



PROJECT SPONSOR:
M-PESA FOUNDATION

M-PESA FOUNDATION HEALTH SECTOR SPONSORSHIP

**TENDER FOR THE UPGRADING OF PWANI UNIVERSITY, KILIFI
COUNTY.**

TENDER REF: MF/CP/14/2025



PROJECT MANAGER

OCTOBER, 2025

TABLE OF CONTENTS

Table of Contents

SECTION 1: TENDER QUESTIONNAIRE	3
SECTION 2: INVITATION TO TENDER	4
PART 1: INSTRUCTIONS TO BIDDERS	5
BID DATA SHEET (Appendix to Instructions to Tenderers)	8
EVALUATION AND QUALIFICATION CRITERIA	9
KEY PERSONNEL	10
SCHEDULE OF ON-GOING PROJECTS	14
LITIGATIONS HISTORY	15
TECHNICAL EVALUATION	18
TENDER FORMS	21
i) SCHEDULE OF REQUIREMENTS TABLE (see also BQs ATTACHED).....	23
ii) CERTIFICATE OF INDEPENDENT TENDER DETERMINATION.....	24
iii) SELF-DECLARATION FORM	25
FORM CON – 2	26
PART 2: SCHEDULE OF REQUIREMENTS	27
2. AGREEMENT AND CONDITIONS OF CONTRACT	30
<i>PROPOSED ADDEDUMS TO THE CONDITION OF CONTRACT.....</i>	<i>30</i>
<i>APPENDIX TO THE CONDITION OF CONTRACT</i>	<i>32</i>

SECTION 1: TENDER QUESTIONNAIRE

(Please fill in block letters.)

1. Full names of Tenderer:

.....

2. Full address of Tenderer to which tender correspondence is to be sent,
(unless an agent has been appointed below):

.....

3. Telephone number (s) of Tenderer:

.....

4. E-mail Address of Tenderer:

.....

5. Name of Tenderer's representative to be contacted on matters of the tender during the
tender period:

.....

6. Details of Tenderer's nominated agent (if any) to receive tender notices. This is essential
if the Tenderer does not have his registered address in Kenya (name, address, telephone, telex):

.....

.....

.....

Signature of Tenderer

SECTION 2: INVITATION TO TENDER

M-PESA FOUNDATION HEALTH SECTOR SPONSORSHIP

PROCURING ENTITY: PWANI UNIVERSITY

CONTRACT NAME AND DESCRIPTION: REQUEST FOR TENDERS (RFQ) FOR THE UPGRADING OF PWANI UNIVERSITY, KILIFI COUNTY.

REFERENCE NUMBER: MF/CP/06/2025

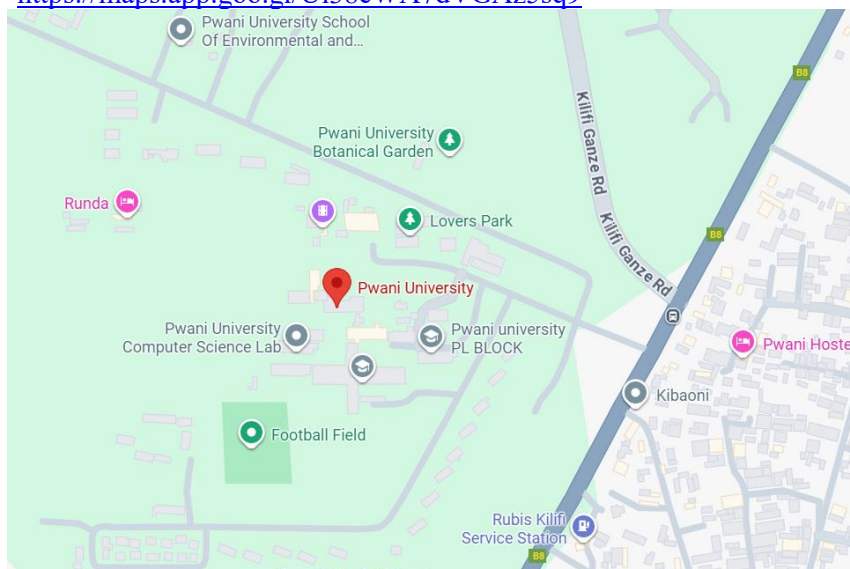
1. **Pwani University** invites eligible candidates to submit Tenders for **The Proposed Upgrading of Pwani University** indicated in detail in “Table A. Schedule of Requirements and Specifications and **attached BQs**”. The Tender shall follow the instructions and documents in this RFQ document and shall be in English Language.
Bidders may obtain further information during office hours ***0900 to 1600 hours*** at the address given below.
2. **Address to Obtain Tender Documents;**
Pwani University,
P.O. Box 195, Kilifi,
Email: procurement@pu.ac.ke
Kilifi.
3. **Clarifications once the tender has been received may be addressed to_**
Plateau Consultants Ltd
Tel: +254 020 253 1381
E-mail: projects@plateauconsultants.com
(This should be received by the Project Manager 3 Days Before Closure of RFQ):
4. **Address for tender Submission:**
[Tender box at Pwani University, Old administration block ground floor](#)

The Completed Tenders Must be submitted to Pwani University, Kilifi at the address indicated below on or before **4th November , 2025 at 11.00am** with subsequent **tender opening at 11:30am**.

Filled RFQs can be sent or delivered by registered mail, courier or hand delivery.

Late Tenders shall be rejected.

5. For directions the link is as attached below:
<https://maps.app.goo.gl/Uj38eWA7dVGAz5sq9>



6. Any resulting contract shall be subject to the terms and conditions detailed in Part 3: Contract.

PART 1: INSTRUCTIONS TO BIDDERS

1. **Bidders are advised to read carefully** these instructions and the Conditions of Contract in **Part 3: Contract**, before preparing the Tender. The standard forms in this RFQ may be photocopied for completion but the Bidder is responsible for their accurate reproduction. The term Bidder shall mean the firm or person invited to submit a Tender. The term Tender herein shall mean the Tender submitted as usually understood in public procurement.
2. A complete set of Tender documents may be obtained by interested Bidders at the procurement office,
**Pwani University,
P.O. Box 195, Kilifi,
Email: procurement@pu.ac.ke
Kilifi.**
3. **Validity of Tenders:** The Tender will be held valid for **60 days** from the date of submission.
4. **The Tender shall consist of** completed Tables A, B and C and the Form of Tender all indicated in Part 2 of this Request for Tenders, and documents to evidence Eligibility and Conformity to Technical Specifications.
5. **Sealing and Marking of Tenders:** Tenders in one “one original” should be sealed in a single envelope, clearly marked with the **Tender Reference Number** in the RFQ, and the name of the Procuring Entity. Envelopes should be sealed in such a manner that opening and resealing cannot be achieved undetected.
6. **Submission of Tenders:** Tenders, and any alternatives if allowed as per Item 11 below, should be submitted to the address below, on or before the date and time indicated in sub-item 4 below. Late Tenders will be rejected.

Address for Submission of Tender;

Pwani University,
P.O. Box 195, Kilifi,
Email: procurement@pu.ac.ke
Kilifi.

Date of Submission (deadline): **4th November 2025.**

Time of Submission (deadline): **11.00am**

Time of Opening : **11.30am**

Electronic Bids ARE NOT permitted.

7. **Opening of Tenders:** Tenders will be opened publicly immediately after the closing date and time specified in item (6) above, by at least three appointed officials of the Beneficiary Entity in the presence of the Bidders' designated representatives.
8. **Bidder Eligibility:** Bidder must submit Documentary evidence to show his/her eligibility to be awarded a contract to cover each of the following:
 - (i) **See Contractors' requirements attached**The Bidder shall also complete attached forms to confirm eligibility and non-existence of a conflict of interest in relation to this procurement requirement by signing the attached Forms.

9. **Invitation not transferable:** This invitation is not transferable to other firms or individuals not so invited.
10. **Goods Eligibility:** Bidder must submit as evidence documents to show the country of origin of any goods to be supplied or incorporated in the work or services
11. **Technical Specifications:** Documentary evidence to show that the goods meet the technical specifications.
12. **Alternative Tenders:** Bidders **are not permitted** to submit alternative Tenders for alternative technical solutions for specified parts of the Works. Only the alternatives, if any, of the Bidder with the winning Tender conforming to the basic technical requirements shall be considered by the Procuring Entity.
13. **Currency:** Tenders shall be priced in Kenya Shillings. Tenders in other currencies will be rejected.
14. **Evaluation of Tenders:**
 - (a) The Tenders submitted will be evaluated in three stages; Preliminary, Technical and Financial. Tenderers will proceed to the Technical Stage only if they qualify in compliance with Preliminary Evaluation. Only technical bids that attain a minimum score of 75% will be eligible for financial evaluation as detailed in (c) below.
 - (b) The evaluation criteria will be based on the following weights:
 - a. **Technical score weight - 70%**
 - b. **Financial score weight - 30%**
 - (c) The criteria to be followed at the Technical Evaluation stage is contained in Evaluation Process, and Bidders are urged to follow the format outlined therein which is critical in determining the responsiveness of the bids.
 - (d) To be eligible for the Financial Evaluation, bidders must score at least seventy (75) out of one hundred (100) at the Technical Evaluation stage. Each responsive tender will be given a technical score (St). A tender shall be rejected at this stage if it fails to achieve the minimum technical score.
 - (e) The Evaluation Committee will determine whether the financial proposals are complete (i.e., whether the tenderer has costed all the items of the corresponding Technical Proposal and correct any computational errors). The cost of any unpriced items shall be assumed to be included in other costs in the proposal. In all cases, the total price of the Financial Proposal as submitted shall prevail.
15. **Award of contract:** The Procuring Entity will award the contract to the lowest compliant bidder per schedule whose tender has been determined to be substantially responsive. Award shall therefore be on one schedule or multiple schedules. Unsuccessful bidders will be notified.
16. **Right to Reject:** The Procuring Entity reserves the right to accept or reject any Tender or to cancel the Tender process and reject all Tenders at any time prior to contract award.
17. **Clarifications with Lowest Evaluated Successful Tenderer**
 - i) Clarifications may be undertaken with the lowest responsive evaluated Tenderer relating to any or all of the following areas: -
 - a) A minor alteration to the technical details of the BQ's
 - b) Reduction of quantities for budgetary reasons where the reduction is in excess of any provided for in the Tender Document
 - c) A minor amendment to the Special Conditions of Contract.
 - d) Finalizing payment arrangements (*excluding any Advance Payment*)

- e) Mobilization arrangements e.g., operational details (*excluding any Advance Payment*)
 - f) Agreeing final delivery or Work Plans to accommodate and changes required by Project Manager.
 - g) Methodology and Staffing
 - h) Clarifying details that were not apparent or could not be finalized at the time of tendering
 - ii) Clarifications shall not change the substance of the Tender.
18. **Cost of Tendering:** The Tenderer shall bear all costs associated with the preparation and submission of its Tender. The Procuring Entity will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.
19. **Contents of the Tender Document:** The Tender Document comprises the documents listed below and Addendum (where applicable)
- a) *Tender Questionnaire*
 - b) *Invitation to Tender*
 - c) *Instructions to Tenderers*
 - d) *Bid Data Sheet*
 - e) *Evaluation & Qualification Criteria*
 - f) *Scoring - Technical Evaluation for Criteria for Companies*
 - g) *Tender & Qualification document- Tender Form & Declaration Form*
 - h) *Specifications*
 - i) *Contract Form Agreement*
 - j) *Conditions of Contract*
 - k) *Special Conditions of Contract*
 - l) *Bill of Quantities*
 - m) *Confidential Business Questionnaire Form*
 - n) *Tender Security Forms*
 - o) *Performance Security Forms*
- (ii) The Tenderer is expected to examine all instructions, forms, provisions, terms and specifications in the Tender Document. Failure to furnish all information required by the Tender Document or to submit a tender not substantially responsive to the Tender Document in every respect will be at the Tenderer's risk and may result in the rejection of its Tender.
- (iii) All recipients of the documents for the proposed Contract for the purpose of submitting a tender (whether they submit a tender or not) shall treat the details of the documents as "Private and Confidential"

BID DATA SHEET (Appendix to Instructions to Tenderers)

The following information regarding the particulars of the tender shall complement and or amend the provisions of the Instructions to Tenderers *hereinafter abbreviated as ITT*. Wherever there is a conflict between the provisions of the ITT and the Bid Data Sheet, the provisions of the BDS shall prevail over those of the ITT.

No.	ITT Reference Clause	Particulars of Appendix
1.	Eligible Tenderers	Eligible bidders should be registered with minimum NCA6 <i>and above</i> (NCA1, NCA2, NCA3, NCA4, NCA5, NCA6).
3.	Site Visit	There will be a mandatory site visit/pre- bid meeting to be held on Tuesday 28th October, 2025 at 11.00am at (Pwani University) The site visit forms must be signed by authorized Facility inCharge/Project Manager.
4	Contract Within the County	At least One (1) number of contract(s) of a similar nature executed within the County, or the Neighboring County, that have been satisfactorily and substantially completed as a prime contractor, or joint venture member or sub-contractor each of minimum value Kshs. 50,000,000 or equivalent amount of money required is about 80% of the bid(s) price.
5.	Tender Security	The Tender Security shall be Kshs. 200,000.00 . The Original Tender Security shall be placed in an envelope clearly labelled with the tender number & name, and shall be deposited in the Tender Security Box on Supply Chain Reception on or before the opening time. This should be from a bank or Microfinance that is regulated by Central Bank of Kenya.
6	List of Previous Customers	The Tenderer shall submit at least Four (4) reference letters from previous clients of similar Works and letters from the previous clients confirming satisfactory completion of the contracts and on schedule.
7	Award of Contract	The award of the contract will be to the successful tenderer(s) whose tender has been determined to be substantially responsive and has been determined to be the lowest tendered price, subject to the reserve price.
8	Performance Security	Performance Security shall be 10% of the contract sum. This shall be in the form of an on-demand bank-guarantee strictly in the form and content as prescribed in the Performance Security Form (Bank Guarantee). This should be from a bank or micro-finance bank that is regulated by Central Bank of Kenya. The performance security must be valid for six (6) Months after the duration of the contract as specified in the tender document.
9.	Due Diligence	The Procuring Entity may at its own discretion conduct due diligence on the eligible bidders to establish their ability to perform the contract before award of the contract.

