep x 100mm high.	No.	1		
E	Ditto (overall) size 775mm long x 600mm wide x 2500mm high: 5 equal shelves size 360mm wide x 600mm deep x 500mm high : 5 equal shelves size 355mm wide x 600mm deep x 500mm high: 2 top shelves size 360mm wide x 600mm deep x 230mm high, 355mm wide x 600mm deep x 230mm high.	No.	1		
F	Cabinerty unit (overall) size 2985mm long x 300mm wide x 2200mm high: 30 equal shelves size 250mm wide x 300mm deep x 375mm high : 10 equal shelves size 250mm wide x 300mm deep x 365mm high: 10 equal shelves size 250mm wide x 300mm deep x 375mm high	No.	2		
G	Ditto (overall) size 1100mm long x 610mm wide x 2150mm high: 10 equal shelves size 520mm wide x 610mm deep x 370mm high : 2 equal shelves size 520mm wide x 300mm deep x 160mm high.	No.	1		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount
A	Cabinerty unit (overall) size 3585mm long x 300mm wide x 2200mm high: 16 equal shelves size 580mm wide x 300mm deep x 370mm high : 4 equal shelves size 580mm wide x 300mm deep x 390mm high: 4 equal shelves size 580mm wide x 300mm deep x 210mm high: 4 equal shelves size 555mm wide x 300mm deep x 370mm high: 4 equal shelves size 300mm wide x 300mm deep x 370mm high: 4 equal shelves size 590mm wide x 300mm deep x 370mm high: 1 shelf size 590mm wide x 300mm deep x 390mm high: 1 shelf size 555mm wide x 300mm deep x 390mm high: 1 shelf size 300mm wide x 300mm deep x 390mm high: 1 shelf size 590mm wide x 300mm deep x 210mm high: 1 shelf size 555mm wide x 300mm deep x 210mm high: 1 shelf size 300mm wide x 300mm deep x 210mm high:	No.	1		
B	Ditto (overall) size 1195mm long x 300mm wide x 2200mm high: 5 equal shelves size 720mm wide x 300mm deep x 370mm high : 5 equal shelves size 420mm wide x 300mm deep x 370mm high: 1 shelf size 720mm wide x 300mm deep x 210mm high: 1 shelf size 420mm wide x 300mm deep x 210mm high.	No.	1		
C	Ditto (overall) size 2530mm long x 300mm wide x 2200mm high: 20 equal shelves size 480mm wide x 300mm deep x 370mm high : 5 equal shelves size 490mm wide x 300mm deep x 370mm high: 4 equal shelves size 480mm wide x 300mm deep x 210mm high: 1 shelf size 490mm wide x 300mm deep x 210mm high.	No.	1		
D	Ditto (overall) size 3880mm long x 300mm wide x 2200mm high: 20 equal shelves size 580mm wide x 300mm deep x 370mm high : 5 equal shelves size 570mm wide x 300mm deep x 370mm high: 5 equal shelves size 555mm wide x 300mm deep x 370mm high: 5 equal shelves size 300mm wide x 300mm deep x 370mm high: 4 equal shelves size 580mm wide x 300mm deep x 210mm high: 1 shelf size 570mm wide x 300mm deep x 210mm high: 1 shelf size 555mm wide x 300mm deep x 210mm high: 1 shelf size 300mm wide x 300mm deep x 210mm high.	No.	1		
E	Ditto (overall) size 3010mm long x 300mm wide x 2200mm high: 20 equal shelves size 580mm wide x 300mm deep x 370mm high : 5 equal shelves size 570mm wide x 300mm deep x 370mm high: 4 equal shelves size 580mm wide x 300mm deep x 210mm high: 1 shelf size 570mm wide x 300mm deep x 210mm high.	No.	1		
F	Ditto size 2040mm long x 300mm wide x 2200mm high: 10 equal shelves size 620mm wide x 300mm deep x 370mm high : 5 equal shelves size 720mm wide x 300mm deep x 370mm high: 2 equal shelves size 620mm wide x 300mm deep x 210mm high: 1 shelf size 720mm wide x 300mm deep x 210mm high.	No.	1		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount
A	Wardrobe unit (overall) size 1200mm long x 300mm wide x 2385mm high : one open height division: 570mm wide x 300mm deep x 1540mm high including 1 No 25mm diameter chromium plated hanging rail 900mm long with brass cup end fixing brackets: 2 equal top shelves size 570mm wide x 300mm deep x 395mm high: 2 equal shelves size 570mm wide x 300mm deep x 370mm high: 1No. shelf size 570mm wide x 300mm deep x 495mm high : 1No. shelf size 570mm wide x 300mm deep x 500mm high: 1No. shelf size 570mm wide x 300mm deep x 505mm high.	No.	1		
B	Skirtings 100 x 25mm MDF skirting to match wardrobes and cabinets.	m	31		
	Reception Desk				
	Built in counter unit ; comprising 50 x 50mm wrote camphor frames : 50 x 50mm sawn cypress bears battens plugged and screwed : Medium Density Fibre board doors, drawers, partitions: all exposed MDF surfaces to have approved thick polished mahogany finish : brass drawers lock, 100mm brass D-handle : prime back of frame before fixing prepare and apply three coats polyurethane clear finish to all exposed surfaces: All done in strict adherance to the Architect's drawings and Instructions.				
C	Counter unit (overall) size 3000mm long x 850mm wide x 1100mm high comprising: Two horizontal full lengths divisions: 3000mm long x 500mm wide; 3000mm long x 350mm wide: Two vertical full lengths divisions: 3000mm long x1100mm high; 3000mm long x 200mm high: Two equal vertical side panels division: 850mm long x1100mm high including 4 No. 20mm thick MDF drawers with 6mm plywood base size 380mm long x 500mm deep x 200mm high.	No.	1		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount
	JOINERY FITTINGS COLLECTION		Page No		Amount
	Total Brought Forward from Page No.				
	Carried to Summary				

Item	Description	Unit	Qty	Rate	Amount
	BUILDER'S WORK				
	FINAL SUMMARY		Page No.		Amount
1	WALLING & PARTITIONS				
3	WINDOWS				
2	DOORS				
4	INTERNAL FINISHES				
5	JOINERY FITTINGS				
	Total Carried to Main Summary				

PLUMBING, DRAINAGE & AC MECHANICAL VENTILATION

Item	Description	Unit	Qty	Rate	Amount
	BILL NO.4 **PLUMBING & DRAINAGE INSTALLATIONS** **SANITARY FIXTURES AND FITTINGS - LADIES WASHROOM** Shall be as the following sanitary fixtures and fittings including all the necessary accessories such as angle valves, flexible pipes, etc and jointings.				
1.0	**Water Closet** Floor mounted back to wall WC suite complete with pan and connector, soft-closing lacquered seat and cover, a P-trap horizontal outlet, magic connector. WC to be as Duravit white WC or equal and approved.	No.	2		
1.1	**Cistern** Concealed Cistern for Back to Wall WC as Geberit equal and approved.	No.	1		
2.0	**Flush Valve for WC** Concealed Delay Action WC Flush Valve as Tapis Item Code: DFLUVAL214 or equal and approved.	No.	2		
3.0	**Wash hand basin** Wash hand basin complete with waste chain and chrome plated bottle trap as per duravit D-code basin or equal and approved. Shall include all installation accessories.	No.	2		
4.0	**Basin Tap** Single lever basin tap made from brass and finished with a high quality chrome-plating, as per Tivoli Kevon Chrome Eco Stop Basin Mixer Ref: FRBW81CR8123 or equal and approved.	No.	2		
5.0	**Mirror** Mirror from plain bevelled glass plate size 600x2000mm, complete with dome shaped fixing to wall screws.	No.	1		
6.0	**Toilet Roll Holder** Chrome plated Toilet Roll Holder, as Gina Chrome Toilet Paper Holder With Cover Ref: EIACLK55811 or equal and approved	No.	2		
7.0	**Robe Hook** Chrome plated Coat Hook, as Gina Chrome Robe Hook Ref: EIACLK55804	No.	2		
8.0	**Hand Towel Ring** Chrome Plated Towel ring, as Gloria Chrome Towel Ring Ref. EIACLK55405	No.	1		
9.0	**Liquid Soap Dispenser** Wall mounted liquid soap dispenser, white in colour, capacity 1.136 litres complete with plastic rawl plugs, fixing screws, locks and key complete with initial fill of soap gel. The soap dispenser to be as " Zaplon's mark 7" size: 125x100x290 mm high or approved equivalent.	No.	1		
10.0	**Hand dryer** Automatic hand drier, operating on an infrared automatic sensing system with safety cut out complete with plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 2.1 Kw, performance flow rate of 135 cfm (3.82m³/min) and operate on 240 V/50 Hz, size: 270x264x143mm deep as "Wandsworth Bunnie" model HDZ or approved equivalent.	No	1		
11.0	**Hand Paper Towel Dispenser** • Surface mount, manual paper towel dispenser • Suitable for C/Z folded paper towels • Fit between 400 and 600 towels • Models s • Supplied with a lock and special key for opening shall be as mediclinis, item code: ZTWLDSP06, brand Ref: DT0106CS or approved equivalent.	No	1		
12.0	**Jumbo Toilet Paper Dispenser** • Wall-mounted circular toilet paper dispenser, manual dispensing • suitable for rolls of 275mm • Made of steel with white Epoxy finish shall be as mediclinis, item code: ZPAPDSP06 , brand Ref: PR2787 or approved equivalent	No	1		
	Total carried to summary page				

Item	Description	Unit	Qty	Rate	Amount
	SANITARY FIXTURES AND FITTINGS - GENTS WASHROOM Shall be as the following sanitary fixtures and fittings including all the necessary accessories such as angle valves, flexible pipes, etc and jointings.				
1.0	**Water Closet** Floor mounted back to wall WC suite complete with pan and connector, soft-closing lacquered seat and cover, a P-trap horizontal outlet, magic connector. WC to be as Duravit white WC or equal and approved.	No.	2		
2.0	**Flush Valve for WC** Concealed Delay Action WC Flush Valve as Tapis Item Code: DFLUVAL214 or equal and approved.	No.	2		
3.0	**Wash hand basin** Wash hand basin complete with waste chain and chrome plated bottle trap as per duravit D-code basin or equal and approved. Shall include all installation accessories.	No.	2		
4.0	**Basin Tap** Single lever basin tap made from brass and finished with a high quality chrome-plating, as per Tivoli Kevon Chrome Eco Stop Basin Mixer Ref: FRBW81CR8123 or equal and approved.	No.	2		
5.0	**Mirror** Mirror from plain bevelled glass plate size 600x2000mm, complete with dome shaped fixing to wall screws.	No.	1		
6.0	**Toilet Roll Holder** Chrome plated Toilet Roll Holder, as Gina Chrome Toilet Paper Holder With Cover Ref: EIACLK55811 or equal and approved	No.	2		
7.0	**Robe Hook** Chrome plated Coat Hook, as Gina Chrome Robe Hook Ref: EIACLK55804	No.	2		
8.0	**Hand Towel Ring** Chrome Plated Towel ring, as Gloria Chrome Towel Ring Ref. EIACLK55405	No.	1		
9.0	**Liquid Soap Dispenser** Manual liquid soap dispenser, white in colour, capacity 1.136 litres complete with plastic rawl plugs, fixing screws, locks and key complete with initial fill of soap gel. The soap dispenser to be as " Zaplon's mark 7" size: 125x100x290 mm high or approved equivalent.	No.	1		
10.0	**Hand dryer** Automatic hand drier, operating on an infrared automatic sensing system with safety cut out complete with plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 2.1 Kw, performance flow rate of 135 cfm (3.82m³/min) and operate on 240 V/50 Hz, size: 270x264x143mm deep as "Wandsworth Bunnie" model HDZ or approved equivalent.	No	1		
11.0	**Hand Paper Towel Dispenser** • Surface mount, manual paper towel dispenser • Suitable for C/Z folded paper towels • Fit between 400 and 600 towels • Models s • Supplied with a lock and special key for opening shall be as mediclinis, item code: ZTWLDSP06, brand Ref: DT0106CS or approved equivalent	No	1		
12.0	**Jumbo Toilet Paper Dispenser** • Wall-mounted circular toilet paper dispenser, manual dispensing • suitable for rolls of 275mm • Made of steel with white Epoxy finish shall be as mediclinis, item code: ZPAPDSP06 , brand Ref: PR2787 or approved equivalent	No	1		
13.0	**Bowl Urinal** White urinal bowl with concealed inlet, as duravit D-Code, item code: BWHDRDCO19	No.	2		
14.0	**Urinal Divider** Ceramiv urinal divider supplied with fixings as duravit, Item Code: BWHDRSTA46 or equ	No.	2		
15.0	**Flush Valve for Urinal** Infra-red electronic urinal flush valve, AC & DC as Tapis; #MC-8512 Item Code: DFLUVAL142 or equal and approved.	No.	2		
	Total carried to summary page				

Item	Description	Unit	Qty	Rate	Amount
	SANITARY FIXTURES AND FITTINGS - CHAIR'S WASHROOM Shall be as the following sanitary fixtures and fittings including all the necessary accessories such as angle valves, flexible pipes, etc and jointings.				
1.0	**Water Closet** Floor mounted back to wall WC suite complete with pan and connector, soft-closing lacquered seat and cover, a P-trap horizontal outlet, magic connector. WC to be as Duravit white WC or equal and approved.	No.	1		
2.0	**Flush Valve for WC** Concealed Delay Action WC Flush Valve as Tapis Item Code: DFLUVAL214 or equal and approved.	No.	1		
3.0	**Wash hand basin** Wash hand basin complete with waste chain and chrome plated bottle trap as per duravit D-code basin or equal and approved. Shall include all installation accessories.	No.	1		
4.0	**Basin Tap** Single lever basin tap made from brass and finished with a high quality chrome-plating, as per Tivoli Kevon Chrome Eco Stop Basin Mixer Ref: FRBW81CR8123 or equal and approved.	No.	1		
5.0	**Mirror** Mirror from plain bevelled glass plate size 600x450mm, complete with dome shaped fixing to wall screws.	No.	1		
6.0	**Toilet Roll Holder** Chrome plated Toilet Roll Holder, as Gina Chrome Toilet Paper Holder With Cover Ref: EIACLK55811 or equal and approved	No.	1		
7.0	**Robe Hook** Chrome plated Coat Hook, as Gina Chrome Robe Hook Ref: EIACLK55804	No.	1		
8.0	**Hand Towel Ring** Chrome Plated Towel ring, as Gloria Chrome Towel Ring Ref. EIACLK55405	No.	1		
9.0	**Liquid Soap Dispenser** Automatic liquid soap dispenser, white in colour, capacity 1.136 litres complete with plastic rawl plugs, fixing screws, locks and key complete with initial fill of soap gel. The soap dispenser to be as " Zaplon's mark 7" size: 125x100x290 mm high or approved equivalent.	No.	1		
10.0	**Hand dryer** Automatic hand drier, operating on an infrared automatic sensing system with safety cut out complete with plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 2.1 Kw, performance flow rate of 135 cfm (3.82m³/min) and operate on 240 V/50 Hz, size: 270x264x143mm deep as "Wandsworth Bunnie" model HDZ or approved equivalent.	No	1		
11.0	**Hand Paper Towel Dispenser** • Surface mount, manual paper towel dispenser • Suitable for C/Z folded paper towels • Fit between 400 and 600 towels • Models s • Supplied with a lock and special key for opening shall be as mediclinis, item code: ZTWLDSP06, brand Ref: DT0106CS or approved equivalent	No	1		
	Total carried to summary page				

Item	Description	Unit	Qty	Rate	Amount
	SANITARY FIXTURES AND FITTINGS - ASSISTED TOILET Shall be as the following sanitary fixtures and fittings including all the necessary accessories such as angle valves, flexible pipes, etc and jointings.				
1.0	**Water Closet** Floor mounted back to wall WC suite complete with pan and connector, soft-closing lacquered seat and cover, a P-trap horizontal outlet, magic connector. WC to be as Duravit white WC or equal and approved.	No.	1		
2.0	**Flush Valve for WC** Concealed Delay Action WC Flush Valve as Tapis Item Code: DFLUVAL214 or equal and approved.	No.	1		
3.0	**Wash hand basin** Wash hand basin complete with waste chain and chrome plated bottle trap as per duravit D-code basin or equal and approved. Shall include all installation accessories.	No.	1		
4.0	**Basin Tap** Single lever basin tap made from brass and finished with a high quality chrome-plating, as per Tivoli Kevon Chrome Eco Stop Basin Mixer Ref: FRBW81CR8123 or equal and approved.	No.	1		
5.0	**Mirror** Mirror from plain bevelled glass plate size 600x450mm, complete with dome shaped fixing to wall screws.	No.	1		
6.0	**Toilet Roll Holder** Chrome plated Toilet Roll Holder, as Gina Chrome Toilet Paper Holder With Cover Ref: EIACLK55811 or equal and approved	No.	1		
7.0	**Robe Hook** Chrome plated Coat Hook, as Gina Chrome Robe Hook Ref: EIACLK55804	No.	1		
8.0	**Hand Towel Ring** Chrome Plated Towel ring, as Gloria Chrome Towel Ring Ref. EIACLK55405	No.	1		
9.0	**Liquid Soap Dispenser** Manual liquid soap dispenser, white in colour, capacity 1.136 litres complete with plastic rawl plugs, fixing screws, locks and key complete with initial fill of soap gel. The soap dispenser to be as " Zaplon's mark 7" size: 125x100x290 mm high or approved equivalent.	No.	1		
10.0	**Hand dryer** Automatic hand drier, operating on an infrared automatic sensing system with safety cut out complete with plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 2.1 Kw, performance flow rate of 135 cfm (3.82m³/min) and operate on 240 V/50 Hz, size: 270x264x143mm deep as "Wandsworth Bunnie" model HDZ or approved equivalent.	No	1		
11.0	**Hand Paper Towel Dispenser** • Surface mount, manual paper towel dispenser • Suitable for C/Z folded paper towels • Fit between 400 and 600 towels • Models s • Supplied with a lock and special key for opening shall be as mediclinis, item code: ZTWLDSP06, brand Ref: DT0106CS or approved equivalent	No	1		
12.0	**Grab Bars** 2No. horizontal grab bars, 2No. vertical fixed grab bars, 1No. vertical swing type grab bar. Shall be stainless steel finish or approved equivalent	Set	1		
	Total carried to summary page				

Item	Description	Unit	Qty	Rate	Amount
	PLUMBING FIXTURES AND FITTINGS - KITCHEN, LACTATION & CLEANER'S ROOM				
	Shall be as the following plumbing fixtures and fittings including all the necessary accessories such as angle valves, flexible pipes, etc and jointings.				
1.0	**Kitchen Sink**				
1.1	Single bowl single drain sink with Stainless Steel waste, Stainless steel bottle trap and rubber stopper as per ROCA Beverly 130. or approved equivalent.	No.	1		
1.2	**Sink Tap**				
	Swan-neck, swivel type sink tap with single lever as hansgrohe or approved equivalent	No.	1		
2.0	**Lactation Room**				
2.1	**Sink**				
	Single bowl single drain sink with Stainless Steel waste, Stainless steel bottle trap and rubber stopper as per ROCA Beverly 130. or approved equivalent.	No.	1		
2.2	**Sink Tap**				
	Swan-neck, swivel type sink tap with single lever as hansgrohe or approved equivalent	No.	1		
2.3	**Mirror**				
	Mirror from plain bevelled glass plate size 900x600mm, complete with dome shaped fixing to wall screws.	No.	1		
3.0	**Cleaner's Sink**				
3.1	BRITEX Stainless Steel Cleaner's Sink 46 litre tub, extra-large grade 304 stainless steel and robust stainless steel hinged grate for support and storage of buckets. Or equal and approved.	No.	1		
3.2	**Sink Tap**				
	Stainless steel, long spout pillar tap or equal and approved.	No.	1		
4.0	**Hand Sanitizer Dispenser**				
	Our automatic hand sanitiser spray dispensers as mediclinics or approved equivalent.	No.	1		
	Total carried to summary page				

Item	Description	Unit	Qty	Rate	Amount
	PLUMBING & DRAINAGE PIPEWORK Shall include cold water polypropylene PP-R pipes and fittings to relevant B.S DIN and local standards. Tenderers must allow in their pipework prices for all the couplings, unions, connectors, joints, bypass bends, loop expansion bends, reducers etc. in running lengths of pipes. Jointing & installation methods shall be as per manufacturers' recommendations only. All pipe diameters are internal diameters. Polypropylene pipes as ARIETE® – 25 manufactured by EFFEGISRL has been used as a guide to the type and quality expected. Equal and approved brands shall be accepted only with approval. Prices to allow for all couplings, sockets, connectors, reducers, holding brackets expansion joints as required in the running lengths of pipes, all necessary fittings and accessories for successful installation and proper functioning of the system. **SPECIAL NOTES:** Tenderers are to visit the site to familiarize themselves with the site and understand the scope of works before bidding. The tenderers are advised to carefully take note of the existing installations so as to make sure they provide similar replacement as necessary. By inserting prices in this BQs, it will be assumed that the tenderer has fully understood the works. The tenderer shall supply, deliver, install, test and commission cold water supply pipes, uPVC/PVC piping c/w all joints and connection fittings necessary for proper functioning of the system.				
1.0	**Internal Cold Water Pipework**				
1.1	Allow for cold water connection pipework to the plumbing fixtures and fittings to appro	Sum	1		
1.2	**Hacking and Cutting** Expose the relevant water supply pipe and do proper connection. Carry out pressure test at atleast 5bar for 24 hours period and ensure no further leaks. Make good the walls, tiles and any other area of the building that might be damaged by the contractor during execution of the works.	Sum	1		
2.0	**Internal Foul Water Pipework Installations**				
2.1	Allow for cold water connection pipework to the plumbing fixtures and fittings to appro	Sum	1		
2.2	**Hacking and Cutting** Expose the relevant drainage pipe, do a proper connection. Carry out tests to certify there is no leaks. Make good any part of the building that might be damaged by the contractor during execution of the works.	Sum	1		
				Total carried to summary page	

Item	Description	Unit	Qty	Rate	Amount
	PLUMBING & DRAINAGE INSTALLATIONS				
	SUMMARY				
			Page No.		
	Total Brought Forward From:				
A	Ladies Washroom Sanitary Fixtures & Fittings				
B	Gents Washroom Sanitary Fixtures & Fittings				
C	Chair's Washroom Sanitary Fixtures & Fittings				
D	Assisted Toilet Sanitary Fixtures & Fittings				
E	Kitchen Lactation & Cleaner's Room Fixtures & Fittings				
F	PLUMBING & DRAINAGE PIPEWORK				
	TOTAL (INCL. VAT)				

Item	Description	Unit	Qty	Rate	Amount
	BILL NO.5 **AIR CONDITIONING AND MECHANICAL VENTILATION** Supply, deliver, install test and commission. **AIR CONDITIONING - BOARD ROOM & CHAIR'S OFFICE** **VRF System** VRF system complete with outdoor & indoor units, refrigerant piping system and condensate piping, remote controls, all accessories & electrics. Installation shall have BMS control & monitoring and IoT capability.				
1.0	**Indoor Units**				
1.1	**Ducted Indoor Unit** Concealed ducted indoor unit with cooling Capacity 18kBtu/hr as Bosch Or equal and approved.	No.	5		
2.0	**Outdoor Unit**				
	VRF ODU as Bosch, Total cooling capacity: 90kBtu/hr, Or equal and approved	No.	1		
3.0	**Refrigerant & Condensate Piping** Allow for refrigerant pipe system. The refrigerant pipes shall be copper tubing complete with all fittings such as Y-branches, connections through flared nuts and male threaded piece without need for brazing, etc and shall be insulated as necessary. Condensate drain pipes shall be PVC or equal and approved.				
3.1	Cold high pressure liquid refrigerant pipe (for cooling), 25mm	m	30		
3.2	Hot low pressure gas suction line (for return to outdoor unit), 25mm	m	30		
3.3	Y-branches	No	4		
3.4	32mm Condensate pipe	m	20		
4.0	**Electrical works** Allow for voltage surge protection, electrical cabling & connections and all electrical works	Sum	1		
5.0	**Initial Refrigerant fill** Allow for initial fill with ozone friendly refrigerant as R410A or approved equivalent. Tenderer should note that the price indicated here shall cater for all air conditioners in this contract.	Item	1		
6.0	**Control Sytem** Allow for control modules/devices and associated accessories for operation of the system. Shall include wired and wireless remote control units.	Item	1		
7.0	**Ductwork** Galvanised mild steel (GMS) duct work 1.6 mm thick (gauge 16, SWG) complete with all the fittings such as bends, transformation pieces, flexible connection, plenum, insulation, etc for proper functioning of the system.	sq.m	10		
8.0	**Supply Air Diffuser** Supply air slot diffuser, 1200x100mm	No	5		
9.0	**Return Air Grille** Return air slot grille, 1000x100mm	No	5		
Total Carried to Summary Page					

Item	Description	Unit	Qty	Rate	Amount
	Supply, deliver, install test and commission.				
	SERVER ROOM AC				
1.0	**Split AC System**				
	Split system complete with outdoor & indoor units, EER W/W of 3.15, cold and hot pipes for refrigerant system, condensate piping, remote controls, all accessories & electrics. The system is to perform mainly cooling functions. The installation shall have capability of BMS control & monitoring and IoT.				
1.1	**High Wall Indoor Unit**				
	High wall indoor unit with Cooling Capacity 18kBtu/hr as Bosch or equal and approved.	No.	2		
1.2	**Outdoor Unit**				
	Split inverter ODU as Bosch, cooling capacity: 18kBtu/hr, Or equal and approved	No.	2		
2.0	**Refrigerant & Condensate Piping**				
	Allow for refrigerant pipe system both hot and cold pipes. The refrigerant pipes shall be copper tubing complete with all fittings such as branches, bends, connections through flared nuts and male threaded piece without need for brazing, etcand shall be insulated as necessary. Rate to include fixing brackets,holder bats etc. Condensate drain pipes shall be PVC or equal and approved.				
2.1	Cold liquid refrigerant line for cooling, 20mm	m	20		
2.2	Hot gas line for return to outdoor unit, 20mm	m	20		
2.3	32mm Condensate pipe	m	20		
3.0	**Initial Refrigerant fill**				
	Allow for initial fill with ozone friendly refrigerant as R410A or approved equivalent.	Item	1		
4.0	**Control Sytem**				
	Allow for control modules/devices and associated accessories for operation of the system. Shall include wired and wireless remote control units.	Item	1		
5.0	**Electrical works**				
	Allow for voltage surge protection, electrical cabling & connections and all electrical works.	Item	1		
6.0	Kitchen Range Hood				
	Wall mount ductless stainless steel range hood with capacity of 680m3/hr. Size: 900x500x130 (LxWxH), c/w both aluminium and charcoal filters for recirculation, Power:360W, twin blowers, pressure 250Pa, 2No LED lights, control button with 3No speeds and noise level of 54dB as Bosch 500 series Under-cabinet Slim Hood Ref: DUH30252UC or equal and approved. Installation to be complete with voltage regulator for protection against power surge.	No	1		
7.0	**Electrical works**				
	Allow for voltage surge protection, control devices, fittings, accessories, electrical cabling & connections, and all electrical works in general.	Item	1		
	GENERAL ITEMS				
8.0	**Anchorage and Brackets**				
	Allow for anchorage of pipes, AC units and range hood	Sum	1		
9.0	**Testing & Commissioning**				
	Allow for testing and commissioning of the entire AC and kitchen extraction installations to approval.	Item	1		
	Total Carried to Summary Page				

Item	Description	Unit	Qty	Rate	Amount
	AIR CONDITIONING AND MECHANICAL VENTILATION				
	SUMMARY				
	Total brought forward from:		Page No.		
1	Board Room & Chair's Office Air Conditioning Installations				
2	Server Room AC & Kitchen Range Hood				
	Total (INCL. VAT)				

ELECTRICAL, SECURITY SYSTEMS, STRUCTURED CABLING & P.A SYSTEMS

Item	Description	Qty	Unit	Rate	Amount
	BILL NO.6 **ELECTRICAL SERVICES** **PRELIMINARIES/GENERAL ITEMS**				
a	Allow for the preparation of all Working Drawings	1	Sum		
b	Allow for the preparation of all "As Built" Drawings	1	Sum		
c	Allow for liaison and attendance to Power Company in power application, and meter separation and installation of new 3phase meter.	1	Sum		
d	Allow for provision of manuals	1	Sum		
e	Any other necessary item(s) not included under the preliminaries				
	Total carried forward to price summary page				

Item	Description	Qty	Unit	Rate	Amount
	LIGHTING				
	Final sub-circuits from distribution board in a cable and conduit/channel installation comprising concealed heavy gauge 20mm2 PVC conduit, 1.5 mm2 PVC insulated copper cables, 1.5 mm2 copper earthing cable including all accessories and fittings.				
	Supply, install, test and commsission,				
a	Lighting point 1 way	140	No.		
b	10 Amp one gang one way switch as MK	40	No.		
c	10 Amp one gang two way switch as MK	15	No.		
	LIGHTING FITTINGS				
d	Type **4C**, 18WX2, 1200mm length Surface mounted Fluorescent, 65°-1500cd/m² mirror finish injection moulded louvre/microprism panel optic, as Eaton's Vertex range, or engineer's approved equivalent.	6	No.		
e	EXIT signage lights	4	No.		
f	**Type '6'** 600x600mm, super efficient recessed LED modular luminaire with curved diffuser as V3 luminaires catalogue's "LYTEPANEL LED RECESSED 600 x 600mm 4K" or an approved equivalent.	60	No.		
g	**Type '3'** 100x100mm, super efficient recessed LED modular luminaire with curved diffuser as V3 luminaires catalogue's "LYTEPANEL LED RECESSED 150 x 150mm 4K" or an approved equivalent.	70	No.		
h	**Type '5'** 600x600mm, super efficient recessed LED modular luminaire with curved diffuser as V3 luminaires with louvres or an approved equivalent.	6	No.		
	Total carried forward to price next page				

Item	Description	Qty	Unit	Rate	Amount
	Supply, install, test and commission,				
	POWER OUTLET POINTS				
a	13A twin socket outlet point wired in 3X2.5mm2 PVC Copper cable in ring main	105	No.		
b	20 Amp double pole outlet point wired in 3x4.0mm2 PVC Copper	7	No.		
c	Outlet point for 32A DP cooker control unit comprising concealed 25mm dia conduit, 3x6.0mm2 PVC cables and all accessories	1	No.		
d	Unswitched spur outlet point unit wired in 3X4mm2 PVC Copper cable	1	No.		
e	Outlet point for undersink heater wired in 3x4.0mm2 PVC cables	1	No.		
	POWER ACCESSORIES				
f	13A twin switched socket outlets as MK or an approved equivalent	105	No.		
g	20A DP switch outlet with neon light as MK or an approved equivalent	7	No.		
h	32A DP cooker control unit with integral 13A switched socket outlet and neon lights	1	No.		
i	Cooker connector unit	1	No.		
j	250x250mm adaptable boxes	3	No.		
	Total carried forward to price next page				

Item	Description	Qty	Unit	Rate	Amount
	Supply, install, test and commsission,				
	SUBMAINS				
	600/1000 volt grade multi core PVC insulated copper armoured cable to BS 6346, including concealed heavy gauge PVC conduit, accessories and fittings				
a	4-Core 25mm^2 PVC/SWA/PVC cable from main KPLC Meter to Consumer Unit	20	LM		
	OTHER POINTS				
b	TV points, CCTV points, data outlet points, telephone outlet points, WAP comprising concealed HG PVC conduits, square PVC box and draw wire	70	No.		
	DISTRIBUTION BOARDS				
c	12 way DB as Merlin Gerin or approved equivalent complete with 125A TPN integral isolator for flush mounting complete with: 125A MCCB Incomer Single pole MCB units as: 10A, 20A, 32A, Blanking Plates	1	No.		
i	Carry out concise permanent labeling for all the sub-circuits above	10	No.		
ii	40mm Ø H/G PVC Conduits concealed in the slab for power supply cables	50	LM		
d	Three compartment powder coated 250mmx 25mm Metallic Trunking	320	LM		
	Total carried forward to price summary page				

Item	Description	Qty	Unit	Rate	Amount
	ELECTRICAL SERVICES SUMMARY				
	Total brought forward from:		Page No.		
1	Preliminaries				
2	Lighting Collection				
3	Power Outlets & Accessories Collection				
4	Submains, Other Points & Distribution Collection				
5	CLEAN POWER (PC SUM)				450,000
	Sub Total inclusive of VAT				450,000
	TOTAL CARRIED TO SUMMARY				

Item	Description	Qty	Unit	Rate	Amount
	BILL NO.7 **SECURITY SYSTEMS CCTV** **SUPPLY, DELIVER, INSTALL SET TO WORK AND COMMISSION THE FOLLOWING:-**				
a	Day and night fixed Dome camera C/W Auto iris vorifocal lens for external use as HIK Vision or approved equivalent	6	No.		
b	8 channels Full D1 Real Time Network Recorder C/W 8TB memory complete with computer work station (specify model) with 23" LED display	1	No.		
c	CAT 6 4-pair SFTP cable for camera connections as SIEMON or approved equivalent	1	ROLL		
d	Connectors, Mountings and Termination consumables	1	Lot		
e	Power cables and connectors	1	Lot		
f	Any other items necessary to complete the system installation satisfactorily. (List, give quantities and price of the items) a)..... b)..... c).....		Lot		
	Total for Bill Carried Forward to Price summary Page				

Item	Description	Qty	Unit	Rate	Amount
	SECURITY SYSTEMS CCTV				
	SUMMARY				
	Total brought forward from:		Page No.		
1	CCTV INSTALLATION				
	TOTAL CARRIED TO SUMMARY				

Item	Description	Qty	Unit	Rate	Amount
	BILL NO.8 STRUCTURED CABLING				
	SUPPLY, DELIVER, INSTALL, TEST, & COMMISSION THE FOLLOWING.				
	HORIZONTAL CABLING				
A	CAT 6 4-pair SFTP cable for Data/Telephone outlets as SIEMON or approved equivalent	2,000	Lm		
B	Single RJ45 Cat 6 outlets for voice / Data complete with faceplate and labeling as SIEMON or approved equivalent	60	No.		
C	24 port CAT 6 Data Modular Patch Panel for 4-Pair UTP termination as SIEMON or approved equivalent	3	No.		
D	1M Factory terminated Cat 6 4 pair-SFTP RJ 45- RJ 45 patch cords to be used inside cabinet as SIEMON or approved equivalent **(includes 15No Spares)**	3	No.		
E	3M Factory terminated Cat 6 4 pair-SFTP RJ 45- RJ 45 patch cords for data outlets as SIEMON or approved equivalent**(includes 5No Spares)**	55	No.		
F	2U Cable managers/organisers as SIEMON or approved equivalent	2	No.		
	Supply, test and commission the following items				
	CABINETS				
I	42U Server rack cabinet, black complete with mounting angles and rails in Server Room as described in the particular specification of this tender document	1	No.		
	Total carried forward to price next page				

Item	Description	Qty	Unit	Rate	Amount
	SERVER				
J	24 port Core network switch (State make, model number etc) for routing data c/w power supply unit Cisco 3400 or Equivalent	3	No.		
K	Router as Cisco or equal and approved equivalent (State make, model number etc) Cisco SG 200-50P	1	No.		
	WIRELESS ACCESS POINTS				
L	TP Link Wireless Access point or approved equivlent	7	No.		
M	Equipment installation, termination and programming and any othe accessories.	1	No.		
	Total carried forward to price next page				

Item	Description	Qty	Unit	Rate	Amount
	STRUCTURED CABLING				
	SUMMARY				
	Total brought forward from:		Page No.		
1	Horizontal Cabling & Cabinets Collection				
2	Server & Wireless Access Points Collection				
	TOTAL CARRIED TO SUMMARY				

Item	Description	Qty	Unit	Rate	Amount
	BILL NO. 9 **PUBLIC ADDRESS SYSTEM**				
	SUPPLY, DELIVER, INSTALL, TEST, & COMMISSION THE FOLLOWING.				
A	Speaker points wired in 245 Ohms PVC insulated speaker copper cables drawn in already installed conduits by others with all accessories but excluding Speakers	4	No.		
	AUDIO EQUIPMENT				
B	Wharfedale Amplifier CPD 1000	1	No.		
C	SHURE wireless microphones c/w all accessories	2	Pair		
D	YAMAHA 8 channel Mixer	1	No.		
E	SHURE gooseneck microphone	14	No.		
F	Central processign unit	1	No.		
G	Conference Management System software to support 6 complete with all modules, attendant work station including digital recording software	1	No.		
H	Ceiling Speakers 8" 70/100v 6/10/15/20/30 Watts as Mitsuba or approved equivalent	4	No.		
I	Labour, cabling, fabrication, installation , testing and commisioning system	1	LOT		
	Total carried forward to summary page				

	PUBLIC ADDRESS SYSTEM SUMMARY Total brought forward from:		Page No.		
1	PUBLIC ADDRESS SYSTEM				
	TOTAL CARRIED TO SUMMARY				

P.C & PROVISIONAL SUMS

Item	Description	Unit	Qty	Rate	Amount
	PC & PROVISIONAL SUMS BILL NO. 10 PROVISIONAL SUMS The following Provisional Sums to be expended through Architect's instructions and to be measured on completion and priced in accordance with the rates contained in these Bills of Quantities or Pro-rata thereto or deducted in whole if not required (Note:- Figures herein are inclusive of applicable VAT) Provide the Provisional Sums for Decorative Elements				
C	Allow a Provisional Sum amounting to 100,000 to be expended only as per the Architect's Instructions for supply and Installation of decorative features to the boardroom and Chair's office from approved nominated supplier	SUM			100,000
D	Allow a Provisional Sum amounting to 290,000 for Project Approvals from County Government & Statutory Bodies	SUM			290,000
	Total Carried to Main Summary				390,000

ALTERATIONS TO 5TH & 6TH FLOORS

Item	Description	Unit	Qty	Rate	Amount
	PROPOSED DEMOLITIONS AND ALTERATIONS TO EXISTING OFFICES AT 5TH AND 6TH FLOORS UKULIMA BUILDING, NAIROBI COUNTY				
	BILL NO. 1 **ELEMENT NO 1** **DEMOLITIONS (PROVISIONAL)**				
A	Carefully demolish existing 12mm thick Gypsum board to walling including all necessary galvanized steel channel brandering to Gypsum board partitions 2600mm high and cart away debris arising therefrom and make good disturbed surfaces.	m^2	66.00		
B	Ditto to CEOs Office	m^2	67.00		
C	Carefully remove existing timber door with frame including ironmongery and set aside for Client re-use as directed for overall size 1200 x 2150mm high	No	2.00		
D	Ditto 900 x 2100mm high	No	5.00		
E	Carefully remove existing 600 x 1800mm high timber framed windows fixed with 5mm thick obscure sheet panel glazing; Louvre Window Carriers with Louvres for 100 mm blades per set of blade with handle and cart away debris arising therefrom and make good disturbed surfaces.	No	9.00		
	Carried to Summary				

Item	Description	Unit	Qty	Rate	Amount
	PROPOSED DEMOLITIONS AND ALTERATIONS TO EXISTING OFFICES AT 5TH AND 6TH FLOORS UKULIMA BUILDING, NAIROBI COUNTY				
	BILL NO.2 BUILDER'S WORK				
	ELEMENT NO 1 WALLING & PARTITIONS				
	INTERNAL PARTITIONS				
	Dry Walling				
A	Supply & fix 12 mm gypsum board on 150mm steel studwork as Donn Ultrasteel with 25mm blockboard on both sides rockwool infill with steel framing all round complete with metal edge floor and ceiling trims in accordance with Architect's Details and manufacturer's printed instructions.	m^2	63.00		
B	Ditto to CEOs Office	m^2	62.00		
	Prepare & apply 3 coats (roller painted) first quality matt emulsion paint or equal and approved				
C	To gypsum surface	m^2	250		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount
	PROPOSED DEMOLITIONS AND ALTERATIONS TO EXISTING OFFICES AT 5TH AND 6TH FLOORS UKULIMA BUILDING, NAIROBI COUNTY				
	ELEMENT NO 2 DOORS				
	TIMBER DOORS Take set aside doors including ironmongery and re-use				
	Wrot hardwood timber : Solid core Panel mahogany door to details :				
A	45mm thick door overall size 1200 x 2100 mm high.	No.	2		
B	Ditto 900 x 2100mm high.	No.	5		
	Wrot mahogany treated as described;				
C	150 x 50mm Frame : four labours : screwed and pellated	m	11		
D	50 x 25mm Architrave : two labours	m	11		
E	25mm Quadrant beading	m	11		
	Prepare and prime before fixing: on woodwork				
F	Frames ; over 100 but not exceeding 200mm girth	m	11		
	Prepare and apply three coats polyurethane clear varnish : on wood work				
G	General surfaces : doors	m^2	18		
H	Frames : over 200 but not exceeding 300mm girth	m	11		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount
	PROPOSED DEMOLITIONS AND ALTERATIONS TO EXISTING OFFICES AT 5TH AND 6TH FLOORS UKULIMA BUILDING, NAIROBI COUNTY BUILDER'S WORK COLLECTION		Page No.		Amount
1	WALLING & PARTITIONS		3/1		
2	DOORS		3/5		
	Carried to Summary				

Item	Description	Unit	Qty	Rate	Amount
	PROPOSED DEMOLITIONS AND ALTERATIONS TO EXISTING OFFICES AT 5TH AND 6TH FLOORS UKULIMA BUILDING, NAIROBI COUNTY				
	Supply, deliver, install, test and commission.				
	AIR CONDITIONING - BOARD ROOM & CHAIR'S OFFICE - 5TH FLR				
	VRF System VRF system complete with outdoor & indoor units, refrigerant piping system and condensate piping, remote controls, all accessories & electrics. Installation shall have BMS control & monitoring and IoT capability.				
1.0	**Highwall Indoor Units**				
1.1	**For Boardroom**				
	High wall indoor unit with cooling Capacity 24kBtu/hr as Bosch Or equal and approved.	No.	2		
1.1	**For Chair's Office** High wall indoor unit with cooling Capacity 24kBtu/hr as Bosch Or equal and approved.	No.	1		
2.0	**VRF Outdoor Unit** VRF ODU, total cooling capacity: 72kBtu/hr, as Bosch Or equal and	No.	1		
3.0	**Refrigerant & Condensate Piping** Allow for refrigerant pipe system. The refrigerant pipes shall be copper tubing complete with all fittings such as Y-branches, connections through flared nuts and male threaded piece without need for brazing, etc and shall be insulated as necessary. Condensate drain pipes shall be PVC or equal and approved.				
3.1	Cold high pressure liquid refrigerant pipe (for cooling), 25mm	m	30		
3.2	Hot low pressure gas suction line (for return to outdoor unit), 25mm	m	30		
3.3	Y-branches	No	2		
3.4	32mm Condensate pipe	m	20		
4.0	**Electrical works** Allow for voltage surge protection, electrical cabling & connections and all	Sum	1		
5.0	**Initial Refrigerant fill** Allow for initial fill with ozone friendly refrigerant as R410A or approved equivalent. Tenderer should note that the price indicated here shall cater for all air conditioners in this contract.	Item	1		
6.0	**Control Sytem** Allow for control modules/devices and associated accessories for operation of the system. Shall include wired and wireless remote control units.	Item	1		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount
	PROPOSED DEMOLITIONS AND ALTERATIONS TO EXISTING OFFICES AT 5TH AND 6TH FLOORS UKULIMA BUILDING, NAIROBI COUNTY				
	Supply, deliver, install test and commission.				
	Split AC System				
1.0	**CEO'S OFFICE AC - 6TH FLR** Split system complete with outdoor & indoor units, EER W/W of 3.15, cold and hot pipes for refrigerant system, condensate piping, remote controls, all accessories & electrics. The system is to perform mainly cooling functions. The installation shall have capability of BMS control & monitoring and IoT.				
1.1	**High Wall Indoor Unit** High wall indoor unit with Cooling Capacity of 24kBtu/hr as Bosch or equal	No.	1		
1.2	**Outdoor Unit** Split inverter ODU as Bosch, cooling capacity of 24kBtu/hr, Or equal and approved	No.	1		
2.0	**Refrigerant & Condensate Piping** Allow for refrigerant pipe system both hot and cold pipes. The refrigerant pipes shall be copper tubing complete with all fittings such as branches, bends, connections through flared nuts and male threaded piece without need for brazing, etcand shall be insulated as necessary. Rate to include fixing brackets,holder bats etc. Condensate drain pipes shall be PVC or equal and approved.				
2.1	Cold liquid refrigerant line for cooling, 20mm	m	10		
2.2	Hot gas line for return to outdoor unit, 20mm	m	10		
2.3	32mm Condensate pipe	m	10		
3.0	**Initial Refrigerant fill** Allow for initial fill with ozone friendly refrigerant as R410A or approved	Item	1		
4.0	**Control Sytem** Allow for control modules/devices and associated accessories for operation of the system. Shall include wired and wireless remote control units as applicable.	Item	1		
5.0	**Electrical works** Allow for voltage surge protection, electrical cabling & connections and all electrical works.	Item	1		
	GENERAL ITEMS				
6.0	**Anchorage and Brackets** Allow for anchorage of pipes, ducts, AC units and range hood	Sum	1		
7.0	**Testing & Commissioning** Allow for testing and commissioning of the entire AC installations to approval.	Item	1		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount
	PROPOSED DEMOLITIONS AND ALTERATIONS TO EXISTING OFFICES AT 5TH AND 6TH FLOORS UKULIMA BUILDING, NAIROBI COUNTY				
	SUMMARY 5TH FLOOR AIR CONDITIONING Total brought forward from:				
1	5th Floor Board Room & Chair's Office Air Conditioning Installations				
2	6th Floor CEO's Office & General				
	Carried to Summary				

Item	Description	Unit	Qty	Rate	Amount
	PROPOSED DEMOLITIONS AND ALTERATIONS TO EXISTING OFFICES AT 5TH AND 6TH FLOORS UKULIMA BUILDING, NAIROBI COUNTY				
	FINAL SUMMARY		Page No.		
1	DEMOLITIONS (PROVISIONAL)				
2	BUILDER'S WORK				
3	5TH & 6TH FLOOR AIR CONDITIONING				
	Carried to Main Summary				

MAIN SUMMARY

PROPOSED PARTITIONING AND INTERIOR FIT OUT OF 7TH FLOOR AND ALTERATIONS TO 5TH AND 6TH FLOORS UKULIMA COOPERATIVE BUILDING.

NG-CDF BOARD

MAIN SUMMARY

Bill No.	Description	Page No.	Amount (Ksh)
1	GENERAL AND PARTICULAR PRELIMINARIES	1/1	
2	DEMOLITIONS (PROVISIONAL)	2/3	
3	BUILDER'S WORK	3/16	
4	PLUMBING, DRAINAGE & AIR CONDITIONING INSTALLATIONS	5/11	
5	ELECTRICAL INSTALLATION	6/5	
6	SECURITY SYSTEMS CCTV INSTALLATIONS	7/2	
7	STRUCTURED CABLING	8/2	
8	PUBLIC ADDRESS SYSTEM INSTALLATION	9/2	
9	PC & PROVISIONAL SUMS	10/1	390,000.00
10	ALTERATIONS TO 5TH AND 6TH FLOOR	11/9	
11	CONTINGENCY SUM		500,000.00
	TOTAL TENDER SUM TO FORM OF TENDER		
	AMOUNT IN WORDS		
	(Amount inclusive of 16% VAT and withholding Tax)		
	Contractors Signature & Official Rubber Stamp		
	Date		
	Name & Signature of Witness		
	Address of Witness		
	Date		

DRAWINGS LIST
7TH FLOOR PARTITIONING AND INTERIOR FIT OUT
ARCHITECTURAL

L_01. DEMOLITION PLAN; 01

L_02. UKULIMA 7TH FLOOR, LAYOUT PLAN; 02

L_03. UKULIMA 7TH FLOOR, FLOOR FINISHINES PLAN; 03

L_04. UKULIMA 7TH FLOOR, CEILING PLAN; 04

L_05. CEILING TYPE 1; 05

L_06. CEILING TYPE 2; 05

L_07. CEILING TYPE 3; 05

L_08. CEILING TYPE 4; 06

L_09. CEILING TYPE 5; 06

L_10. CEILING TYPE 6; 06

L_11. CEILING TYPE 7; 06

L_12. (01.) UKULIMA 7TH FLOOR, TECHNICAL WING; 07

L_13. SECTION M-M'; 07

L_14. SECTION N-N'; 07

L_15. SECTION O-O'; 08

L_109. RECEPTION BACKWALL DETAIL; 08

L_16. (03.) BOARDROOM'; 09

L_17. ELEVATION B1; 10

L_18. ELEVATION B2; 10

L_19. ELEVATION B3; 11

L_20. ELEVATION B4; 11

L_21. (18.) GYPSUM ACOUSTIC WALL DETAIL; 12

L_22. 19. SLIDING DOOR ELEVATION; 12

L_23. SLIDING DOOR PLAN; 12

L_24. SLIDING SECTION; 12

L_25. (04.) CHAIR'S OFFICE; 13
L_26. SECTION C; 13
L_27. SECTION D; 13
L_28. SECTION A; 14
L_29. SECTION B; 14
L_30. ELEVATION C1; 14
L_31. (05.) BREAKOUT ROOM; 15
L_32. ELEVATION BR1; 15
L_33. ELEVATION BR2; 16
L_34. ELEVATION BR3; 16
L_35. (06.) MONITORING & EVALUATION REGISTRY; 17
L_36. ELEVATION R1; 17
L_37. SECTION E; 17
L_38. SECTION F; 17
L_39. (07.) TYPICAL OFFICE; 18
L_40. ELEVATION OF1; 18
L_41. ELEVATION OF2; 18
L_42. (08.) LACTATION ROOM; 19
L_43. ELEVATION LA1; 19
L_44. SECTION G; 19
L_45. ELEVATION LA2; 19
L_46. (09.) PWD FRIENDLY WASHROOM; 20
L_47. ELEVATION P1; 20
L_48. ELEVATION P2; 20
L_49. ELEVATION P3; 20
L_50. ELEVATION P4; 20
L_109. ELEVATION P5; 20
L_110. SECTION CC; 20

L_51. (10.) CHAIR'S W.C; 21
L_52. ELEVATION W1; 21
L_53. ELEVATION W2; 21
L_54. ELEVATION W3; 21
L_55. ELEVATION W4; 21
L_55. (11). GENTS WASHROOM; 22
L_56. ELEVATION G1; 22
L_57. ELEVATION G2; 23
L_58. ELEVATION G3; 23
L_59. ELEVATION G4; 23
L_60. ELEVATION G5; 23
L_61. (12.) TRASH CHUTE; 24
L_62. ELEVATION CH1; 24
L_ 63. ELEVATION CH2; 24
L_64. ELEVATION CH3; 24
L_65. (18.) MANAGER M&E CABINET; 25
L_66. ELEVATION M1. 25
L_67. SECTION Z. 25
L_68. SECTION AA. 25
L_69. (02.) UKULIMA 7TH FLOOR ,FINANCE WING; 26
L_70. SECTION Q-Q'; 27
L_71. SECTION R-R'; 27
L_72. (13.) CASH OFFICE; 27
L_73. ELEVATION CO1; 28
L_74. ELEVATION CO2; 28
L_75. ELEVATION CO3; 29
L_76. ELEVATION CO4; 29

L_77. SECTION K; 30
L_78. SECTION L; 30
L_79. SECTION S; 30
L_80. SECTION T; 30
L_81. SECTION T; 30
L_82. (14). LADIES WASHROOM; 31
L_83. ELEVATION LD1; 31
L_84. ELEVATION LD2; 32
L_85. ELEVATION LD3; 32
L_86. ELEVATION LD4; 32
L_87. ELEVATION LD5; 32
L_88. (15.) KITCHEN; 33
L_89. ELEVATION K1; 33
L_90. ELEVATION K2; 34
L_91. ELEVATION K3; 34
L_92. ELEVATION K4; 34
L_93. (16.) STRONG ROOM; 35
L_94. ELEVATION S1; 35
L_95. ELEVATION S2; 36
L_96. ELEVATION S3; 36
L_97. SECTION V; 37
L_98. SECTION W; 37
L_99. SECTION X; 37
L_101. SECTION Y; 37
L_102. RECEPTION DESK; 38
L_103. EAST SIDE; 38
L_104. WEST SIDE; 38

L_105. FRONT; 38
L_106. BACK; 38
L_107. SECTION H; 38
L_108. SECTION J; 38
C_01. DOOR SCHEDULE; 39
C_02. WINDOW SCHEDULE; 40
C_03. BURGLAR PROOFING DETAIL; 40

ELECTRICAL

LIGHTING LAYOUT; 42
POWER LAYOUT; 43
SCHEDULE OF SYMBOLS; 44

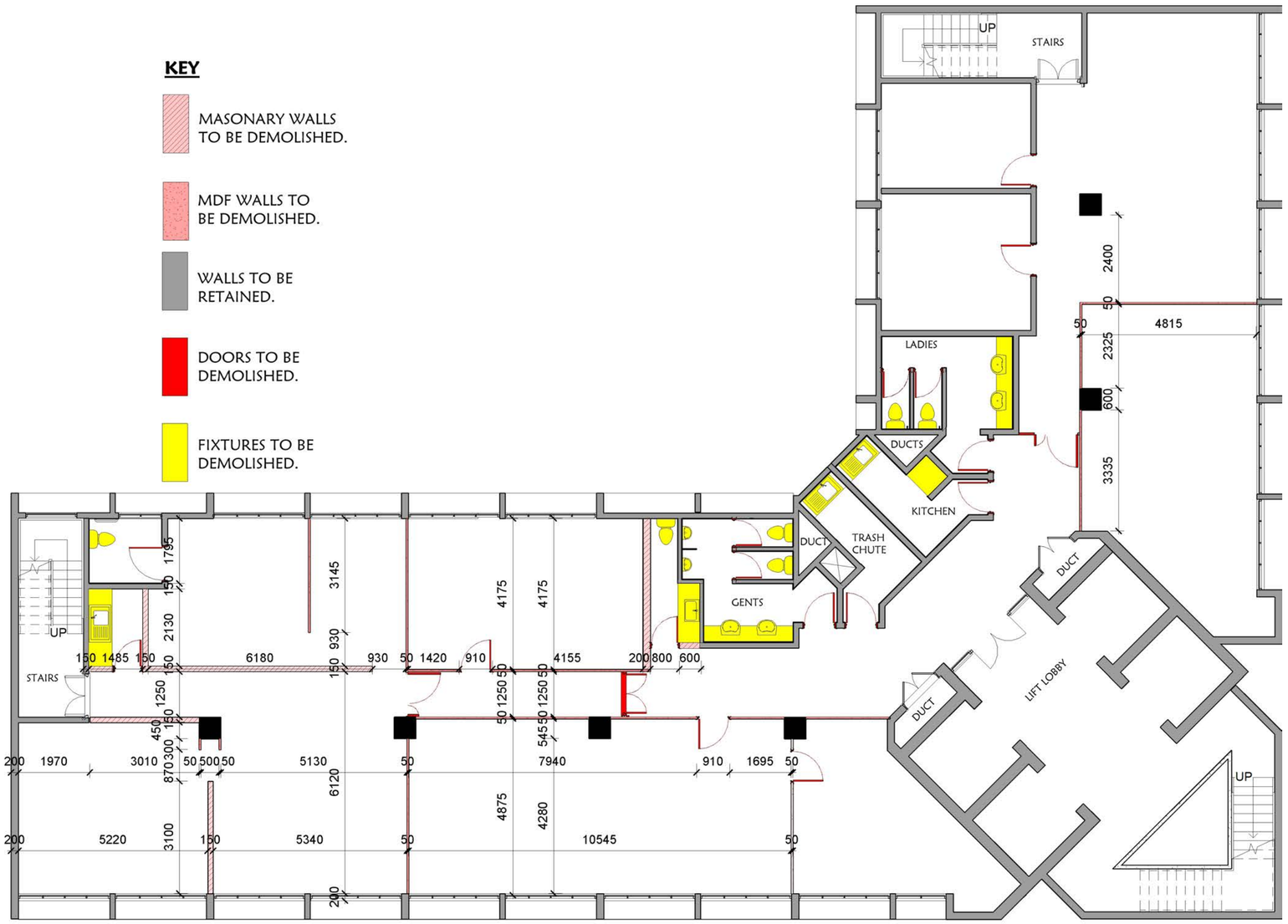
MECHANICAL

AC LAYOUT; 46

5TH AND 6TH FLOOR ALTERATIONS

6TH FLOOR CEO's OFFICE DEMOLITION PLAN; 48
6TH FLOOR CEO's OFFICE ACOUSTIC LAYOUT PLAN; 48
5TH FLOOR BOARDROOM & BOARDCHAIR'S OFFICE DEMOLITION PLAN; 48
5TH FLOOR BOARDROOM & BOARDCHAIR'S OFFICE ACOUSTIC LAYOUT PLAN; 48
6TH **FLOOR** CEO's OFFICE **AC. LAYOUT PLAN; 49**
5TH FLOOR BOARDROOM & BOARDCHAIR'S OFFICE AC. LAYOUT PLAN; 50

ARCHITECTURAL



1.

L_01. DEMOLITION PLAN;
1:100.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

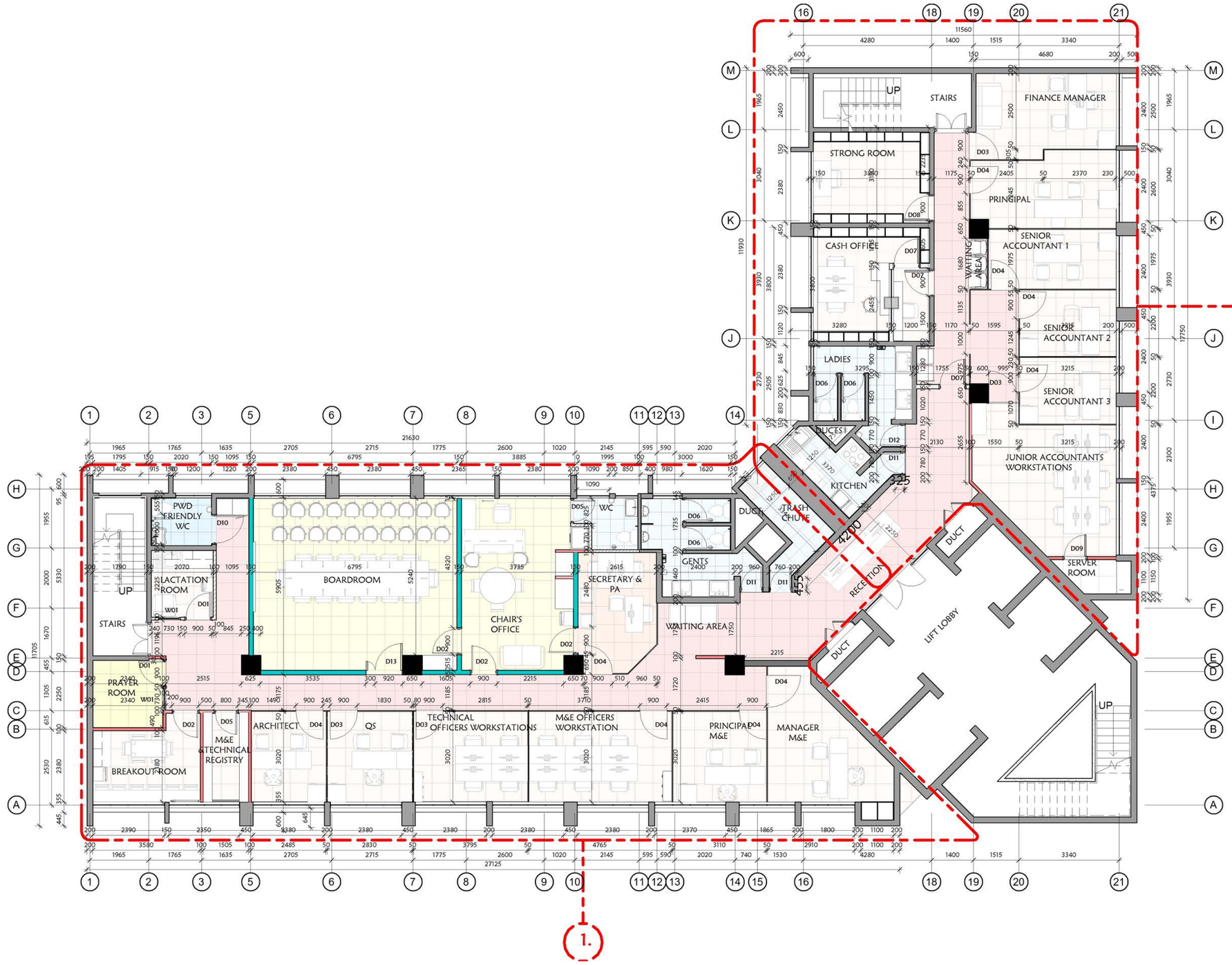
Client's signature:.....

Subject:

Title:

Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 01
Drg No:	Revision No:
DATE; April. 2024.	



KEY.

- EXISTING WALL
- MASONRY WALL
- GYPSUM WALL WITH ROCKWOOL EMBEDED INBETWEEN.
- GYPSUM WALL.
- 10mm THICK TOUGHNENED FRAMELESS GLASS.

L_02. UKULIMA 7TH FLOOR, LAYOUT PLAN;

1:100.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

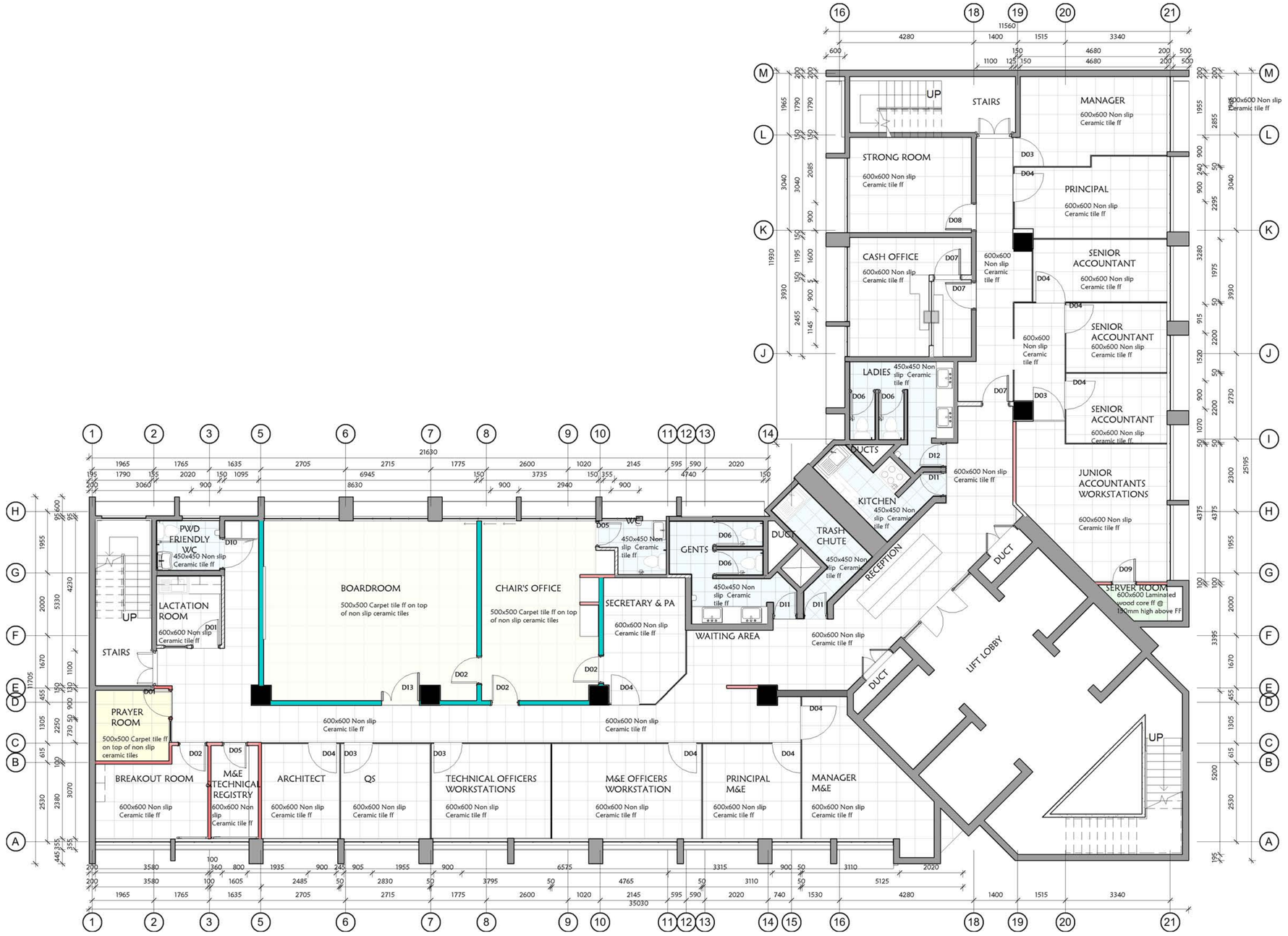
Client's signature:.....

Subject:
LAYOUT PLANS.

Title:

Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 02
Drg No:	Revision No:
DATE; April. 2024.	



KEY.

- EXISTING WALL
- MASONRY WALL
- GYPSUM WALL WITH ROCKWOOL EMBEDED INBETWEEN.
- GYPSUM WALL.
- 10mm THICK TOUGHNENED FRAMELESS GLASS.

L_03. UKULIMA 7TH FLOOR, FLOOR FINISHINES PLAN;

1:100.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

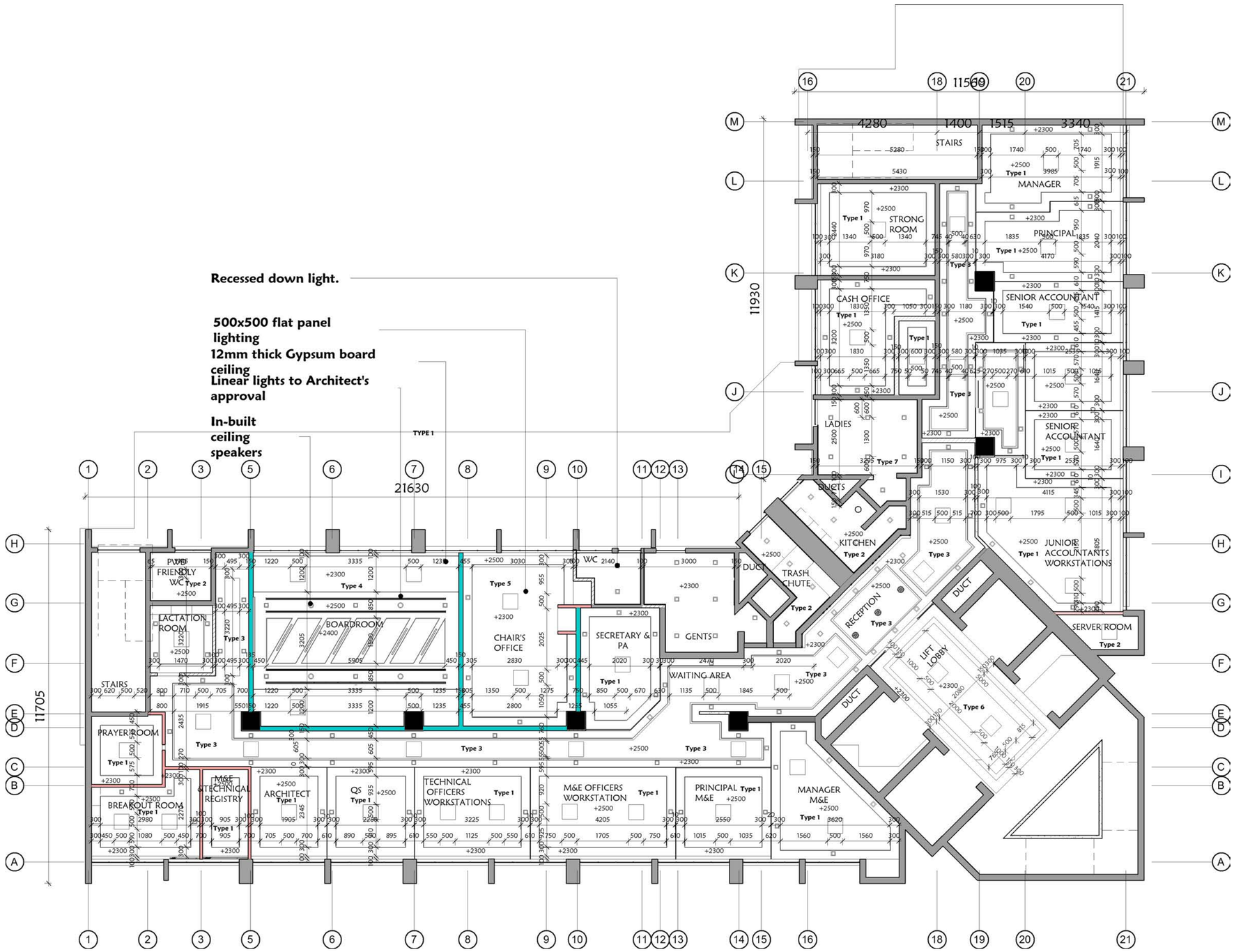
Client's signature:.....

Subject:

Title:

Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 03
Drg No:	Revision No:
DATE; April. 2024.	



L_04. UKULIMA 7TH FLOOR, CEILING PLAN;
1:100.

KEY.

- EXISTING WALL
- MASONRY WALL
- GYPSUM WALL WITH ROCKWOOL EMBEDED INBETWEEN.
- GYPSUM WALL.
- 10mm THICK TOUGHNENED FRAMELESS GLASS.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

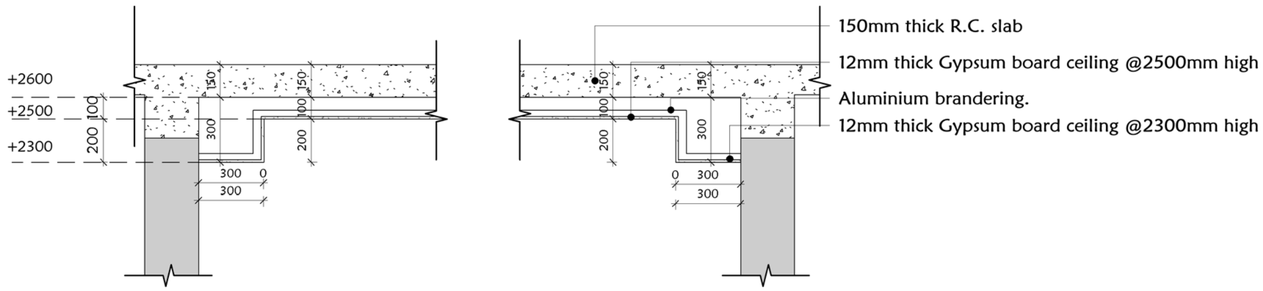
Client's signature:.....

Subject:

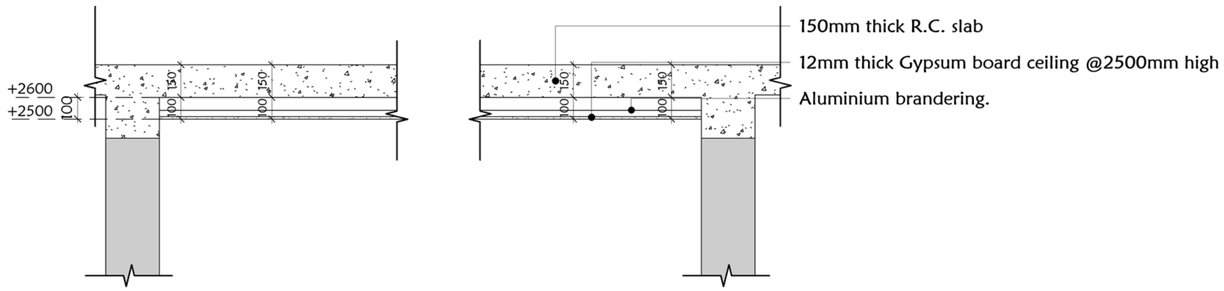
Title:

Consultant:

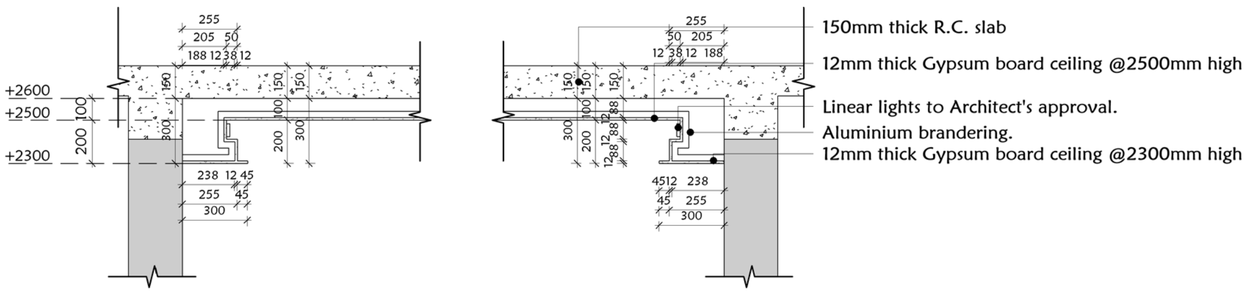
Drawn by:	Checked by:
W.O	B.O.
Scale: 1: 25 @ A2.	Page No.: 04
Drg No:	Revision No:
DATE: April. 2024.	



L_05. CEILING TYPE 1; 1:20.



L_06. CEILING TYPE 2; 1:20.



L_07. CEILING TYPE 3; 1:20.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

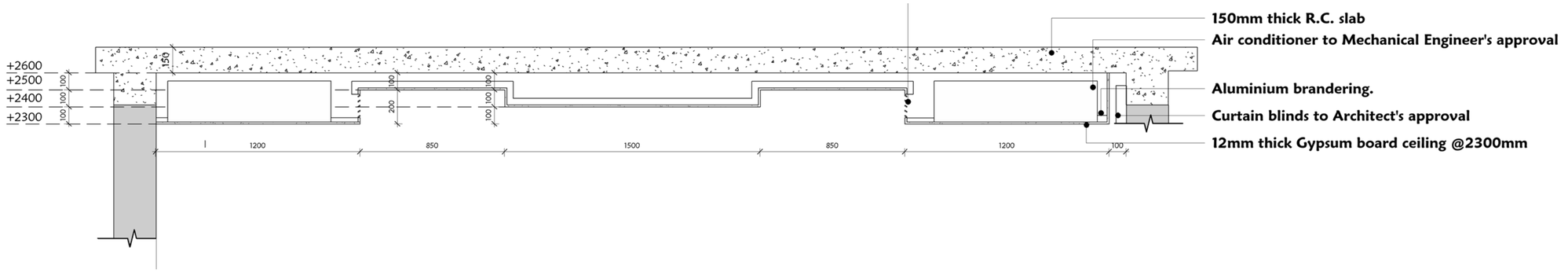
Client's signature:.....

Subject:

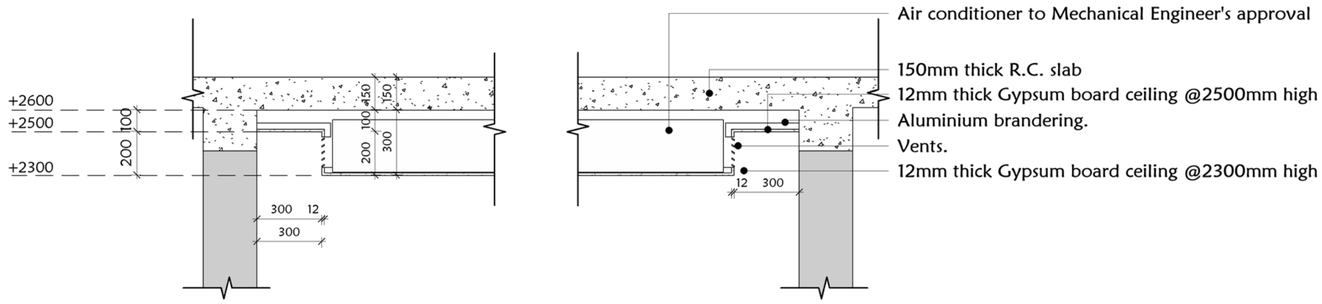
Title:

Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 20 @ A2.	Page No.; 05
Drg No:	Revision No:
DATE; April. 2024.	

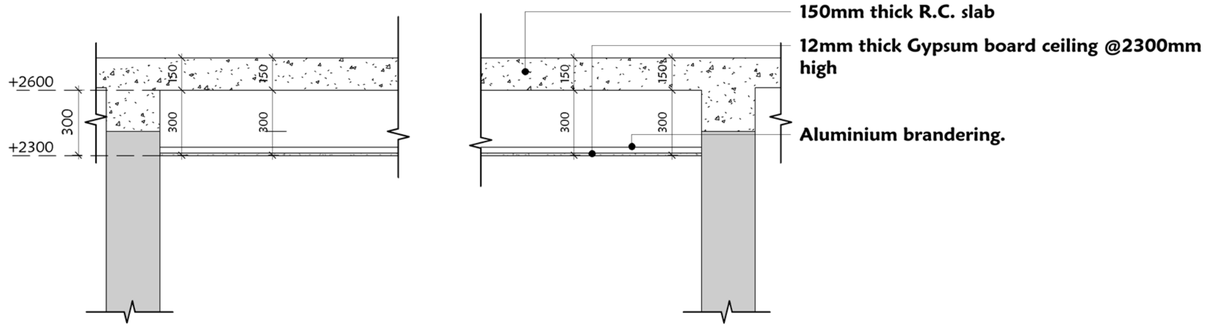


L_08. CEILING TYPE 4;
1:20.



L_09. CEILING TYPE 5;
1:20.

L_10. CEILING TYPE 6;
1:20.



L_11. CEILING TYPE 7;
1:20.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

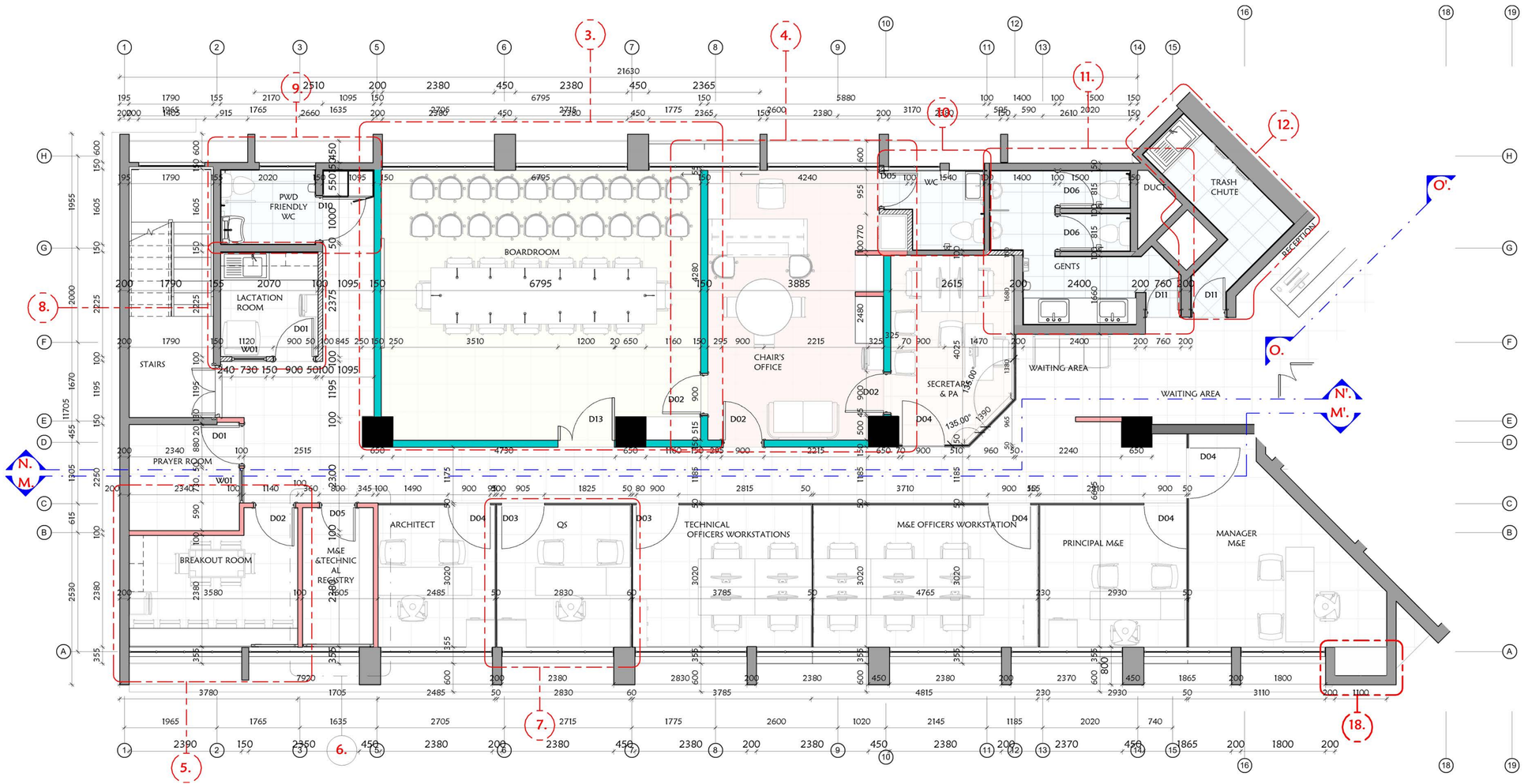
Client's signature:.....

Subject:

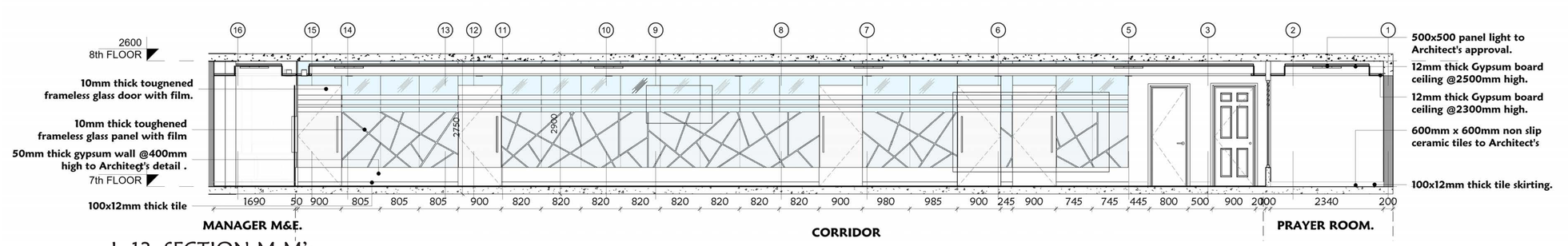
Title:

Consultant:

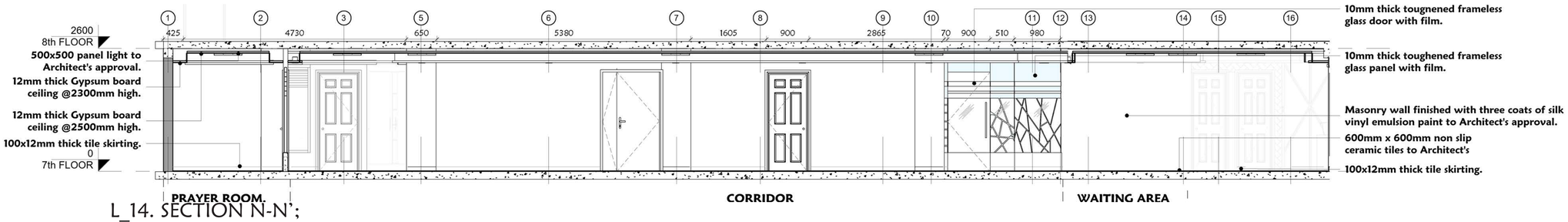
Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 20 @ A2.	Page No.; 06
Drg No:	Revision No:
DATE; April. 2024.	



L_12. (01.) UKULIMA 7TH FLOOR, TECHNICAL WING;
1:50.



L_13. SECTION M-M';
1:50.



L_14. SECTION N-N';
1:50.

KEY.

EXISTING WALL

MASONRY WALL

GYPSUM WALL WITH ROCKWOOL EMBEDED INBETWEEN.

GYPSUM WALL.

10mm THICK TOUGHENED FRAMELESS GLASS.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:

UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITIONING.