EVALUATION AND QUALIFICATION CRITERIA

Local Contractors Minimum Requirements.

Preamble.

The M-Pesa Foundation Focuses on health, education, economic empowerment. Funded by M-Pesa which has Footprint in all the 47 Counties. - Health, Education, Empowerment, Emergency Response.

The Foundation's purpose to transform lives is supported by its vision to transform lives through partnering for impactful community investments.

M-Pesa Foundation will finance **The Proposed Upgrading of Pwani University , Kilifi County.**

1. MANDATORY REQUIREMENTS

ITEM	MANDATORY REQUIREMENT (MR) – MAIN CONTRACTOR
MR1	Certificate of Incorporation / Registration from the Registrar of Companies / Businesses;
MR2	A copy of company's list of directors, beneficial owners, name if proprietor or names of partners (copy of CR 12) for the bidder not more than 1 year old
MR3	Current Category of Registration and valid annual practicing license with National Construction Authority (NCA) as a building works; NCA 6 and above.
MR4	Valid (not expired) NCA Contractor Annual Practicing License
MR5	Proof of power of attorney to the authorized person (If necessary)
MR6	KRA Pin certificate with eligibility for VAT
MR7	Valid Tax Compliance Certificates;
MR 8	Valid Current Single Business Permit - Must be from the county of the project or neighboring counties.
MR 9	Form of Tender Fully filled, signed and stamped
MR10	Full filled and stamped site Visit form
MR11	Valid tender security (Ksh.200,000).

NB: bidders who do not satisfy any of the above requirements including the mandatory requirements for the proposed specialist subcontractors shall be considered non-Responsive and their tenders will not be evaluated further.

2. FINANCIAL

- i. **Audited Financial Reports for the last three (3) years (2024, 2023 & 2022)**
Minimum average annual construction turnover of **Kshs. 50,000,000.00** calculated as total certified payments received for contracts in progress and/or completed within the **last three (3) years**.
- ii. **Evidence of Financial Resources (Cash in hand, lines of credit, overdraft etc.)**
The Bidder shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow: **(Provide Evidence)**

3. TECHNICAL

- i. **Evidence of Personnel Academic & Professional Qualifications**

Contractor's Representative and Key Personnel, as per schedule shown below.

Item No.	Position/specialization	Relevant academic qualifications	Minimum years of relevant work experience
1	1no. Project Manager	Degree certificate in Building construction or relevant field	3
2.	1No. Site Agent	Diploma in Building construction or relevant field	3
3	1No. Foreman	Certificate in Building construction or relevant field Minimum Grade III Certificate	3
4	3no. Supervisors; specialized in masonry, Carpentry, Electrical, Mechanical	Grade I or II Certificate or Artisan Grade	3

- ii. **Evidence of completed projects of similar nature, complexity or magnitude**
[Projects will only be considered if accompanied with documentary support; for on-going projects, and completed projects such as: - (Practical Completion Certificate, Certificate of Taking Over and Final Acceptance Certificate etc.)]
- iii. **Proof / Evidence of Ownership/Lease/Hire for all the relevant equipment and Transport**
(Marks will be awarded for plant and equipment with attached proof of ownership, which includes; registration documents (logbooks), certificate of importation and certificate of sale where appropriate.) or demonstration of access through lease or hire

Contractors' key equipment listed on the table

No.	Equipment Type and Characteristics	Minimum Number required
1.	Lorries	1
2	Pick-ups	1
3	Poker Vibrators	2
4	Concrete Mixers	1

- iv. At least **One (1) number** of contract(s) of a similar nature executed within the County, or the Neighboring County, that have been satisfactorily and substantially completed as a prime contractor, or joint venture member or sub-contractor each of **minimum value Kshs. 50,000,000.00** or *equivalent amount of money required is about 80% of the bid(s) price*

v. **Litigation History**

There shall be no consistent history of court/arbitral award decisions against the Bidder, in the **last 5 years**. All parties to the contract shall furnish the information in the appropriate form about any litigation or arbitration resulting from contracts completed or on going under its execution over the years specified. A consistent history of awards against the Bidder or any member of a **Joint Venture** may result in rejection of the Bid.

KEY PERSONNEL

Qualifications and experience of key personnel proposed for administration and execution of the Contract.

- (See Page 16 and page 17 above on the detailed scoring plan)
- For each personnel listed on page 16 and 17, attach CERTIFIED COPIES of Academic certificates, Curriculum Vita (CV) and Professional Affiliations if any.
- Include certificates for water and electrical technicians or profiles of electrical and plumbing works sub-contractors to be engaged for the specialist works.
- Summarize all personnel qualifications in the table below:

Position	Name	Years of Experience (general)	Years of Experience in Proposed Position
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

I certify that the above information is correct.

.....

Title

.....

Signature

.....

Date

Letter of recommendation from either; County public works department/ Ministry of Education etc./ Institution for similar Previous Works (attach).

Contracts Completed in the Last Two (2) Years

- See page 15 for the detailed scoring plans
- Attach copies of Award Letters, LPO's or Signed Agreement as evidence for previous executed works
- Summarize the previous executed works in the table below

Project Name	Name of Client	Type of Work and Year of Completion	Value of Contract (Kshs.)

I certify that the above works were successfully carried out and completed by ourselves.

.....
Title

.....
Signature

.....
Date

SCHEDULE OF ON-GOING PROJECTS

Details of on-going or committed projects, including expected completion date.

- See page 15 for the detailed scoring plans
- Attach copies of Award Letters, LPO's or Signed Agreement as evidence for ongoing works
- Summarize the ongoing works in the table below

Project Name	Name of Client	Contract Sum	% Complete	Completion Date

I certify that the above works are currently being carried out by ourselves.

.....
Title

.....
Signature

.....
Date

Financial Resources (Cash in hand, lines of credit, overdraft etc.)

- Refer to Page 9 & 10 Above

No.	Source of Finance	Amount (Kenya Shilling Equivalent)
1		
2		
3		
4		

Name, Address and Telephone, Telex and Facsimile of Banks

(This should be for banks that may provide reference if contacted by the employer)- Refer to Page 9 & 10 Above

Name	Address	Telephone	Telex	Facsimile

LITIGATIONS HISTORY

Please give details of any litigation in which your firm has been involved in

1. _____
2. _____
3. _____
4. _____
5. _____

TECHNICAL EVALUATION

The award of points for evidence provided or the standard forms considered in this section shall be as shown below;

PARAMETER

- (i) Contractor's details (5Mrks)
 - (ii) Contracts executed in the county or neighboring county as per ITT3, minimum of 3 projects with documentary evidence i. e award letter, client's contacts, practical completion certificate, certificate of making good defects. (15Mrks)
 - (iii) Ongoing construction projects - Maximum of 3 projects with documentary evidence i.e. award letter, clients contacts, interim payment certificates (9Mrks)
 - (iv) CV of company director including their experience in building construction. (6Mrks)
 - (v) CV of key personnel including their experience in building construction - Minimum of 3 personnel. (15Mrks)
 - (vi) Evidence of ownership of relevant transportation means & equipment to carry out the work - Include ownership/lease documents (10Mrks)
 - (vii) Audited financial reports for the last three years. Signed by directors and auditors. (10Mrks)
 - (viii) Availability of working capital and references from bank/financial institutions regarding access to credit. (10Mrks)
 - (ix) Health & Safety Plans (5Mrks)
 - (x) Works methodology (10Mrks)
 - (xi) Litigation history (2Mrks)
- Presentation & response (3Mrks)

TECHNICAL EVALUATION MATRIX.

No.	Evaluation Attribute	Technical Score	Max. Score
TS1	Contractor details	Provide a copy of the detailed company profile describing the business, contact details, physical location, field of expertise, licenses, certifications & accreditations (5 marks)	5
TS2	Construction projects completed in the last five (5) years - Minimum of 3 projects with documentary evidence i.e. award letter, client's contacts, practical completion certificate, certificate of making good defects (all to be provided or no points shall be awarded)	1. Projects of a similar nature and similar/or higher project value (At least One (1) number of contract(s) of a similar nature executed within the county, or neighboring county, that have been satisfactorily and substantially completed as a prime contractor, or joint venture member or sub-contractor each of minimum amount equivalent amount to about 80% of the bid(s) price). - (15 marks) 2. Projects of a similar nature but of lower project value - 9 marks) 3. Projects of a different nature - (6marks) 4. No completed projects - (0 marks)	15
TS3	Ongoing construction projects - Minimum of 3 projects with documentary evidence i.e. award letter, client's contacts (all to be provided or no points shall be awarded)	1. Projects of a similar nature and similar/or higher project value - (9 marks) 2. Projects of a similar nature but of lower project value - (6) marks) 3. Projects of a different nature - (3 marks) 4. No ongoing projects - (0 marks).	9

No.	Evaluation Attribute	Technical Score	Max. Score
TS4	CV of company director including their experience in building construction. CV with referees' contacts and copies of professional membership certificates to be provided.	1.Degree holder in relevant construction related field - 6 marks) 2.Diploma holder in relevant construction related field - (4 marks) 3.Certificate holder in relevant construction related field - (3 marks) 4. Artisan grade holder in relevant construction related field – (3 marks)	6
TS5	CV of key personnel including their experience in building construction - CV with referees' contacts and copies of professional membership certificates to be provided Minimum of 2 personnel i.e. site supervisor and project manager roles	1 Degree holders in relevant fields - (Max 8 marks) 2 Diploma holders in relevant fields - (Max 7 marks) 3.Certificate holders in relevant fields - (Max 6 marks) 4. Artisan grade holders in relevant fields - (Max 5 marks)	15
TS6	Evidence of ownership of relevant transportation means & equipment to carry out the work - Include ownership/lease documents	1.Proof of ownership of relevant transport means & equipment - (Max 10 marks) 2.Proof of lease of relevant transport means & equipment - (Max 5 marks) 3.No proof of ownership of relevant transport means & equipment - (0 marks)	10

TS7	Audited financial reports for the last three years. Must be signed by directors and auditors.	1.Average annual turn-over equal to or greater than the cost of the project - (10 marks) 2.Average annual turn-over above 50% but below 100% of the cost of the project - (6 marks) 3.Average annual turn-over below 50% of the cost of the project - (3 marks)	10
TS8	Availability of working capital and References from bank/financial institutions regarding access to credit.	1.Has working capital or access to credit or financial resources to finance the projected cash flow to undertake at least 50% of the works - (10 marks) 2.Has working capital or access to credit or financial resources to finance the projected cash flow to undertake at least 25% of the works - (5 marks) 3.No submission - (0 marks)	10

No.	Evaluation Attribute	Technical Score	Max. Score
TS9	Health & Safety Plans	1.Submission of a company health & safety management plan & policy - (4 marks) 2.Submission of a signed commitment to adhere to statutory obligations under OSHA 2007 & subsidiary legislations - (1 marks)	5
TS10	Works methodology	1.Submission detailed construction method outline, including sequences and coordination of works among all parties, addressing materials and labor access, storage areas, traffic management, site plan with facilities and access details - (3 marks) 2.Submission of a detailed program of works in Gantt chart format - (3 marks) 3.Details of proposed subcontractors to carry out specialist works under a domestic sub-contract – (4 marks)	10
TS11	Litigation history	Provide a copy of accurate information about any Litigation or arbitration resulting from contracts completed or ongoing under execution over the last 5 years - (2 marks)	2
TS12	Presentation & response	Presentation of a well bound, sequentially serialized (paginated) & tidy document with dully signed form of tender - (3 marks)	3
Total Maximum Score (marks)			100

TENDER FORMS

Instructions to Bidder. Bidder must complete and submit as part of the Form of Tender.

- (i) FORM OF TENDER
- (ii) SCHEDULE OF REQUIREMENTS TABLE (See BQs Attached)
- (iii) CERTIFICATE OF INDEPENDENT TENDER DETERMINATION
- (iv) SELF-DECLARATION FORM

FORM OF TENDER [To be completed by Bidder]

Quotation Addressed to (<i>Procuring Entity</i>)	
Date of Quotation	
Quotation Reference Number:	
Subject of Quotation	

1. We have examined and have no reservations to the Request for Tender document, and understand its full content and intent.
2. In compliance with your request for Tenders dated _____, referenced above, we offer to _____ (**Complete the works**) to cover and conform to our pricing listed in the attached in Table B. Tender Submission TABLE at a total price of Kenya Shillings _____ (in words) _____
3. We confirm that we are eligible to participate in public procurement and meet the eligibility criteria specified in Part 1: INSTRUCTIONS TO BIDDERS.
4. We also confirm that the _____ (**works to be constructed**) conform to the **BQs** and in conformity with technical specifications listed in PART 2: SCHEDULE OF REQUIREMENTS of this RFQ Document.
5. We undertake to adhere by the Code of Ethical Conduct for Suppliers, Contractors and Service Providers, copy available from _____ (*specify website*) during the procurement process and the execution of any resulting contract.
6. We confirm that the prices quoted are **fixed and firm** for the duration of the validity period and performance of the contract and will not be subject to revision or variation.
7. The validity period of our Tender is: _____ days from the time and date of the submission deadline (*number to be same as in the instructions to Bidders*).
8. We confirm we are not submitting any other Tender as an individual or firm, and we are not participating in any other Tender as a Joint Venture member or as a subcontractor.

9. 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.
10. We hereby 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.
11. 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.
12. We, the Bidder, have completed fully and signed the **FORM FOR DISCLOSURE OF INTEREST**- interest of the firm in the Procuring Entity, attached below.

The Delivery/Completion period offered is: _____ days from date of acceptance of Tender. The warranty period offered is _____ weeks.

Tender Authorized by:

Name and designation: _____

Signature: _____

Stamp: _____

i) SCHEDULE OF REQUIREMENTS TABLE (see also BQs ATTACHED)

(Procuring Entity will complete the list of items to be same as those on Part 2 Table A. Schedule of Requirements and Technical Specifications and Bidder should complete columns D and E).

A Item	B Description of Goods/works/services <i>(Procuring Entity to select one)</i>	C Quantity	D Unit price	E Total Price in Ksh
1	CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY	1		
2	RENOVATION WORKS AT PWANI UNIVERSITY			
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
ETC.				
TOTAL PRICE IN KSH.				