Location:

Client:

NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

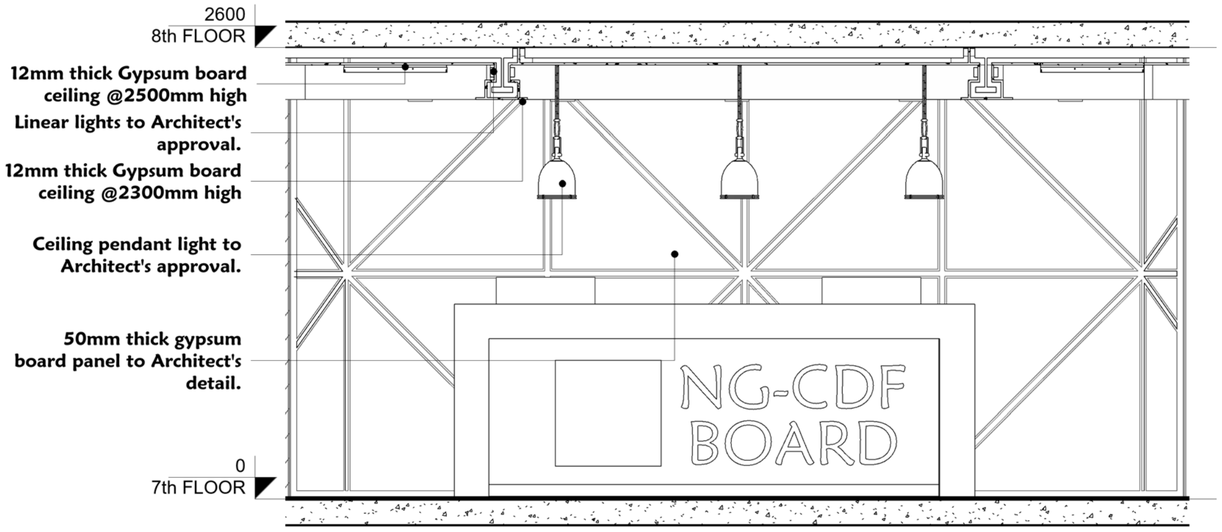
Client's signature:.....

Sublect:

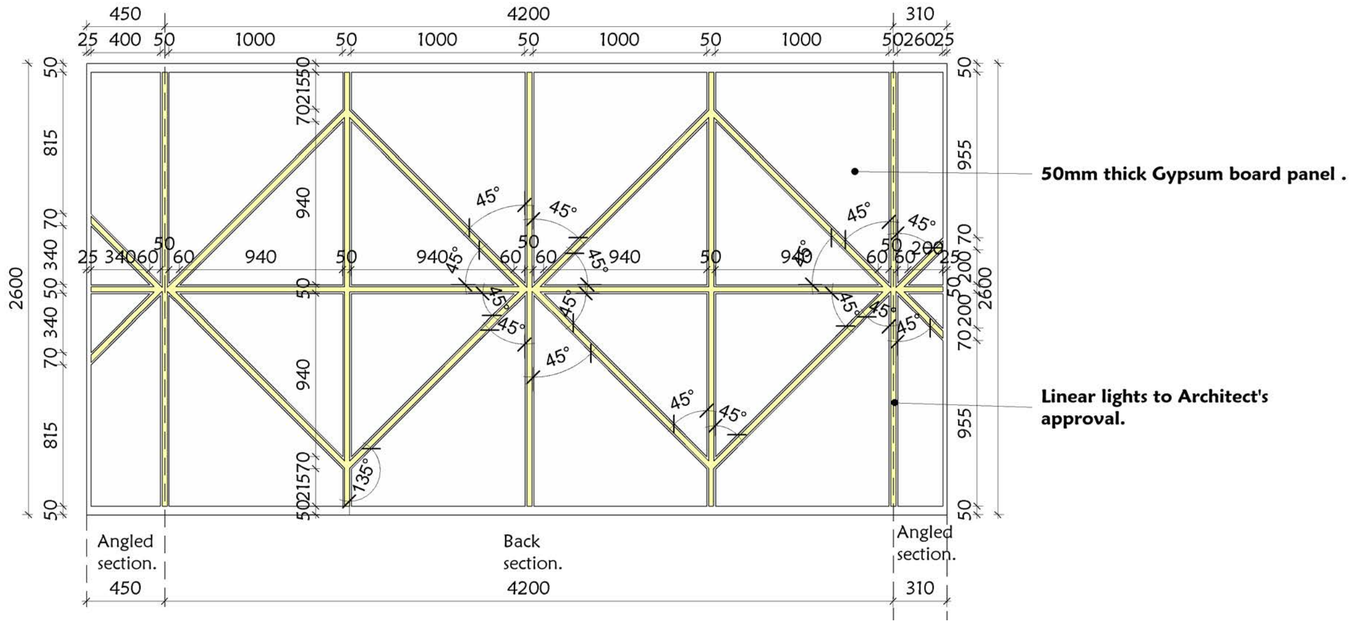
Title:

Consultant:

Drawn by:	Checked by:
B.O.	B.O.
Scale: 1: 25 @ A1.	Page No.: 07
Drg No:	Revision No:
DATE: April. 2024.	



L_15. SECTION O-O';
1:25.



L_109. RECEPTION BACKWALL DETAIL;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

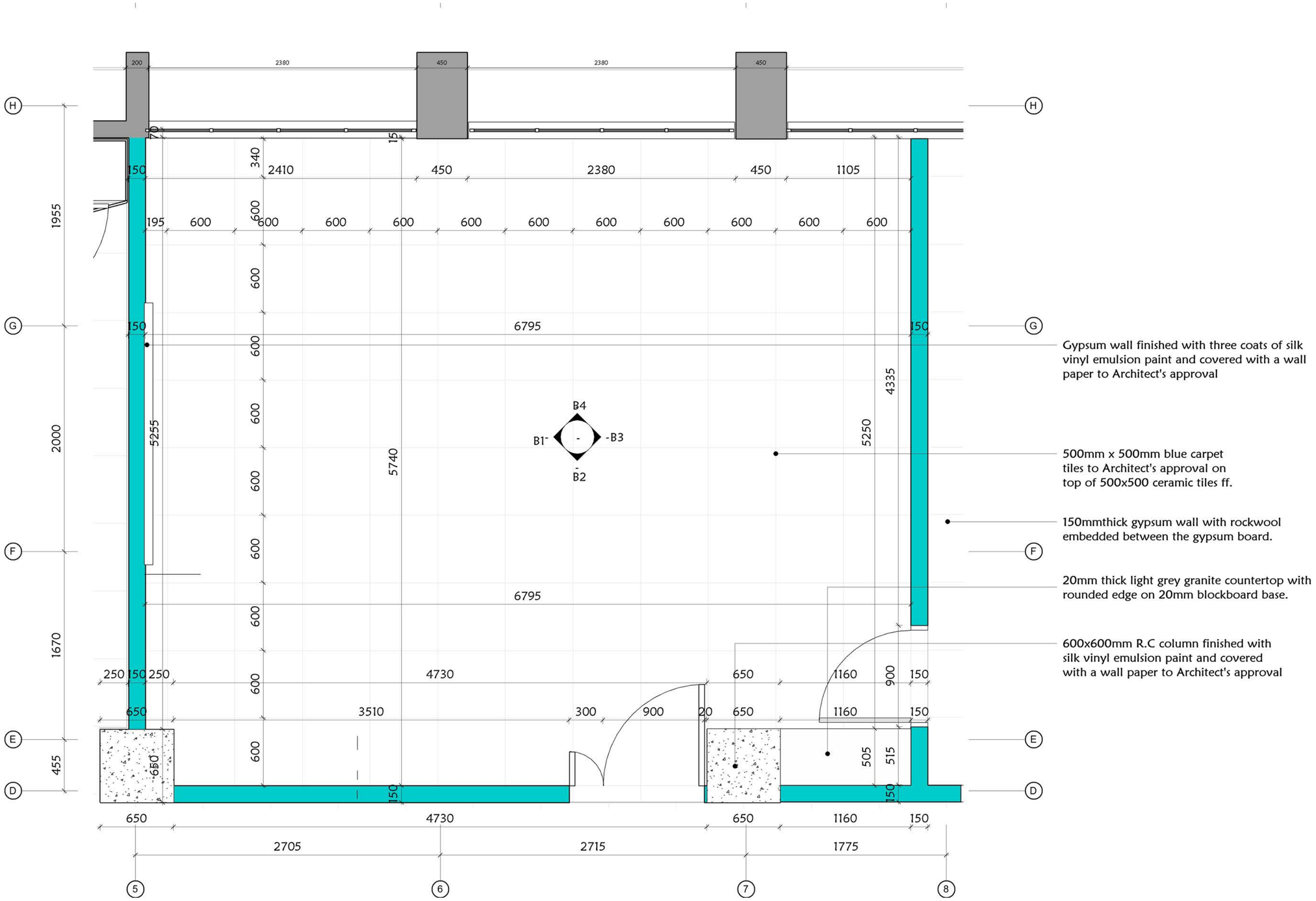
Client's signature:.....

Subject:

Title:

Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 08
Drg No:	Revision No:
DATE; April. 2024.	



L_16. (03.) BOARDROOM';
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

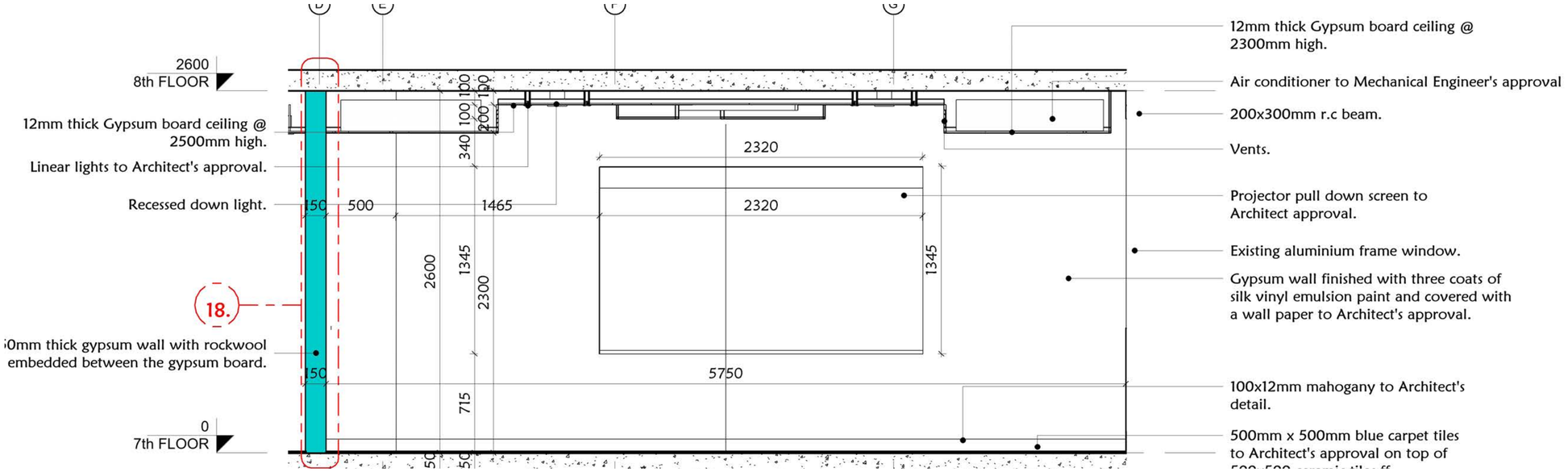
Client's signature:.....

Subject:

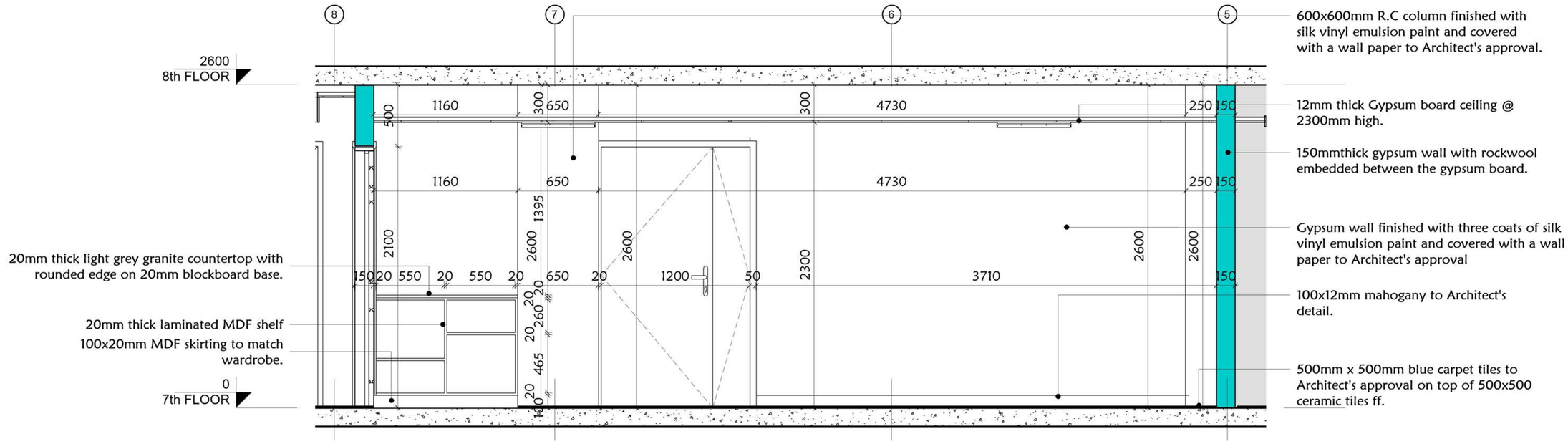
Title:

Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 09
Drg No:	Revision No:
DATE; April. 2024.	



L_17. ELEVATION B1;
1:25.



L_18. ELEVATION B2;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

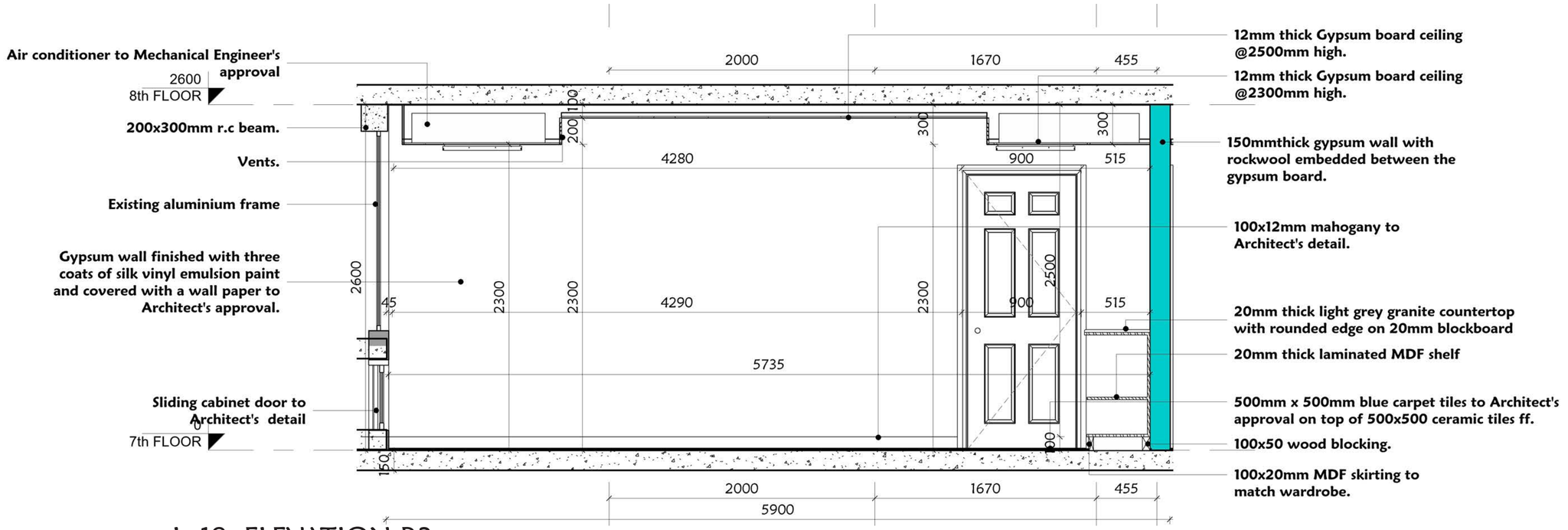
Client's signature:.....

Subject:

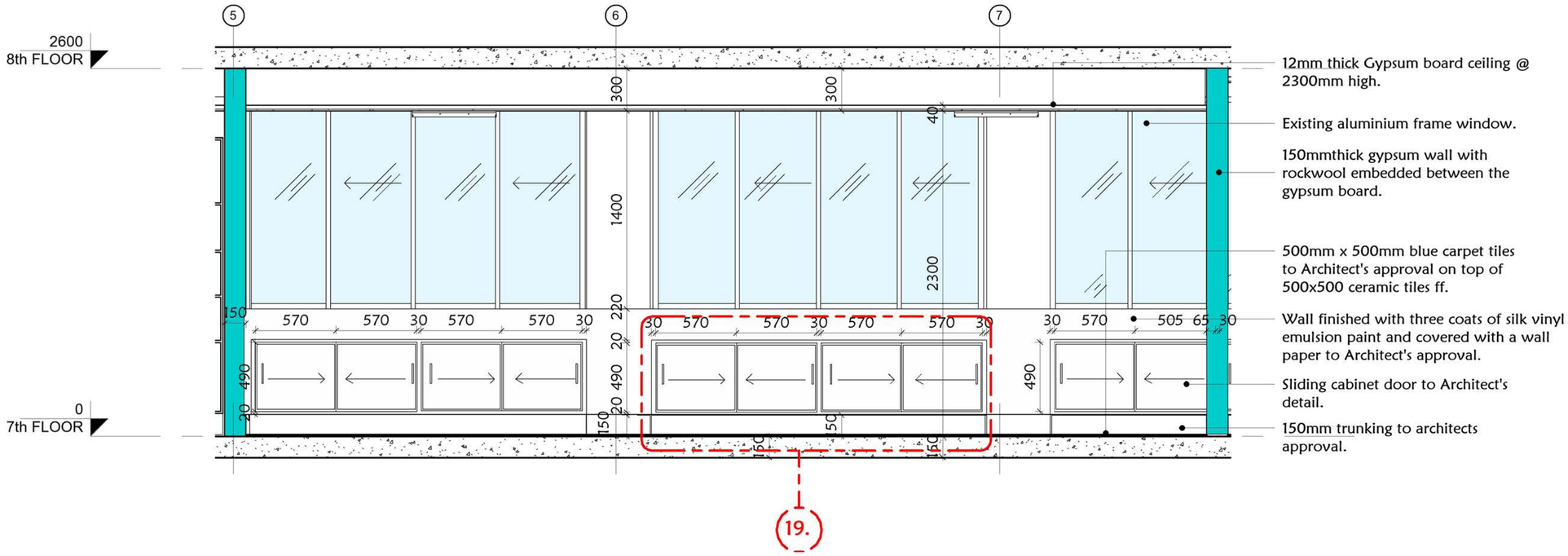
Title:

Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 10
Drg No:	Revision No:
DATE; April. 2024.	



L_19. ELEVATION B3;
1:25.



L_20. ELEVATION B4;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

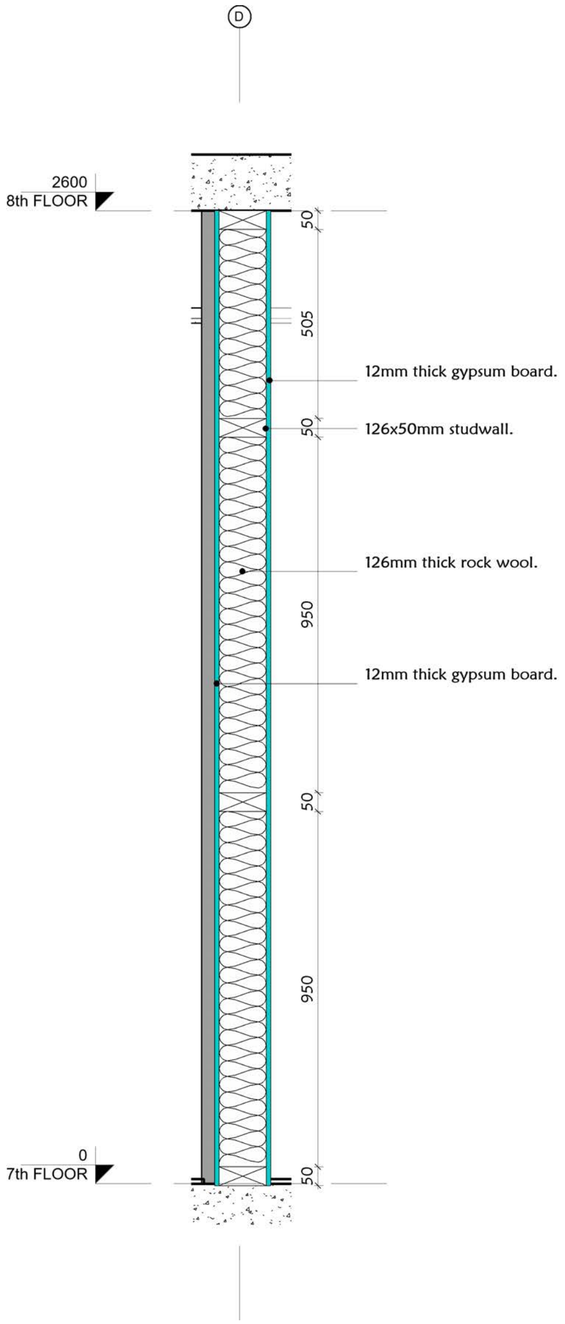
Client's signature:.....

Subject:

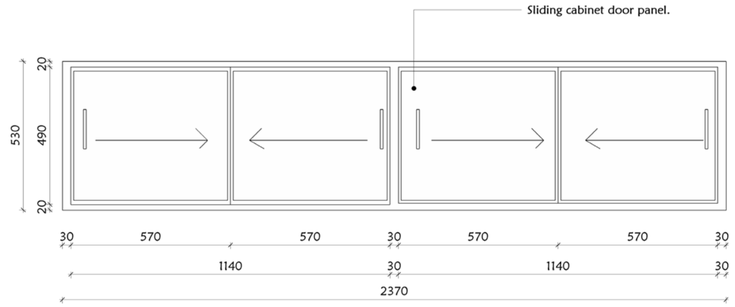
Title:

Consultant:

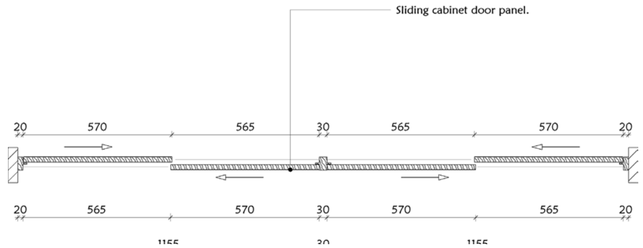
Drawn by:	Checked by:
W.O	B.O.
Scale: 1: 25 @ A2.	Page No.: 11
Drg No:	Revision No:
DATE: April. 2024.	



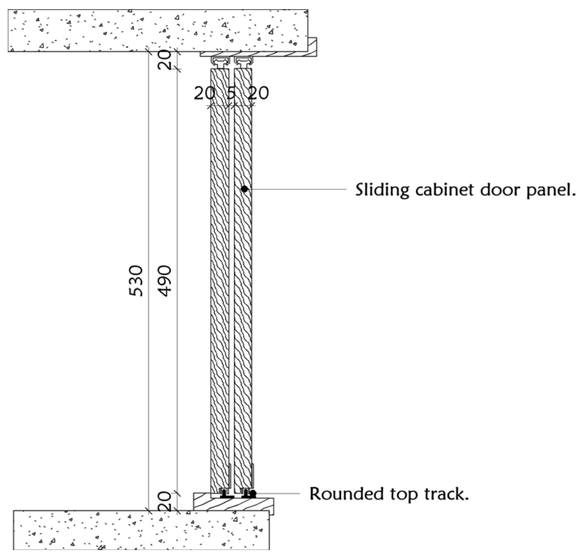
L_21. (18.) GYPSUM ACOUSTIC WALL DETAIL;
1:10.



L_22. 19. SLIDING DOOR ELEVATION;
1:10.



L_23. SLIDING DOOR PLAN;
1:10.



L_24. SLIDING SECTION;
1:5.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

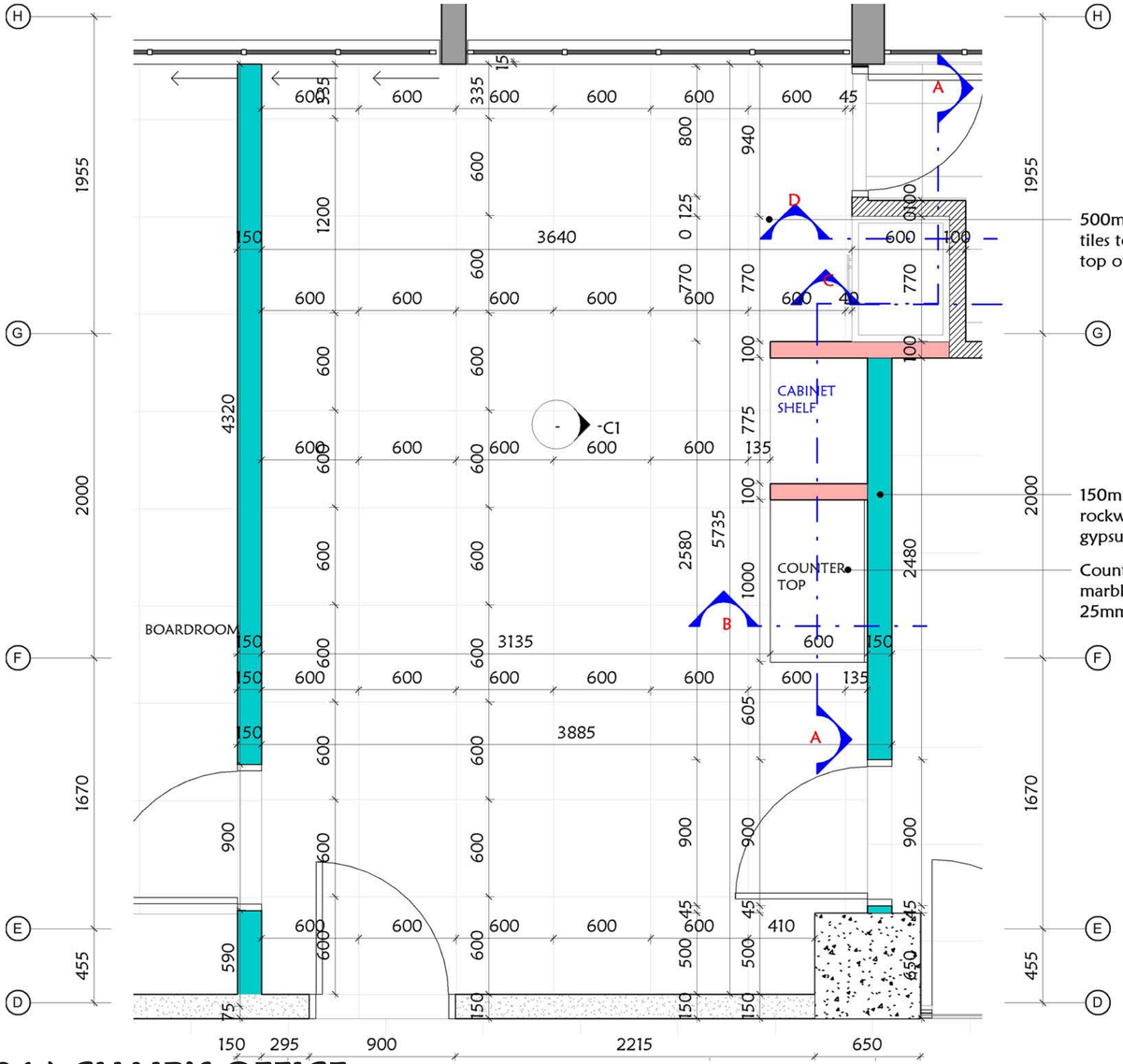
Client's signature:.....

Subject:

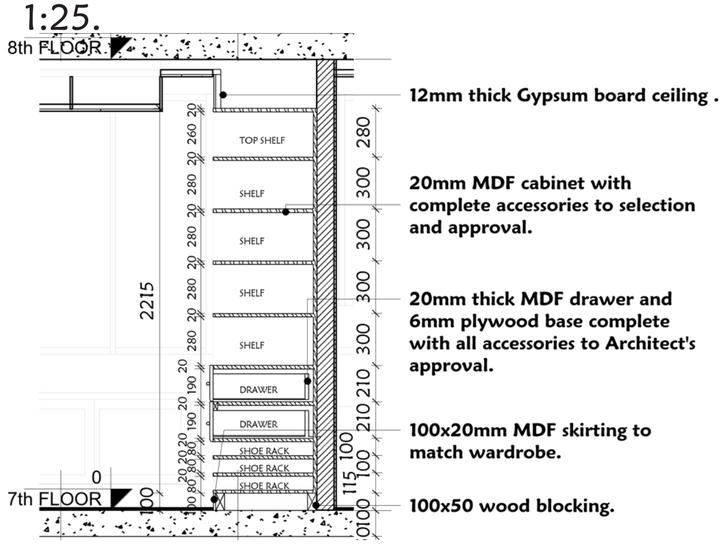
Title:

Consultant:

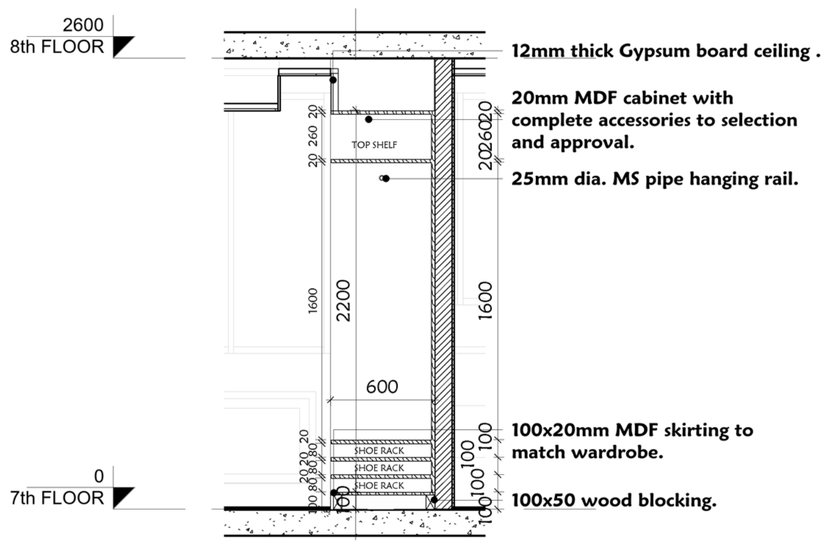
Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 12
Drg No:	Revision No:
DATE; April. 2024.	



L_25. (04.) CHAIR'S OFFICE;
1:25.



L_26. SECTION C;
1:25.



L_27. SECTION D;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

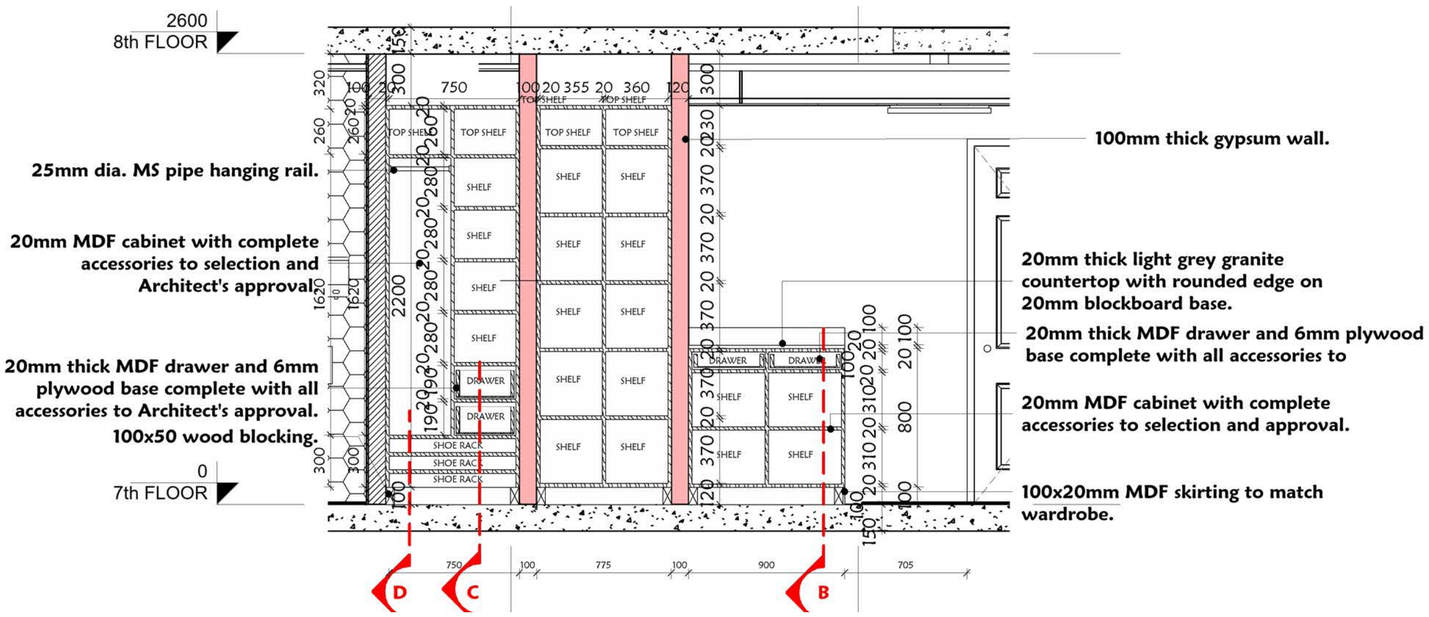
Client's signature:.....

Subject:

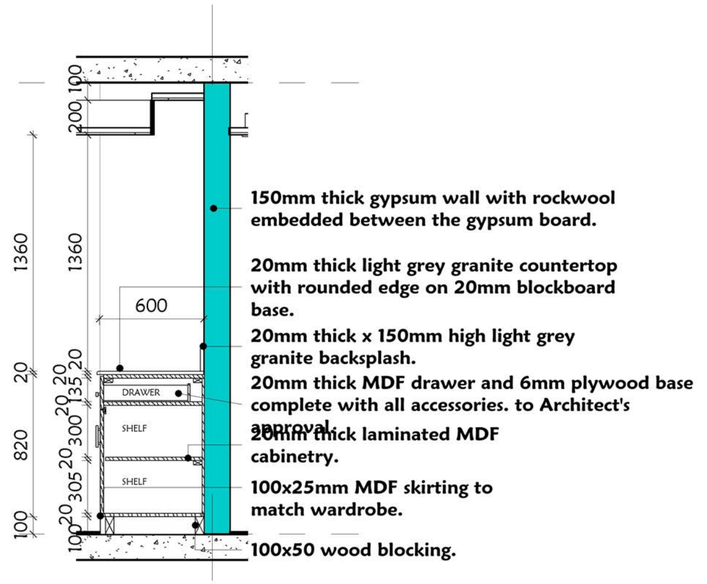
Title:

Consultant:

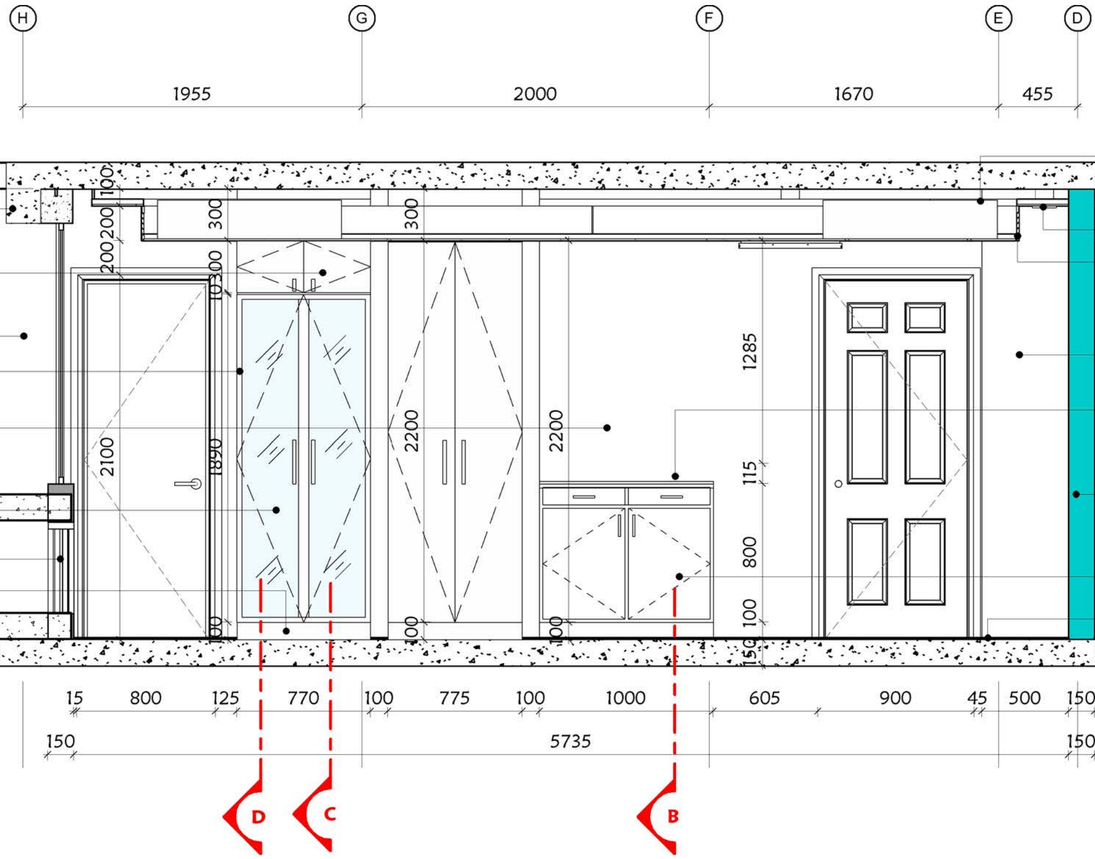
Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 13
Drg No:	Revision No:
DATE; April. 2024.	



L_28. SECTION A;
1:25.



L_29. SECTION B;
1:25.



L_30. ELEVATION C1;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

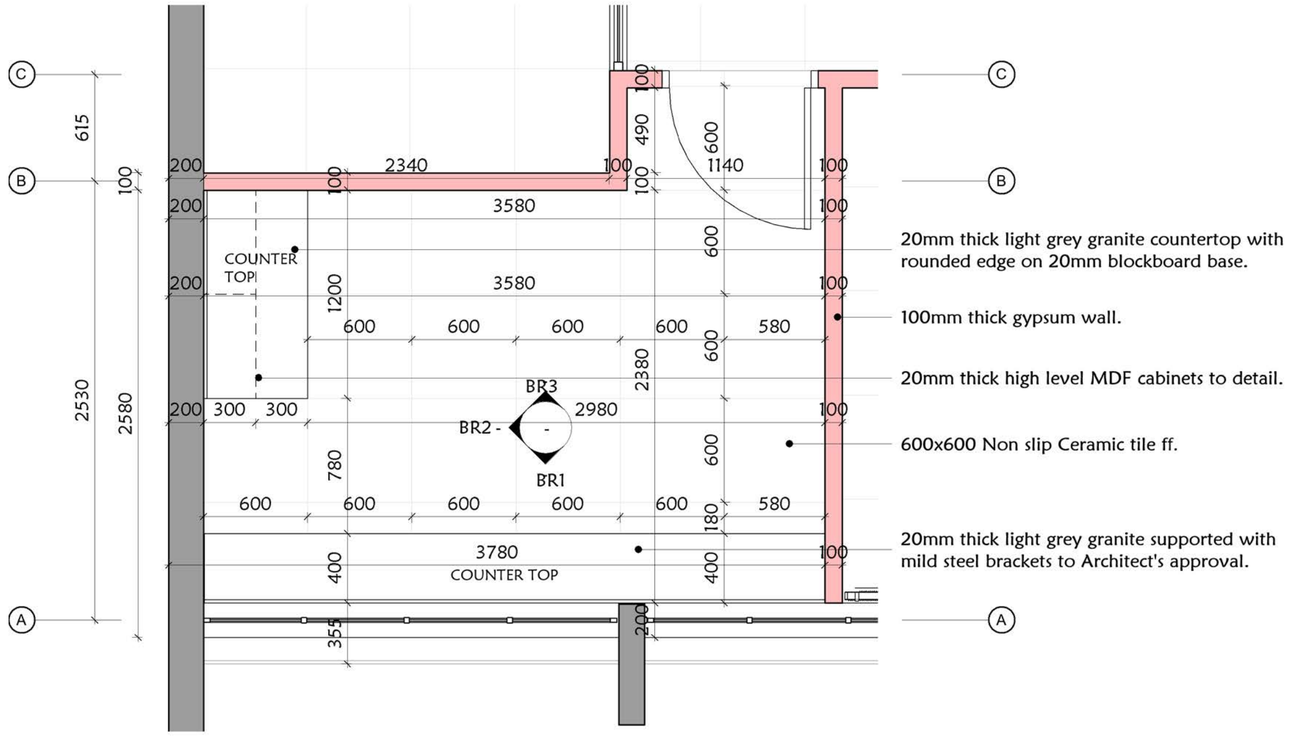
Client's signature:.....