Signature: _____

And seal/Stamp

Name: _____

Position:

Authorized for and on behalf of *(specify name of tenderer)* _____

Date _____

ii) 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 +-+Tenders] in response to the request for Bids made by:_____
[Name of Bidder] do hereby make the following statements that I certify to be true and complete in every respect:

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

1. I have read and I understand the contents of this Certificate;
2. I understand that the Bidder 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 Bidder with authority to sign this Certificate, and to submit the Tender on behalf of the Bidder;
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 Bidder, whether or not affiliated with the Bidder, 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 Bidder discloses that [check one of the following, as applicable]:
 - a) The Bidder has arrived at the Tender independently from, and without consultation, communication, agreement or arrangement with, any competitor;
 - b) the Bidder has entered into consultations, communications, agreements or arrangements with one or more competitors regarding this request for Tenders, and the Bidder 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 Bids 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 Bidder, 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 Bidder and Date]

iii) SELF-DECLARATION FORM

We, the Bidder _____ (insert name) submitting our Tender in respect
of Tender No _____ for _____
_____ (insert Tender Title Description) for _____
_____ (insert Name of Procuring Entity)

DECLARE AS FOLLOWS:

That, We the Bidder including any entity or individual that directly or indirectly controls, is controlled by or is under common control with us, and any subcontractors, suppliers, project managers, consultants, manufacturers, service providers, agents, individuals, or any other party involved or to be involved for any part of the processes of procurement and contract execution related to the above Tender:

- a) have not engaged/will not engage in any corrupt or fraudulent practices in the processes of procurement and contract execution related to the above Tender as defined and/or described in the following:
 - i) the RFQ for the above Tender;
 - ii) Kenya's Public Procurement and Asset Disposal Act, 2015) and its attendant Regulations;
 - iii) Kenya's Anti-Corruption and Economic Crimes Act, 2013; and
 - iv) any such other Acts or Regulations of Government of Kenya;
- b) have not offered/will not offer any inducement to any member of the board, management, staff and/or employees and/or agents of (*Name of the procuring entity*);
- c) have not engaged/will not engage in any collusive or corrosive practice with other BIDDERS participating in the subject Tender;
- d) have not been sanctioned or debarred by any entity from participation in public procurement proceedings of Kenya.

That, what is deposed to herein above is true to the best of our knowledge, information and belief.

Name of the Bidder:[insert complete name of Bidder signing the Tender]

Name of the person duly authorized to sign the Tender on behalf of the Bidder:
.....[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]

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

Bidder's Name: _____

Date: _____

Non-Performed Contracts in accordance with contractor's requirements for Company's

☐ Contract non-performance did not occur since 1st January 2017 specified in contractor's requirements for Company's

☐ Contract(s) not performed since 1st January [insert year] specified in contractor's requirements for Company's

Year	Non-performed portion of contract	Contract Identification	Total Contract Amount (current value, currency, exchange rate and Kenya Shilling equivalent)
[insert year]	[insert amount and 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] Reason(s) for nonperformance: [indicate main reason(s)]	[insert amount]

Pending Litigation, in accordance with Company's contractor's requirements

☐ No pending litigation in accordance with contractor's requirements for Company's,

☐ Pending litigation in accordance with contractor's requirements for Company's as indicated below.

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: _____	
		Contract Identification: _____ Name of Procuring Entity: _____ Address of Procuring Entity: _____ Matter in dispute: _____ Party who initiated the dispute: _____ Status of dispute: _____	

Litigation History in accordance with contractor's requirements for Company's

☐ No Litigation History in accordance with contractor's requirements for Company's

☐ Litigation History in accordance with contractor's requirements for Company's 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 reason(s)]	[insert amount]

PART 2: SCHEDULE OF REQUIREMENTS**TABLE B. SCHEDULE OF REQUIREMENTS, TECHNICAL SPECIFICATIONS**

Table A. SCHEDULE OF REQUIREMENTS AND TECHNICAL SPECIFICATIONS

[Procuring Entity to complete Columns a-d and Bidder to complete Column Indicating YES or No and if NO indicate the specification of the offered item]

Item No	Description of Goods/works/services (Procuring Entity to select one) For Works attach drawings	Quantity	TECHNICAL SPECIFICATIONS (completed by Procuring Entity)	CONFORMITY WITH TECHNICAL SPECIFICATIONS (to be completed by Tenderer)
A	B	C	D	E
1	CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY	1		
2	RENOVATION WORKS AT PWANI UNIVERSITY	1		
		1		
		1		
		1		
		1		
		1		
		1		
		1		
		1		
1.		1		

ATTACHMENTS (to be listed below and supplied by Procuring Entity)

ETC.

TECHNICAL SPECIFICATIONS FOR WORKS/SERVICES

- a) A preliminary description of the proposed works/services and work method and schedule, including drawings and charts, as necessary, containing all required information by which the proposed works may be evaluated (e.g., technical characteristics, operational capacities, maintenance, environmental effect, etc.) together with manuals or instructions for use or any other relevant information and documentation, delivery/installation schedules, etc.;

Specification

Specifications applicable are those by the Ministry of Public Works General Specifications dated March 1976 (together with any amendments issued thereof). The Contractor should obtain a copy from the Ministry of Public Works. No liability will be admitted nor claim allowed in respect of errors in Contractor's tender arising from the lack of knowledge on the said specification.

Goods, materials and workmanship meeting other authoritative standards and which promise to ensure equal or higher quality than the standards specified, will also be acceptable

- b) A detailed statement of how the Bidder will carry out the works/services that will form an integral part of the Contract.
- c) Drawings

(Procuring Entity to attach Drawings (if any))

- 1. Architectural Drawings**
- 2. Structural Drawings**

CONTRACT AGREEMENT

- (1) THIS CONTRACT AGREEMENT is made _____ (specify date). Between _____ [Insert complete name of Procuring Entity], and having its principal place of Business at _____ [Insert address of Procuring Entity] and _____ [Insert name of contractor], and having its principal place of business at _____ [insert address of contractor].
- (2) WHEREAS the Procuring Entity invited Tenders for the Supply of Goods/works/services (select one) described in Table B, i.e. _____ [insert brief description of works] and has accepted a Tender by the Bidder in the sum of _____ [insert Contract Price in words and figures] (hereinafter called “the Contract Price”).
- (3) NOW THIS AGREEMENT WITNESSED AS FOLLOWS:
1. This Contract Agreement includes the following documents:
 - a) Table A. SCHEDULE OF REQUIREMENTS AND TECHNICAL SPECIFICATIONS.
 - b) Table B. TENDER SUBMISSION TABLE (see BQs Attached).
 - c) FORM OF TENDER.
 - d) Conditions of Contract.
 2. In consideration of the payments to be made by the Procuring Entity to the *Supplier/contractor/service provider* as hereinafter mentioned, the *Supplier/contractor/service provider* hereby covenants with the Procuring Entity to provide the Goods/works/services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
 3. The Procuring Entity hereby covenants to pay the *Supplier/Contractor/service provider* (select one) in consideration of the provision of the Goods/works/services (select one) and the remedying of defects therein; 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.
- (4) In WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Kenya.

For and on behalf of the Procuring Entity

Signed:[insert signature]
in the capacity of.....[insert title or other appropriate designation]
in the presence of..... [insert identification of official witness]

For and on behalf of the Contractor (select one)

Signed:[insert signature of authorized representative(s) of the
Supplier]
in the capacity of..... [insert title or other appropriate designation]
in the presence of..... [insert identification of official witness]

2. AGREEMENT AND CONDITIONS OF CONTRACT

The project will adhere to the Agreement and Conditions of Contract for Building Works published by the Joint Building Council, Kenya (April 1999 Edition), commonly known as the JBC Green Book.

Project Employer: The employer of this project will be **PWANI UNIVERSITY**

Project Financing: The **M-PESA FOUNDATION** will serve as the project financier and will be explicitly stated as such in the award letter.

Proposed Addendums: The following addendums will be incorporated to the standard conditions of the contract to safeguard our interests. These addendums will be signed as a separate sheet by both the contractor and the employer simultaneously with the signing of the main contract after awarding.

PROPOSED ADDEDUMS TO THE CONDITION OF CONTRACT

Agreement and Conditions of Contract(JBC)	
Clause 1.0 – DEFINITIONS	Sub-clause 1.22 shall be introduced and shall read: "Financier - Means organization, or entity that provides financial support to the project as detailed on the letter of award of contract." M-Pesa Foundation, P.O. Box 66827-00800 Nairobi, Kenya Sub-clause 1.23 shall be introduced and shall read: "The term Architect and Quantity Surveyor shall mean the project management firm Plateau Consultants Limited." The Project Manager is: Project Manager. Plateau Consultants Limited, P.O Box 73073 – 00200, Nairobi Telephone: +254-0202531381 Email: info@plateauconsultants.com
Clause 14.0 Insurance of the Works.	Clause to be entirely deleted.
Clause 16.0 Performance Bond	Sub-Clause 16.1; Performance bond shall be valid until the end of defects liability period and not practical completion. The bond shall be jointly bound to the employer & financier. Sub-Clause 16.2; To be deleted.
Clause 18.0 Program of works	Sub-Clause 18.1 will be amended by the addition of the words: "The Contractor will be responsible for arranging the Programme with all Sub-Contractors including the nominated sub-contractors and nominated suppliers."
Clause 30.0 Variations	Sub-clause 30.9 will be amended to read: "Should any part of the Works be omitted from the contract and that part is carried out by others; the Contractor shall not be entitled to reimbursement of the profit he would have made had he carried out the omitted part. The main contractor shall be entitled for profit and attendance at contract rates. Where the Contractor fails to meet the standards of materials and workmanship and the work affected is removed from the contract for the purpose of maintaining standards in the project, the Contractor will pay to the Employer any extra costs properly incurred in executing the relevant works."

Clause 31.0 Nominated Subcontractors	Sub-clause 31.21 shall be introduced and shall read: "The Contactor will be required to ensure that all nominated sub-contractors enter into the sub-contract agreement issued under the authority of the Kenya Association of Building and Civil Engineering contractors and as amplified or varied hereinafter and he must deposit with the Employer & Financier a signed extract of the relevant details thereof."
Clause 34.0 PAYMENTS	Sub-Clause 34.2 will be amended to read: "Upon receipt of the application and verifying the amount, the Quantity Surveyor will prepare an interim valuation of the work completed and materials present on-site during the relevant period, within seven days. This valuation will then be sent to the Financier. Copies of the valuation will also be provided to the Employer and the Architect. Upon receiving the interim valuation, the Financier will verify the amount within four days and provide confirmation to the Architect. A copy of this confirmation will be sent to the Quantity Surveyor and the Employer." Sub-Clause 34.3 will be amended to read: " The Architect shall issue an interim payment certificate within three days from the date of receipt of the Financier's payment verification. The payment certificate shall be copied to the Employer." Sub-Clause 34.10 will be amended to read: " The Architect may, with the consent of the Financier, include in an interim certificate the value of materials and goods which have been stored elsewhere in safe custody by the Contractor." Sub-Clause 34.16.2 will be amended to read: " On the issue of the certificate of practical completion, the Architect shall issue a certificate for one half of the total amount then so retained and the Contractor shall, on presenting any such certificate to the Financier, be entitled to payment of the said amount within fourteen days from presentation." Sub-Clause 34.20 will be amended to read: " The final account shall be agreed between the Contractor, Quantity Surveyor, the Financier, and the Architect. If the Contractor does not sign the final account within thirty days after being so requested to do, the Architect may issue the final certificate based on the final account approved by the Financier. The final account shall be copied to the Employer." Sub-clause 34.14 and 34.15 shall be deleted.
Clause 35.0 FLUCTUATIONS	Sub-clause 35.2 to and including 35.8 shall be deleted.

APPENDIX TO THE CONDITION OF CONTRACT

The appendix of the Contract will be filled as follows: -

13.0 Percentage to cover professional fees for insurance purposes only: 12%

16.1 Name of Contractor's surety: _____

16.1 Amount of surety: 10%

16.2 Name of Employer's surety: N/A

16.2 Amount of surety: N/A

18.1 Period for submission of programme: _____

20.1 Period for possession of site: _____

20.2 Contract period: _____

20.2 Date for commencement of Works: _____

20.2 Date for practical completion: _____

31.14)

32.4.5) Name of bank for purposes of Central Bank of Kenya (CBK)

34.6) interest calculation:

34.1 Interval of application of payment certificates: 4 Weeks

34.4 Minimum amount of payment certificate: None

34.12 Percentage of certified value retained: 10%

34.12 Limit of retention fund: 10%

34.15 Periods for release of interest on retention money to Contractor: N/A

34.17 Period of final measurement and valuation: Six months

41.6 Defects liability period: Six months

43.1 Damages for delay in completion: At the rate of 0.05%
of the contract sum per day

Signature & Stamp of Tenderer

Date.....

Confidential Business Questionnaire

You are requested to give the particulars indicated in Part 1 and either Part 2 (a), 2 (b) or 2(c) and (2d) whichever applies to your type of business.

You are advised that it is a serious offence to give false information on this Form.

Part 1 – General

Business Name

Location of business premises: Country/Town.....

Plot No..... Street/Road

Postal Address..... Tel No.....

Nature of Business.....

Maximum value of business which you can handle at any time:

Kenya Shillings.....

Name of your bankers.....

Branch.....

Part 2 (a) – Sole Proprietor

Your name in full..... Age.....

Nationality..... Country of Origin.....

Citizenship details

Part 2 (b) – Partnership

Give details of partners as follows:

	<i>Name in full</i>	<i>Nationality</i>	<i>Citizenship Details</i>	<i>Shares</i>
1.				
2.				
3.				
4.				

Part 2(c) – Registered Company

Private or Public

State the nominal and issued capital of the company:

Nominal Kshs.

Issued Kshs.

Give details of all directors as follows:

	<i>Name in full</i>	<i>Nationality</i>	<i>Citizenship Details*</i>	<i>Shares</i>
1.				
2.				
3.				
4.				

* Citizenship either by birth, nationalization or

Part 2(d) Interest in the Firm:

Are there any person/persons in the employment of M-Pesa Foundation WHO has interest in this firm? Yes/No
..... (Delete as necessary)

I certify that the above information is correct.

.....

Title

.....

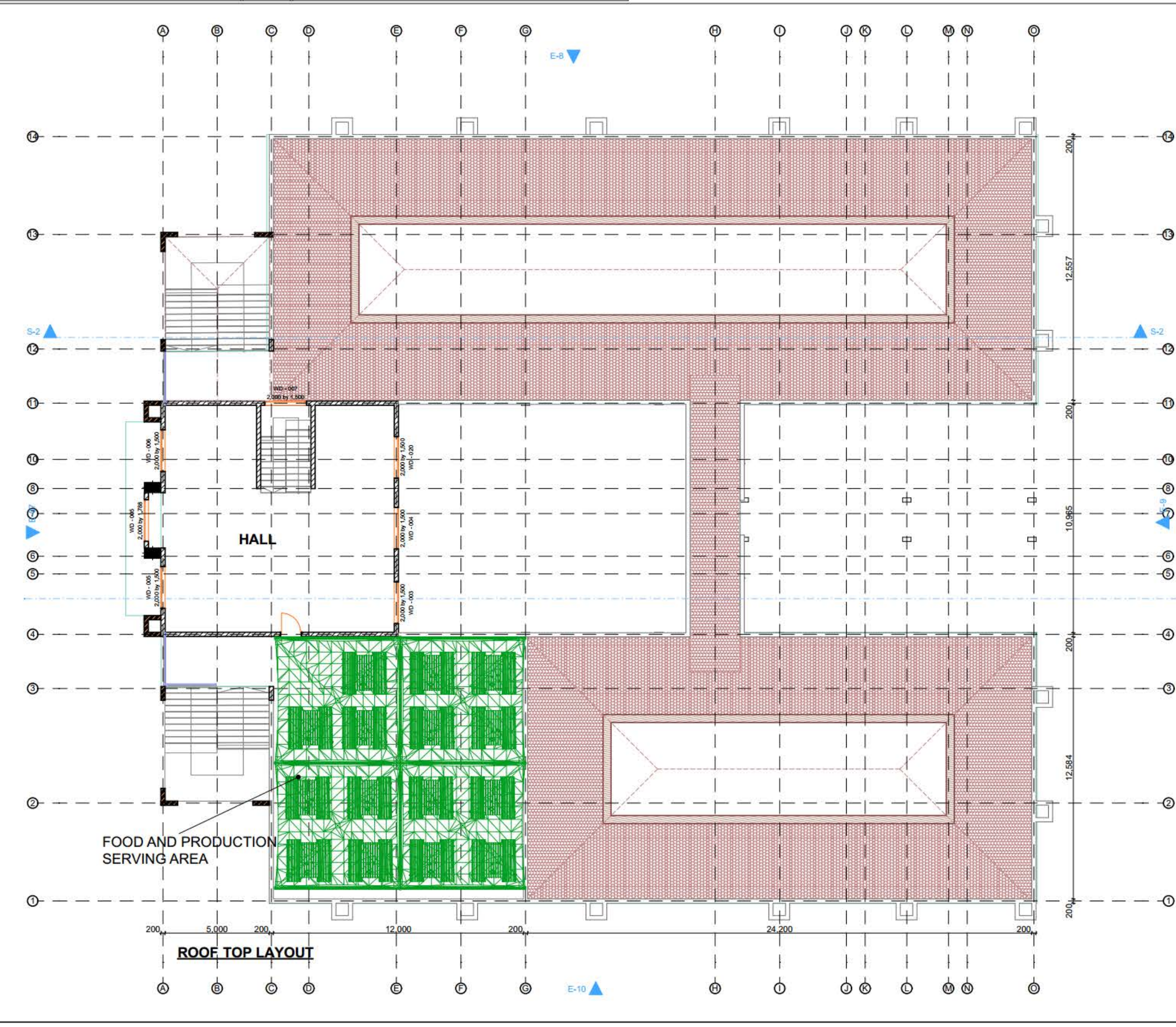
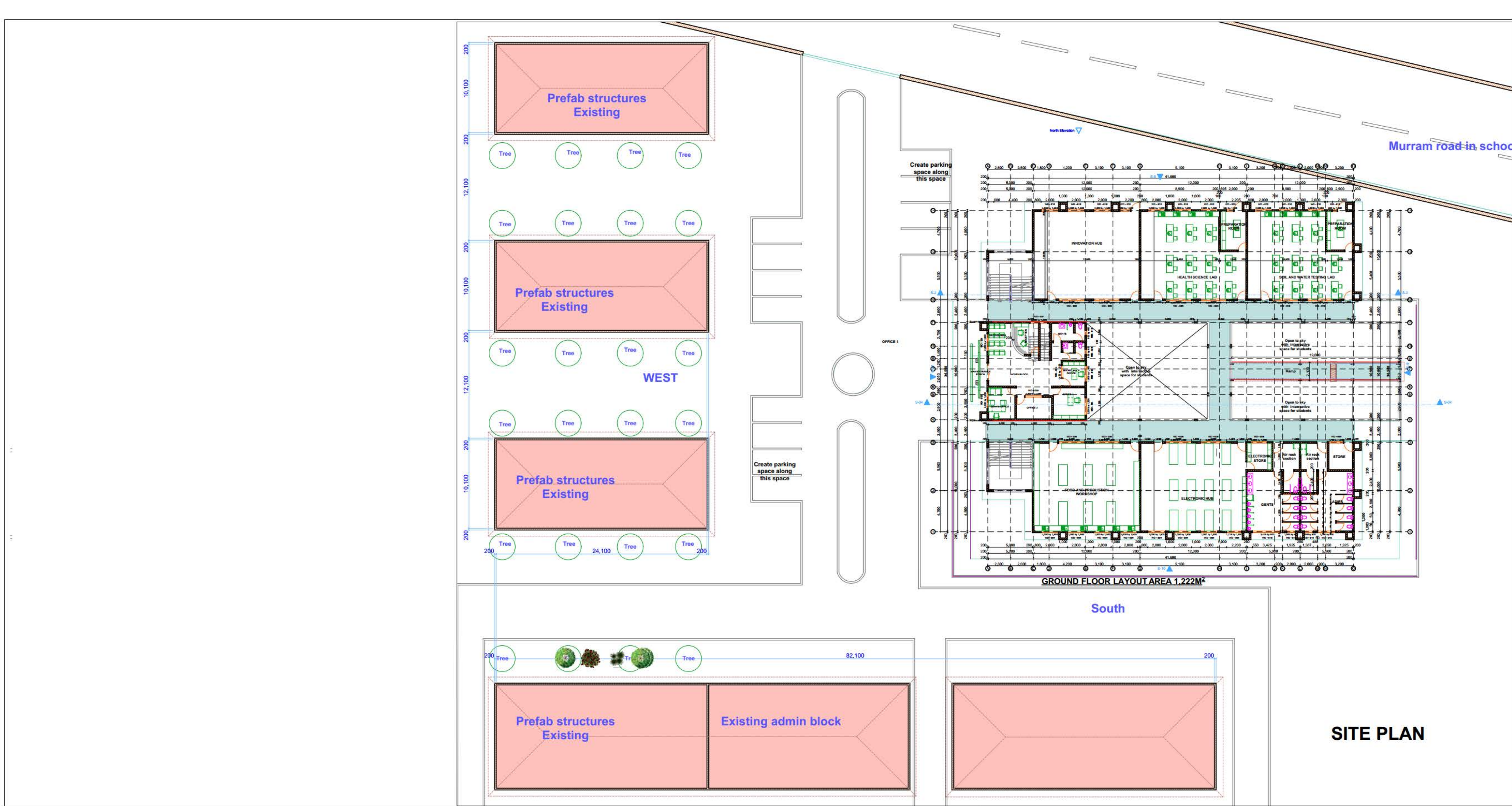
Signature

.....

Date

** Attach proof of citizenship*

ARCHITECTURAL DRAWINGS



NOTES

1

This drawing is protected under the copyright act and cannot be used or reproduced in part or in whole without the authors consent

2

Read only figured dimensions.

3

All construction work is to comply with the latest K.B.S. standard code of practice, local authority By- Laws, and fire regulations.

4

P.v. denotes permanent ventilation and must be provided above all openings where indicated or shown

5

All walls to be reinforced with hoop iron at every alternating course.

6

Water meters to be 300mm above ground level.

7

D.p.c. denotes damp proof course and to be of bituminous felt placed under every wall and must be atleast 150mm above ground level

8

All r.e. works to structural engineers details

9

Provide atleast one row of precast concrete 600x600x50mm paving slabs around the building unless otherwise shown.

10

Contractors must verify all figured dimensions and level on site before commencement of works and any discrepancy must be reported to the architect for clarification.

11

All levels shown are finished levels unless otherwise stated

12

All surface beds to be cast on well compacted and well consolidated filling

13

Depth of foundation to be decided on site and trenches to be minimum 600mm below reduced ground level.

14

All pipes and services passing under road works to be encased in 150mm thick concrete surround and atleast 450mm below reduced ground level.

REVISIONS.

NO.	DATE.	REMARKS.
1.		Increased corridor width from 1,600mm to 2,000mm
2.		

Client:

Project Managers:

nlateau

CONSULTANTS LIMITED

Architect:

nlateau

CONSULTANTS LIMITED

4th Floor, New Rehema House

Rhapha Road, Westlands

Nairobi, Kenya

info@nlateauconsultants.com

Job title:

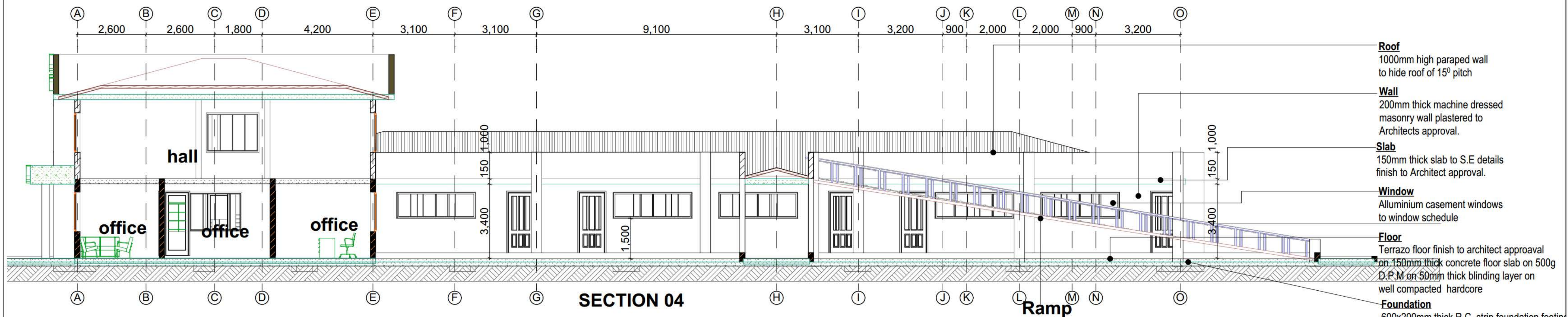
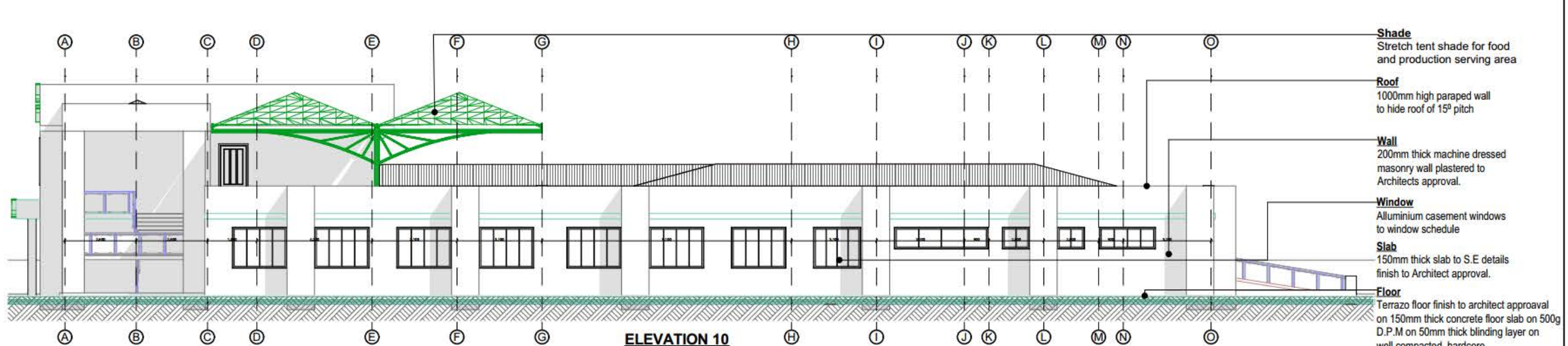
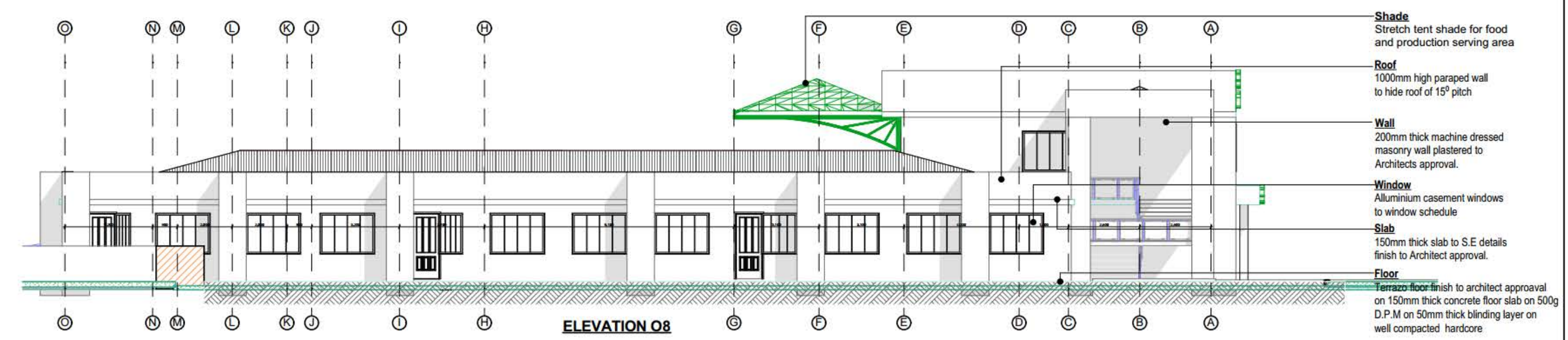
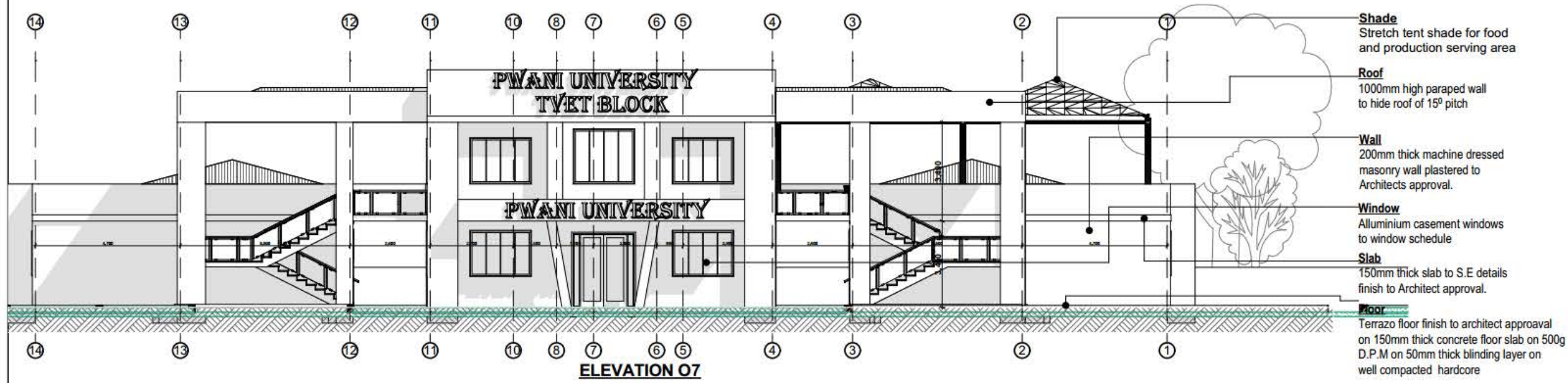
PROPOSED CONSTRUCTION

PWANI UNIVERSITY BLOCK

Drawing title:

WORKING DRAWING

Job number.	cad file name	date:	revision
Drawing No.	scale	checked.	drawn by:
	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 authors consent

2

Read only figured dimensions.