Subject:

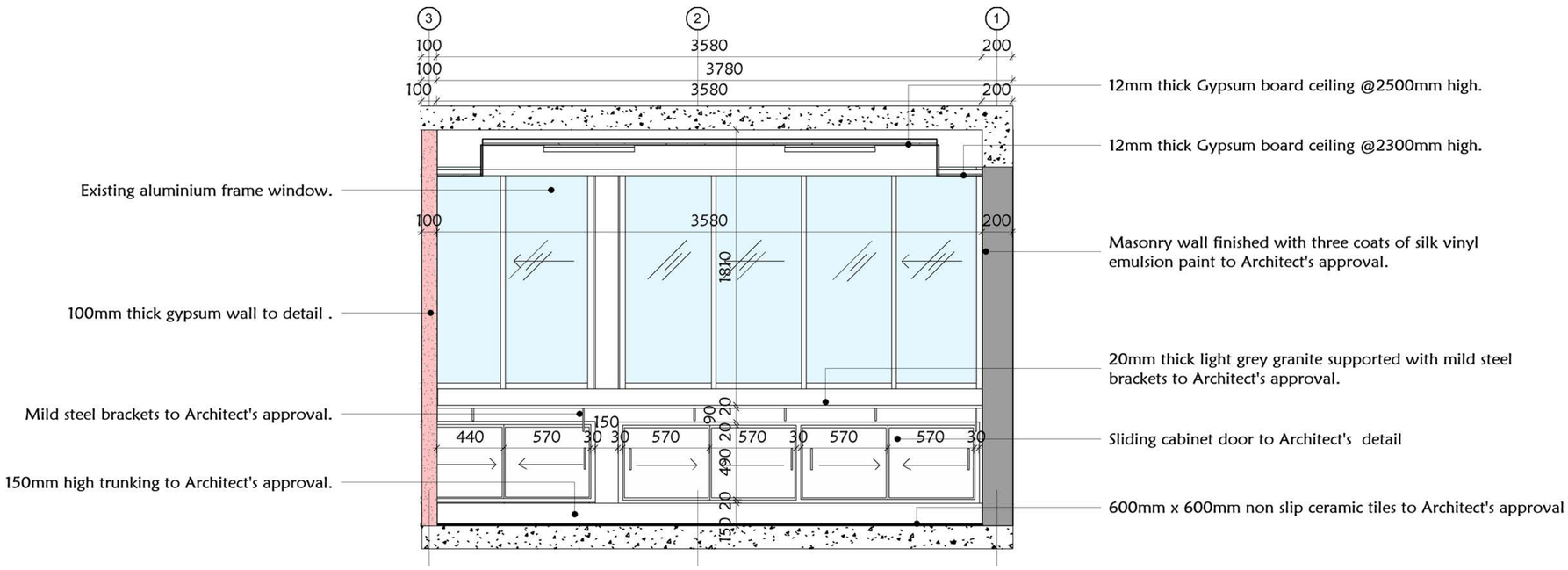
Title:

Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 14
Drg No:	Revision No:
DATE: April. 2024.	



L_31. (05.) BREAKOUT ROOM;
1:25.



L_32. ELEVATION BR1;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

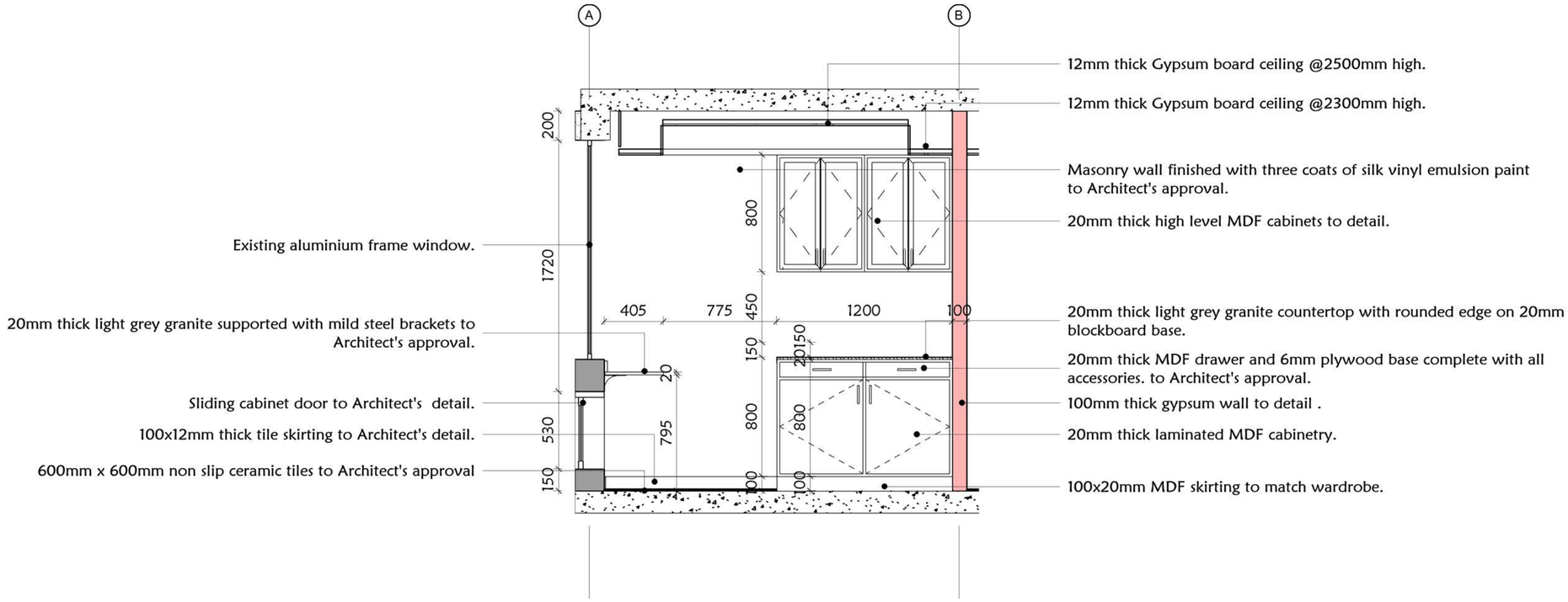
Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)
Client's signature:.....

Subject:

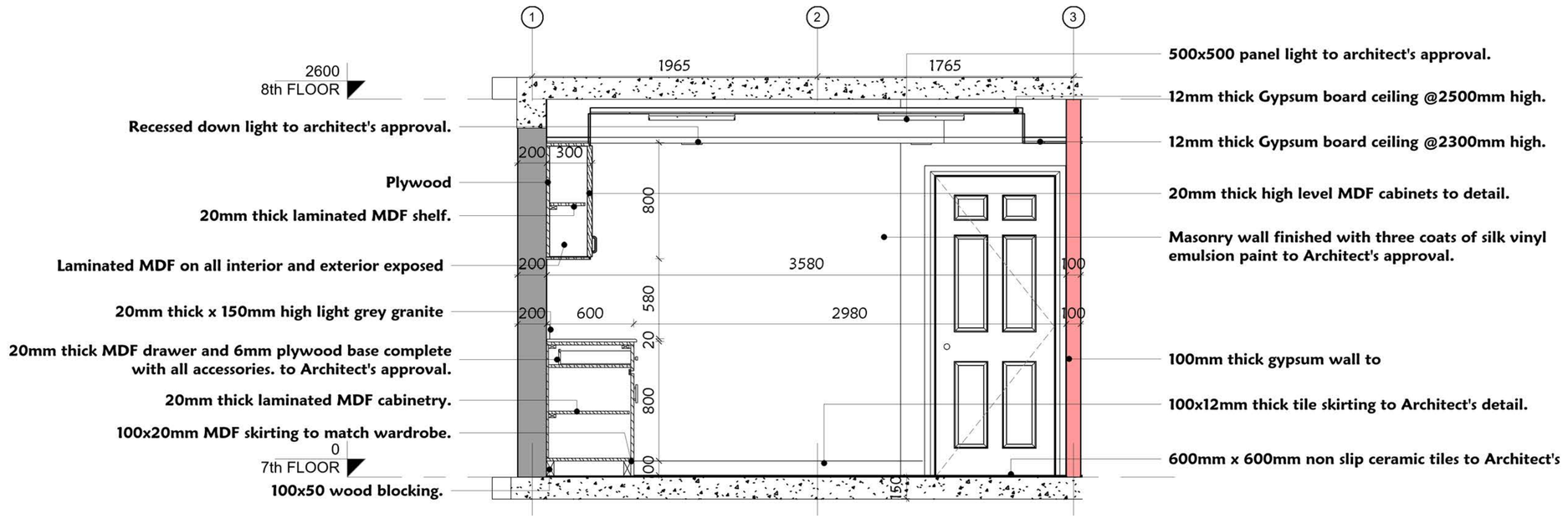
Title:

Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 15
Drg No:	Revision No:
DATE; April. 2024.	



L_33. ELEVATION BR2;
1:25.



L_34. ELEVATION BR3;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

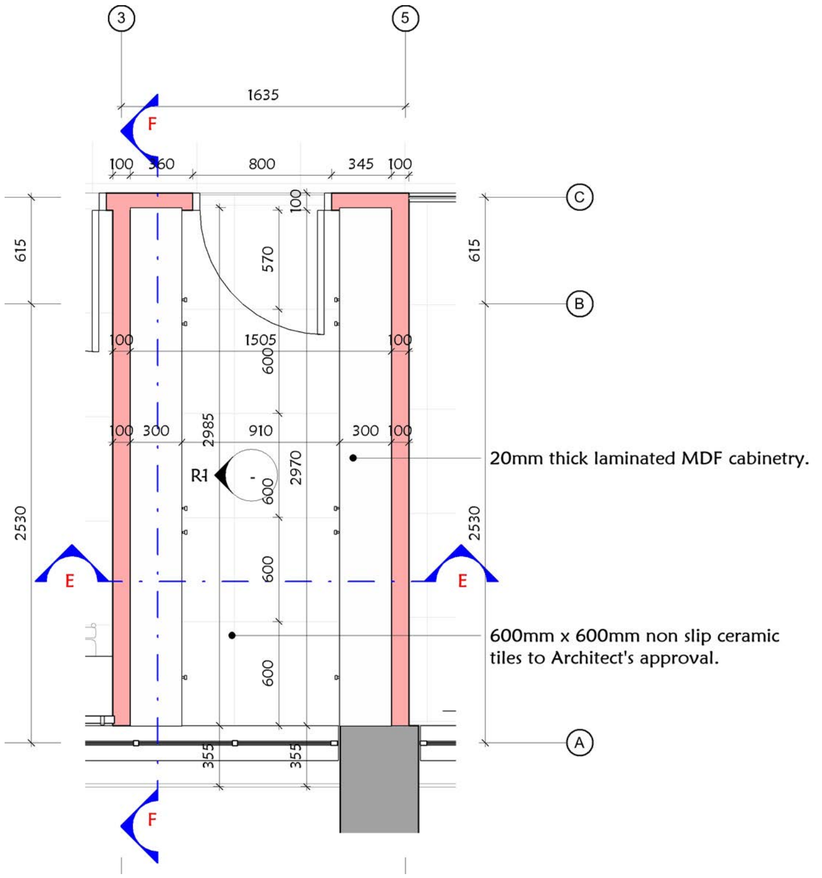
Client's signature:.....

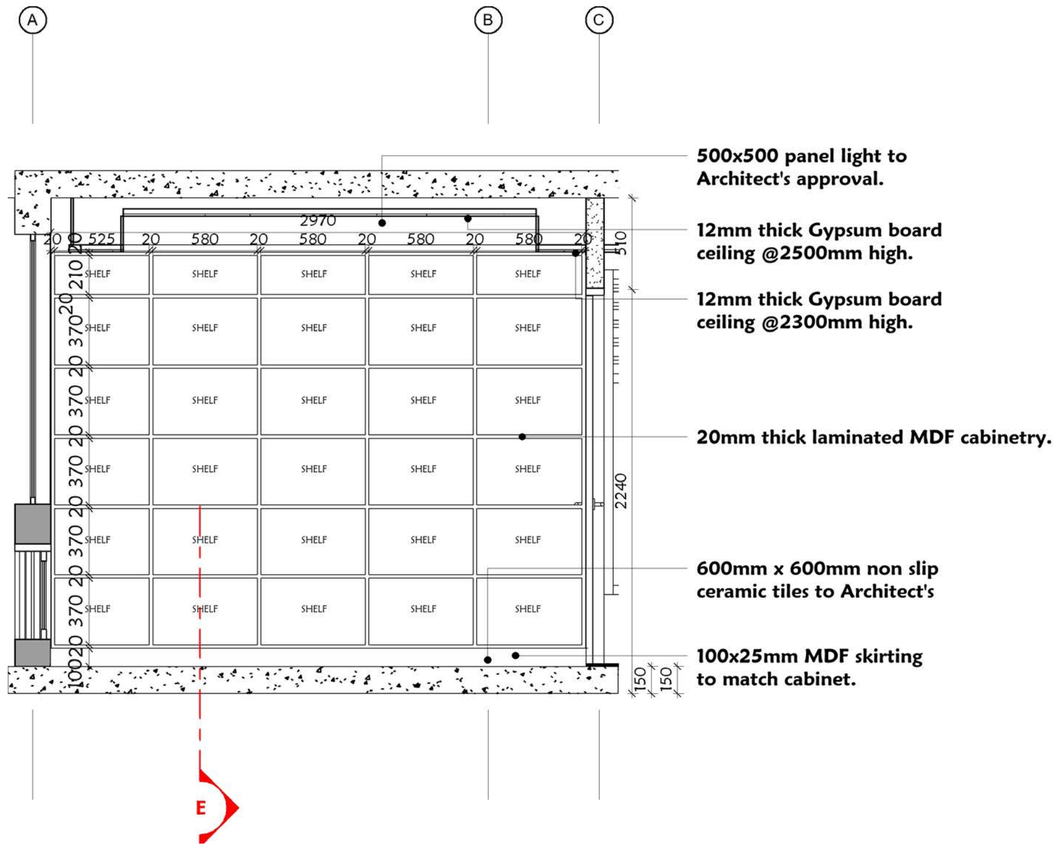
Subject:

Title:

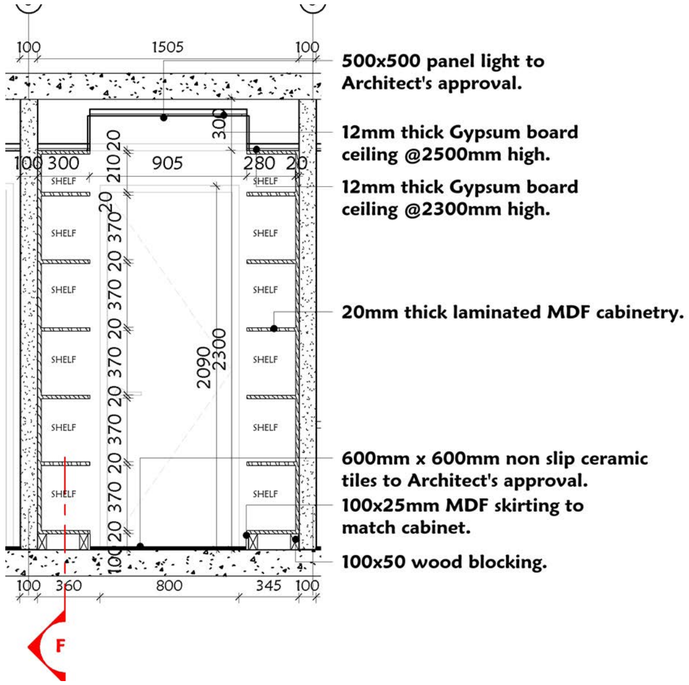
Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 16
Drg No:	Revision No:
DATE; April. 2024.	



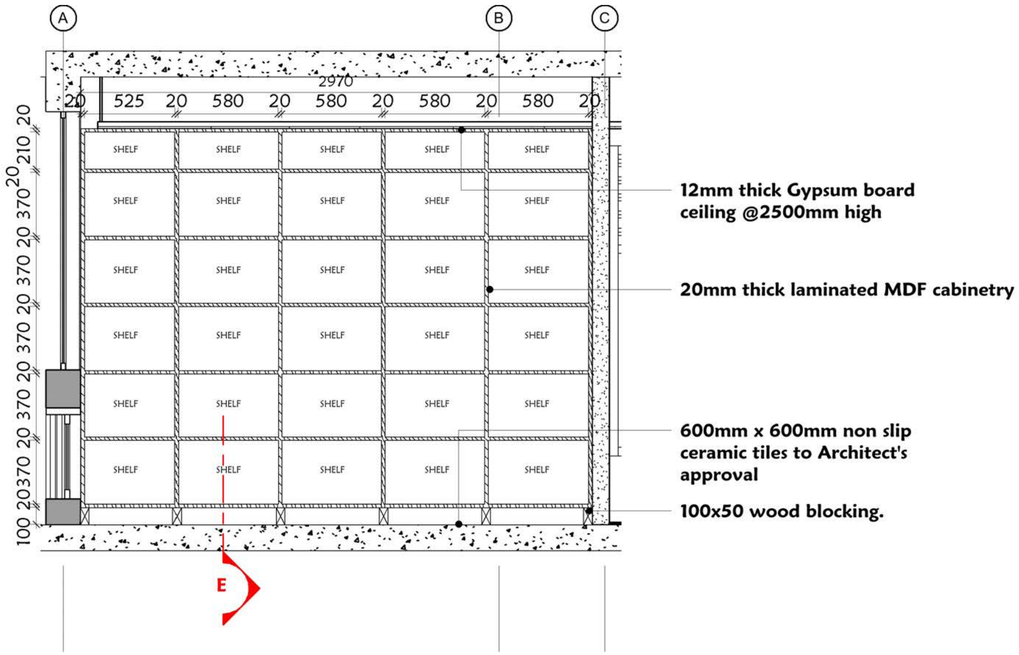


L_35. (06.) MONITORING & EVALUATION REGISTRY;
1:25.



L_37. SECTION E;
1:25.

L_36. ELEVATION R1;
1:25.



L_38. SECTION F;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

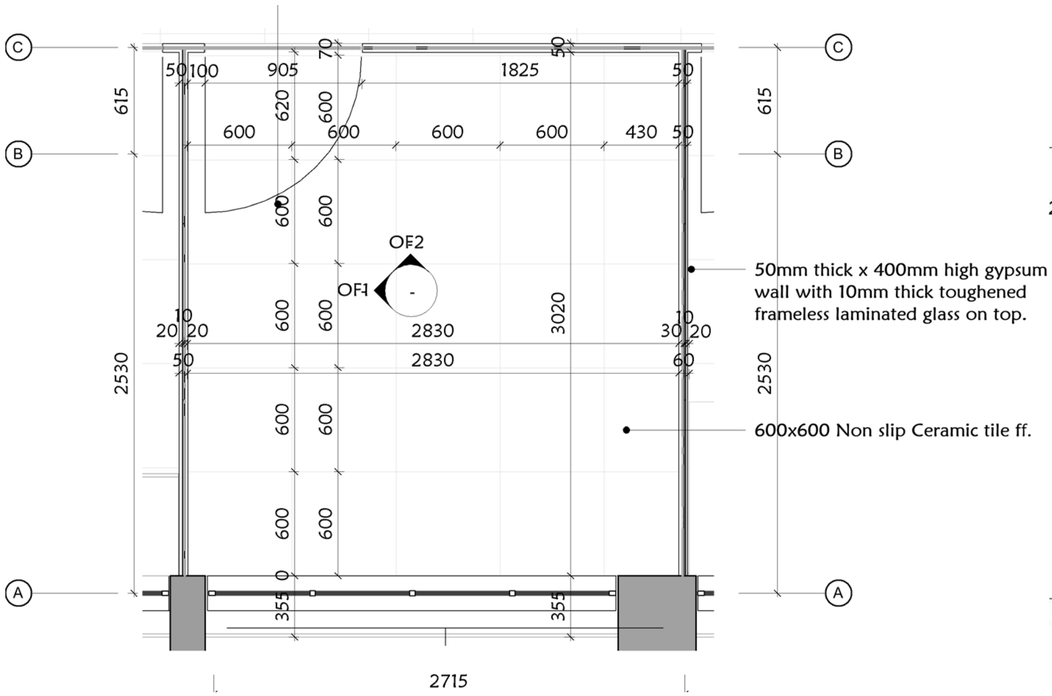
Client's signature:.....

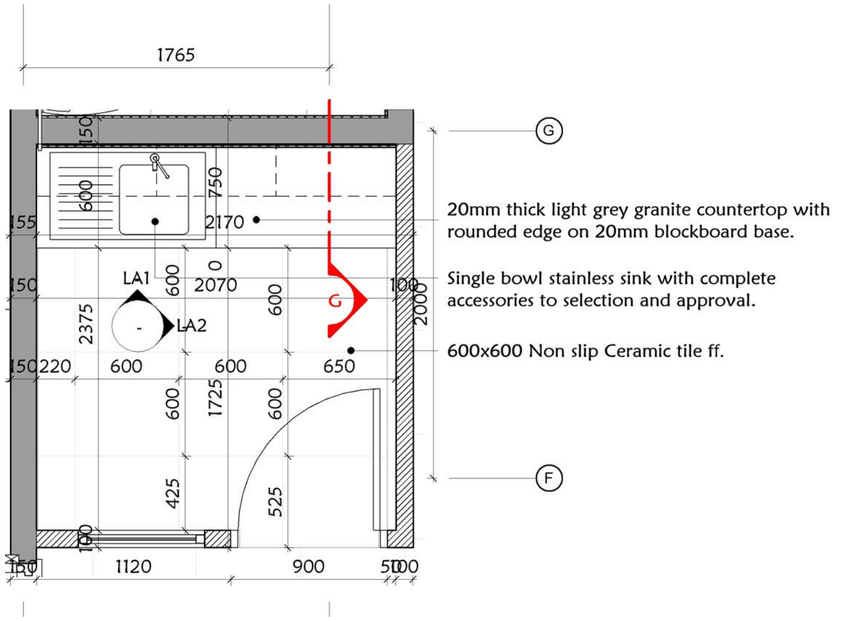
Subject:

Title:

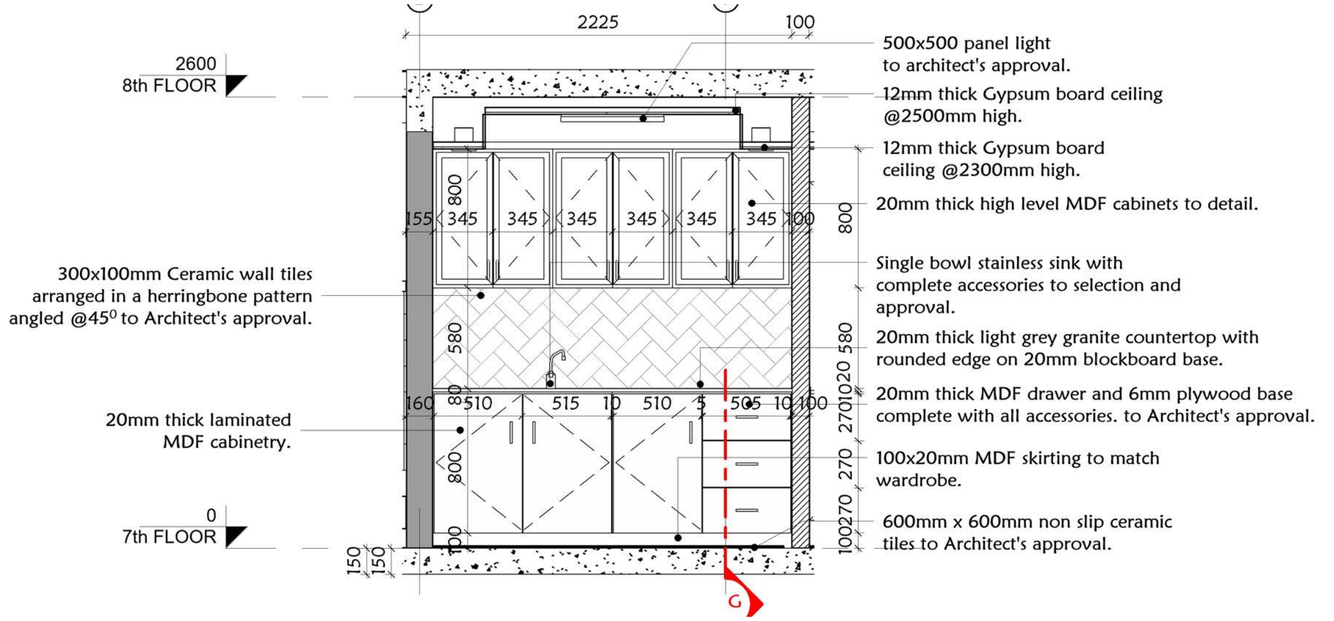
Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale: 1: 25 @ A2.	Page No.: 17
Drg No:	Revision No:
DATE: April. 2024.	

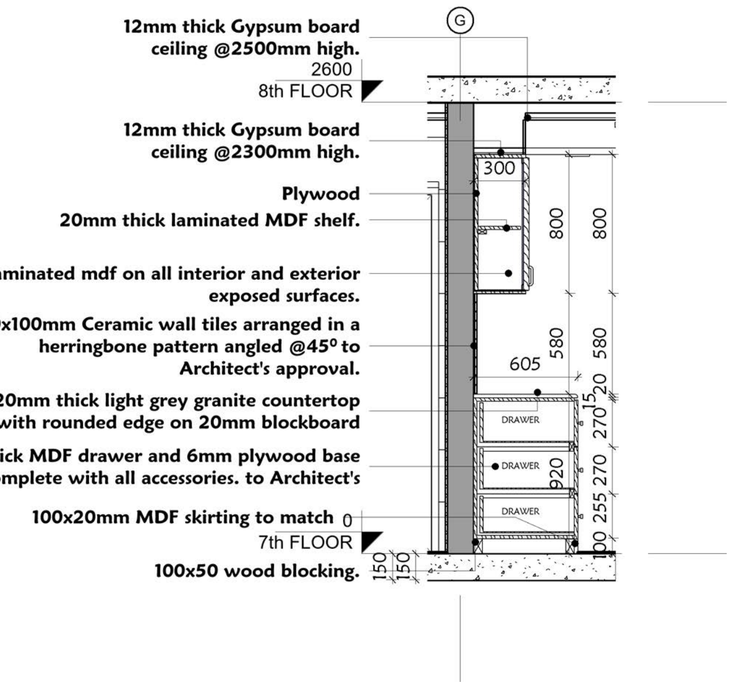

C
B
A
50 100 905 1825 50
615
70 620 600 600 600 600 430 50
600 600 600 600



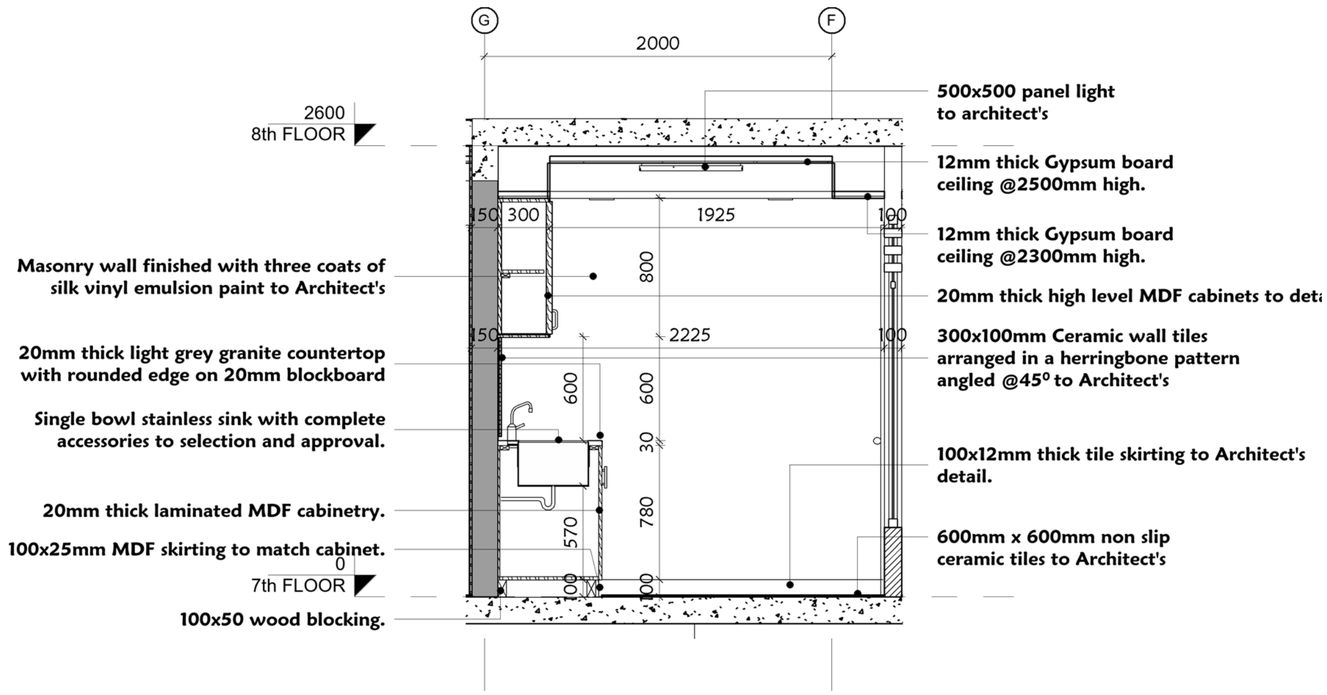
L_42. (08.) LACTATION ROOM;
1:25.



L_43. ELEVATION LA1;
1:25.



L_44. SECTION G;
1:25.



L_45. ELEVATION LA2;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

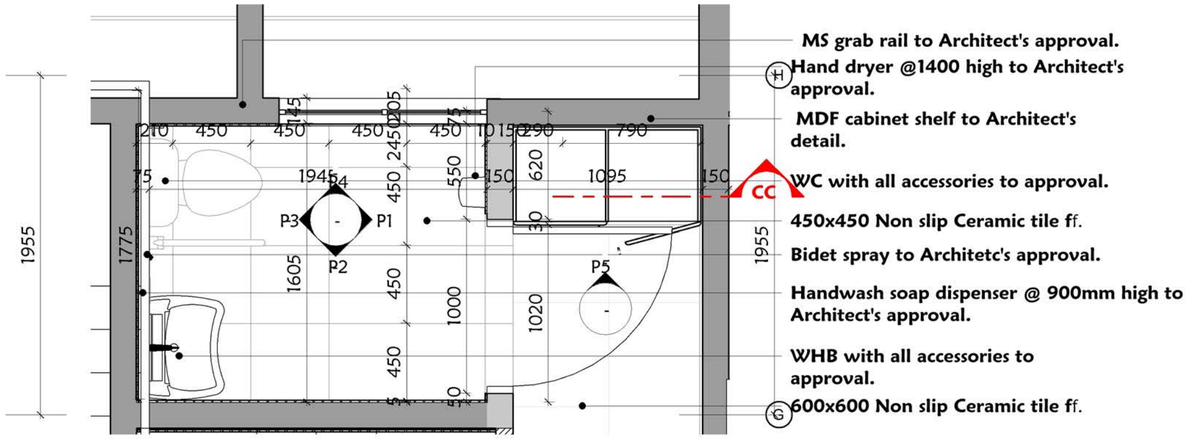
Client's signature:.....

Subject:

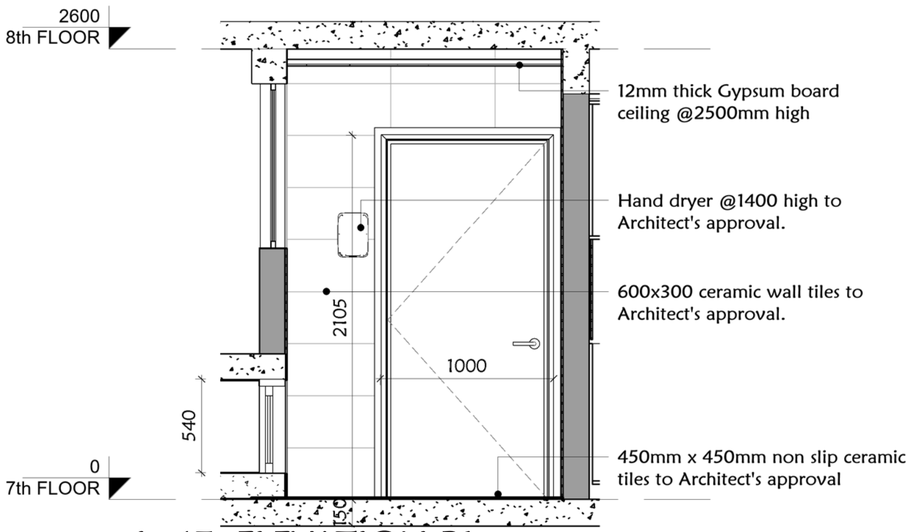
Title:

Consultant:

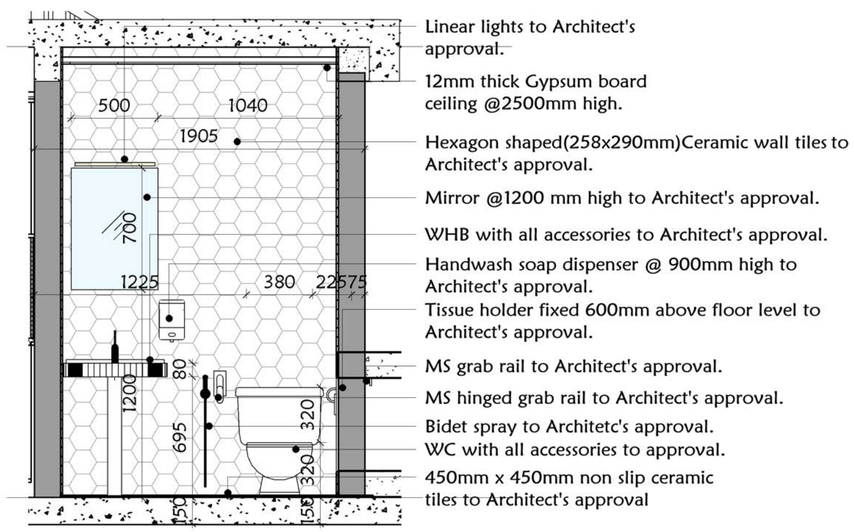
Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 19
Drg No:	Revision No:
DATE; April. 2024.	



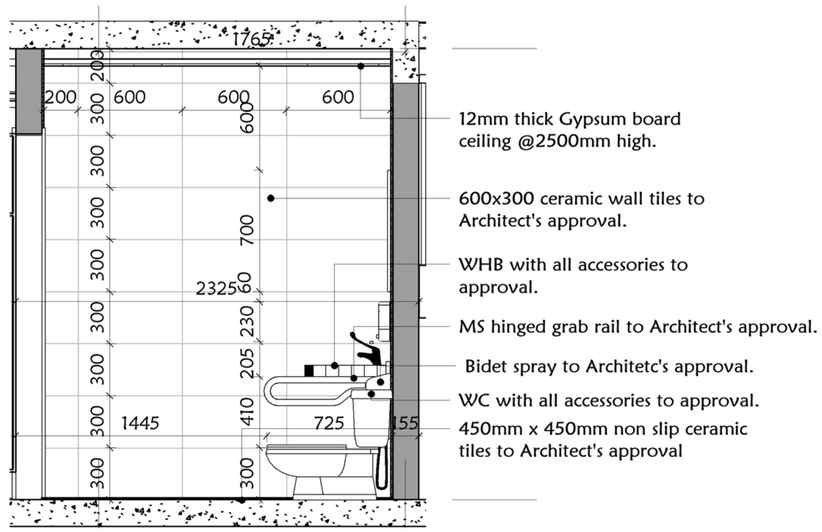
L_46. (09.) PWD FRIENDLY WASHROOM;
1:25.



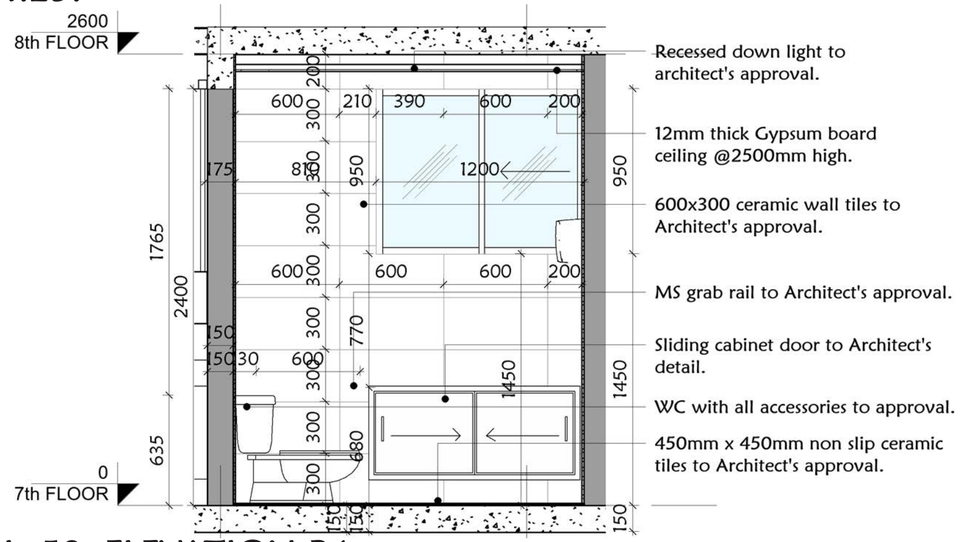
L_47. ELEVATION P1;
1:25.



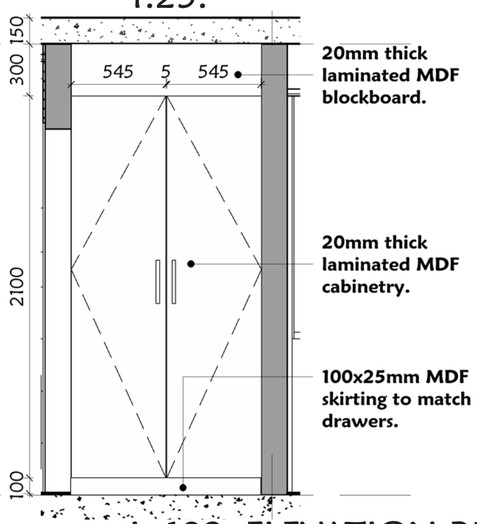
L_49. ELEVATION P3;
1:25.



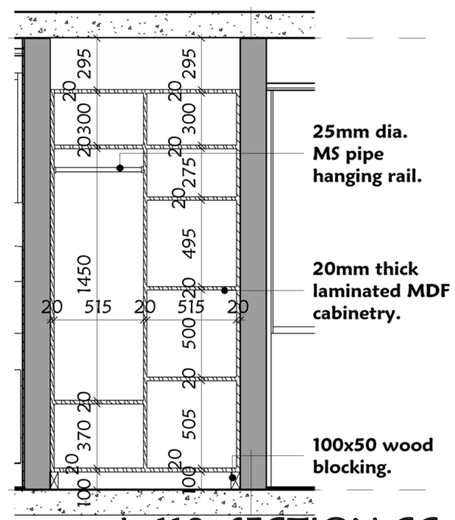
L_48. ELEVATION P2;
1:25.



L_50. ELEVATION P4;
1:25.



L_109. ELEVATION P5;
1:25.



L_110. SECTION CC;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

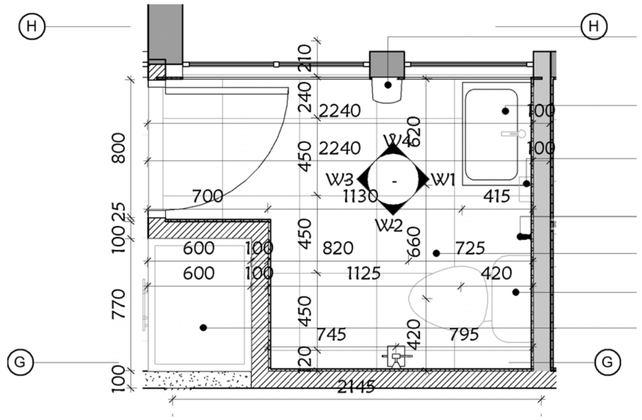
Client's signature:.....

Subject:

Title:

Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 20
Drg No:	Revision No:
DATE; April. 2024.	



Hand dryer @1400 high to Architect's approval.

WHB with all accessories to Architect's approval.

Handwash soap dispenser @ 1200mm high to Architect's approval.

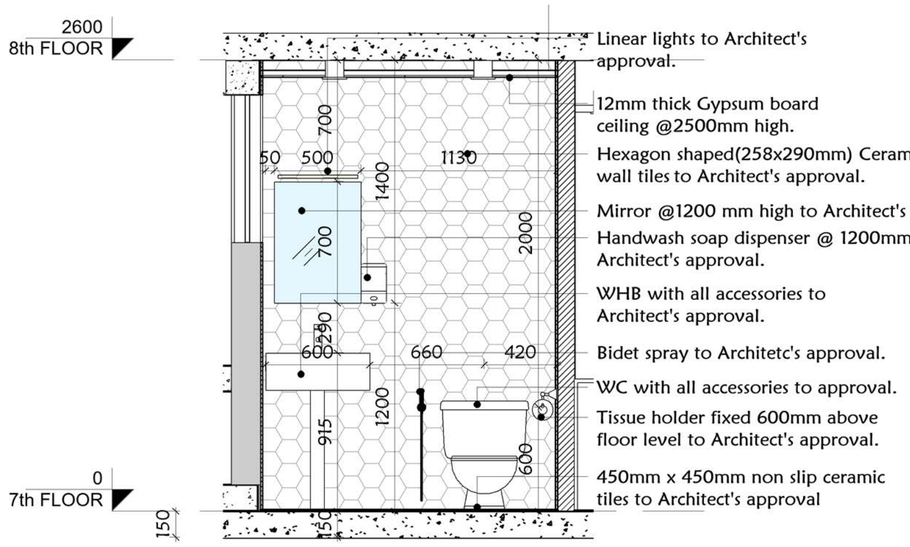
Bidet spray to Architetc's approval.

450x450 Non slip Ceramic tile ff.

WC with all accessories to approval.

MDF Wardrobe to Architect's detail.

L_51. (10.) CHAIR'S W.C;
1:25.



Linear lights to Architect's approval.

12mm thick Gypsum board ceiling @2500mm high.

Hexagon shaped(258x290mm) Ceramic wall tiles to Architect's approval.

Mirror @1200 mm high to Architect's approval.

Handwash soap dispenser @ 1200mm high to Architect's approval.

WHB with all accessories to Architect's approval.