3

All construction work is to comply with the latest K.B.S. standard code of practice, local authority By- Laws, and fire regulations.

4

P.v. denotes permanent ventilation and must be provided above all openings where indicated or shown

5

All walls to be reinforced with hoop iron at every alternating course.

6

Water meters to be 300mm above ground level.

7

D.p.c. denotes damp proof course and to be of bituminous felt placed under every wall and must be atleast 150mm above ground level

8

All r.c. works to structural engineers details

9

Provide atleast one row of precast concrete 600x600x50mm paving slabs around the building unless otherwise shown.

10

Contractors must verify all figured dimensions and level on site before commencement of works and any discrepancy must be reported to the architect for clarification.

11

All levels shown are finished levels unless otherwise stated

12

All surface beds to be cast on well compacted and well consolidated filling

13

Depth of foundation to be decided on site and trenches to be minimum 600mm below reduced ground level.

14

All pipes and services passing under road works to be encased in 150mm thick concrete surround and atleast 450mm below reduced ground level.

REVISIONS.

NO.	DATE.	REMARKS.
1.		Increased corridor width from 1,600mm to 2,000mm
2.		

Client:

Project Managers:

plateau

CONSULTANTS LIMITED

Architect:

plateau

CONSULTANTS LIMITED

4th Floor, New Rehema House
Rhapia Road, Westlands
Nairobi, Kenya
info@plateauconsultants.com

Job title:

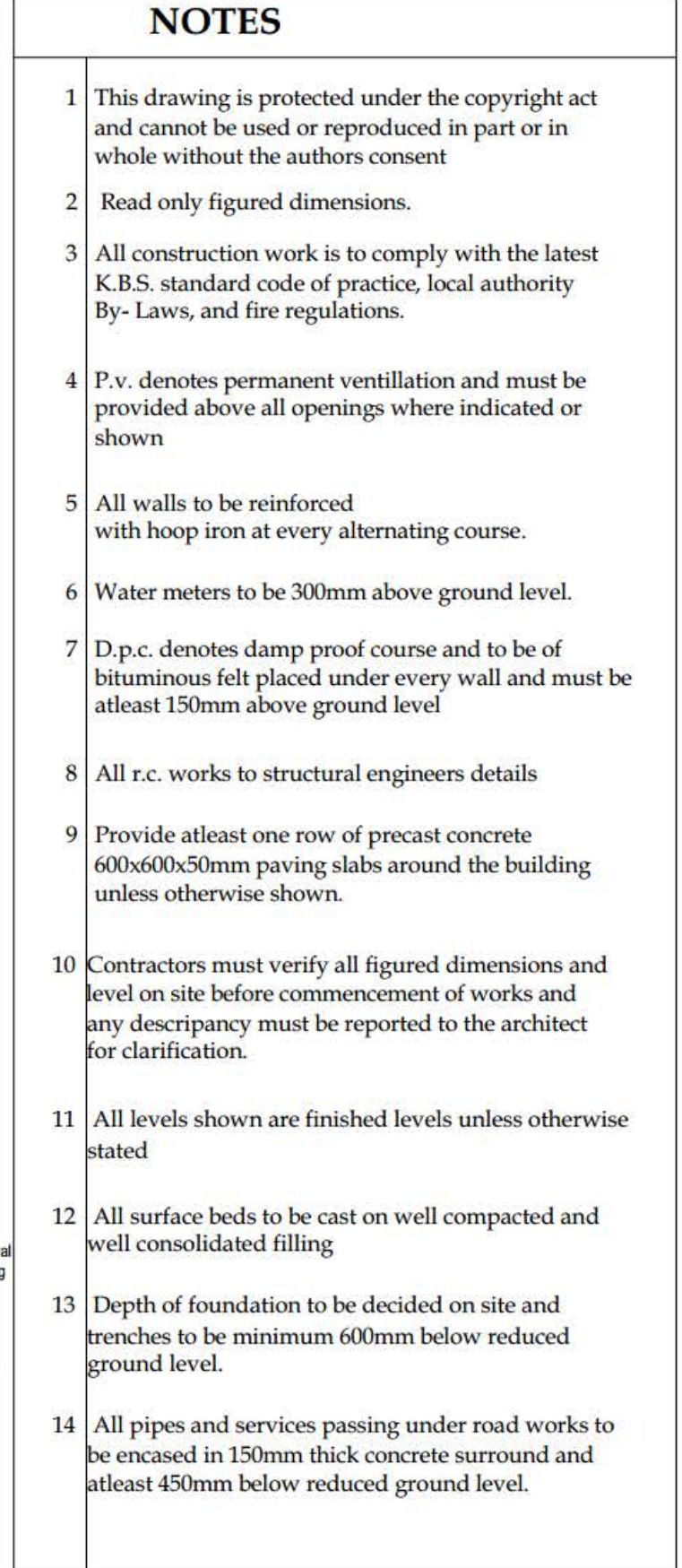
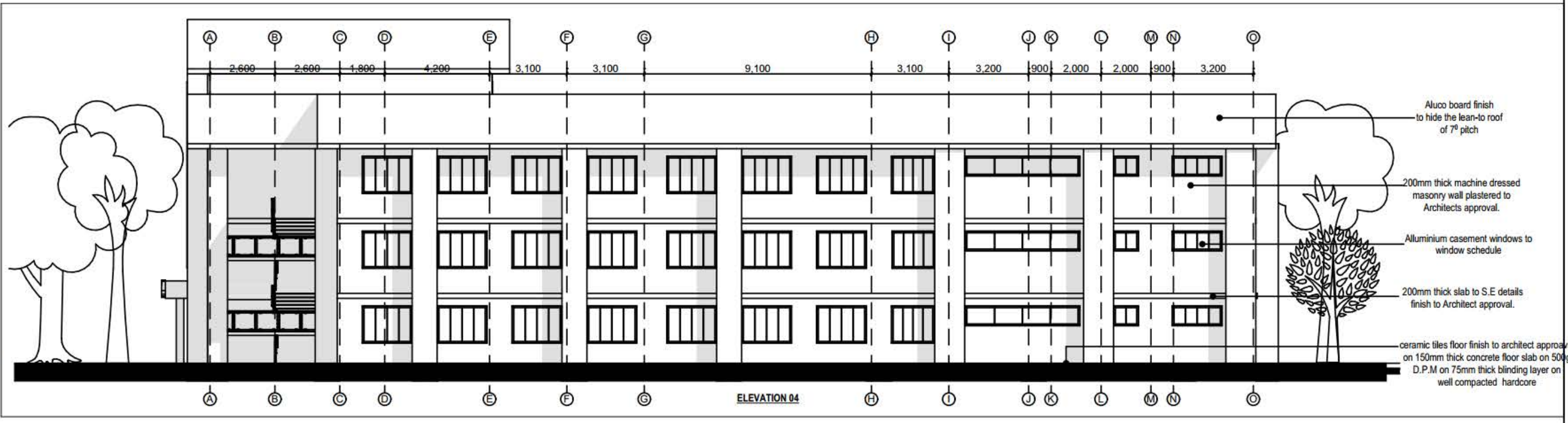
PROPOSED CONSTRUCTION
PWANI UNIVERSITY BLOCK

Drawing title:

WORKING DRAWING

Job number.	cad file name	date:	revision
Drawing No.	scale	checked.	drawn by:

1:100



Client:

Architect:

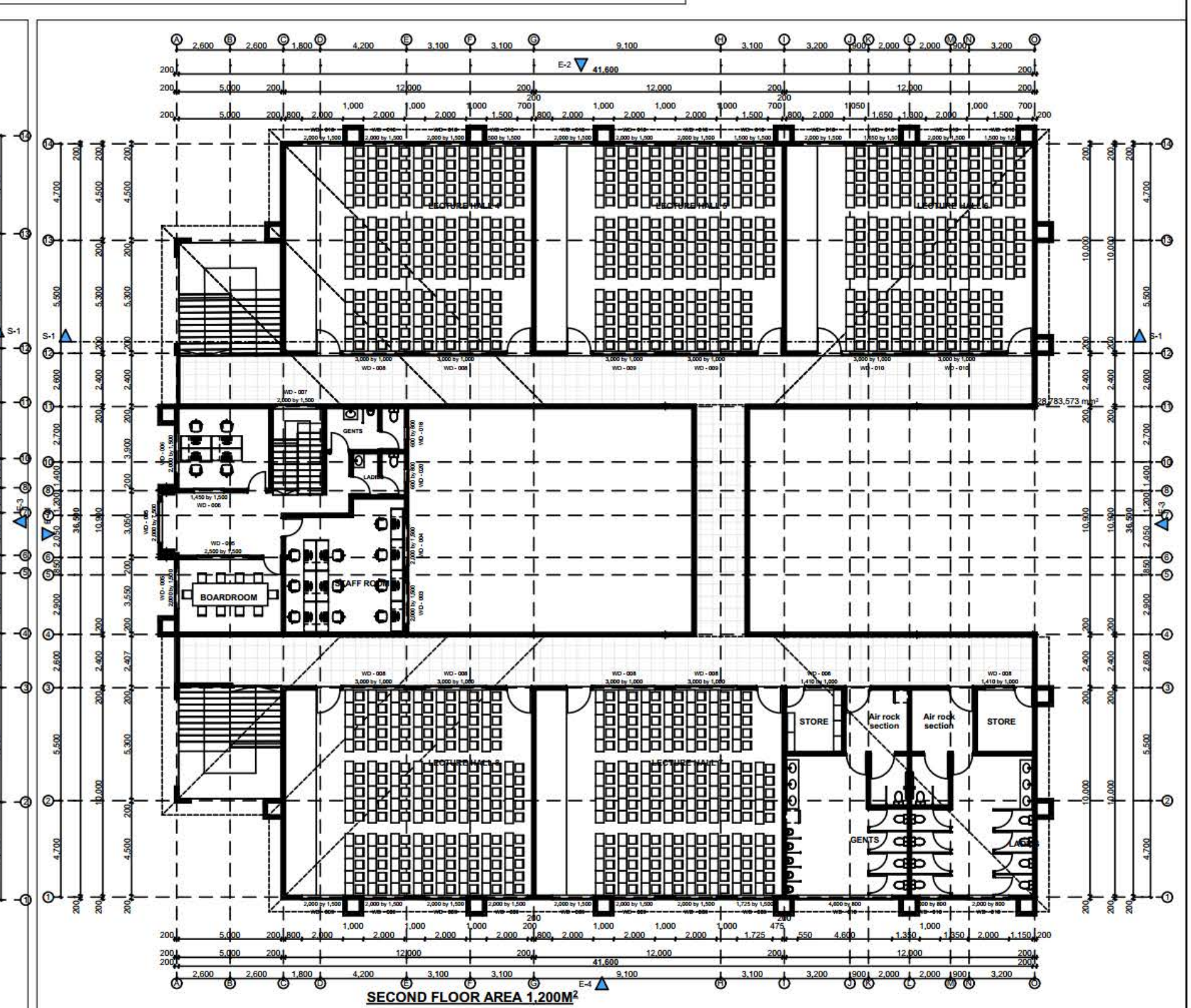
plateau
CONSULTANTS LTD

4th Floor, New Rehema House
Rhapta Road, Westlands
Nairobi, Kenya
info@plateauconsultants.com

Drawing title:

WORKING DRAWING

Job number.	cad file name	date :	revision
Drawing No.	scale 1:100	checked.	drawn by:



BILLS OF QUANTITIES

PROPOSED BILL OF QUANTITIES FOR UPGRADING PWANI UNIVERSITY

GRAND SUMMARY

SR NO	DESCRIPTION	SUM (KSHS)
1	CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY	
2	RENOVATION WORKS AT PWANI UNIVERSITY	
	TOTAL FOR UPGRADING PWANI UNIVERSITY CARRIED TO FORM OF TENDER	

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GRAND SUMMARY

SR NO	DESCRIPTION	SUM (KSHS)
1	Preliminaries	
2	Ground Floor	
3	First Floor	
4	Roof Terrace	
5	Mechanical Installations	
6	Electrical installation	
7	Provisional sums and prime costs;Branding,Artwork and Landscaping	4,114,000
	TOTAL FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY	

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>PRELIMINARIES</u> IMPORTANT PRICING NOTEThe contractor is required to price all items of preliminaries with monetary implications to the contract. Where the contractor indicates a lumpsum for all the preliminaries or where the contractor has priced some items and not others, the total preliminaries priced shall be deemed to include prices for all the items The Contractor is required to check the numbers of the pages and should any is found to be missing or in duplicate or the figures or writing indistinct, he must inform the Quantity Surveyors at once and have the same rectified. Should the Contractor be in doubt about the precise meaning of any item, word or figure, for any reason whatsoever, or observe any apparent omission of words or figures he must inform the Quantity Surveyors in order that the correct meaning may be decided upon before the date for the submission of the Tender. No liability whatever will be admitted nor claim allowed in respect of errors in the Contractor's tender due to mistakes in the Bills of Quantities which should have been rectified in the manner described above. The Contractor shall not alter or otherwise qualify the text of these Bills of Quantities. Any alteration or qualification made without authority will be ignored and the text of the Bills of Quantities as printed will be adhered to. The Contractor shall be deemed to have made allowance in his prices generally to cover items of Preliminaries or additions to Prime Cost Sums or other items, if these have not been priced against the respective items. All items of measured work shall be priced in detail and tenders containing lump sums to cover trades or groups of work must be broken down to show prices for each item before they will be accepted. Lump sums to cover items of Preliminaries shall likewise be broken down if so required. In no case will any expenses incurred by Contractors in preparation of this Tender be reimbursed. The copyright of these Bills of Quantities is vested in the Quantity Surveyors and no part thereof may be reproduced without their express permission given in writing. The Contractor is solely responsible for the accurate ordering of materials in accordance with the Drawings and Architect's Instructions and no claims for any loss or expense will be entertained for orders for materials based upon the Bills of Quantities. The Contractor shall note that the VAT Act requires that Value Added Tax shall be charged on the value added in the provision of building services. The Contractor is however advised that the pricing of their rates should be <u>inclusive</u> of VAT on inputs. The Bills of Quantities must be priced in Kenyan currency, i.e. Shillings and Cents. SECTION NAME 1 PRELIMINARIES GENERAL DESCRIPTION OF MATERIALS AND WORKMANSHIP 2 BUILDER'S WORK 3 SERVICES LIST OF APPENDICES LIST OF DRAWINGS USED IN PREPARATION OF BILLS OF QUANTITIES LIST OF PRIME COST AND PROVISIONAL SUMS				
	<i>Carried to Collection</i>				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	PARTICULAR MATTERS PRELIMINARY PARTICULARS A. PARTIES The "Financier" is Mpesa Foundation, P.O Box 668327 – 00800, Nairobi The "Quantity Surveyor","Architect" and 'project Manager' is: PLATEAU CONSULTANTS LTD P.O. BOX 73073-00200 Nairobi For the purpose of the Works which are under the control of the Consultants above, the respective Consultants shall be deemed to be vested with the duties and be representatives of the Financier. B. LOCATION OF SITE The site of the proposed works is plotPWANI UNIVERSITY,KILIFI COUNTY.The Contractor shall be deemed to have visited the site and satisfied himself as to:-a) The nature and position of the site and availability of the materials specified for the worksb) The number and size of existing structures to be demolished as well as the bushes, trees and amount of the rubbish or debris to be cleared away before commencementc) The nature, current usage, proximity and size of adjoining property and buildingd) The availability of land for the erection and positioning of all temporary structures, plant and materials necessary for the execution of the works.The contractor shall obtain approval from the relevant County Authority in all matters relating siteaccess and erection of temporary structures and must ensure adherence to the requirements of these authorities.e) No claim will be allowed for travelling or other expenseswhich may be incurred by the Contractor in visiting the site or preparing the tender for the works.				
	<i>Carried to Collection</i>				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	CONTRACT PARTICULARS FORM OF CONTRACT A. The Contractor will be required to enter into a contract with the Employer under the terms of the Agreement and Conditions of Contract for Building Works 1999 edition published by the Joint Building Council, Kenya, 2 copies of which may be inspected at the Quantity Surveyors office. The Contractor's attention is called to the proposed addendums of the conditions of Contract attached in the tender document, which shall be read as incorporated herein and he shall allow any sums which he considers necessary for the observance of such conditions, together with sub-clauses used in application. GENERAL MATTERS B. SUFFICIENCY OF TENDER The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his Tender for the Works and of the rates and prices stated in the priced Bills of Quantities, which rates and prices shall cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the Works. C. STAMP CHARGES The Contractor shall allow for the payment of all Stamp Charges in connection with the Surety Bond. D. DEFINITIONS AND ABBREVIATIONS Terms used in these Bills of Quantities shall be interpreted as follows:- "Approved" shall mean approved by the Architect. "as directed" shall mean as directed by the Architect. "B.S." shall mean the current British Standard Specification published by the British Standards Institution, 2 Park Street, London W.1. England. "C.M." shall mean Cubic Metres. "S.M." shall mean Square Metres. "L.M." shall mean Linear Metres. "MM" shall mean Millimetres. "Kg." shall mean Kilogrammes. "No." shall mean Numbers. E. FIGURED DIMENSIONS Figured dimensions are to be followed in preference to dimensions scaled from the Drawings; but whenever possible dimensions are to be taken on the Site or from the Buildings. Before any work is commenced by Sub-Contractors or Specialist Firms, dimensions must be checked on the Site and/or buildings and agreed with the Contractor, irrespective of the comparable dimensions shown on the Drawings. The Contractor shall be responsible for the accuracy of such dimensions.	Item			
	<i>Carried to Collection</i>				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	GENERAL SPECIFICATION				
A	The Contractor is referred to the General Specifications for building Works given with the tender and must allow for all costs in complying with these clauses. For the full description of materials, workmanship and method of execution of the works, the Contractor is referred to the General Specifications and which shall be followed in all respects unless it conflicts with the General and Particular Preliminaries, Trade Preambles or other items in this Bills of Quantities. In the event of such conflict, then the provision of the General and Particular Preliminaries, Trade Preambles and these Bills of Quantities shall take precedence	item			
	EXISTING SERVICES TO BE RETAINED				
B	Special precaution shall be required throughout the contract period to avoid damage to existing structures, roads, lawns, cables, drains and other services. The Contractor shall allow for making good any damage arising from his actions during execution of this contract at his own expense	item			
	LABOUR CAMPS				
C	The Contractor will generally NOT be permitted to house labour on site except on written request and subsequent express written authority from the Architect.	item			
	SITE OFFICES				
D	a) The Contractor shall erect and maintain temporary offices accommodation for his own use and the use of Nominated Sub-contractors and a team of consultants. Each site office shall be constructed to the approval and full satisfaction of the Architect and shall provide new necessary furniture, new equipment such as projector and display screen and the like. The Contractor shall insure the office and furniture against fire theft, and natural calamities and provide day and night security. The Contractor will specifically provide a minimum of 1) A meeting room with a sitting capacity of not less than 20 persons 2) Clean sanitation facilities 3) One office for the Clerk of Works and 4) One Office for the Resident Project Design Team Each office must have a reliable working laptop computer which must be kept in working order throughout the period of the contract including all the necessary basic computer application programmes such as the MS Office suite, AutoCAD, MS Project, a reliable email connection, a laser printer A4 and ink printer A3, with all necessary stationery and accessories. Appropriate power and lighting shall be provided.	item			
	CONTRACT COMPLETION PERIOD				
E	The contract completion period in accordance with the Agreement and Conditions of Contract for Building Works must be strictly adhered to. The Architect shall strictly monitor the Contractor's progress in relation to the progress chart and should it be found necessary, the Architect shall inform the Contractor in writing that his actual performance on site is not satisfactory. In all such cases, the Contractor shall accelerate his rate of performance, production and progress by all means such as additional labour, plant etc. and working overtime all at his cost.	item			
	MONTHLY DOCUMENTED REPORTS				
F	The contractor will be required to prepare and circulate projects reports on a weekly basis clearly indicating the status of the project in terms of work done/progress in relation to the master program given, work projections, number of labourers on site, equipment on site, materials on site, site instruction with cost and time implication issued, information/instruction required and any other item as shall be directed by the architect.	item			
	<i>Carried to Collection</i>				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
A	TEMPORARY STRUCTURES AND HOARDING	item			
	a) The contractor shall allow for providing and clearing away on completion of the works temporary hoarding refer to appendix site plan showing length around the entire site approx 240m, gates, planked walkways, guard rails etc. as may be necessary for the protection of the workers, the general public, and for the proper execution of the works.b) As such, temporary structures shall be constructed with the approval of the Architect and to his full satisfaction and in such a manner as to cause minimum inconvenience and disturbance to occupants of adjacent buildings and users of the adjacent roads.c) All such temporary structures shall comply in all aspects with the national laws, rules and regulations currently in force and applicable to such structures. d) All temporary structures shall be erected in a manner so that the unloading of materials causes minimum obstruction to the use of adjacent roads and other facilities.e) All temporary structures shall be kept properly lighted throughout the periods of darkness and any corners or projections shall be painted white.f) Temporary structures shall not be used or permitted to be used for advertisement purposes except with the consent of the Architect. g) All temporary structures shall be maintained at all times in good order and good condition to the satisfaction of the Architect.h) All temporary structures shall be removed when so required by the Architect or at the end of the period for which it is required.i) The Contractor shall indemnify and shall keep the employer indemnified against any expenses, loss, claim or suits arising out of or in connection with the temporary structures.j) The Contractor shall pay all County Authority or other charges payable in connection with temporary structures.k)The contractor shall allow for any necessary relocation of position of the temporary structures as directed or as may be necessary.l) The cost per linear metre of hoarding shall be KShs...../m.*Contractor to insert rate.m) Should the contractor decide to construct a permanent boundary wall in the place of hoarding, then a deduction based on the rate in item (l) above shall be applied to the total preliminaries amount.				
	PROGRESS SCHEDULE				
	Immediately after signing the contract the Contractor is to prepare a Time progress Chart, using MS Project Software, showing the time and order in which he proposes to carry out the works within the total construction time stated in the contract. The chart will show in detail the construction time and order in which each section of the work is to be carried out and be sub-divided into trades and tasks. If the Contractor proposes sectional completion of the project he must plan this in detail including access roads, and services and this shall be reflected on the chart.Upon the letting of the Sub-contractors work, the Contractor is to incorporate times and details of each separate sub-contractor work which information is to be agreed by the Sub-contractor and the chart will be so designed to accommodate this information.At the end of each week the Contractor is to mark on the chart in a different colour the actual time taken to complete the respective stages and sections of the work. The Contractor shall obtain the Architect's approval on the chart and then shall supply copies to the Architect and Quantity SurveyorIf at any time it should appear to the Architect that the actual progress of the works does not conform to the approved programme progress schedule the Contractor shall produce at the request of the Architect a revised programme showing the modifications and accelerations to the approved programme necessary to ensure completion of the works within the agreed contract period.The submission of and approval by the Architect of such revisions and accelerations shall not entitle the Contractor to any extra payment or extension of time and shall not relieve the contractor of any duties or obligations or responsibilities under the contract.Construction programme - Condition Precedent It will be a contractual condition that the tenderer shall execute the contract to completion within the time period specified in the form of tender . The tenderer will also provide a realistic programme of execution of the works (progress chart) that shall become binding in the event of the tenderer being awarded and subject to any amendments that may be made with the approval of the Architect.Works projection programme At every site meeting, the contractor is to give a works projection program for works to be executed as shall be directed by the Architect.				
C	SIGN BOARD	item			
	The Contractor shall provide and erect where directed and maintain during the whole period of the building operation and remove at completion, one approved temporary notice board to the Architect's standard design giving a brief description of the works and showing the names of the employer and the consultants, with sufficient space to append the names of the sub-contractors and suppliers when known. The lettering concerning the Architect, Quantity Surveyor and Engineer is not to be more than 50mm high. The contractor shall allow for any necessary relocation of position as directed or as may be necessary.				
D	SUFFICIENCY OF TENDER	item			
	The contractor shall be deemed to have satisfied themselves before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices stated in the priced Bills of Approximate Quantities. Rates and prices quoted shall cover all his obligations under the contract and all matters and things necessary for the proper completion and maintenance of the works. No claim arising from his failure to comply with this recommendation will be considered.				
	<i>Carried to Collection</i>				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	NATIONAL CONSTRUCTION AUTHORITY LEVY				
A	The Contractor's attention is drawn to National Construction Authority (NCA) Act No. 41 of 2011. This must be adhered to and done to the full satisfaction of the aforementioned Act. The Contractor will be required to make an application for registration of the project with National Construction Authority on behalf of the Employer. The contractor shall therefore allow in the preliminaries of this contract for all costs arising or resulting therefrom and shall make arrangements accordingly.	item			
	NEMA REPORT AND APPROVAL				
B	Allow a Prime-Cost sum of Kenya Shillings One hundred Thousand (KShs 100,000/=) only for NEMA Report and Approval	Item			100,000.00
	TRAINING LEVY				
C	The Contractor's attention is drawn to legal notice No. 237 of October 1971 which requires payment by the Contractor for a training levy at the rate of 1/4 % of the Contract sum on all contracts of more than Kshs. 50,000/= in value .The contractor shall allow in the preliminaries of this contract (basic rates column) for all costs arising or resulting therefrom.	item			
	VALUE ADDED TAX (V.A.T.)				
D	The Contractor's attention is drawn to V.A.T. PUBLIC NOTICE NO. 6 of 5th August, 1993 regarding the Finance Bill 1993 which expanded the V.A.T. base to cover construction services amongst other items and any subsequent amendments. The Contractor shall familiarise himself with the said notice and allow in all his Bills of Quantities rates (Excluding P.C. and Provisional Sums) for the net tax. (i.e less input tax where applicable) as required by law. Any additional information and assistance concerning the application of the said notice should be directed to the office of the Commissioner of Value Added Tax	item			
	FINANCE ACT 2018				
E	The Contractor's attention is drawn to the Finance Act 2018 in totality, but more specifically VAT on petroleum products inter alia.The Contractor shall familiarise himself with the said act and allow in all their Bills of Quantities rates (Excluding P.C. and Provisional Sums) for the net tax. (i.e less input tax where applicable) as required by law. Any additional information and assistance concerning the application of the said act should be directed to the office of the Commissioner of Value Added Tax	item			
	DOWNTAKINGS				
F	All materials arising from demolitions and dountakings are deemed to be the property of the employer unless stated otherwise in this contract document. No claim will be entertained on account of employer excising this right to retain the materials All dountakings shall be carefully removed, taken down, dismantled and stored on site until instructed by the Architect to remove from the site. Such materials shall only be incorporated in the new works if required by the Architect in which case appropriate adjustments will be made in the final account for the cost of labour, screws etc for fixing such dountakings in the new works.	item			
	TENDER DOCUMENTS				
G	The documents forming the contract are to be taken as mutually exclusive of one another. In case of any discrepancy between the documents, they documents will be interperated as:a) Contract agreementsb) Letter of acceptancec) Form of tenderd) Contract drawingse) Preliminaries (Particular & General items)f) Bills of quantitiesg) Specificationsh) Signature page and notes i) Instructions to tenderersj) Form of surety undertakingk) Drawings listed in the schedule attached to the tender document	item			
	<i>Carried to Collection</i>				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SITE LEVELS				
A	Before commencing work the Contractor must arrange for and agree with the Architect and Quantity Surveyor the existing site levels and similarly establish and agree on a bench mark. The contractor will be required prior to commencing any work to take levels for this purpose to satisfaction of the architect and engineer. The contractor must take necessary measures to maintain these benchmarks for future reference.	item			
	SETTING OUT				
B	The contractor shall set out works in accordance with the dimensions and levels shown on the drawings and shall be responsible for the correctness of all dimensions and levels set out by him and he will be required to ammend all errors arising from inaccurate setting out at his own cost and expenses. In the event of any error or discrepancy in the dimensions or levels marked on the drawings being discovered, such errors or discrepancies must be reported by the contractor to the Architect for his immediate attention.No work shall be commenced by the contractor until he has received written instructions from the Architect to adjust such discrepancies which may be proved, upon receipt of such instructions and no claim for extra expenses for any discrepancy or error in the dimensions or levels shown on the drawings may be made thereafter.	item			
	SAMPLES				
C	The contractor shall furnish at the earliest possible opportunity before work commences and at his own cost any samples of materials or workmanship that may be called for by the Architect for his approval or rejection until such samples are approved to be the minimum standard for the work to which they apply.	item			
	MATERIALS ON SITE				
D	All materials for incorporation in the works must be stored on or adjacent to the site of the works before payment is effected by the Architect. This is to include the materials of the main contractors ,sub contractors and nominated sub contractors	item			
	TEMPORARY DISPOSAL OF RAIN WATER				
E	The Contractor shall provide and maintain all necessary temporary gutters, downpipes, chutes, drains etc. for conveying rainwater from the buildings.The Contractor shall allow for temporary drainage plumbing and piping for keeping the premises and site free from accumulation of water.	item			