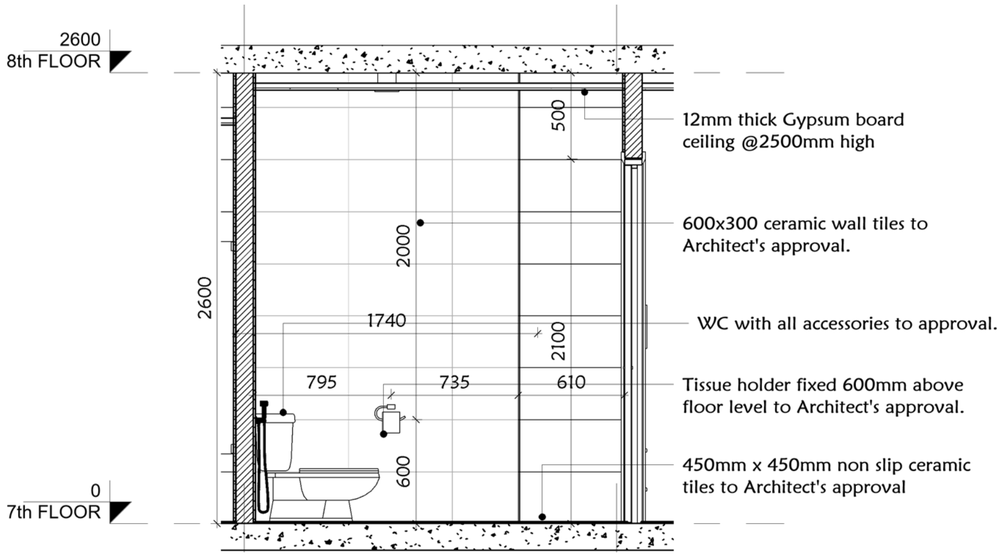
Bidet spray to Architetc's approval.

WC with all accessories to approval.

Tissue holder fixed 600mm above floor level to Architect's approval.

450mm x 450mm non slip ceramic tiles to Architect's approval

L_52. ELEVATION W1;
1:25.



12mm thick Gypsum board ceiling @2500mm high

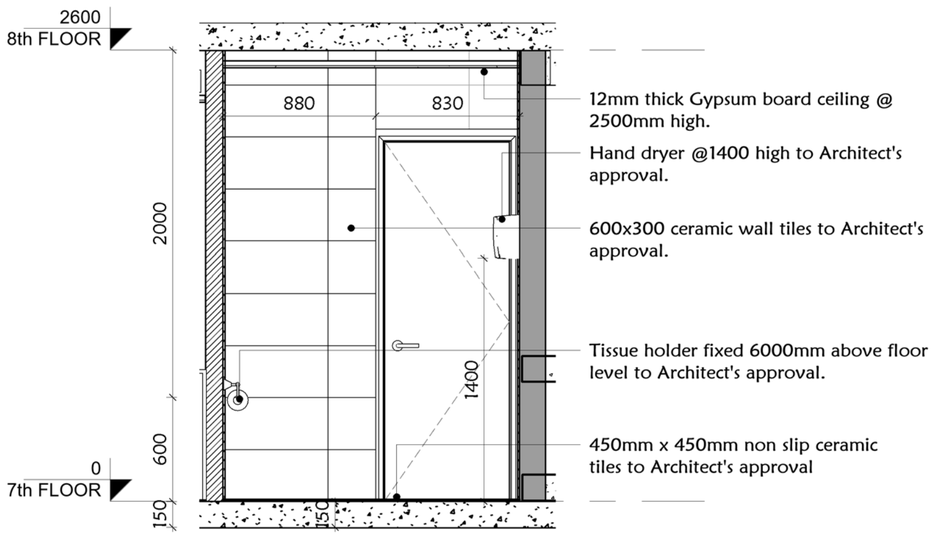
600x300 ceramic wall tiles to Architect's approval.

WC with all accessories to approval.

Tissue holder fixed 600mm above floor level to Architect's approval.

450mm x 450mm non slip ceramic tiles to Architect's approval

L_53. ELEVATION W2;
1:25.



12mm thick Gypsum board ceiling @ 2500mm high.

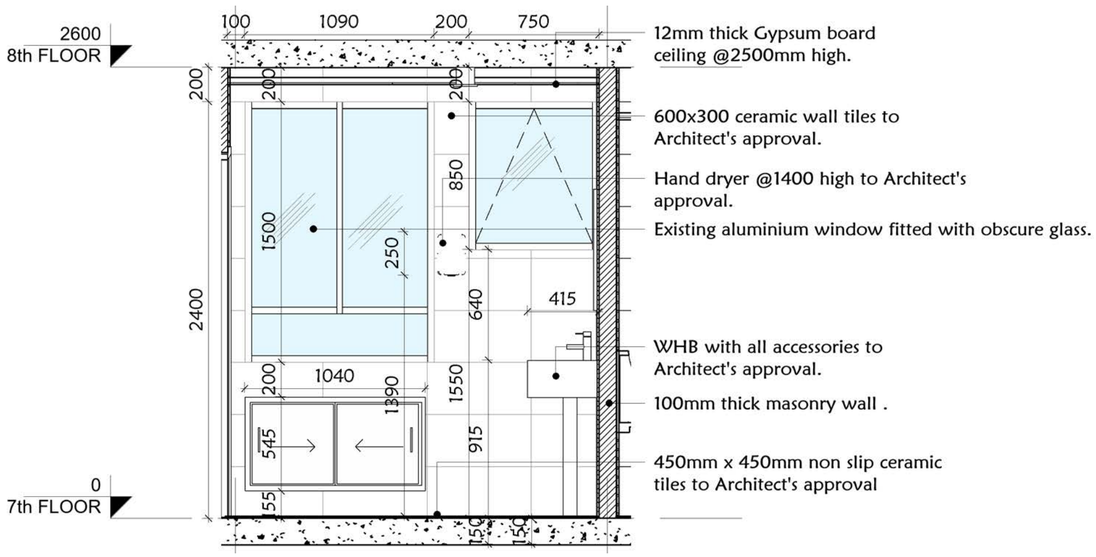
Hand dryer @1400 high to Architect's approval.

600x300 ceramic wall tiles to Architect's approval.

Tissue holder fixed 6000mm above floor level to Architect's approval.

450mm x 450mm non slip ceramic tiles to Architect's approval

L_54. ELEVATION W3;
1:25.



12mm thick Gypsum board ceiling @2500mm high.

600x300 ceramic wall tiles to Architect's approval.

Hand dryer @1400 high to Architect's approval.

Existing aluminium window fitted with obscure glass.

WHB with all accessories to Architect's approval.

100mm thick masonry wall .

450mm x 450mm non slip ceramic tiles to Architect's approval

L_55. ELEVATION W4;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

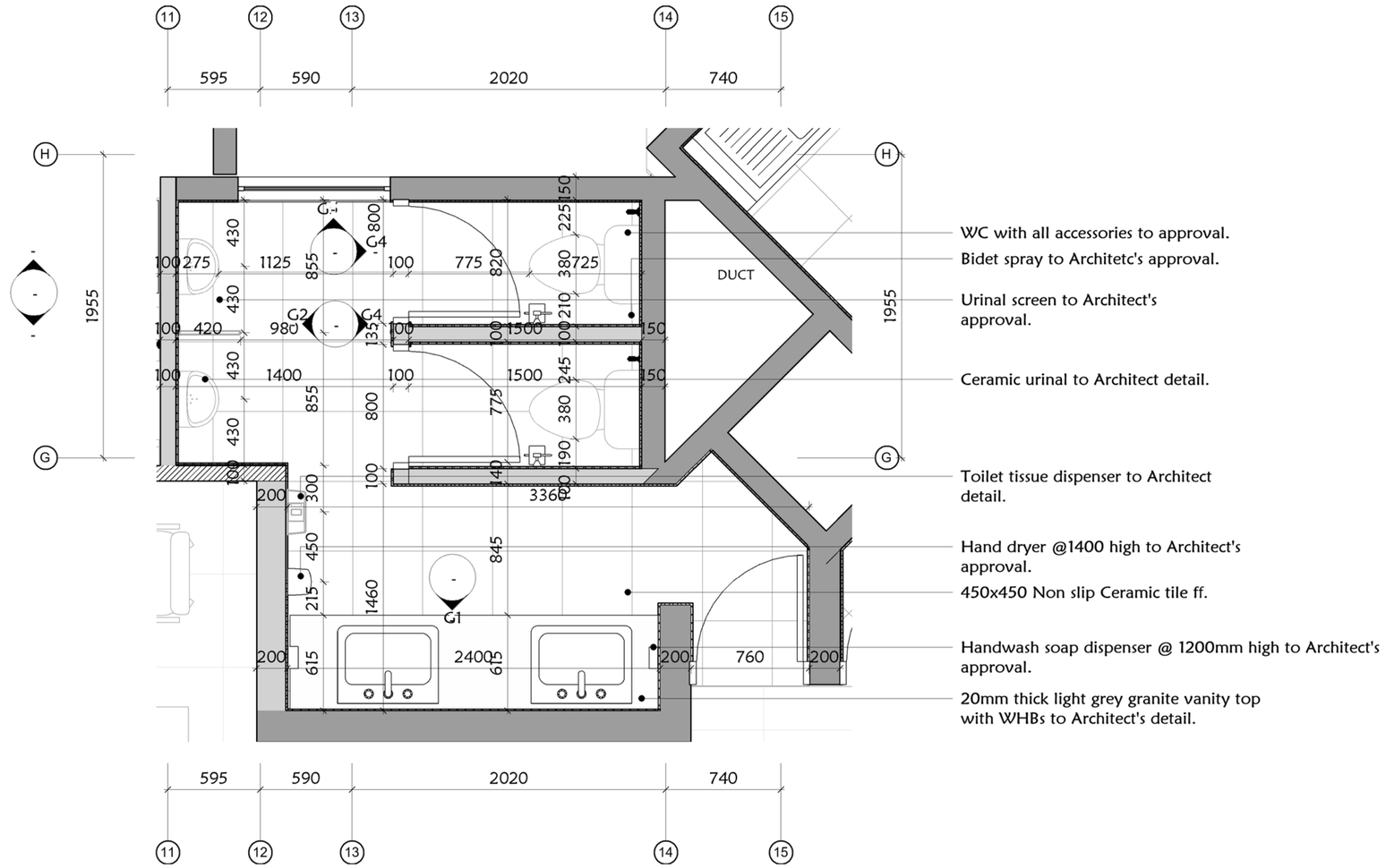
Client's signature:.....

Subject:

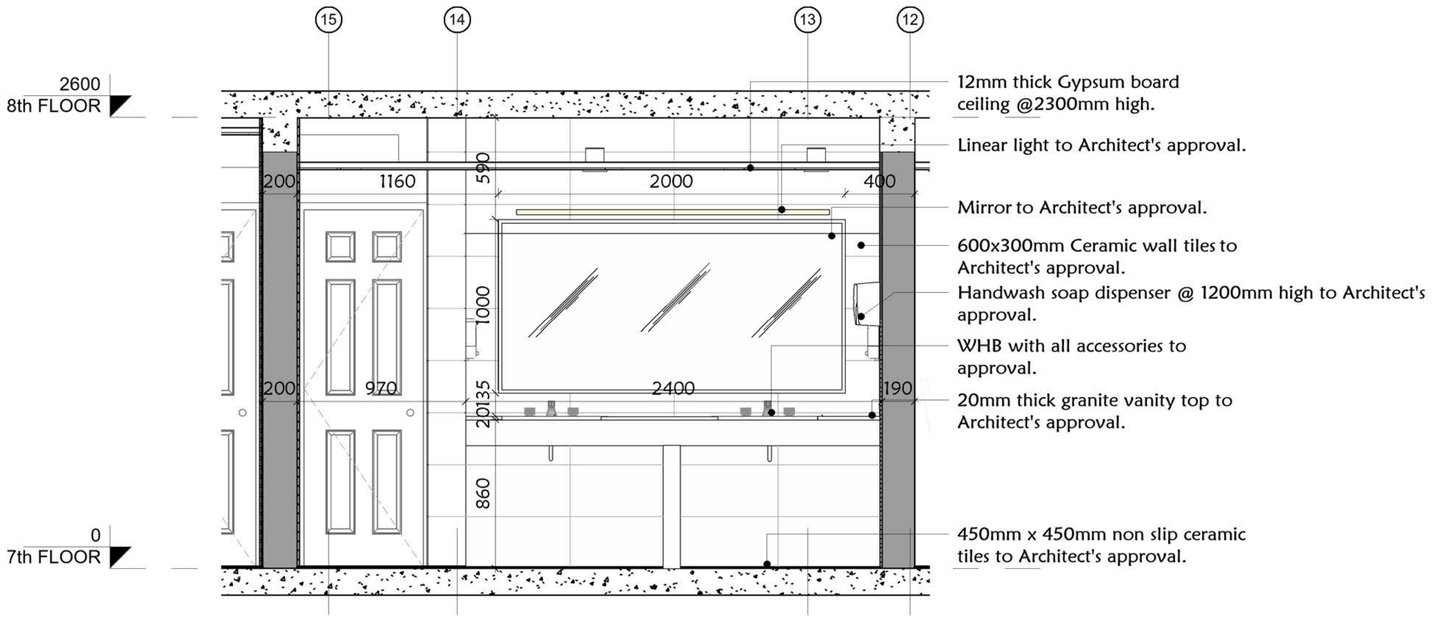
Title:

Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 21
Drg No:	Revision No:
DATE; April. 2024.	



L_55. (11). GENTS WASHROOM;
1:25.



L_56. ELEVATION G1;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

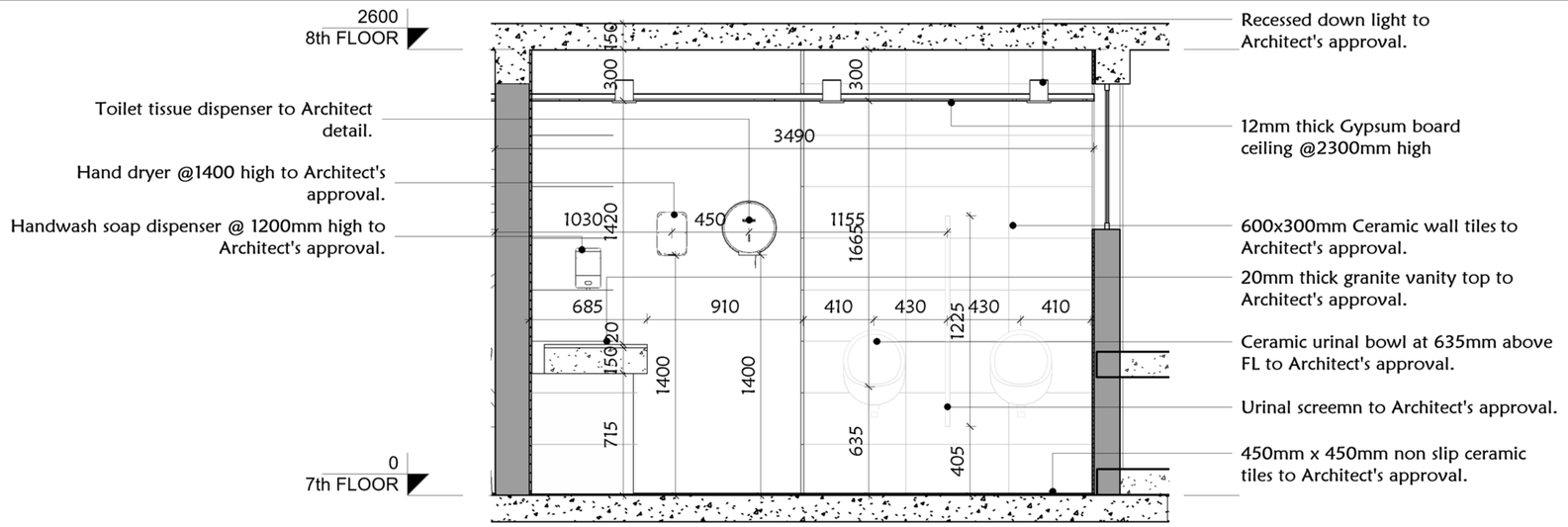
Client's signature:.....

Subject:

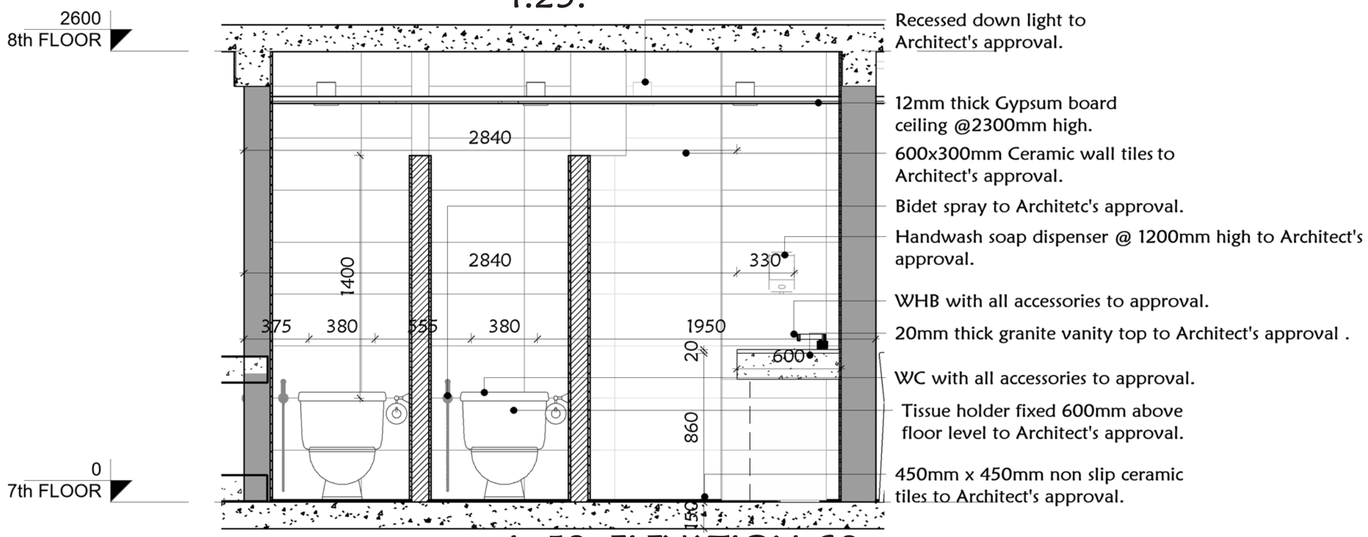
Title:

Consultant:

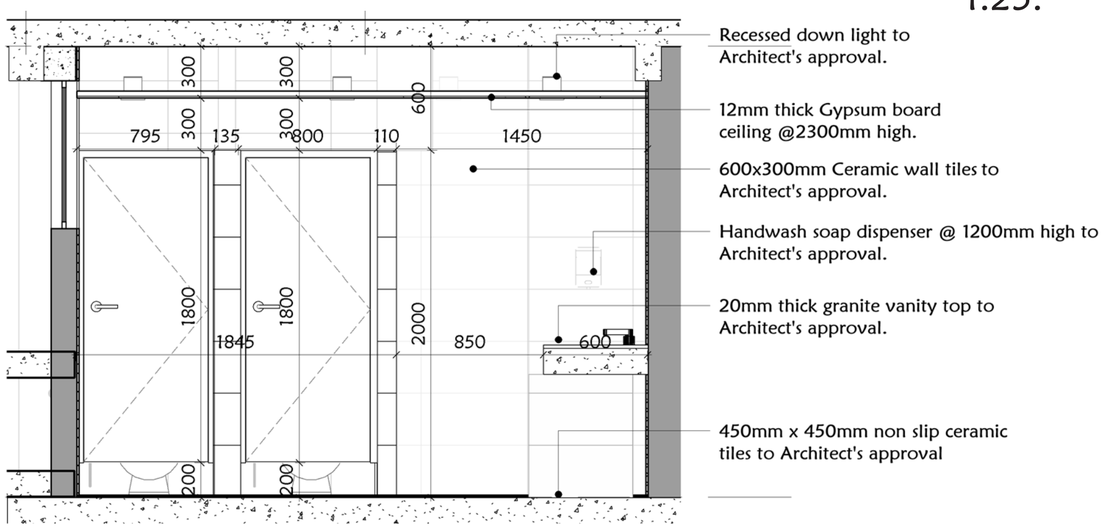
Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 22
Drg No:	Revision No:
DATE; April. 2024.	



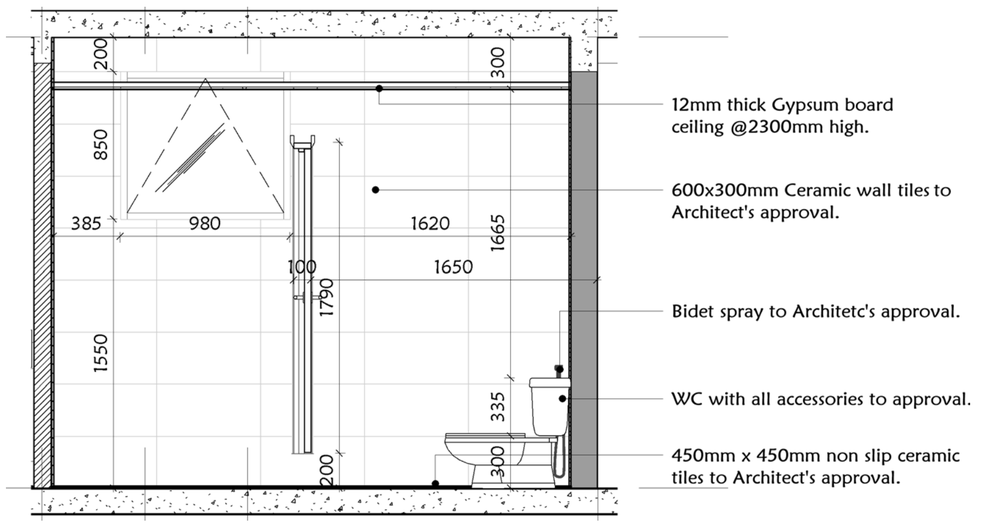
L_57. ELEVATION G2;
1:25.



L_58. ELEVATION G3;
1:25.



L_59. ELEVATION G4;
1:25.



L_60. ELEVATION G5;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

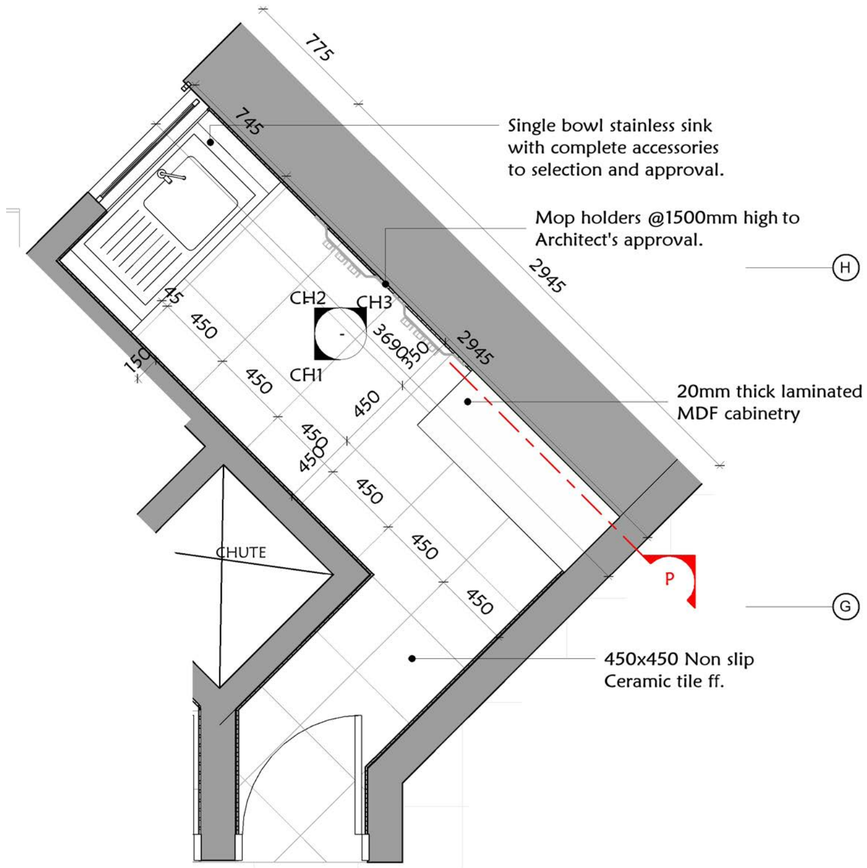
Client's signature:.....

Subject:

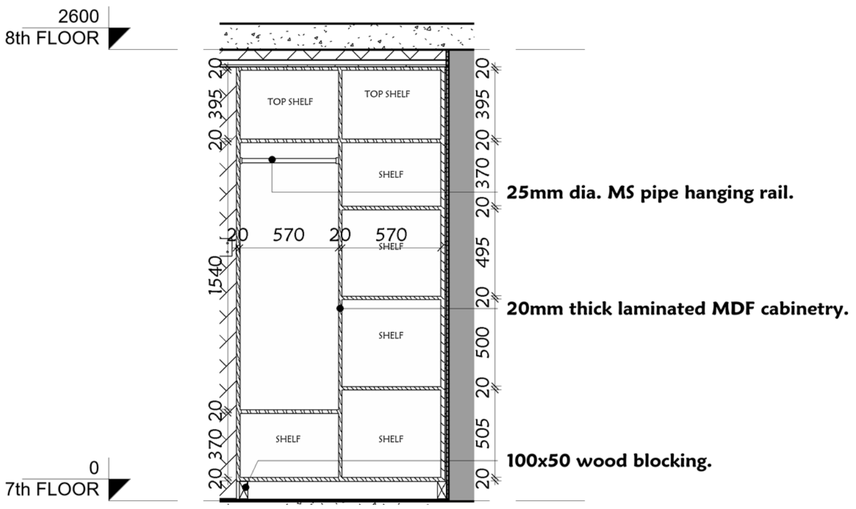
Title:

Consultant:

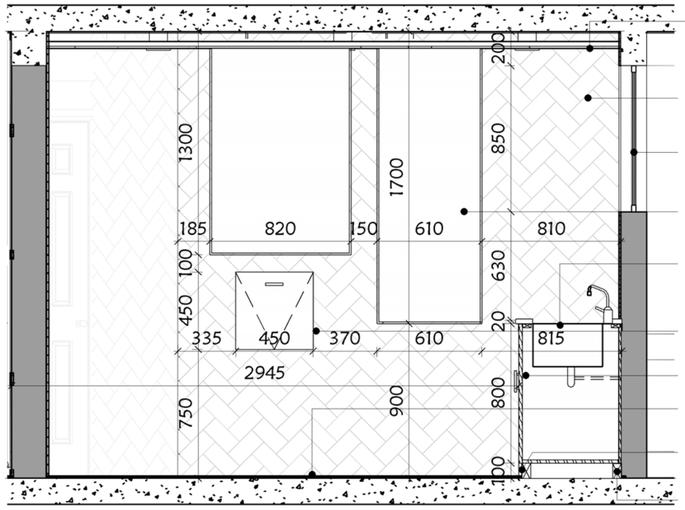
Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 23
Drg No:	Revision No:
DATE; April. 2024.	



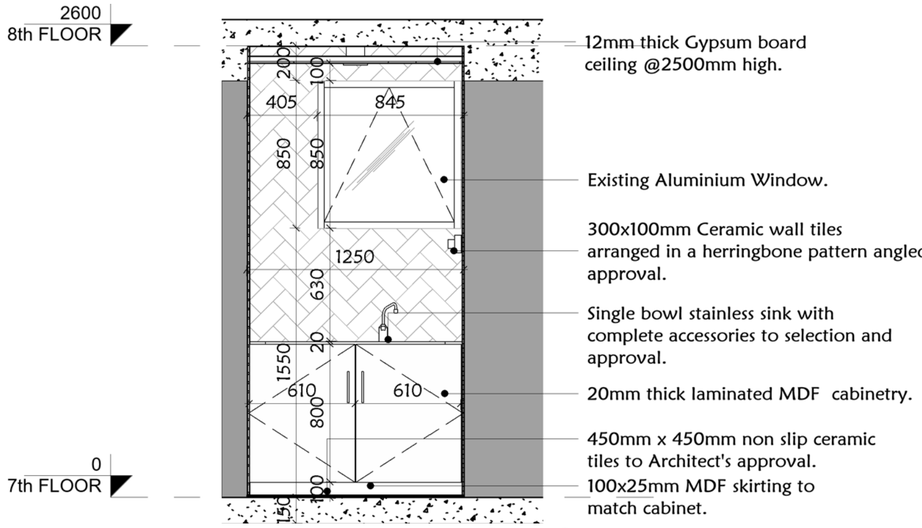
L_61. (12.) TRASH CHUTE;
1:25.



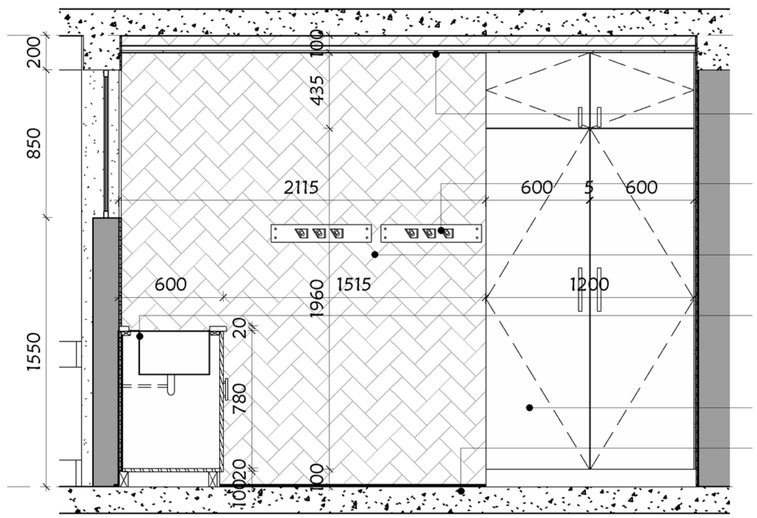
L_65. SECTION P;
1:25.



L_62. ELEVATION CH1;
1:25.



L_63. ELEVATION CH2;
1:25.



L_64. ELEVATION CH3;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

Client's signature:.....

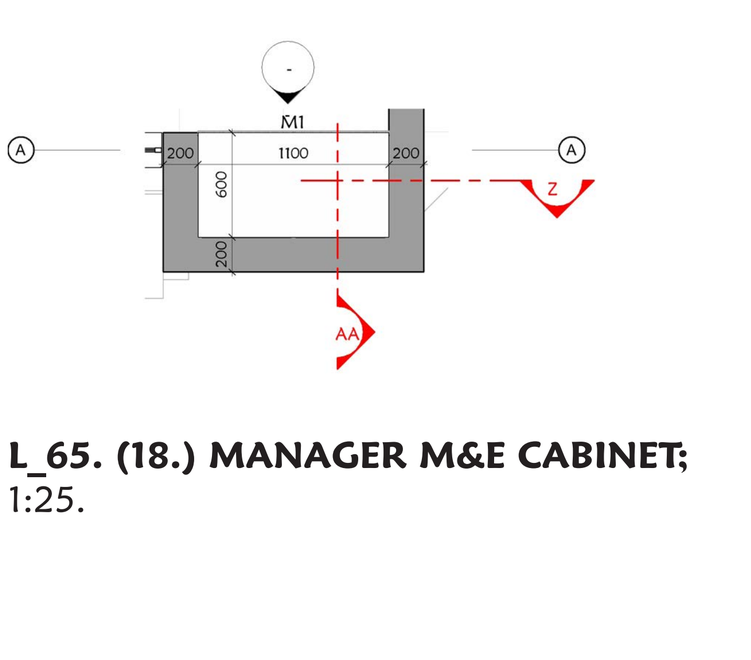
ct:

ltant:

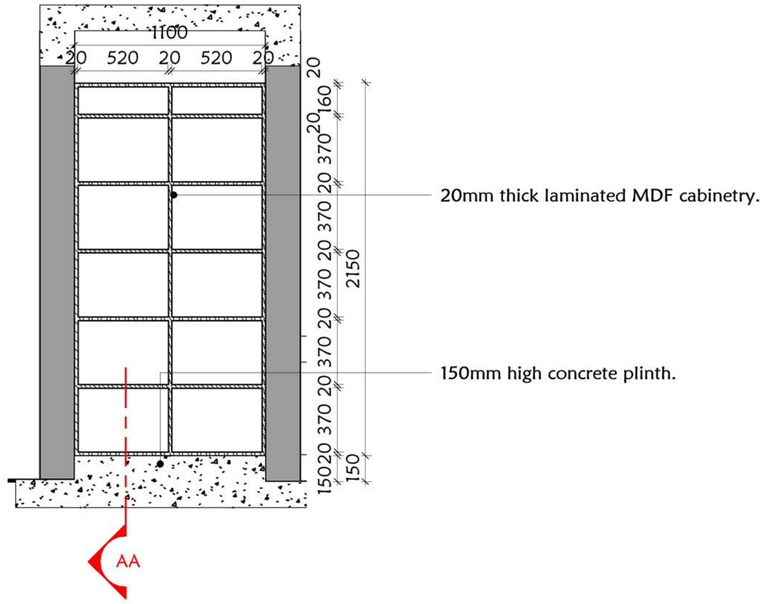
by:	Checked by: B.O.
@ A2.	Page No.; 24
:	Revision No:

DATE:
April. 2024.

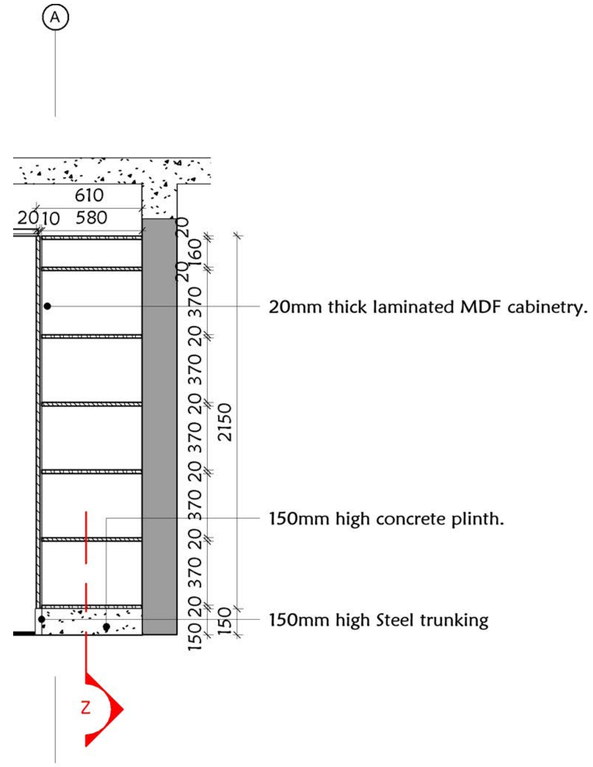
L_65. (18.) MANAGER M&E CABINET;
1:25.



L_66. ELEVATION M1.
1:25.



L_67. SECTION Z.
1:25.



L_68. SECTION AA.
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

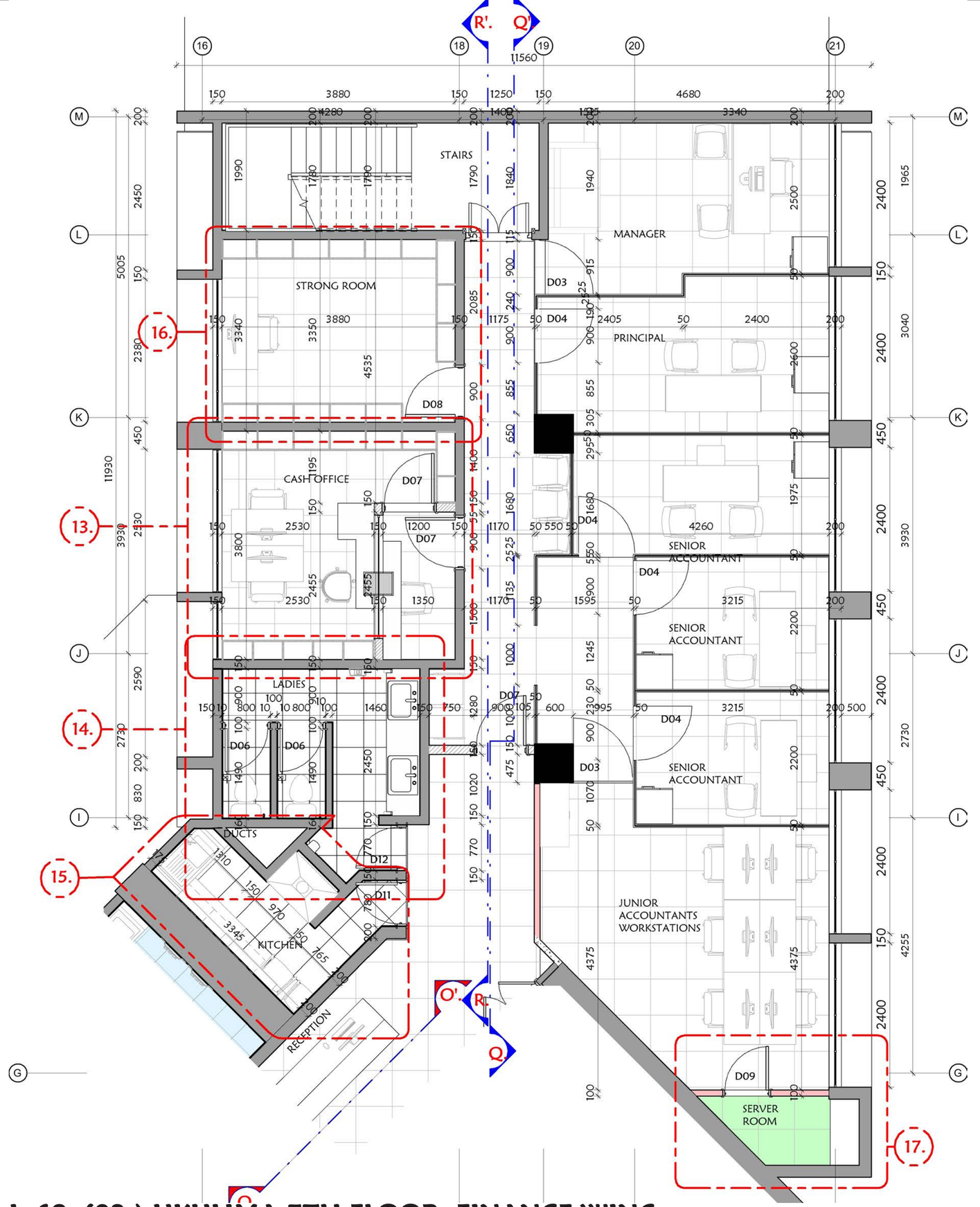
Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)
Client's signature:.....

Subject:

Title:

Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 25
Drg No:	Revision No:
DATE; April. 2024.	



L_69. (02.) UKULIMA 7TH FLOOR ,FINANCE WING;

1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:

PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:

NARIOBI COUNTY.

Client:

NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

Client's signature:.....

Subject:

Title:

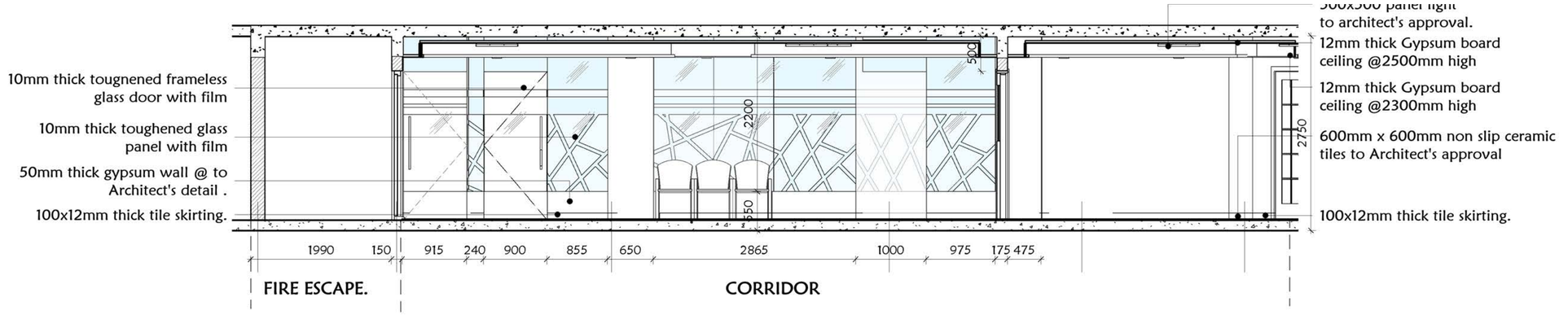
Consultant:

Drawn by:	Checked by:
W.O	B.O.