	<i>Carried to Collection</i>				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	PREVENTION OF NUISANCE				
A	The works and such sections of the site necessary thereafter shall be under the entire care and control of the contractor during the whole period of the contract and shall take all possible precautions to prevent any nuisance, inconvenience or injury to the holder or occupiers of the existing or surrounding properties and to the public generally, and shall at all times keep all paths and roads affected by the works in a safe and clear state, and shall use proper precautions to ensure the safety of all wheeled traffic and pedestrians.	item			
	EXISTING SERVICES				
B	Prior to commencement of any work the contractor is to ascertain from the relevant Authorities the exact position, depth and level of all existing electric cables, water pipes and all other services in the area and he shall make whatever provisions may be required by the authorities concerned for the support and protection of such services. Any damage or disturbances caused to any service shall be reported immediately to the Architect and the relevant Authority and shall be made good to their satisfaction at the contractor's expense.	item			
	MATERIALS, TOOLS, PLANT AND SCAFFOLDINGS				
C	All materials and workmanship used in the execution of the works shall be of the best quality and description. Any materials for the works condemned by the Architect shall immediately be removed from the site at the Contractor's expense. The contractor shall order all materials to be obtained from overseas immediately after the contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that they are on site when required for use in the works. The contractor shall be responsible for the provision of all materials, scaffolding, tools, plant, transport and workmen required for the works except in so far as may be stated otherwise herein and he shall allow for the provision of the foregoing except for such items specifically and only required for the use of Nominated Sub-contractors as described herein. No timber used for scaffolding, formwork or similar purpose shall be used afterwards in the permanent works. All such plant, tools and scaffolding shall comply with all regulations whether general or local in force throughout the period of the contract and shall be required as may be necessary to comply with any amendments in or additions to such regulations. The Bills of Quantities shall not be used for the purpose of ordering materials	item			
	GOVERNMENT ACTS REGARDING WORK ,PEOPLE ETC.				
D	The contractor is to comply with all local regulations and by-laws of the County Authority including serving notices and paying of fees. In addition to complying with the Occupational Safety and Health Act, 2007 (Cap 514), the contractor shall comply in all aspects with the above mentioned rules. The contractor will be held responsible for serving on the Director of Occupational Safety and Health Services a written notice not later than seven days after the beginning of the building operations included in this contract stating the particulars required. It is most important that the contractor ,before tendering shall obtain from the relevant authority the fullest information regarding all such regulations and /or restrictions which may affect the organisation of the works ,supply and control of labour etc., and allow accordingly in his tender. No claim in respect of want of knowledge in this connection will be entertained.	item			
	AREA TO BE OCCUPIED BY CONTRACTOR				
E	The area of the site which may be occupied by the contractor for use as storage and for the purpose of erecting workshops etc shall be defined on the site by the Architect	item			
	<i>Carried to Collection</i>				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECURITY OF WORKS AND FENCING				
A	The contractor shall be entirely responsible and shall pay security of all works, stores, materials, plant, personnel etc both his own and sub-contractors and shall also provide all necessary watching, lighting, and other precautions as necessary to ensure the security, the safety and protection of the public	item			
	TRANSPORT TO AND FROM THE SITE				
B	The contractor shall include in his prices for the transport of materials, workmen etc to and from the site of the proposed works at such hours and by such routes as are permitted by the Authorities. All unit rates for local or imported goods are to include freight, insurance, handling and delivery costs to the project site together with import duties, sale tax, port charges etc and all other charges of whatever nature.	item			
	<u>WORKING HOURS AND OVERTIME</u>				
C	The working hours shall be those generally worked by good employees in the Building and Civil Engineering trades in Kenya No work shall be carried out at night or on Gazzetted holidays unless the Project Manager shall direct so. The contractor shall be responsible for any extra costs for overtime working he considers will be necessary in order to complete the works within the contract period or time for completion apart from overtime working which may be authorised by the Architect If overtime is worked out in accordance with a written instruction issued by the Architect the contractor will be reimbursed in respect of such overtime to the unproductive time payable over and above the basic hourly rates as laid down by the Regulation of wages and Conditions of employment Act, Building and Construction Industry Wages Council and excluding any bonuses, profits and overheads.	item			
	<u>WATER</u>				
D	The Contractor shall provide at his own risk and cost all water for use in connection with the works including the work of sub-contractors make arrangements with the local authority for the installation of a separate meter for all water used by him throughout the contract and pay all costs and fees in connection therewith. He shall also provide temporary storage tanks and tubing etc as he may consider necessary and clear away at completion.No guarantee is given or implied that sufficient water will be available from mains and the Contractor must make his own arrangements or augmenting this supply at his own cost.The Main Contractor shall provide and make available sufficient water for 1. Testing all installation requiring water2. Tanks in units and the main water reservoir which are to be handed over with a sufficient quantity of waterAll water shall be fresh, clean and pure, free from earthly vegetable or organic matter, acid or alkaline substance in solution or suspension.	item			
	<u>LIGHTING AND POWER</u>				
E	The Contractor shall provide at his own risk and cost all temporary artificial lighting and power for use on the works including all sub-contractors and specialists requirements and including all temporary connections, wiring, fittings etc and clearing away on completion. The Contractor shall pay all fees and obtain all permits in connection therewith. The Main Contractor shall be responsible for provision of sufficient Power for testing all installation (including sub contractors installations)	item			
	<i>Carried to Collection</i>				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SANITATION OF THE WORKS				
A	The sanitation of the works shall be provided, maintained and removed on completion by the Contractor to the satisfaction of the Architects and local Authorities. The latrines shall be enclosed with framing and corrugated sheets roofs, sides and partitions,with concrete floors steel trowelled smooth to floors to facilitate washing. Their location shall be agreed with the Architects and the works shall not be commenced before the sanitary accomodation has been approved by the above mentioned authorities. The Contractor will be required to pay all conservancy charges and shall ensure clean daily maintenance and disinfecting of the latrines, and not less than once per week, the whole area shall be sprayed with disinfectant and insecticides and any temporary drains shall be removed and all works and surfaces disturbed made good and then the whole area disinfected and left clean and free from pollution to the satisfaction of the Architect and local authorities.	item			
	ACCESS TO SITE AND TEMPORARY ROADS				
B	Means of access to the site shall be agreed with the Architect prior to commencement of the works and the Contractor must allow for building and maintaining any temporary access roads for the transport of materials, plant and workmen as may be required for the complete execution of the works including the provision of temporary culverts, crossings, bridges or any other means of gaining access.Upon the completion the works the Contractor shall remove such temporary roads, temporary culverts bridges etc and make good and reinstate all works and services disturbed to the satisfaction of the Architect.	item			
	MATERIAL TEST				
C	Note:The Architect shall arrange for the testing of such materials as he may at his discretion deem desirable, but the testing shall be made at the expense of the Contractor and not at the expense of the Architect. The Contractor shall pay for the testing in accordance with the current scale of testing charges laid down by the Ministry of Roads and Public Works. The procedure for submitting samples of materials for testing and the method of marking for identification shall be as laid down by the Architect. The Contractor shall allow in his tender for samples and tests except those in connection with nominated sub-contractor.The contractor must allow in his rates all costs in connection with the making of cubes, curing, transport, crushing by an approved testingl Authority and obtaining the test certificateSet of twenty(20no.) 150 x 150 x 150mm concrete test cubes 20 sets (Provisional @ Kshs...../= each set)*Contractor to insert rate and extend	item			
	PUBLIC, PRIVATE ROADS AND PAVEMENTS ETC				
D	The contractor will be required to make good at his own expense any damages he may cause to the present approach road surfaces during the period of the works to the satisfaction of the local and other competent authority and the Architect.	item			
	TEMPORARY BUILDINGS				
E	The contractor shall provide sheds for storage accomodation for all goods and materials liable to suffer damage from exposure to sunlight or inclement weather. The contractor shall provide offices, mess rooms and all the buildings required by the contractor for his own use and the use of Nominated Sub-contractors as required by the items of attendance only. The contractor shall allow for the cost of providing light refreshment for the consultants at site meetings. The contractor shall keep on the site and maintain in good condition one dumpy or quickset level, metric leveling staff and one 30 metre steel tape for the use of the Architect, Surveyor and Engineer. Upon completion all temporary buildings are to be removed and cleared away	item			
	DIRECT CONTRACTS				
F	Notwithstanding the foregoing conditions, the Employer reserves the right to place a 'Direct Contract' for any goods or services required in the works which are covered by a P. C Sum or Prime Cost Rate in the Bills of Quantities and to pay for the same direct.In any such instances, profit relative to the P C Sums or Prime Cost Rates shall be allowed.	item			
	<i>Carried to Collection</i>				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	PROVISIONAL WORK				
A	The term 'Provisional Sum' wherever used in these Bills of Quantities shall have the meaning of 'A sum provided for work or for costs which cannot be entirely foreseen , defined or detailed at the time the Tender Documents are issued.' All works described in these Bills of Quantities are 'provisional' All quantities will be subject to remeasurement on completion and execution of works in order to ascertain the actual quantity executed for which payment will be made.All works liable to adjustments under this contract shall be left uncovered for a reasonable time to allow all measurements needed such adjustments to be taken by the 'architect'. Immediately the work is ready for remeasuring ,the contractor shall give notice to the 'architect' . If the contractor makes default to these respect he shall if the 'architect' so directs uncover the work to enable all measurements to be taken and afterwards reinstate at his own expense.	item			
	NOMINATED SUPPLIERS				
B	The contractor shall take delivery anywhere in Nairobi of all materials or goods supplied by the Nominated suppliers and shall sign a receipt as having received them in good order and condition. He shall offload, transport to site, unload, hoist, and provide safe storage and thereafter be responsible for any loss or damage or replacement of any such lost or damaged articles at his own expense and shall return case if so required. Provision is made herein following each appropriate P.C sums for the costs of the foregoing services against items reading "take delivery of and fix only"	item			
	PRIME COST SUMS				
C	i) The words "Prime Cost" (or the initials "P.C.") appearing in the contract documents shall mean net costs exclusive of any trade, cash or other discount whatsoever but inclusive of the costs of the packing, carriage and delivery. Such costs shall be the same due to the sub-contract or supplier after adjustments where applicable in respect of measurements of rates. ii) Any increase or decrease in the prime costs sums resulting from the adjustments and properly paid by the contractor shall be added or deducted from the contract sum in the final account. In substantiation the contractor will require to produce to the Quantity Surveyor all quotations, invoices and receipted accounts as shall be necessary to show the details of the sums actually paid. iii) Any sum added by the contractor in these Bills of Quanties in respect of profits upon any prime costs will be deducted at the final settlement of accounts and the sum will be added to the amount of which will bear the same proportion to the sum added as the net amount properly expended to the original P.C sum.	item			
	NOMINATED SUB-CONTRACTORS				
D	When any work is ordered by the Architect to be executed by nominated Sub-contractor, the contractor shall enter into Sub-contract as described in Condition No. 20 of the Condition of Contract and shall accept responsibility for providing the following services for nominated sub-contractors. i) GENERAL ATTENDANCE: The following services are described as "allow for general attendance" a) Use for the purpose of the sub-contract works of any scaffolding belonging to or provided by the contractor while it remains so erected upon site, provided that no warranty or other liability on the part of the contractor or of his other sub-contractors shall be created or implied in regard to the fitness, condition or suitability of the said scaffoldingb) Provision of water, lighting, watching and attendance for the purpose of the sub-contract works.c) Use of sanitary accommodation, mess-rooms and welfare facilities.d) Provision of space for erecting of offices or stores or space for storage of plant and materials.The contractor should price for these with the nominated Sub-contractor's work concerned in the P. C Sum under the description "add for attendance "ii) SPECIAL ATTENDANCE: The following services are stated under a separate item and where described under the following headings shall mean: a) Taking delivery including the provision of unskilled labour necessary to attend upon the sub-contractors workmen for the purpose of unloading plants and materials when received upon the site and placing in position within the sub-contractor's storage space or store. b) Hoisting including the provision of unskilled labour and the use of any contractors standing scaffolding and plant for the purpose of assisting the sub-contractors workmen in hoisting the sub-contractors plant and materials to the variouslevels but not placing in its final position.c) Providing power including the provision of power during the course of the works and during the period of commissioning and training.	item			
	INSURANCE				
E	The contractor shall insure as required in clauses Nos.12 and 13 of the Conditions of Contract. No payment on account of the work executed will be made to the contractor until he has satisfied the Architect either by production of an insurance policy or and Insurance certificate that the provision of the foregoing insurance Clauses have been complied with in all respects. Therefore the Architect shall from time to time ascertain that the premiums are duly paid up by the contractor who shall if called upon to do so, produce the receipt premium renewals for the Architect 's inspection.	item			
	<i>Carried to Collection</i>				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	PROTECTION OF THE WORK				
A	The Contractor shall cover up ,casing up ,covering and protect all finished work liable to damage including provision of temporary roof, gutters, drains etc until the completion of the works. In the event of any damages occurring to the works, materials, sewers, drains, gullies, paths or other works on site in temporary possession of the contractor for the purpose of this contract either from weather, want of proper protection, defects, or insufficiency of the works or any other causes or whatsoever during the progress of the works, the contractor shall be responsible and without extra charge, make good all damage and pay all costs which may be levied.	item			
	REMOVAL OF PLANT AND RUBBISH ETC				
B	The Contractor shall upon completion of the works remove and clear away all temporary buildings, plant, rubbish and unused materials, and shall leave the whole of the site of the works in a clean and tidy state to the satisfaction of the Architect. He shall also remove all rubbish and dirt from the site at weekly intervals or as directed by the Architect.	item			
	WORKS TO BE DELIVERED UP CLEAN				
C	Clean and flush all gutters, rainwater and waste pipes, manholes and drains ,wash (except where such treatment might cause damage) and clean all floors , sanitary fittings ,glass inside and outside and any other part of the works and remove all marks blemishes, stains and defects from joinery fittings and decorated surfaces generally, polish door furniture and bright parts of metal work and leave the whole building water tight , clean, perfect and fit for occupation to the approval of the 'architect'.	item			
	ALTERATIONS TO BILLS, PRICING, ETC.				
D	Any unauthorised or qualification made to the text of the Bills of Quantities may cause the tender to be disqualified and will in any case be ignored.The contractor shall be deemed to have made allowance in his prices generally to cover any item against which no price has been inserted in the priced Bills of Quantities .All items of measured work shall be priced in detail and the Tenders containing Lump sums to cover trades of groups of works must be broken down to show the price of each item before they will be accepted.	item			
	<i>Carried to Collection</i>				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	PRELIMINARIES COLLECTION				
	From Page No.				
	1				
	2				
	3				
	4				
	5				
	6				
	7				
	8				
	9				
	10				
	11				
	12				
	TOTAL FOR PRELIMINARIES CARRIED TO SUMMARY				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>GROUND FLOOR</u> <u>BILL NO. 1</u>				
	<u>SUBSTRUCTURES</u> THE ENTIRE BILL IS PROVISIONAL				
	<u>EXCAVATIONS AND DISPOSAL</u> All excavations are measured net. The rate shall include for any working space that the contractor may deem necessary, allowance for maintaining & supporting sides of excavations, cutting to slope, trimming & levelling bottoms & sides of excavated surfaces which must be left ready to receive new works, stockpiling and keeping excavations free from all fallen materials, mud and water by pumping, bailing or otherwise				
	<u>Oversite Excavations</u> Excavate average 150mm deep to remove top vegetable soil, (including all surface treatments such as grading, levelling and compaction of exposed red soils on sloppy surfaces) load, cart away and stock - pile on site as directed for landscaping use.	sm	1,653		
A					
B	Excavate average 300mm deep to reduced level load, cart away and stock - pile on site as directed for landscaping use.	cm	347		
	<u>Foundation Trench Excavations</u> Excavate foundation trenches depth not exceeding 1.5m deep starting from reduced level	cm	274		
C					
D	Ditto but column bases	cm	400		
E	Extra Over ditto for excavating of rock irrespective of class	cm	202		
	<u>Disposal of excavated materials</u> Dispose surplus excavated material by spreading on site	cm	329		
F					
G	<u>Back filling</u> Backfill with selected non expansive excavated material including watering and compaction of surfaces	cm	692		
	<u>Hardcore filling and murrum blinding</u> Backfill with hand packed approved hardcore 300mm thick and compact in 150mm thick layers all to the Engineer's satisfaction.	sm	1,172		
H					
I	50mm thick murrum or quarry dust blinding to surfaces of hardcore	sm	1,172		
	<u>SOIL POISONING</u> <u>Anti- termite treatment</u> Premise 200 SC from Bayer Chemicals' or other equal and approved chemical treatment to surfaces of blinded hardcore and sides and around foundations: apply in accordance with the manufacturer's specifications: provide a ten (10) years written guarantee against termites	sm	1,172		
J					
K	<u>DAMP PROOF MEMBRANE</u> 1000 gauge polythene damp proof membrane laid under surface bed with 300mm side and end laps (measured net- no allowance for laps)	sm	1,172		
	<u>PLAIN CONCRETE</u> 50mm thick mass concrete class 15 blinding under footings and column bases	sm	421		
L					
M	<u>In situ concrete class 25 to BS 8110, vibrated and reinforced as described, in:-</u> Strip foundations	cm	57		
N	Column base	cm	123		
O	Column	cm	8.00		
P	Strap Beam	cm	7.00		
Q	Plinth Tie Beams	cm	28.00		
R	125mm thick surface bed	sm	1,172		