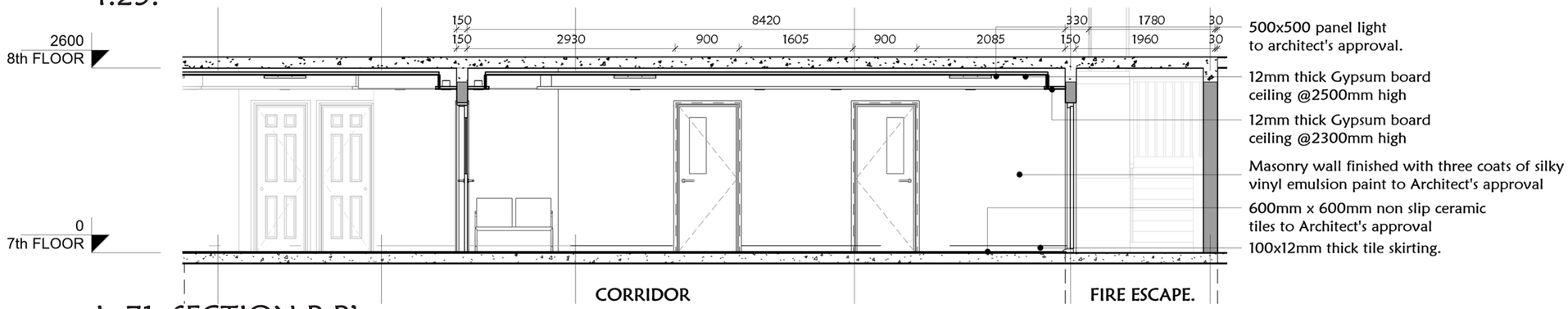
Scale;	Page No.;
1: 25 @ A2.	26

Drg No:	Revision No:	

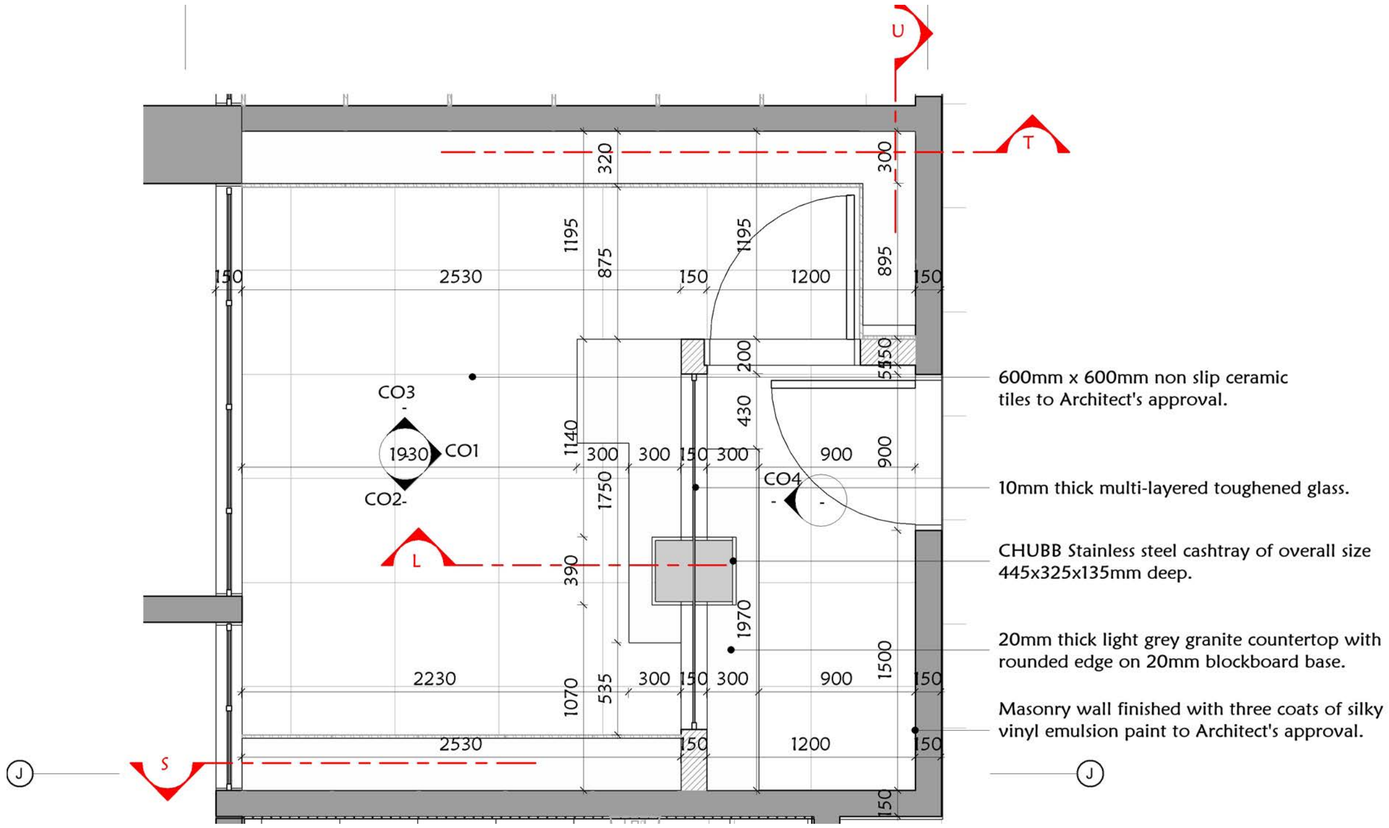
DATE;
April. 2024.



L_70. SECTION Q-Q';
1:25.



L_71. SECTION R-R';
1:25.



L_72. (13.) CASH OFFICE;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

Client's signature:.....

Subject:

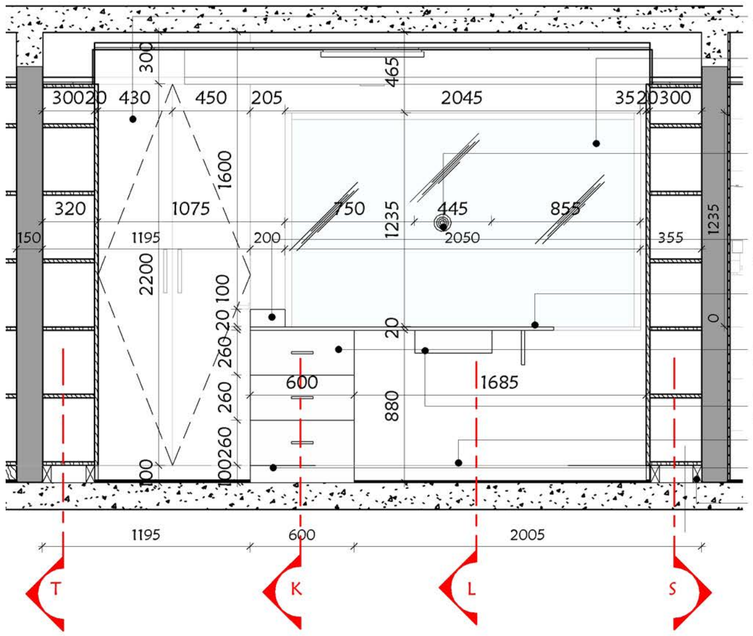
Title:

Consultant:

Drawn by:	Checked by:
W.O	B.O.

Scale;	Page No.;
1: 25 @ A2.	27

Drg No:	Revision No:	
DATE; April. 2024.		



20mm thick laminated MDF cabinetry.

10mm thick multi-layered toughened glass.

100 dia. natural voice speak through @ 1500 high from

20mm thick x 100mm high light grey granite backspalsh .

20mm thick light grey granite countertop with rounded edge on 20mm blockboard base.

20mm thick MDF drawer and 6mm plywood base complete with all accessories. to Architect's approval.

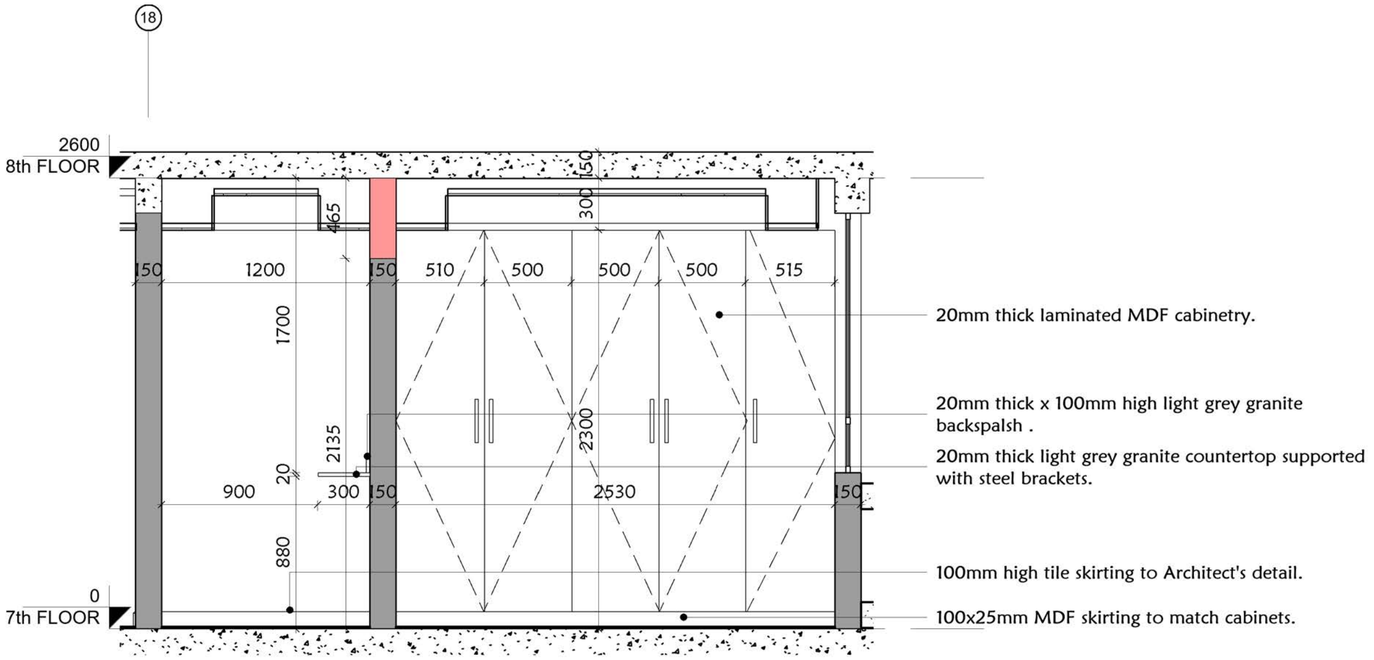
CHUBB Stainless steel cashtray of overall size 445x325x135mm deep.

100mm high tile skirting to Architect's detail.

100x25mm MDF skirting to match drawers.

100x50 wood blocking.

L_73. ELEVATION CO1;
1:25.



20mm thick laminated MDF cabinetry.

20mm thick x 100mm high light grey granite backspalsh .

20mm thick light grey granite countertop supported with steel brackets.

100mm high tile skirting to Architect's detail.

100x25mm MDF skirting to match cabinets.

L_74. ELEVATION CO2;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

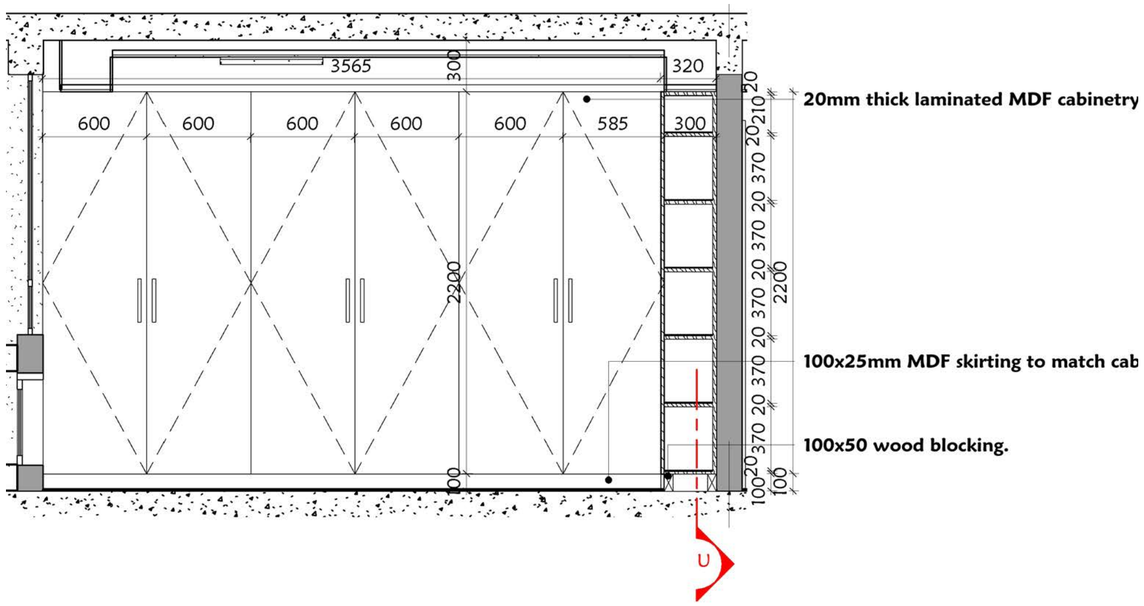
Client's signature:.....

Subject:

Title:

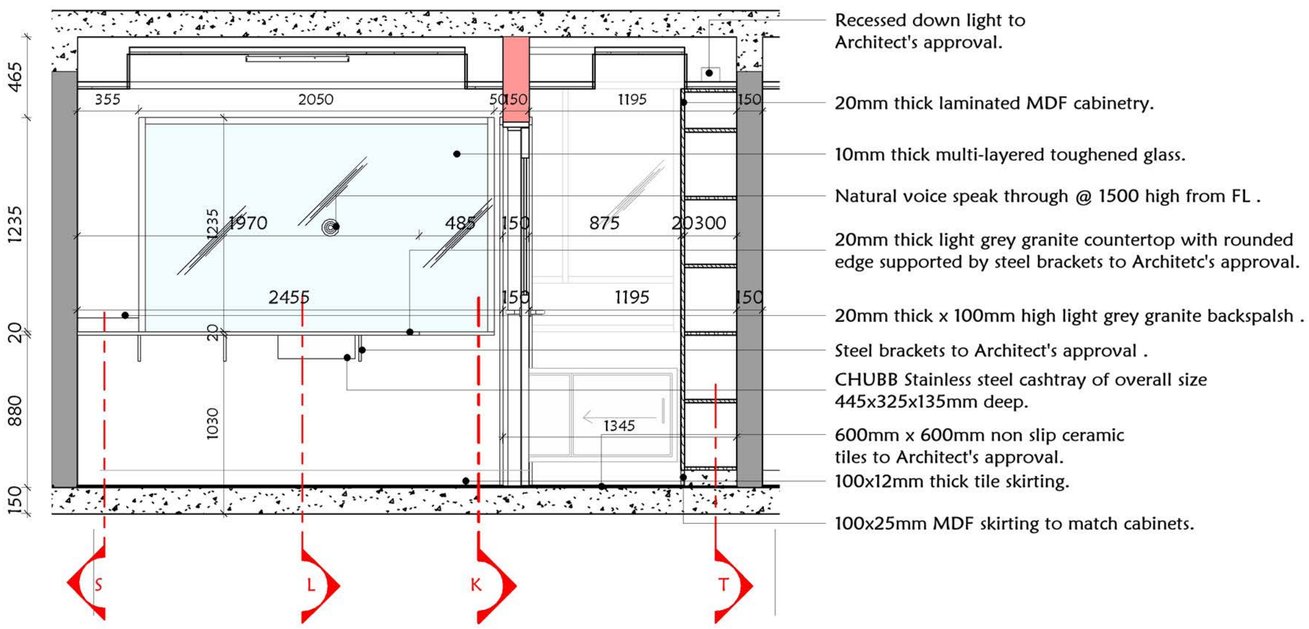
Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 28
Drg No:	Revision No:
DATE; April. 2024.	



L_75. ELEVATION CO3;
1:25.

J K



L_76. ELEVATION CO4;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

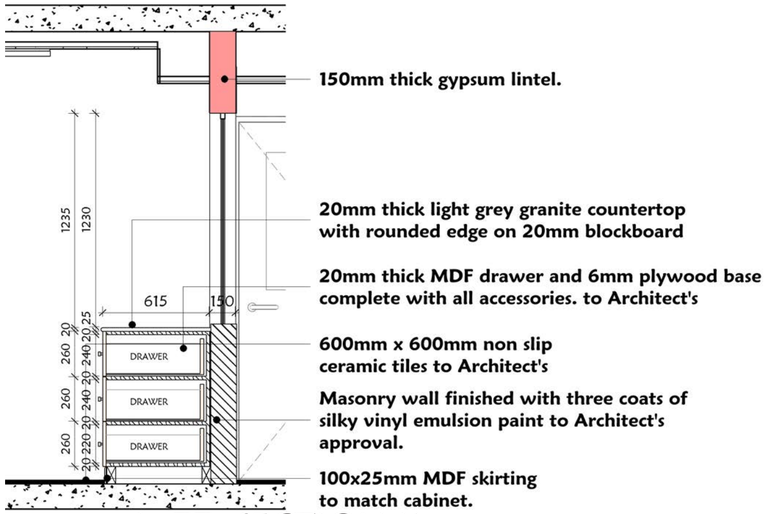
Client's signature:.....

Subject:

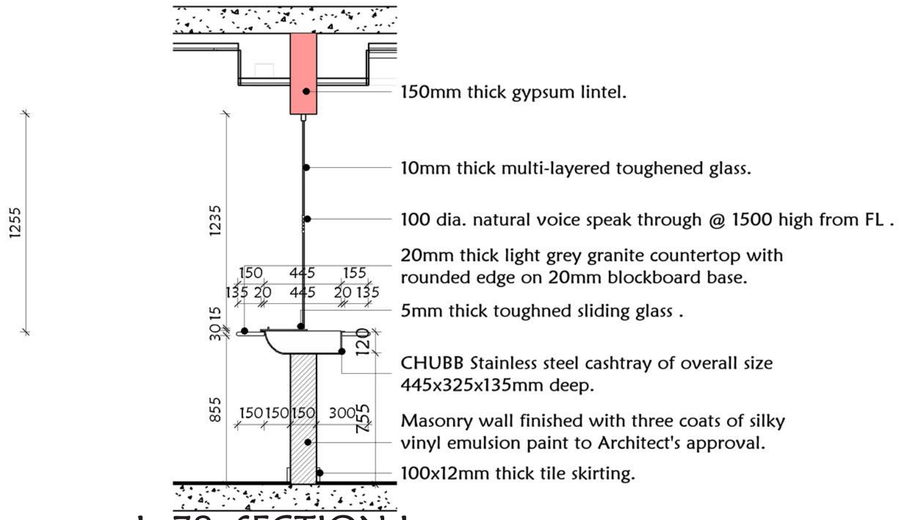
Title:

Consultant:

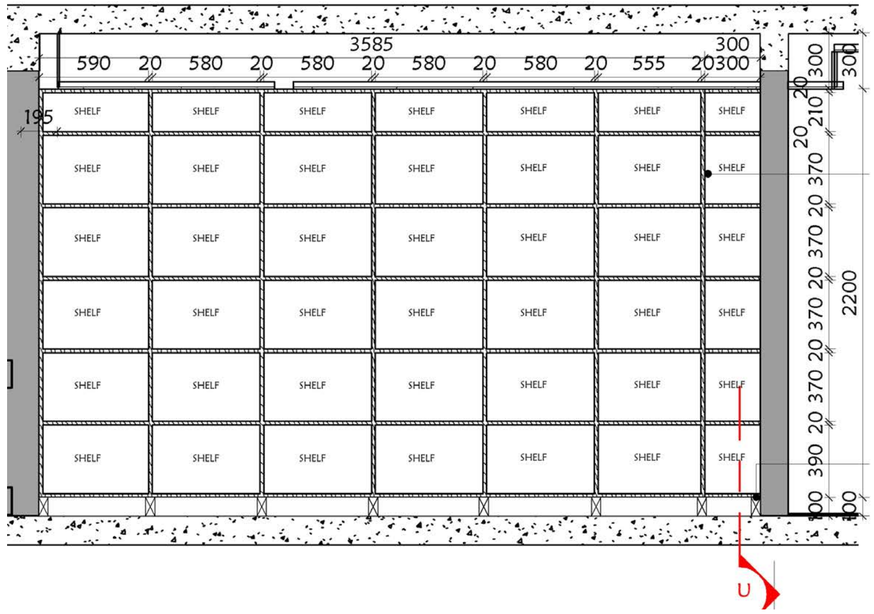
Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 29
Drg No:	Revision No:
DATE; April. 2024.	



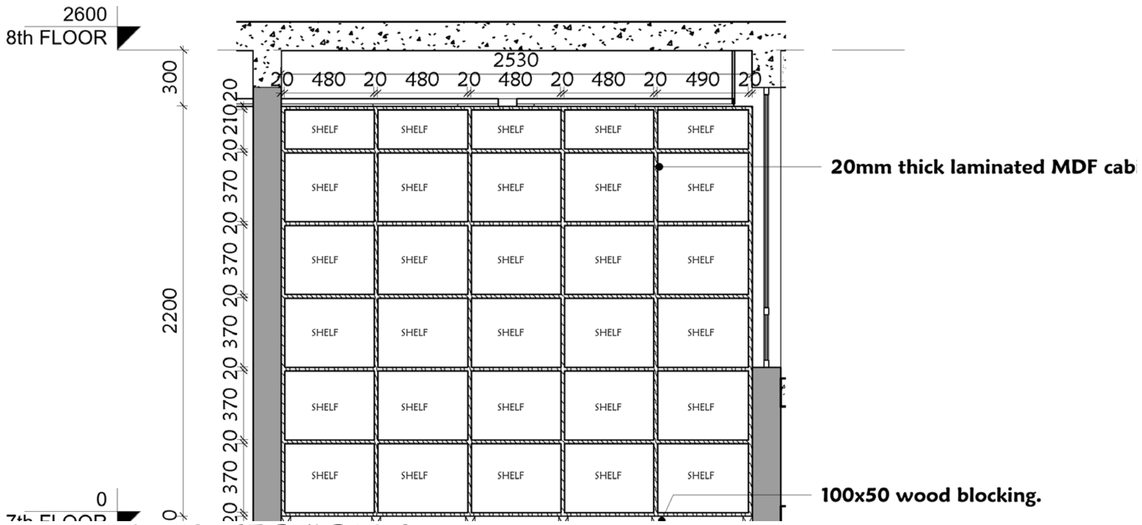
L_77. SECTION K;
1:25.



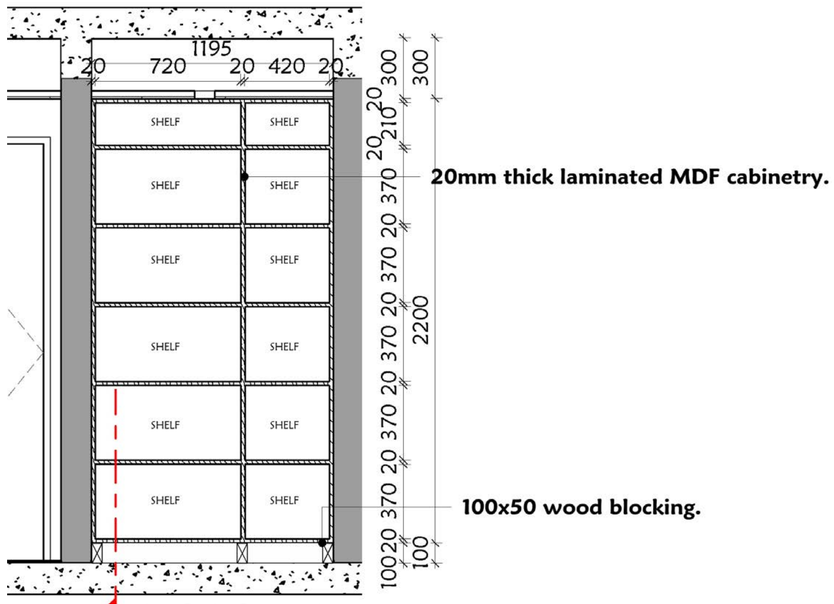
L_78. SECTION L;
1:25.



L_80. SECTION T;
1:25.



L_79. SECTION S;
1:25.



L_81. SECTION T;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

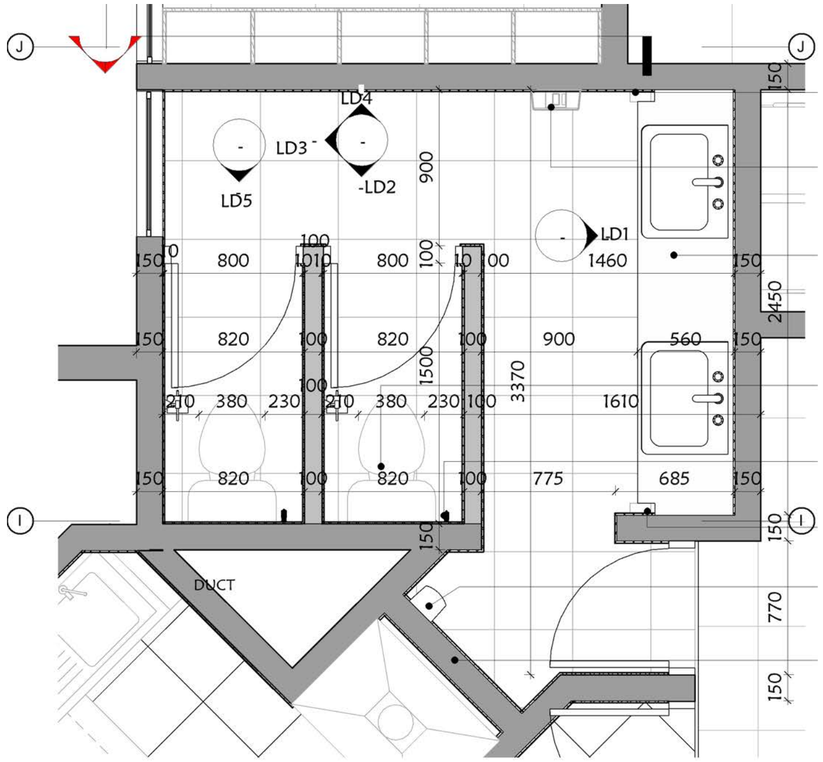
Client's signature:.....

Subject:

Title:

Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 30
Drg No:	Revision No:
DATE; April. 2024.	



Handwash soap dispenser @ 1200mm high to Architect's approval.

Toilet tissue dispenser to Architect detail.

20mm thick light grey granite vanity top with WHBs to Architect's detail.

WC with all accessories to approval.

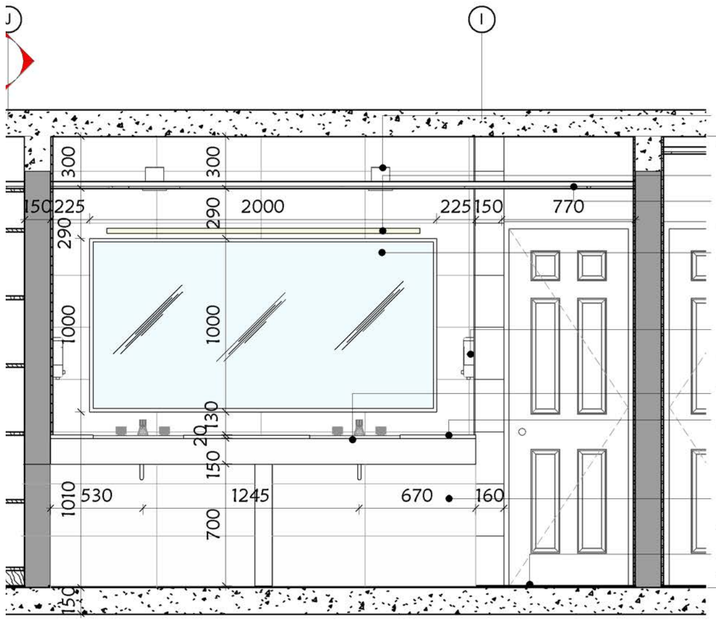
Bidet spray to Architetc's approval.

Handwash soap dispenser @ 1200mm high to Architect's approval.

Hand dryer @1400 high to Architect's approval.

450x450 Non slip Ceramic tile ff.

L_82. (14). LADIES WASHROOM;
1:25.



Recessed down light to Architect's approval.

Linear light to Architect's approval.

12mm thick Gypsum board ceiling @2300mm high

Mirror to Architect's approval.

Handwash soap dispenser @ 1200mm high to Architect's approval.

WHB with all accessories to Architect's approval.

20mm thick granite vanity top to Architect'sapproval .

600x300mm Ceramic wall tiles to Architect's approval.

450mm x 450mm non slip ceramic tiles to Architect's approval.

L_83. ELEVATION LD1;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

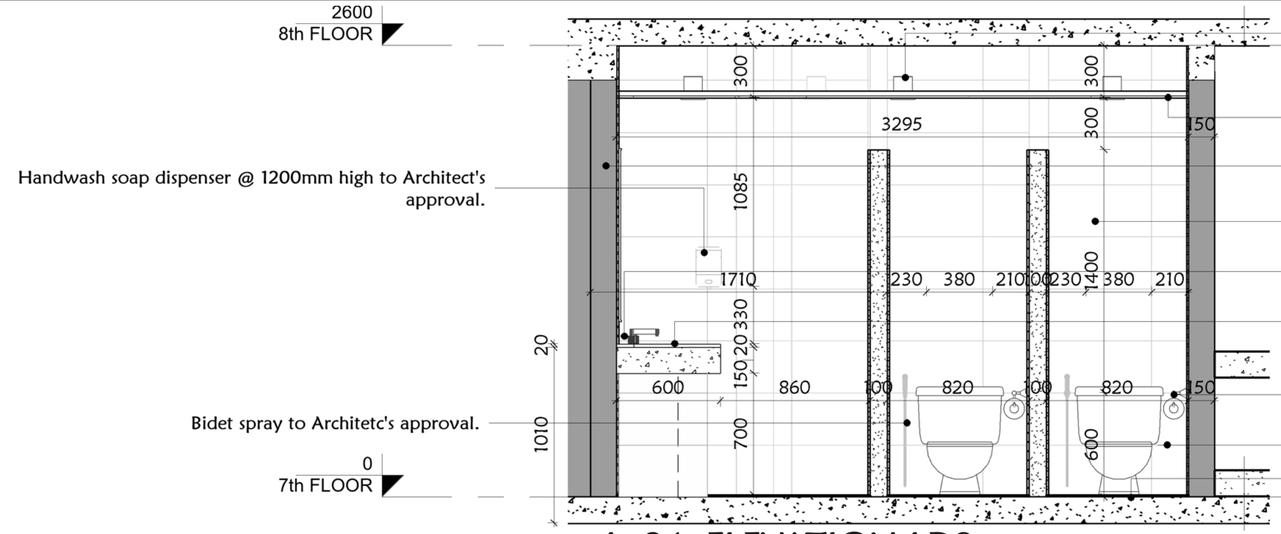
Client's signature:.....

Subject:

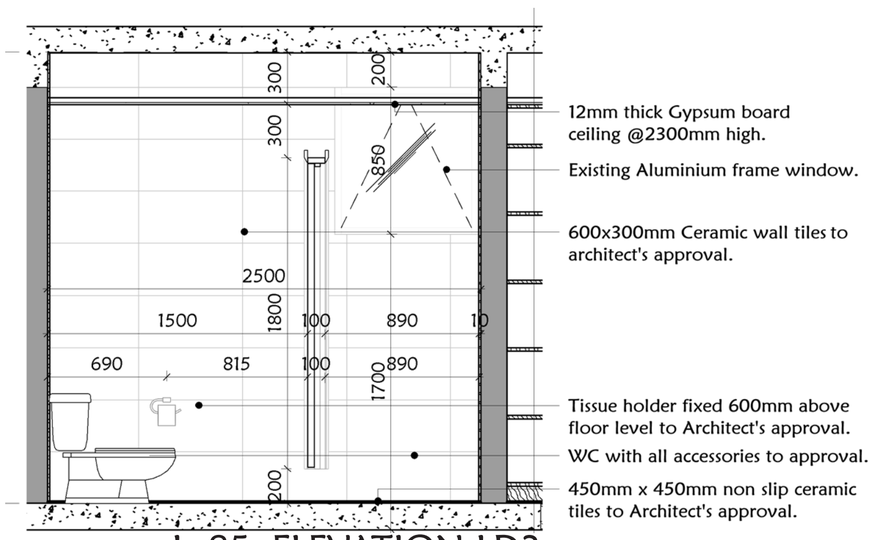
Title:

Consultant:

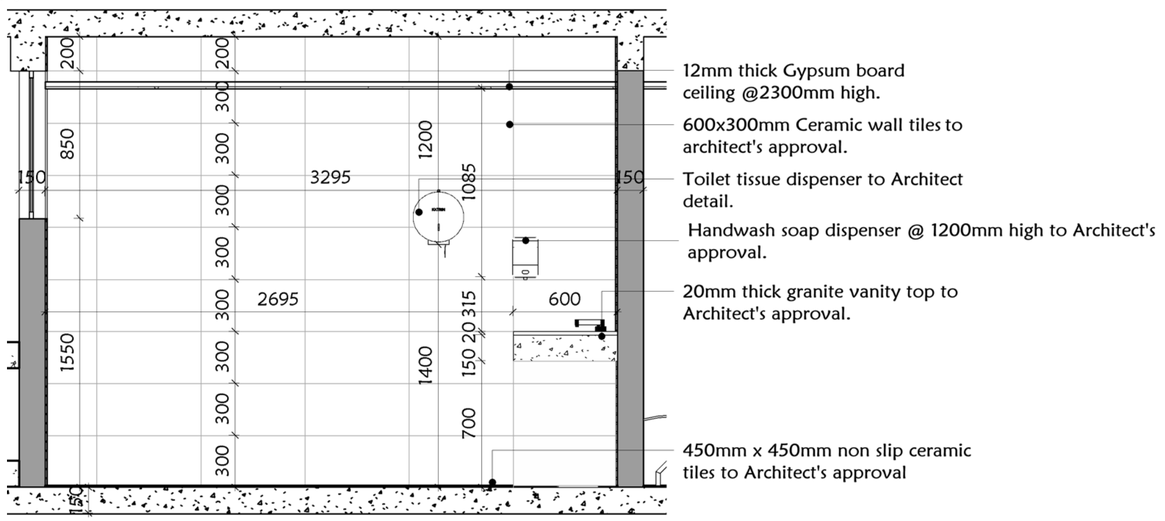
Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 31
Drg No:	Revision No:
DATE; April. 2024.	



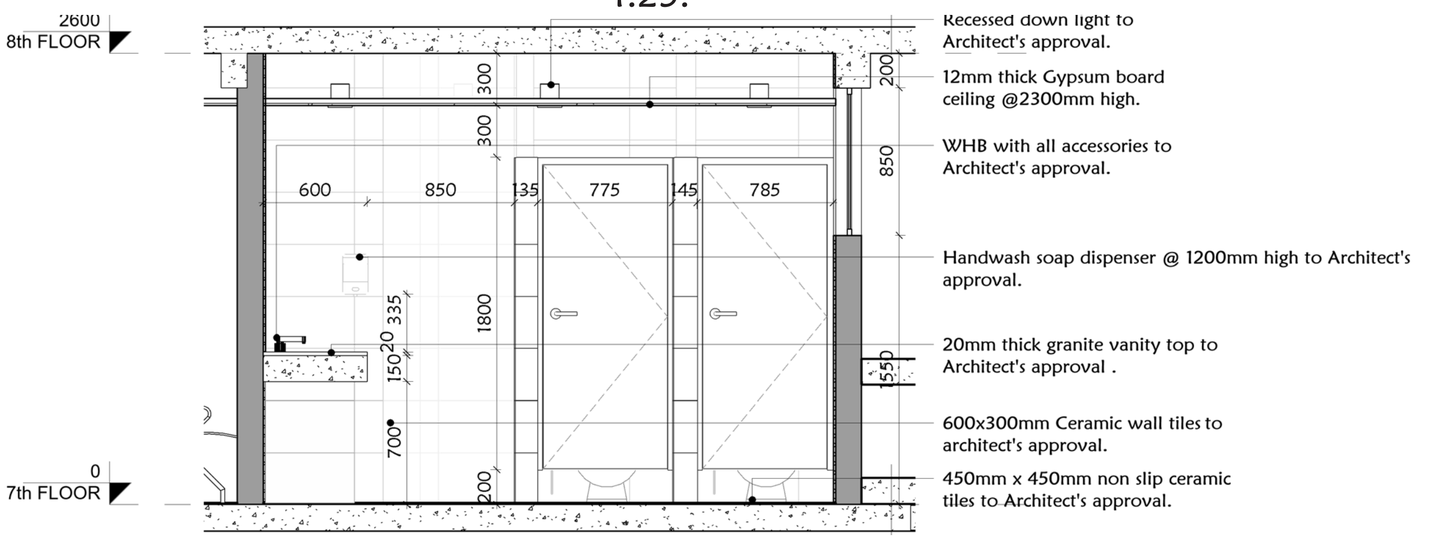
L_84. ELEVATION LD2;
1:25.



L_85. ELEVATION LD3;
1:25.



L_86. ELEVATION LD4;
1:25.



L_87. ELEVATION LD5;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

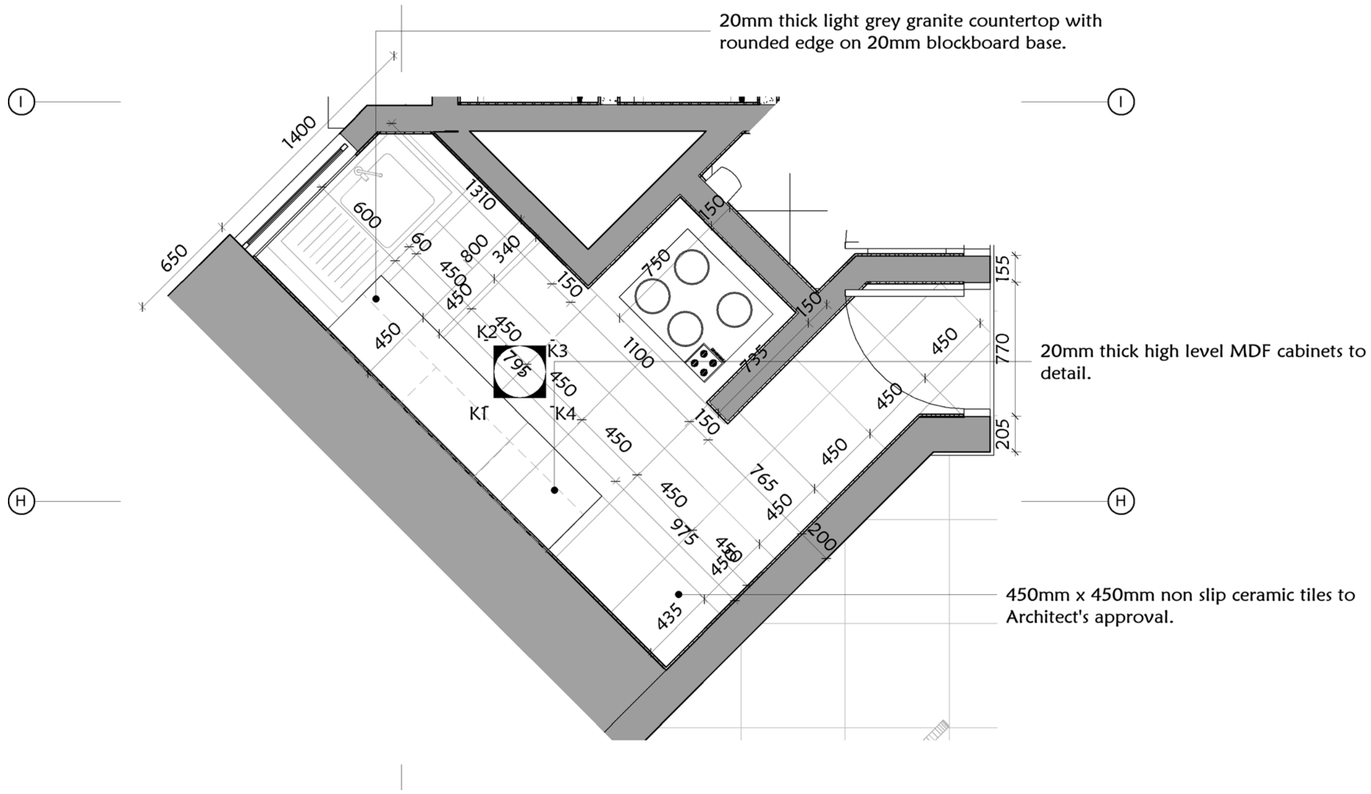
Client's signature:.....

Subject:

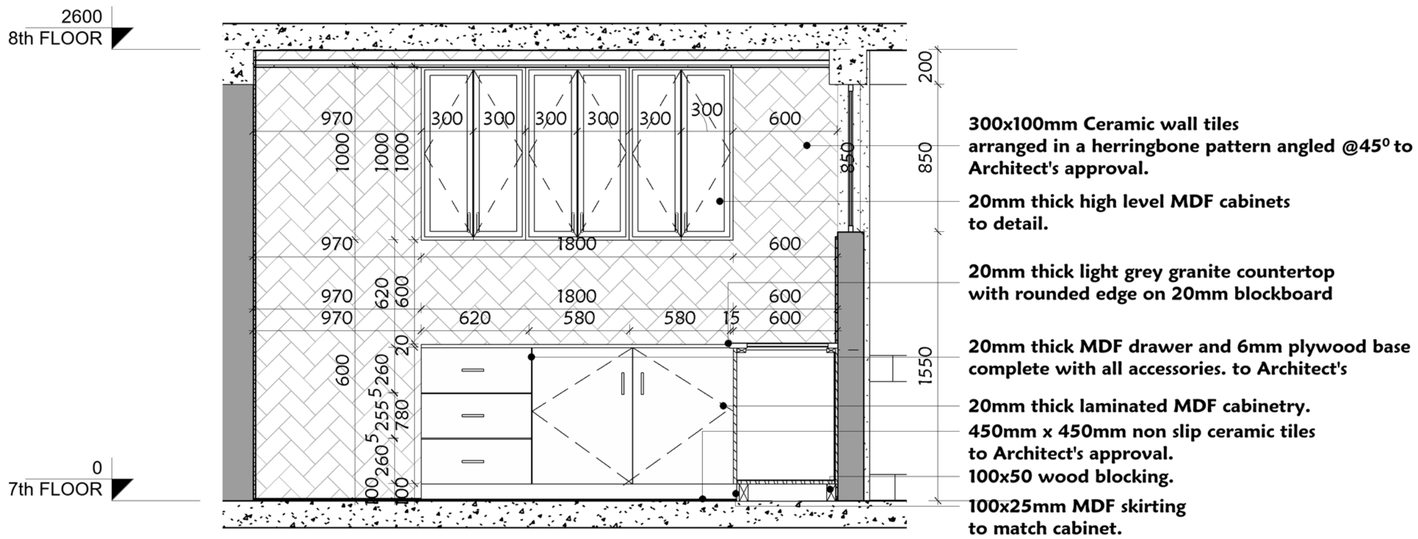
Title:

Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 32
Drg No:	Revision No:
DATE; April. 2024.	



L_88. (15.) KITCHEN;
1:25.



L_89. ELEVATION K1;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

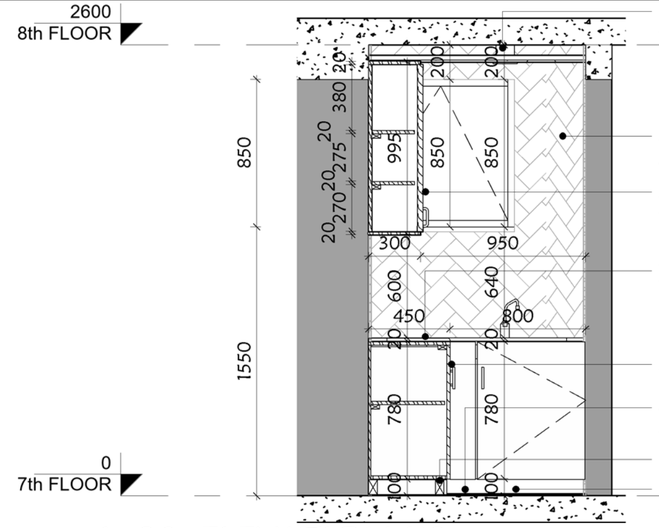
Client's signature:.....

Subject:

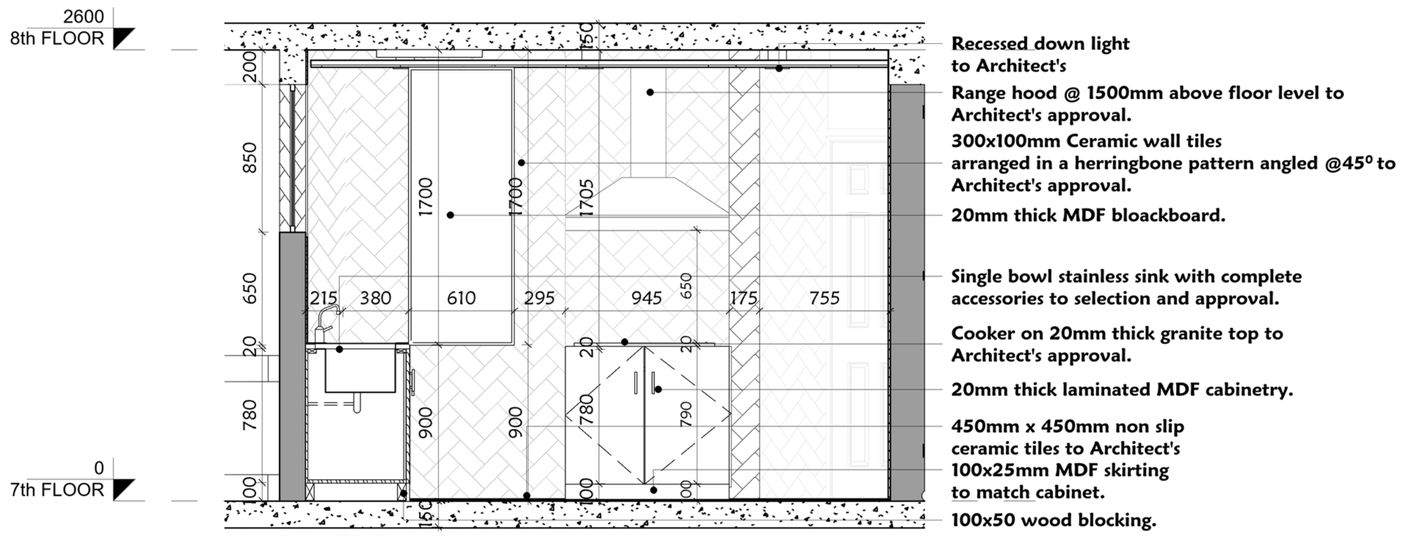
Title:

Consultant:

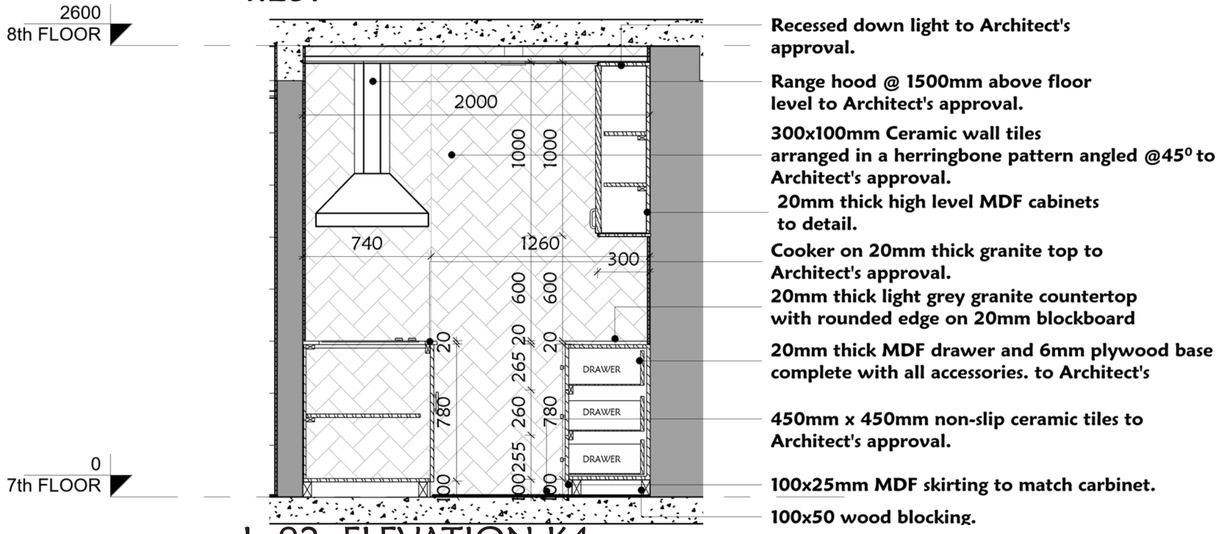
Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 33
Drg No:	Revision No:
DATE; April. 2024.	



L_90. ELEVATION K2;
1:25.



L_91. ELEVATION K3;
1:25.



L_92. ELEVATION K4;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

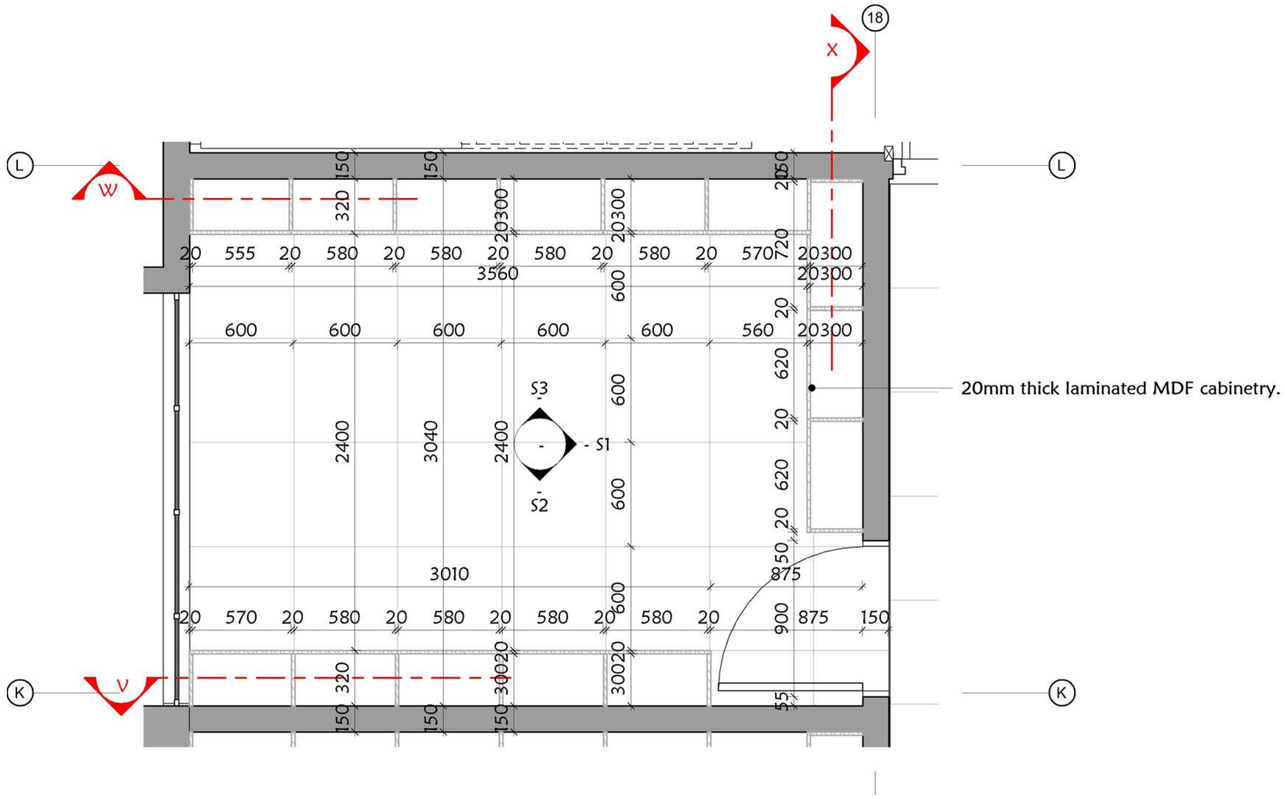
Client's signature:.....

Subject:

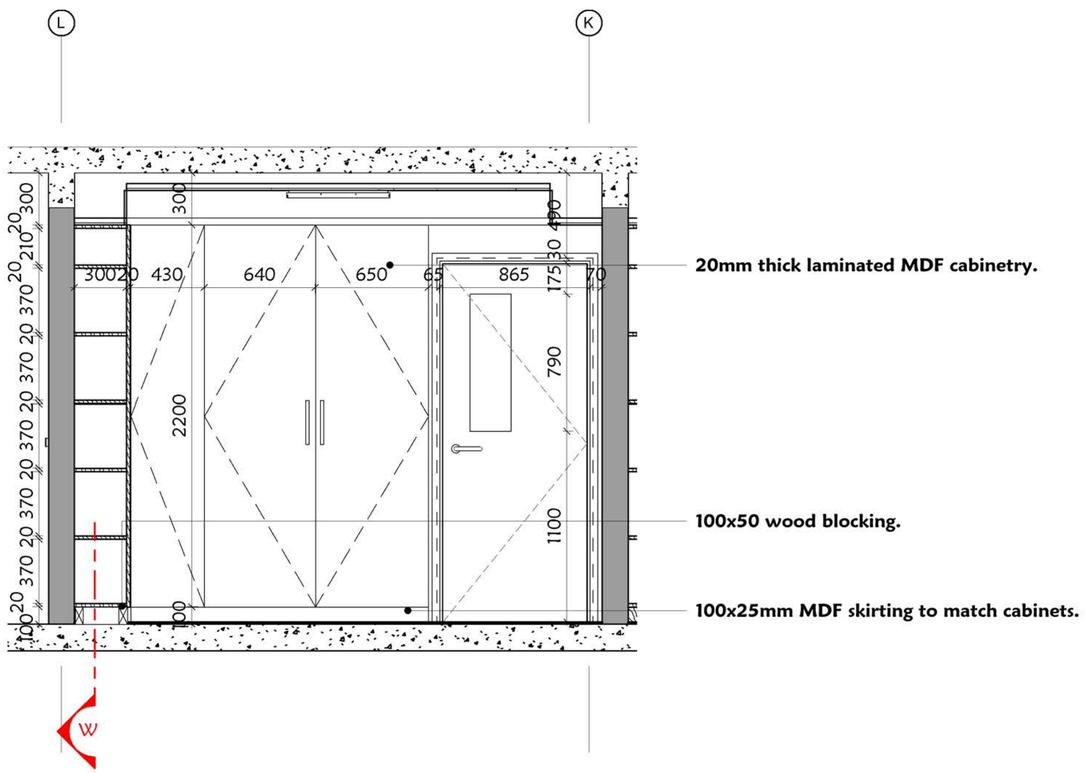
Title:

Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 34
Drg No:	Revision No:
DATE; April. 2024.	



L_93. (16.) STRONG ROOM;
1:25.



L_94. ELEVATION S1;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

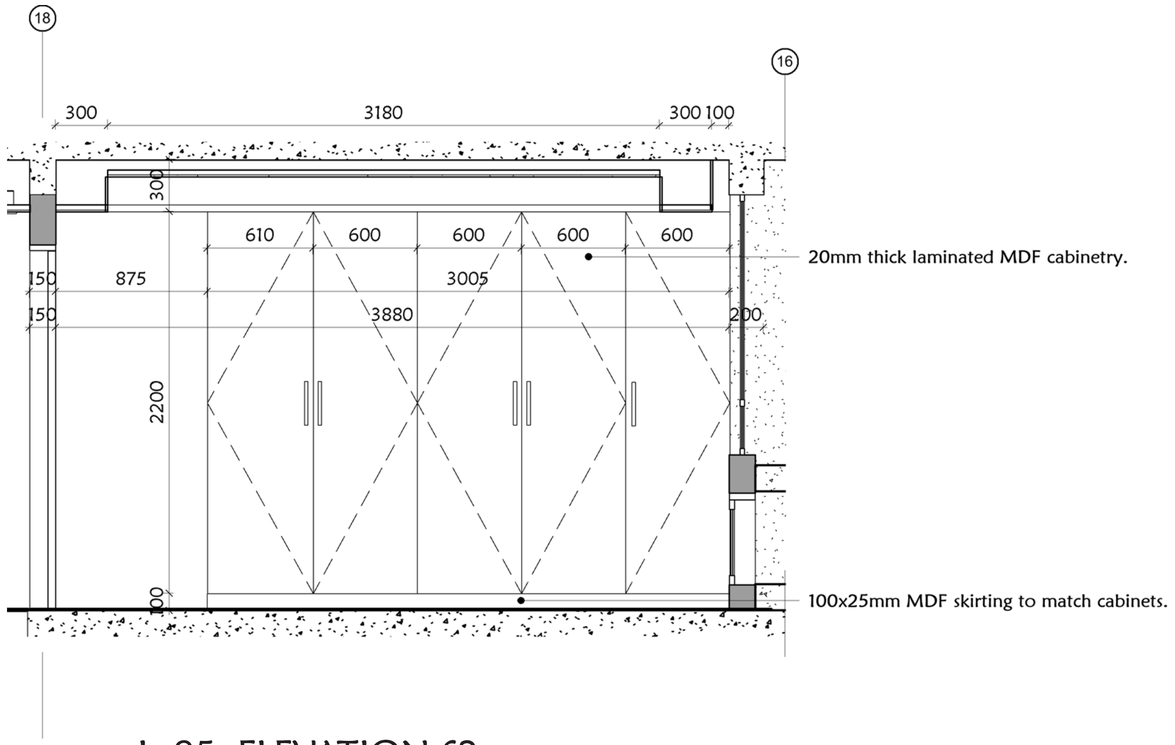
Client's signature:.....

Subject:

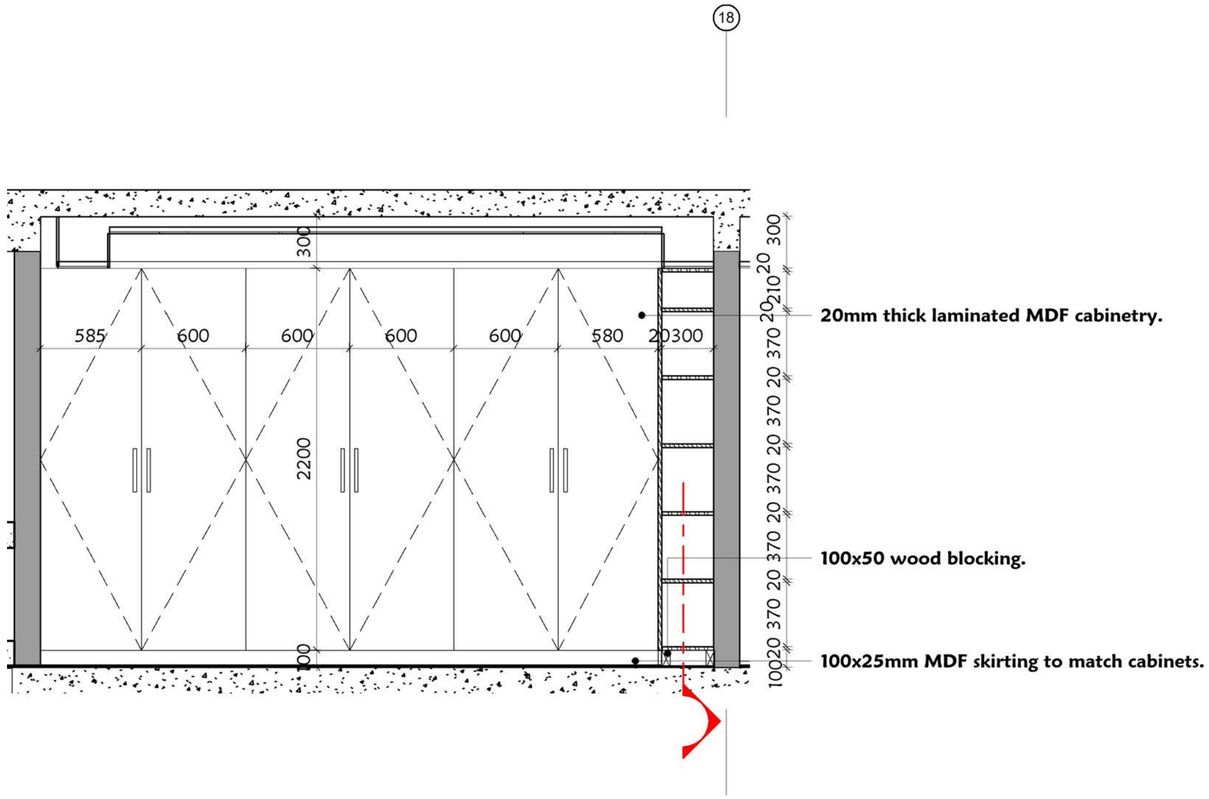
Title:

Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 35
Drg No:	Revision No:
DATE; April. 2024.	



L_95. ELEVATION S2;
1:25.



L_96. ELEVATION S3;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

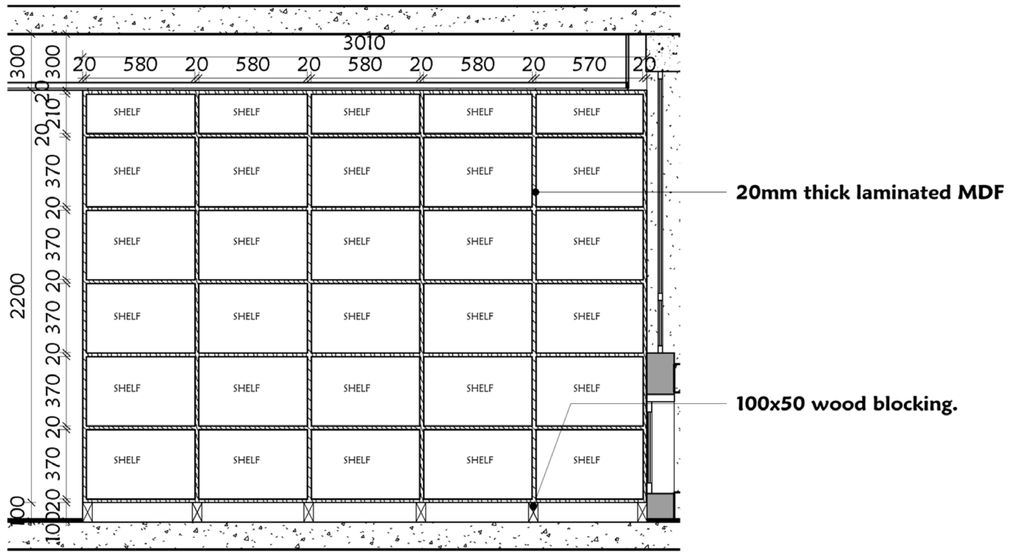
Client's signature:.....

Subject:

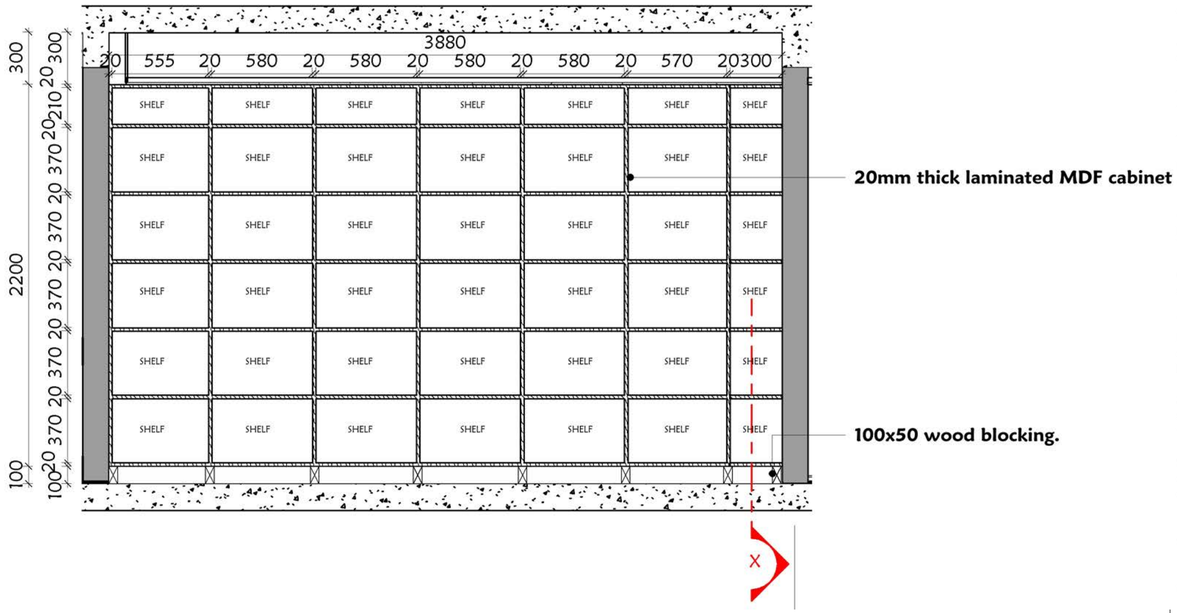
Title:

Consultant:

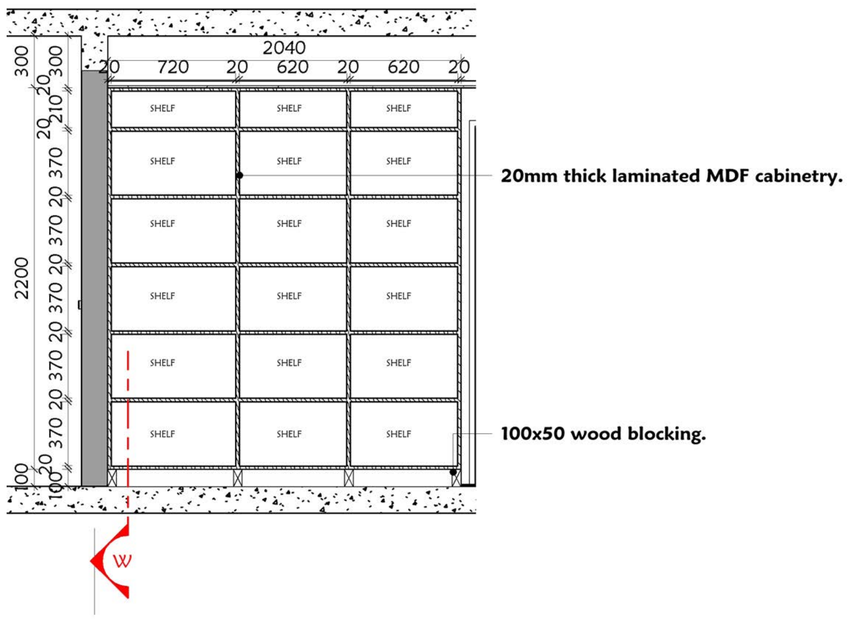
Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 36
Drg No:	Revision No:
DATE; April. 2024.	



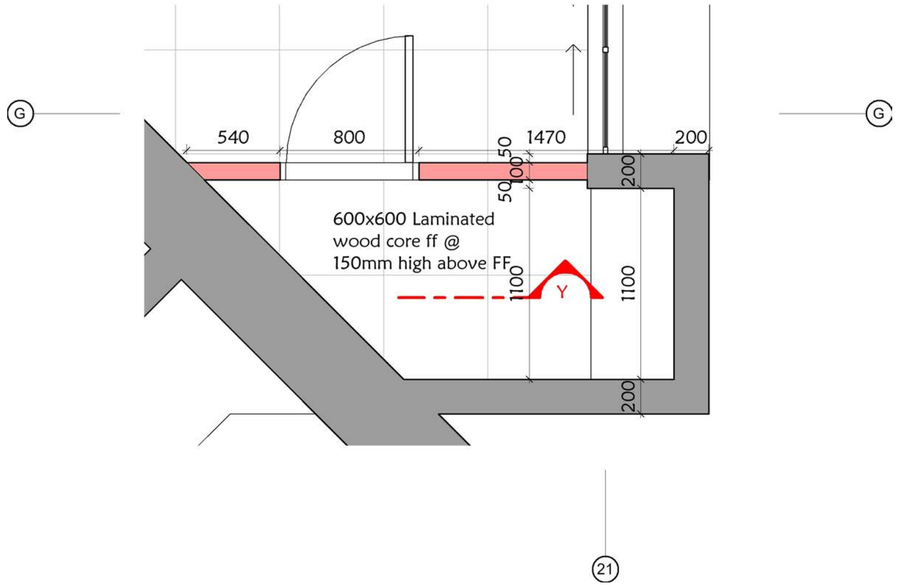
L_97. SECTION V;
1:25.



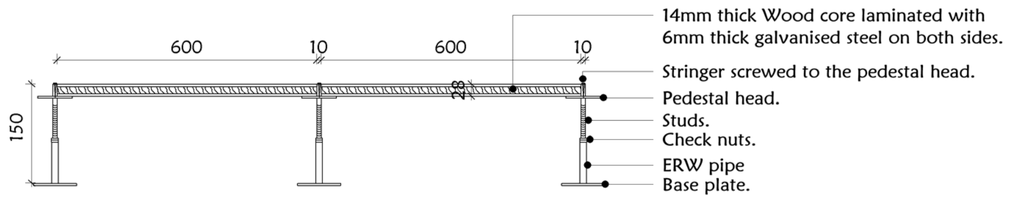
L_98. SECTION W;
1:25.



L_99. SECTION X;
1:25.



L_100. (17). SERVER ROOM;
1:25.



L_101. SECTION Y;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

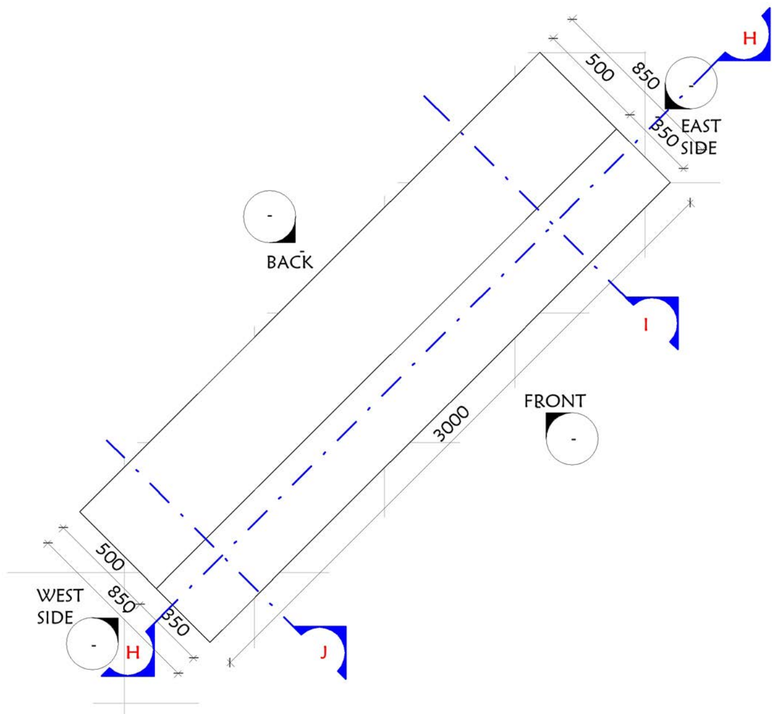
Client's signature:.....

Subject:

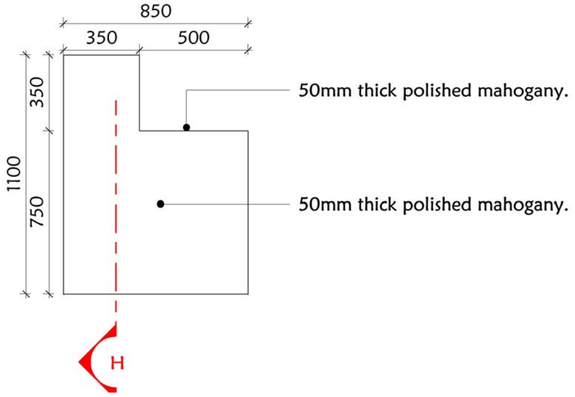
Title:

Consultant:

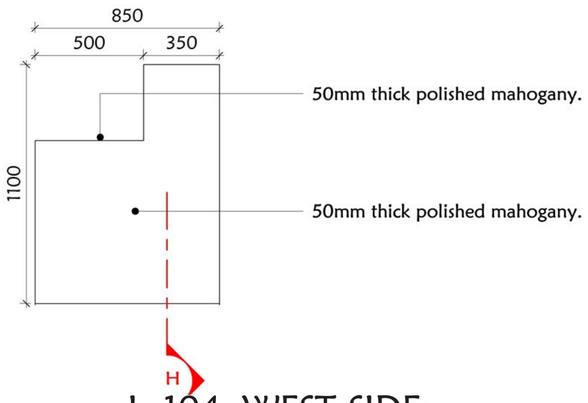
Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 37
Drg No:	Revision No:
DATE; April. 2024.	



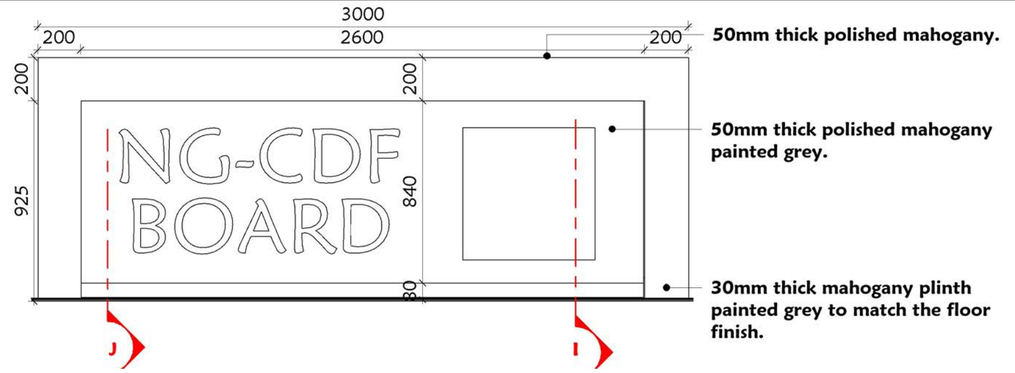
L_102. RECEPTION DESK;
1:25.



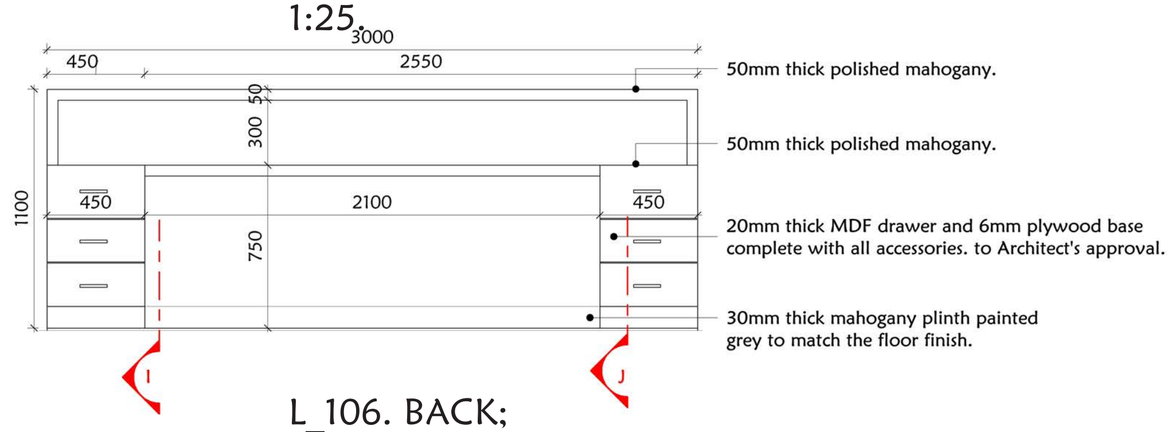
L_103. EAST SIDE;
1:25.



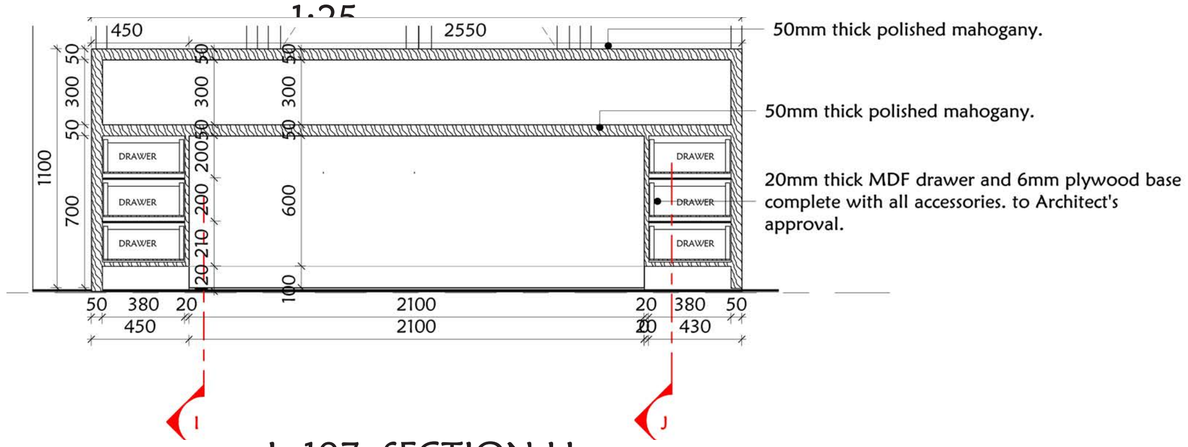
L_104. WEST SIDE;
1:25.



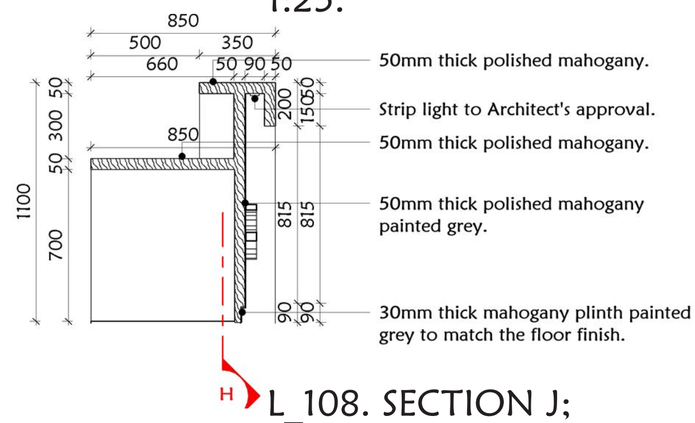
L_105. FRONT;
1:25.



L_106. BACK;
1:25.



L_107. SECTION H;
1:25.



L_108. SECTION J;
1:25.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

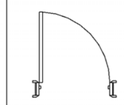
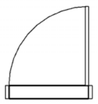
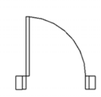
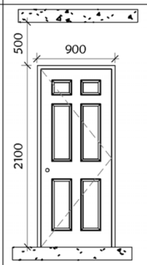
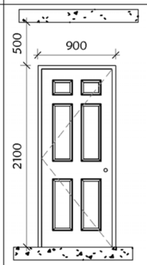
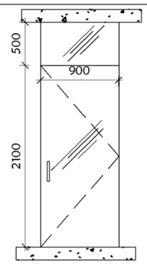
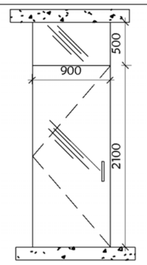
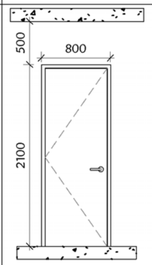
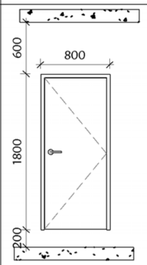
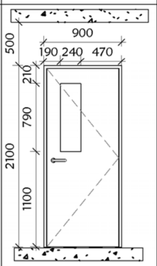
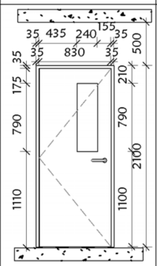
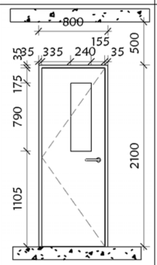
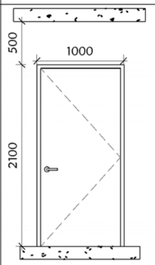
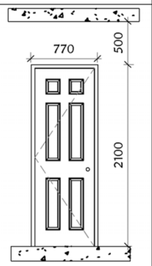
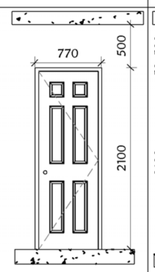
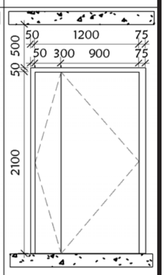
Client's signature:.....

Subject:

Title:

Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 38
Drg No:	Revision No:
DATE; April. 2024.	

Door ID.	D01	D02	D03	D04	D05	D06	D07	D08	D09	D10	D11	D12	D12
Quantity.	2	4	4	9	2	4	3	1	1	1	3	1	1
Orientation.	R	L	R	L	L	R	R	L	L	R	R	L	-
WxH size.	900x2100	900x2100	900x2100	900x2100	800x2100	800x1800	900x2100	900x2100	800x2100	1000x2100	770x2100	770x2100	1200x2100
2D.													
3D.													
DESCRIPTION	**Door Type:** Panel Mahogany Door **FinishM**ahogany stain with a satin varnish. **Frame:** Solid wood frame with matching mahogany stain **Hinges:** Heavy-duty steel hinges **Accessories:** Hydraulic Door Closer; Casted aluminium body, Opening angle up to 180° as supplied by Assa abloy or equivalent. **Lockset:**Two lever mortice lock complete with set lever aluminium handle furniture of high quality and as supplied by Assa abloy or equivalent **Location:** Prayer room, Lactation room.	**Door Type:** Panel Mahogany Door **FinishM**ahogany stain with a satin varnish. **Frame:** Solid wood frame with matching mahogany stain **Hinges:** Heavy-duty steel hinges **Accessories:** Hydraulic Door Closer; Casted aluminium body, Opening angle up to 180° as supplied by Assa abloy or equivalent. **Lockset:**Two lever mortice lock complete with set lever aluminium handle furniture of high quality and as supplied by Assa abloy or equivalent **Location:** Board Chair's office Breakout room.	**Door Type:** Frameless Glass Door **Material:** 10mm thick toughened frameless glass. **Hinges:** Two stainless steel pivot hinges **Handle:** Stainless steel handle **Lockset:** Magnetic lock system **Accessories:** Glass doorstop,Door closer. **Location:** QS office, Technical workstation, Junior Accountants workstations, Finance Manager office.	**Door Type:** Frameless Glass Door **Material:** 10mm thick toughened frameless glass. **Hinges:**stainless steel pivot hinges **Handle:** Stainless steel handle **Lockset:** Magnetic lock system **Accessories:** Glass doorstop,Door closer. **Location:** Architect's Office, M&E workstation, Principal M&E, Manager M&E, Senior accountant 1, Senior accountant 2, Senior accountant 3, Principal Finance.	**Door Type:** Solid core Mahogany Door **Finish:** Rich mahogany stain with a satin varnish. **Frame:** Solid wood frame with matching mahogany stain **Hinges:** Three heavy-duty brass hinges **Lockset:** Two lever mortice lock complete with set lever aluminium handle furniture of high quality and as supplied by Assa abloy or equivalent **Accessories:** Hydraulic Door Closer; Casted aluminium body, Opening angle up to 180° as supplied by Assa abloy or equivalent. **Location:** PWD friendly washroom.	**Door Type:** Solid Mahogany Door **Material:** Mahogany wood. **Finish:** Water-resistant sealant with clear varnish. **Frame:** Solid wood frame with matching finish **Hinges:** Two heavy-duty stainless steel hinges **Lockset:** Privacy lockset with indicator **Handle:** Ergonomic stainless steel lever handle. **Location:** Gents and Ladies washroom cubicles.	**Door Type**: Steel Door with Glass Insert **Material:** Steel with glass insert **Finish:** Brown Powder-coated finish. **Hinges:** Heavy-duty steel hinges **Lockset:** Commercial-grade two lever mortice lock complete with set lever aluminium handle furniture of high quality and as supplied by Assa abloy or equivalent **Glass:** Tempered glass insert, 1100mm and above, according to safety regulations. **Accessories**: Hydraulic Door Closer; Casted aluminium body, Opening angle up to 180° as supplied by Assa abloy or equivalent and doorstopper. **Location:** Entrance to finance wing,cash office.	**Door Type**: Steel Door with Glass Insert **Material:** Steel with glass insert **Finish:** Brown Powder-coated finish. **Hinges:** Heavy-duty steel hinges **Lockset:** Commercial-grade two lever mortice lock complete with set lever aluminium handle furniture of high quality and as supplied by Assa abloy or equivalent **Glass:** Tempered glass insert, 1100mm and above, according to safety regulations. **Accessories**: Hydraulic Door Closer; Casted aluminium body, Opening angle up to 180° as supplied by Assa abloy or equivalent and doorstopper. **Location:** Strong room.	**Door Type**: Steel Door with Glass Insert **Material:** Steel with glass insert **Finish:** Brown Powder-coated finish. **Hinges:** Heavy-duty steel hinges **Lockset:** Commercial-grade two lever mortice lock complete with set lever aluminium handle furniture of high quality and as supplied by Assa abloy or equivalent **Glass:** Tempered glass insert, 1100mm and above, according to safety regulations. **Accessories**: Hydraulic Door Closer; Casted aluminium body, Opening angle up to 180° as supplied by Assa abloy or equivalent and doorstopper. **Location:** Server room.	**Door Type:** Solid core Mahogany Door **Finish:** Rich mahogany stain with a satin varnish. **Frame:** Solid wood frame with matching mahogany stain **Hinges:** Three heavy-duty brass hinges **Lockset:** Two lever mortice lock complete with set lever aluminium handle furniture of high quality and as supplied by Assa abloy or equivalent **Accessories:** Hydraulic Door Closer; Casted aluminium body, Opening angle up to 180° as supplied by Assa abloy or equivalent. **Location:** PWD friendly washroom.	**Door Type:** Panel Mahogany Door **Finish:** Mahogany stain with a satin varnish. **Frame:** Solid wood frame with matching mahogany stain **Hinges:** Heavy-duty steel hinges **Accessories:** Hydraulic Door Closer; Casted aluminium body, Opening angle up to 180° as supplied by Assa abloy or equivalent. Stainless steel kickplate 700X150mm high. **Lockset:**Two lever mortice lock complete with set lever aluminium handle furniture of high quality and as supplied by Assa abloy or equivalent **Location:** Gents washroom, Trash Chute, Kitchen.	**Door Type:** Panel Mahogany Door **Finish:** Mahogany stain with a satin varnish. **Frame:** Solid wood frame with matching mahogany stain **Hinges:** Heavy-duty steel hinges **Accessories:** Hydraulic Door Closer; Casted aluminium body, Opening angle up to 180° as supplied by Assa abloy or equivalent. Stainless steel kickplate 700X150mm high. **Lockset:**Two lever mortice lock complete with set lever aluminium handle furniture of high quality and as supplied by Assa abloy or equivalent **Location:** Ladies washroom.	**Door Type:** Solid core Mahogany Wooden Door **Material:** Solid mahogany wood construction **Finish:** Rich mahogany stain with a glossy varnish. **Frame:** Solid mahogany wood frame with acoustic seals **Hinges:** Heavy-duty acoustic hinges in a matching finish **Lockset:** Two lever mortice lock complete with set lever aluminium handle furniture of high quality and as supplied by Assa abloy or equivalent. **Accessories:** Hydraulic Door Closer; Casted aluminium body, Opening angle up to 180° as supplied by Assa abloy or equivalent. **Location:** Boardroom.

C_01. DOOR SCHEDULE;

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:
PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITIONING.

Location:
NARIOBI COUNTY.

Client:
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

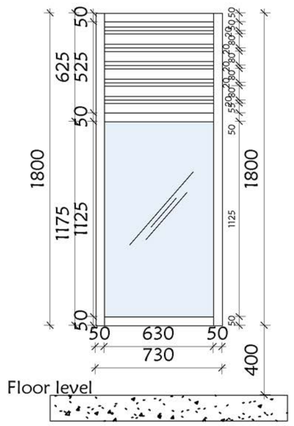
Client's signature:.....

Subject:

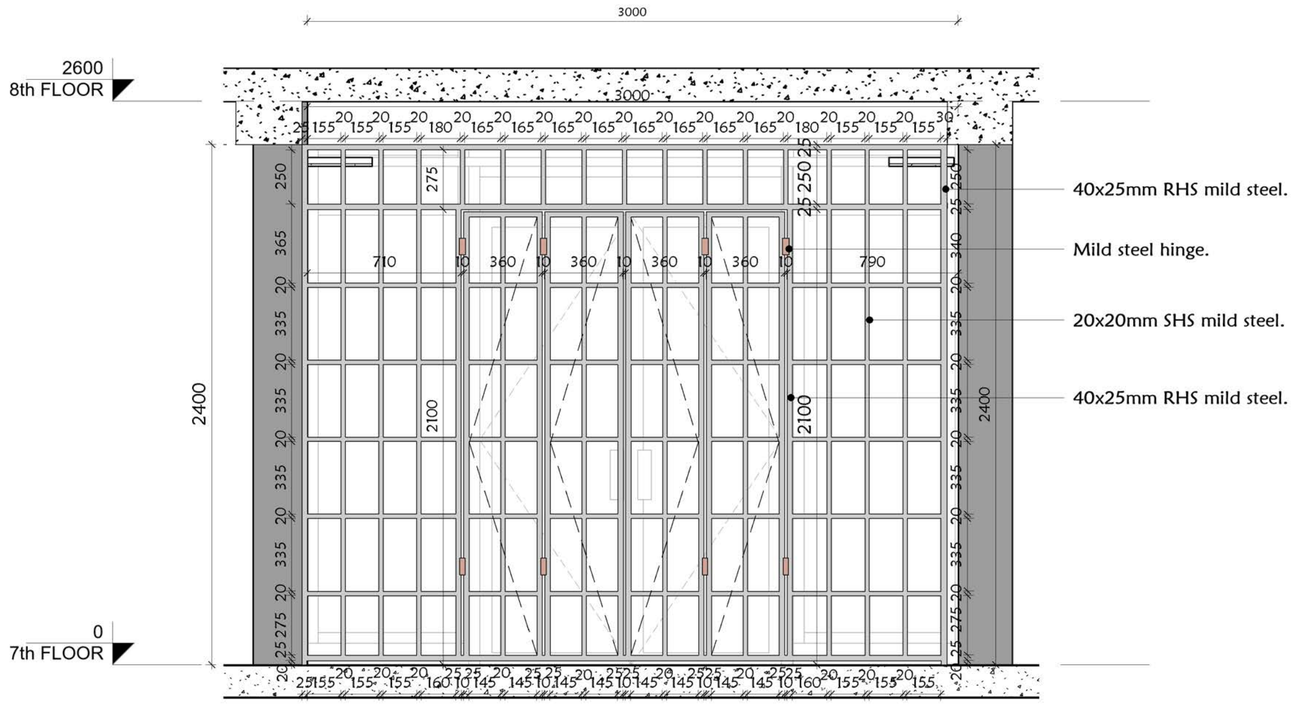
Title:

Consultant:

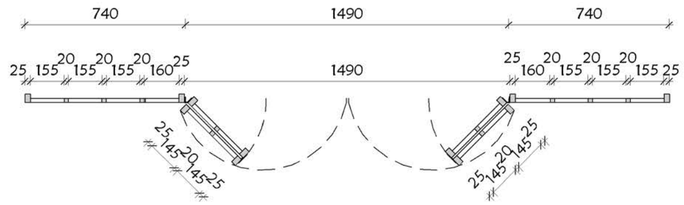
Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 39
Drg No:	Revision No:
DATE; April. 2024.	

WINDOW ID.	W1
QUANTITIES .	2
WxH Size	730x1800
2D	
3D	
DESCRIPTION.	**Window Type:** Mahogany Framed Window **Frame Material:** Solid mahogany construction **Glazing:** 1125mm height, 5mm thick obscure glass. **Louvres:** 525mm height, adjustable louvres on top **Finish:** Rich mahogany stain with a glossy varnish **Location:** Lactation room, Prayer room.

C_02. WINDOW SCHEDULE;



ELEVATION



PLAN

Location: Main door at the Main entrance.

C_03. BURGLAR PROOFING DETAIL;

1:20.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:

PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:
NARIOBI COUNTY.

Client:

NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

Client's signature:.....

Subject:

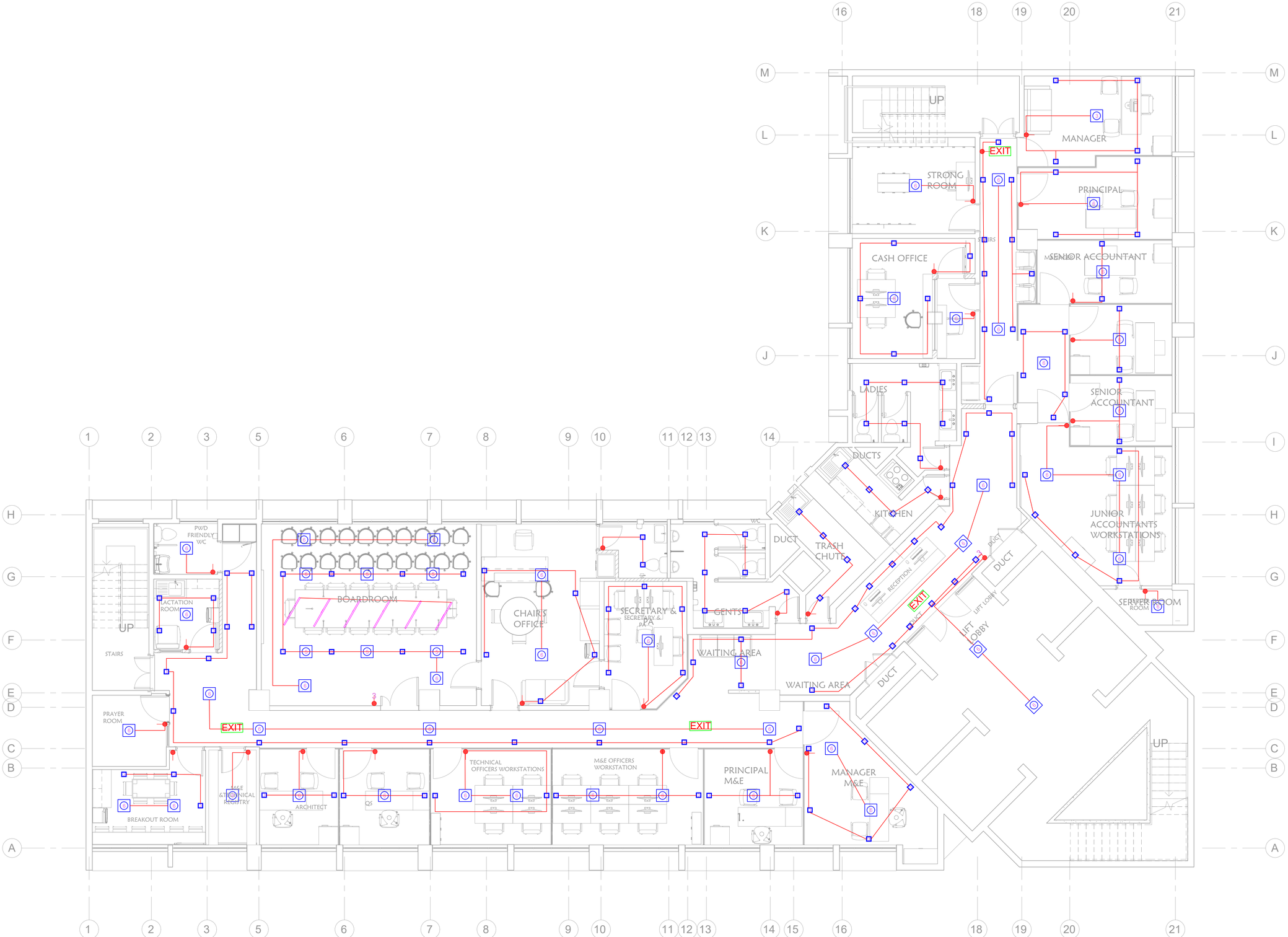
Title:

Consultant:

Drawn by: W.O	Checked by: B.O.
Scale; 1: 25 @ A2.	Page No.; 40
Drg No:	Revision No:
DATE; April. 2024.	

ELECTRICAL WORKS

1:50



NOTES

For Symbols refer to drawing No.E-003

1. Mounting height for light switches shall be 1400m from finished floor level (fffl). Unless otherwise specified or instructed on site.
2. All accessories in basement shall be mounted at switch height unless otherwise specified or instructed on site.
3. Mounting height for 13a sp socket outlet shall be 300mm fffl. In all other floors except in kitchens where they shall be at switch height.
4. Mounting height for distribution board shall be 2000mm at their centre fffl unless otherwise specified or instructed on site.
5. All pipe work shall be done in heavy gauge pvc conduits unless otherwise instructed on site.
6. All dimensions are in mm unless otherwise stated.

CLIENT

NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

ARCHITECT

ARCH. B.O.

PROJECT

PROPOSED UKULIMA CO-OPERATIVE SACCO 7TH FLOOR INTERIOR DESIGN-NAIROBI

SCALE: 1:50 ON A1

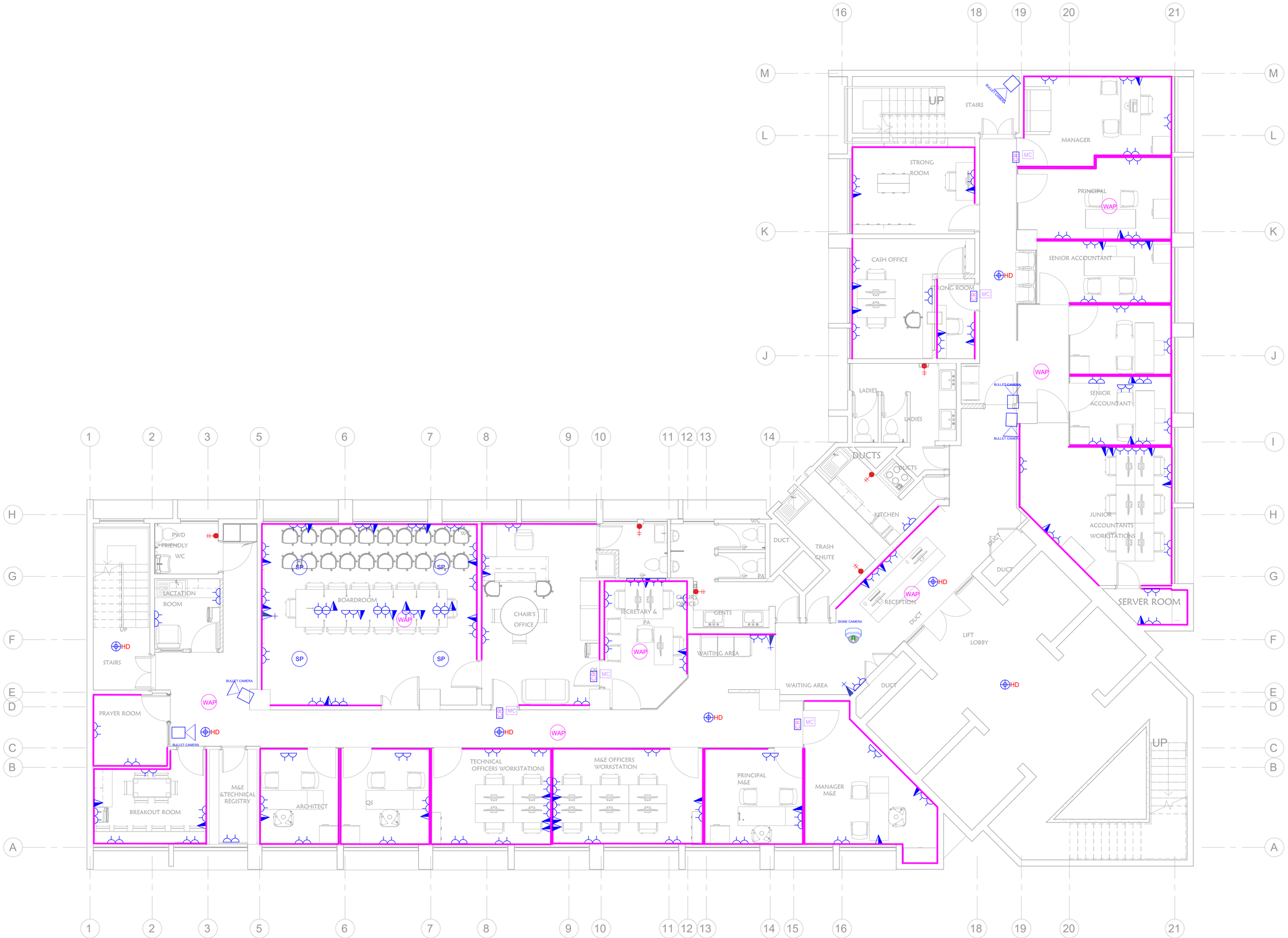
DWN DATE: 08.04.2024

TITLE: LIGHTING LAYOUT

DRAWING NO. E-001

LIGHTING LAYOUT;
1:50.

1:50



NOTES

For Symbols refer to drawing No.E-003

1. Mounting height for light switches shall be 1400m from finished floor level (fffl). Unless otherwise specified or instructed on site.
2. All accessories in basement shall be mounted at switch height unless otherwise specified or instructed on site.
3. Mounting height for 13a sp socket outlet shall be 300mm fffl. In all other floors except in kitchens where they shall be at switch height.
4. Mounting height for distribution board shall be 2000mm at their centre fffl unless otherwise specified or instructed on site.
5. All pipe work shall be done in heavy gauge pvc conduits unless otherwise instructed on site.
6. All dimensions are in mm unless otherwise stated.

CLIENT

NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

ARCHITECT

ARCH. B.O.

PROJECT

PROPOSED UKULIMA CO-OPERATIVE SACCO 7TH FLOOR INTERIOR DESIGN-NAIROBI

SCALE: 1:50 ON A1

DWN DATE: 08.04.2024

TITLE: POWER LAYOUT

DRAWING NO. E-002

POWER LAYOUT;
1:50.

NDTS

	SYMBOL	DESCRIPTION	
1		10A ONE GANG ONE WAY SWITCH	
2		10A ONE GANG TWO WAY SWITCH	
3	3	5W 100MMX100MM DOWNLIGHTERS	
4	8	22W 500MMX500MM PANEL	
5		LINEAR LIGHTS	
6	EXIT	EXIT SIGNAGE	
7	R	DOME CCTV CAMERA	
8		BULLET CCTV CAMERA	
9	WAP	WIRELESS ACCESS POINT	
10		DOUBLE POLE SWITCH	
11		13A SP TWIN SWITCHED SOCKET OUTLET AS CLIPSAL	
12		CONSUMER CONTROL UNIT	
13		DISTRIBUTION BOARD	
14		TV POINT	
15	MC	MAGNETIC DOOR CONTACT	
16		DUAL DATA SOCKET OUTLET	
17	SP	SPEAKER POINTS	
18	HD	HEATER DETECTOR	
19	CR	CARD READER	
20		TRUNKING	
21			
22			
23			
24			

SCHEDULE OF SYMBOLS

CLIENT
NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

ARCHITECT
ARCH. B.O.

PROJECT
PROPOSED UKULIMA CO-OPERATIVE SACCO 7TH FLOOR INTERIOR DESIGN-NAIROBI

SCALE: 1:50 ON A1

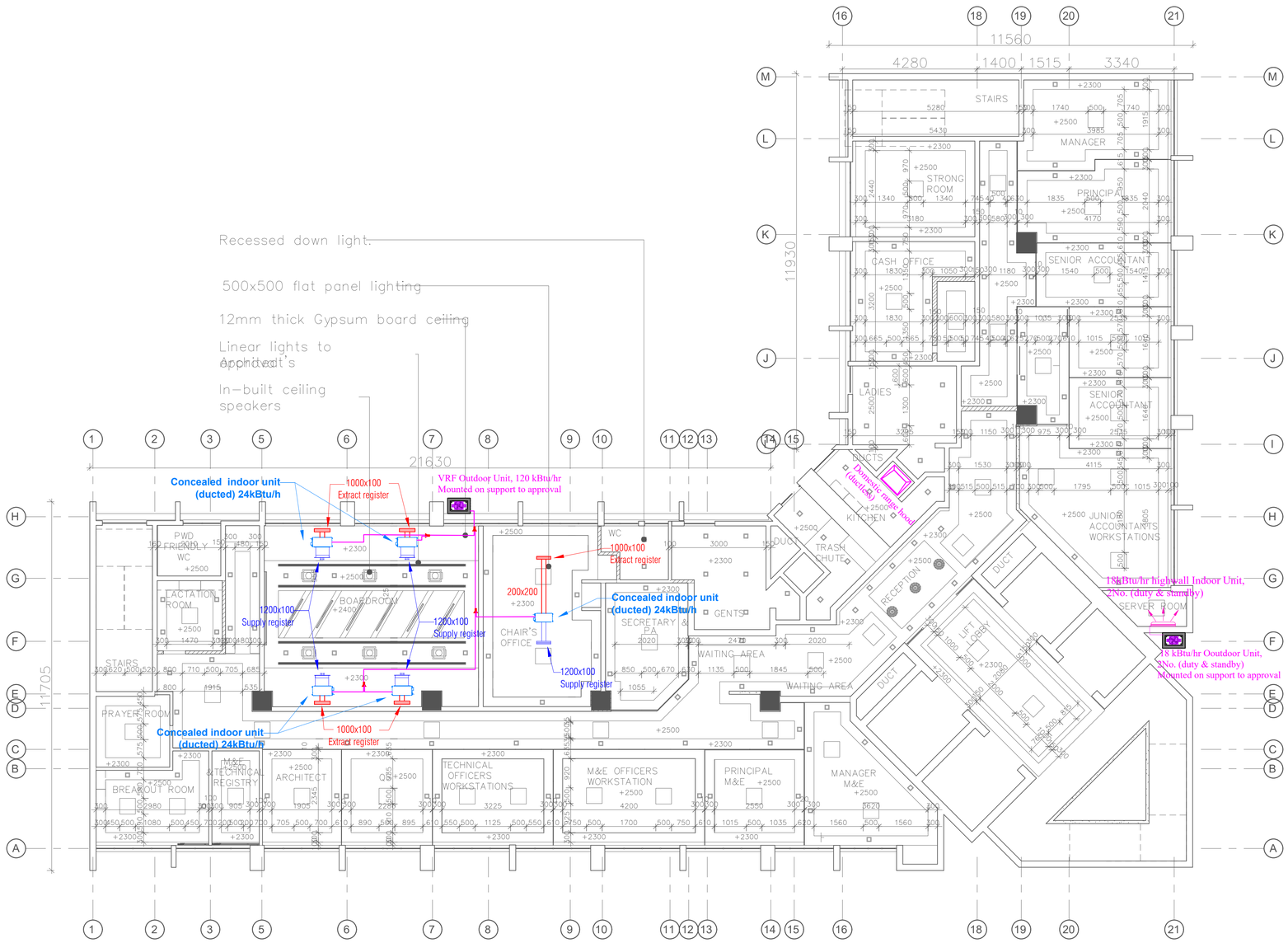
DWN DATE: 08.04.2024

TITLE: SCHEDULE OF SYMBOLS

DRAWING NO. E-003

SCHEDULE OF SYMBOLS;

MECHANICAL WORKS



LEGEND

- REFRIGERANT PIPE
- RANGE HOOD
- OUTDOOR AC UNIT
- DUCTED INDOOR AC UNIT
- HIGH WALL INDOOR AC UNIT

PROJECT:

PROPOSED UKULIMA CO-OPERATIVE SACCCO 7TH FLOOR INTERIOR DESIGN

CLIENT:

NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB

LOCATION:

NAIROBI COUNTY

DATE:

MARCH 2024

REVISION:

REVISION No.1 OF 05/04/2024

7TH FLOOR - AC LAYOUT

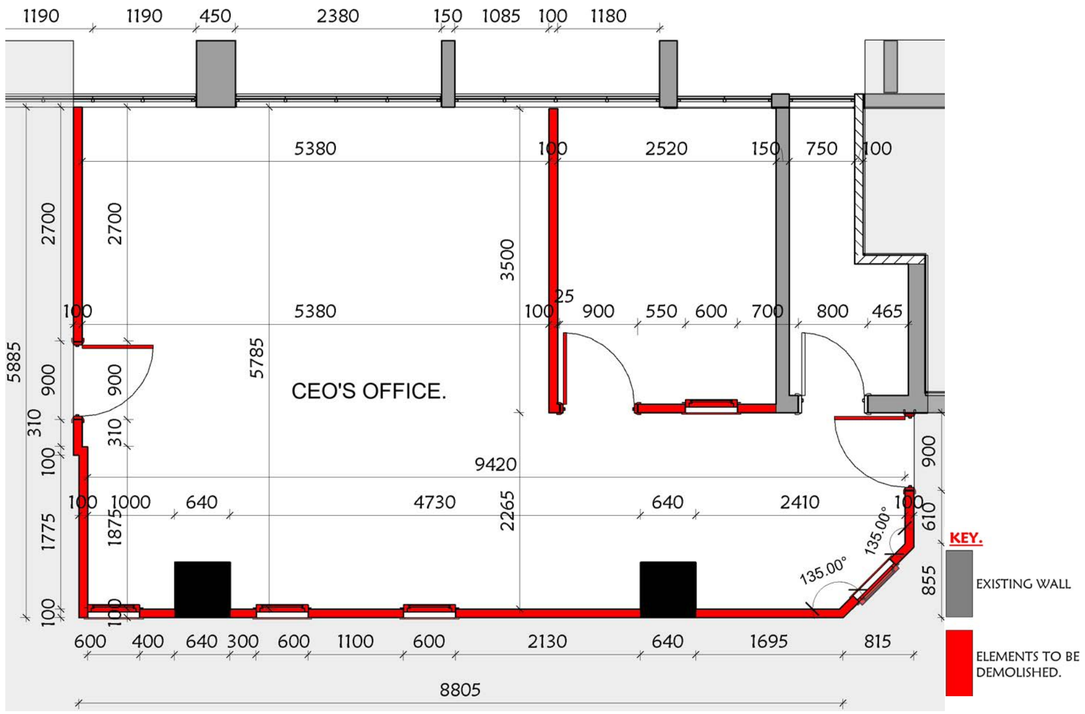
SCALE: 1:75 ON A1

DRW No:

C01

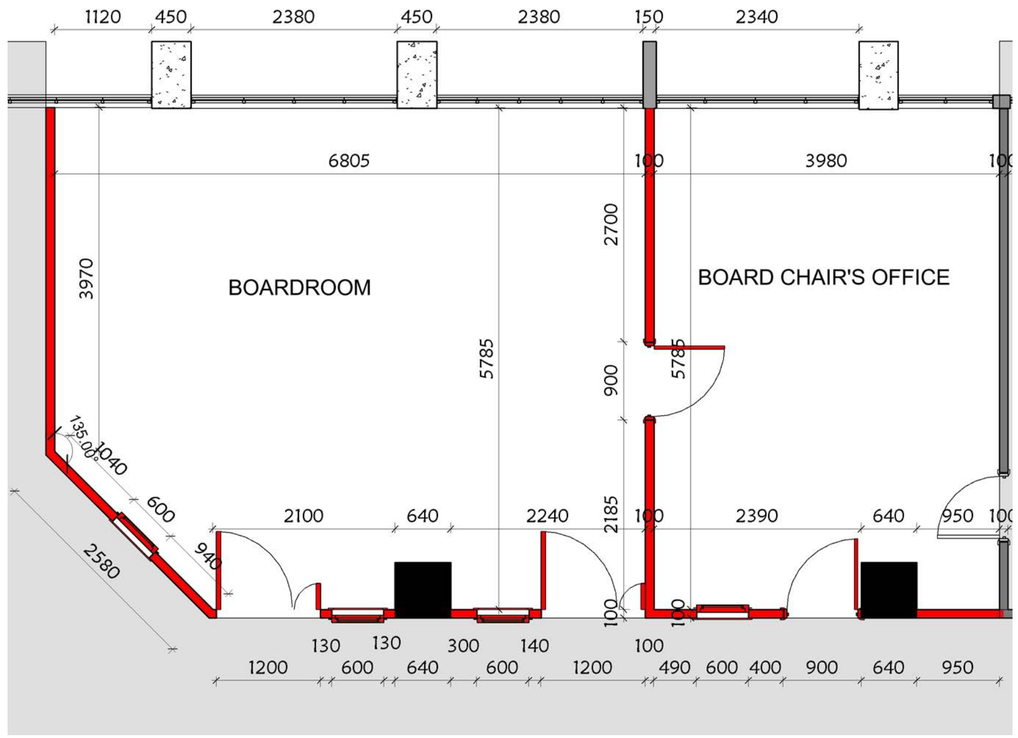
AC LAYOUT;
1:75.

5TH AND 6TH FLOOR ALTERATIONS



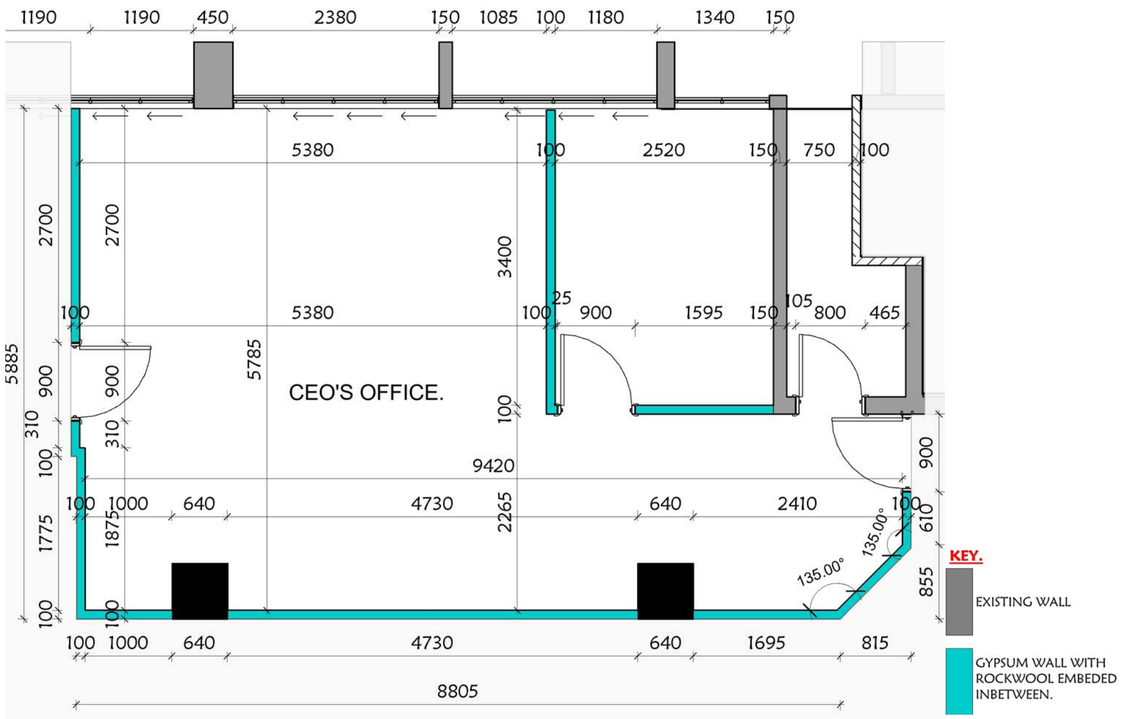
6TH FLOOR CEO's OFFICE DEMOLITION PLAN;

1:50.



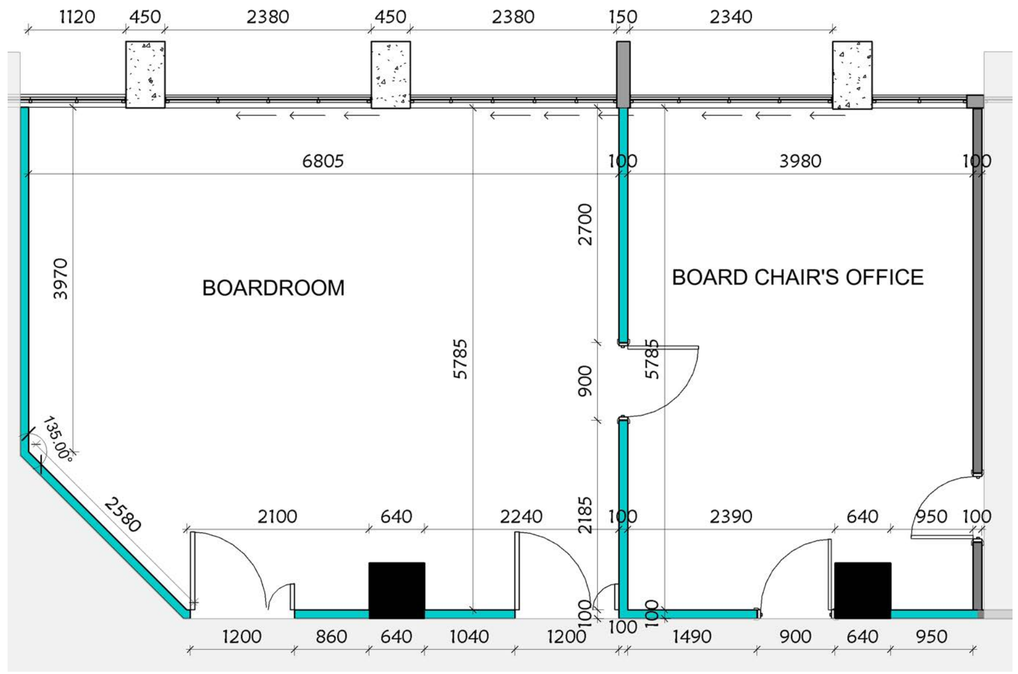
5TH FLOOR BOARDROOM & BOARDCHAIR'S OFFICE DEMOLITION PLAN;

1:50.



6TH FLOOR CEO's OFFICE ACOUSTIC LAYOUT PLAN;

1:50.



5TH FLOOR BOARDROOM & BOARDCHAIR'S OFFICE ACOUSTIC LAYOUT PLAN;

1:50.

NOTES.

1. This drawing is protected under The Copyright Act and cannot be used or reproduced in part or in whole without the author's consent.

2. All dimensions are in millimetres (mm) unless otherwise stated.

3. All dimensions to be checked on site. Written dimensions rule over scaled dimensions.

Any discrepancy in dimensions to be reported to the Architect before any work commences.

4. All construcion works to comply with the latest.

K.B.S. standard codes of practice and Local Authority regulations.

5. P.V. denotes permanent ventilation and must be provided above all doors and windows except to WCs.

6. All walls to be reinforced with hoop iron at every alternate course.

7. All R.C. works to structural engineer's details. Depth of foundation to be determined on site but depth of trenches should not be less that 600mm below reduced ground level.

8. All surface beds to be casted on well compacted and
well consolidated filling.

9. Provide one row of 600x600x50mm precast concrete paving slabs around the building unless otherwise stated.

10. D.P.C. denotes one layer of bituminous felt and should be provided under all external walls.

11. Heavy duty polythene sheeting and anti-termite treatment to be provided on underground floor slabs.
12. All service pipes to be minimum 450mm below reduced ground level.

13. All inspection chambers (I.C.) within building driveway and parking areas to be heavy duty double seal air tight covers while drains in the same areas to be PVC pipes encased in 150mm concrete surround.

Project:

PROPOSED UKULIMA CO-OPERATIVE BUILDING 7TH FLOOR PARTITION-ING.

Location:

NARIOBI COUNTY.

Client:

NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB)

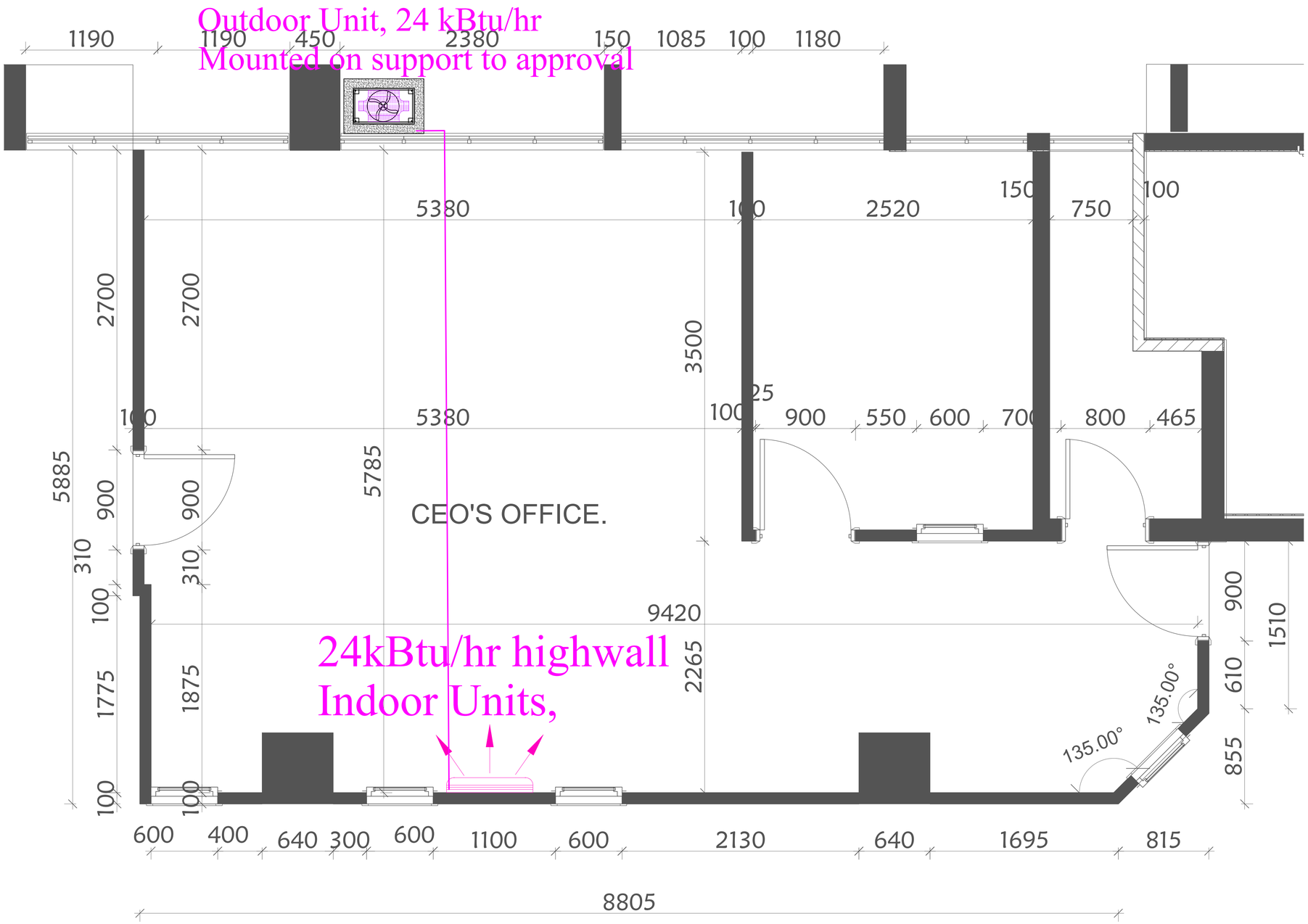
Client's signature:.....

Subject:

Title:

Consultant:

Drawn by:	Checked by:
W.O	B.O.
Scale; 1: 25 @ A2.	Page No.; 48
Drg No:	Revision No:
DATE; April. 2024.	



LEGEND

REFRIGERANT PIPE

OUTDOOR AC UNIT

HIGH WALL INDOOR AC UNIT

PROJECT:

PROPOSED UKULIMA CO-OPERATIVE SACCCO 6TH FLOOR INTERIOR DESIGN

CLIENT:

NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB

LOCATION:

NAIROBI COUNTY

DATE:

APRIL 2024

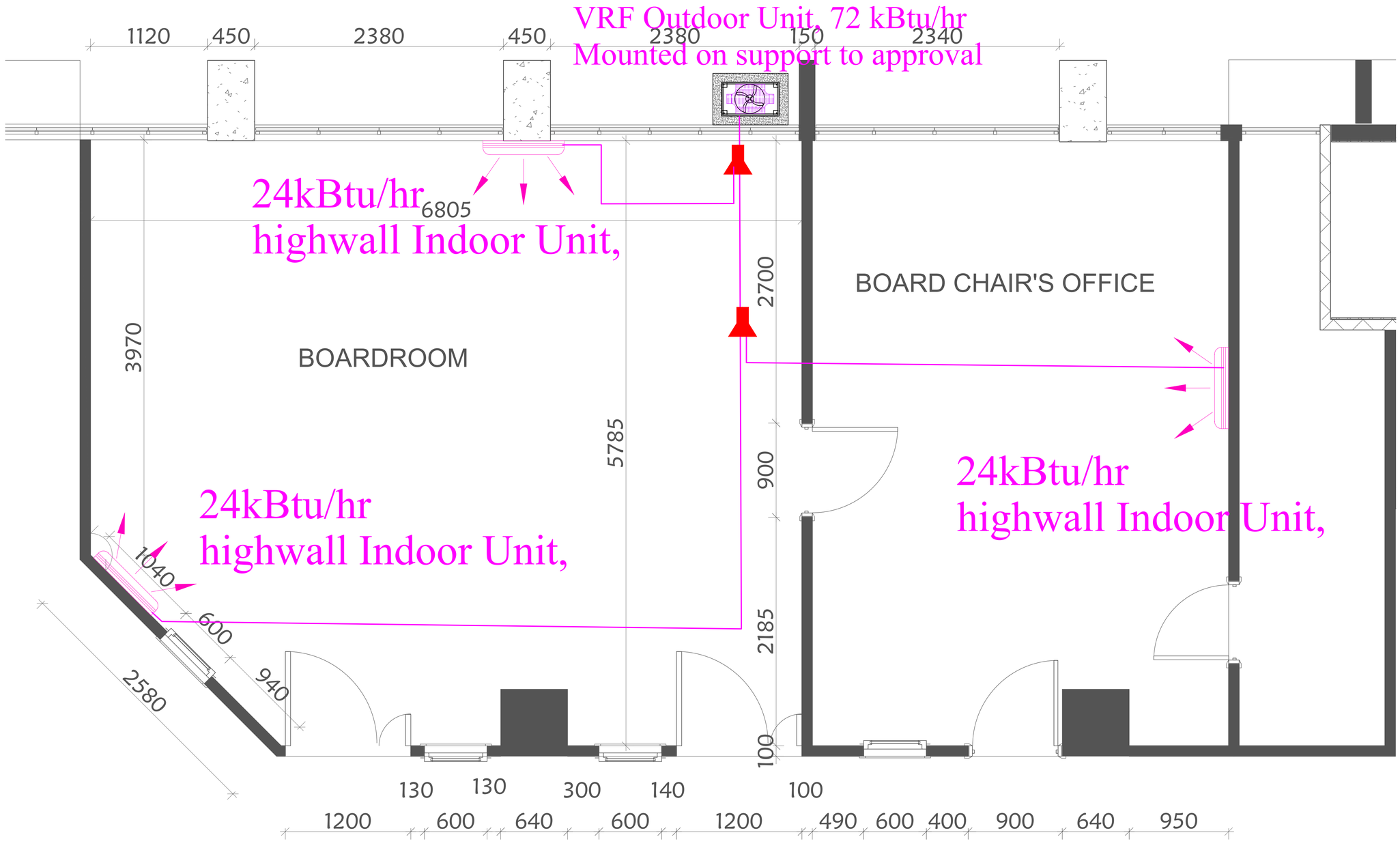
REVISION:

6TH FLOOR - CEO'S OFFICE AC LAYOUT

SCALE: NTS

DRW No:

C03



LEGEND

- REFRIGERANT PIPE
- OUTDOOR AC UNIT
- HIGH WALL INDOOR AC UNIT

PROJECT:

PROPOSED UKULIMA CO-OPERATIVE SACCCO 5TH FLOOR INTERIOR DESIGN

CLIENT:

NATIONAL GOVERNMENT CONSTITUENCIES DEVELOPMENT FUND BOARD (NG-CDFB

LOCATION:

NAIROBI COUNTY

DATE:

APRIL 2024

REVISION No.1 OF 01/05/2024

5TH FLOOR - BOARD ROOM AC LAYOUT

SCALE: NTS

DRW No:

C02

5TH FLOOR BOARDROOM & BOARDCHAIR'S OFFICE AC. LAYOUT PLAN;
1:50.