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
GROUND FLOOR					
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<i>Total carried forward</i>				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<i>Total Brought forward</i>				
	<u>REINFORCEMENT</u>				
	<u>Reinforcement in different sizes. High yield square twisted bars or ribbed reinforcement to KS573:2014 Kenya standard specification for cold worked high yield steel bars for reinforcement of concrete bars for reinforcement (or other equal and approved) with and including tying wire, distance blocks and ordinary spacers, all necessary cutting, bending and laying. The rate shall be deemed to include the binding wire and the spacer block.</u>				
A	Strip foundation	kg	960		
B	Columns bases	kg	7,707		
C	Columns	kg	1,868		
D	Strap Beams	kg	1,636		
D	Plinth Tie Beams	kg	2,617		
	<u>Mesh fabric reinforcement to B.S. 4483 and setting in concrete with 300mm side and end laps (measured nett-allow for laps)</u>				
E	Fabric mesh ref: A142 weighing 2.22 Kg per square metre in floor bed	sm	1,172		
	<u>FORMWORK</u>				
	<u>Marine Board formwork to:-</u>				
F	Vertical sides of strip footing	sm	191		
G	Vertical sides of columns bases	sm	231		
H	Ditto but Sub-columns	sm	111		
I	Ditto but Strap beams	sm	48		
J	Ditto but Plinth Tie beams	sm	282		
K	Edges of ground floor slab over 75mm but not exceeding 150mm high	lm	161		
	<u>SUBSTRUCTURE WALLING</u>				
	<u>Load bearing natural/ quarry stone block walling, rough chisel dressed bonded and jointed in cement sand (1:3) mortar with and including hoop irons to every alternate course.</u>				
L	200mm thick substructure walling	sm	564		
	<u>DAMP PROOF COURSE</u>				
	<u>Three-ply bituminous felt damp proof course bedded in cement and sand (1:3) mortar (measured net allow for laps)</u>				
M	200mm wide horizontal layer	lm	470		
	Total for SUBSTRUCTURES				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
GROUND FLOOR					
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 2</u>				
	<u>REINFORCED CONCRETE FRAME</u>				
	<u>In situ concrete class 25, vibrated and reinforced as described, in:-</u>				
A	Column	cm	20.00		
B	Beams	cm	76.00		
C	Stairs and steps	cm	10.50		
D	175mm thick suspended slab	SM	258		
E	150mm thick suspended slab	SM	226		
F	Ditto Landing	SM	30		
G	Supply and lay hollow pot concrete blocks of size 380x230x300mm thick set between concrete ribs of size 150mm and below 75mm thick top slab; well bedded to position and set to correct alignment and level, all as per structural drawings and detail	SM	639		
	<u>REINFORCEMENT</u>				
	<u>Reinforcement in different sizes. High yield square twisted bars or ribbed reinforcement to KS573:2014 Kenya standard specification for cold worked high yield steel bars for reinforcement of concrete bars for reinforcement (or other equal and approved) with and including tying wire, distance blocks and ordinary spacers, all necessary cutting, bending and laying. The rate shall be deemed to include the binding wire and the spacer block.</u>				
H	Columns	kg	4,520		
I	Beams	kg	9,013		
J	Stairs and Steps	kg	938		
K	Suspended slab	kg	16,046		
	<u>FORMWORK</u>				
	<u>Sawn formwork (Marine Boards) to:-</u>				
L	Vertical Sides of Columns	sm	277		
M	Sides and soffits of Ring beams	sm	720		
N	Sloping soffits of staircase	sm	42		
O	Soffits of landings	sm	30		
P	Soffits of slabs	sm	1,123		
Q	Sides of risers and waist, edges of landings over 150mm but not exceeding 225mm high	lm	155		
R	Edges of suspended floor slab over 150mm but not exceeding 225mm high	lm	218		
	Total for REINFORCED CONCRETE FRAME				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 3</u>				
	<u>EXTERNAL WALLING AND INTERNAL WALLING</u>				
	EXTERNAL WALLING				
	<u>Machine cut natural stone, from a local approved quarry , walling bedded, bonded and jointed in cement, sand (1:3) mortar reinforced as necessary with hoop iron at every alternate course.</u>				
A	200mm Thick walling	sm	520		
	INTERNAL WALLING AND PARTITIONS				
	<u>Machine cut "Ndarugo" or equal and approved quarry stone walling bedded, bonded and jointed in cement, sand (1:3) mortar reinforced as necessary with hoop iron at every alternate course.</u>				
B	200mm Thick walling	sm	245		
C	150mm Thick walling	sm	0		
	<u>Precast Vent Blocks</u>				
D	200mm thick precast vent blocks in approved paterrens bedded and jointed in cement sand (1:3) mortar	sm	0		
	<u>Lintels</u>				
E	200x200 mm depth concrete class 25 lintel reinforced with 4no. T12 bars and T8 stirrups at 200mm centres including formwork	lm	118		
	Total for WALLING				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 4</u>				
	<u>WINDOWS</u>				
	<u>ALUMINIUM WINDOWS</u>				
	<u>Supply and fix the following Aluminium windows comprising purpose made powder coated 50x100x2mm thick aluminium frame, 8mm thick laminated clear or translucent glass (4mm ordinary glass + 0.76 clear PVB + 4mm thick ordinary glass) infill complete with and including all necessary frames, subframes, transoms, mullions, glazing materials, 15x10mm aluminium glazing beads, fixing screws, accessories and ironmongery as "UNION" or other equal and approved brand; all measured and fabricated in accordance with the Architect's window detailed designs.</u>				
A	Window overall size 2000mm wide x 1500mm high sliding (openable) window	no	21		
B	Ditto size 3000mm wide x 1000mm high	no	10		
C	Ditto size 4600mm wide x 800mm high	no	1		
D	Ditto size 1000mm wide x 800mm high	no	1		
E	Ditto size 2000mm wide x 800mm high	no	1		
F	Ditto size 600mm wide x 800mm high	no	1		
	<u>FINISHING TO REVEALS</u>				
	<u>15 mm cement and sand (1:3) render, finished with woodfloat to:-</u>				
G	Concrete or masonry surfaces; externally.	sm	17		
	<u>12mm (minimum) two coat lime plaster as described to</u>				
H	Concrete or masonry surfaces; internally.	sm	17		
	<u>Prepare and apply one undercoat and two finishing coats exterior quality acrylic paint or other equal and approved Acrylic resin bonded exterior surface paint on :-</u>				
I	Rendered surfaces; externally.	sm	17		
	<u>Prepare and apply three coats 'Crown solo pure satin emulsion' paint or other and approved</u>				
J	Plastered walls; internally.	sm	17		
	<i>Total carried forward</i>				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<i>Total Brought forward</i>				
A	PRE-CAST CONCRETE WINDOW CILL 250mm wide x 80mm thick weathered and throated window cill including bedding in cement and sand (1:3) mortar to racked external wall window cill : building ends to window jamb	lm	82		
B	WINDOW BOARD 150 mm x 38mm thick hardwood window board with rounded edge and 25mm thick quadrant and including plugging to internal windows cill with steel nails : building ends to window jamb : 'Pinotex' finish : all in accordance with the Architect's detail	lm	82		
C	CURTAIN RODS <u>Twin curtain rod comprising 30mm and 25mm diameter powder coated mild steel rods, joint together and secured to wall with approved mild steel brackets ; primed and painted ; 2no. mild steel decorative stop knobs ; curtain rings and wall mounted fastening hook and all other necessary accessories, all in accordance with Architect's details</u> Curtain rods to windows-various lengths	lm	72		
D	CURTAINS TO WINDOWS Supply and fix approved fabric to adequately cover openings (length consider when shut/drawn with folded gathers)	lm	72		
E	1.8m average height Supply and fix approved fabric to shears/blinder (length consider when shut/drawn)	lm	72		
	Total for WINDOWS				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 5</u> <u>DOORS</u> <u>External Doors</u> <u>ALUMINIUM DOOR</u> <u>Supply and fix the following Aluminium sliding door comprising purpose made powder coated 50x100x2mm thick aluminium frame,8mm thick laminated clear or translucent glass(4mm ordinary glass+0.76 clear PVB + 4mm thick ordinary glass)infill complete with and including all necessary frames,subframes,transomsmullions,glazing materials,15x10mm aluminium glazing beads,fixing screws,accessories and iron mongery as "UNION" or other equal and approved brand ;all measured and fabricated in accordance with the Architect's window detailed designs</u>				
A	Door overall size 2000X2400mm high sliding door	no	1		
	<u>Internal Doors</u> <u>HARDWOOD DOORS AND FRAMES</u> <u>Supply and fix 50mm thick solid hardwood doors , lipped all round with 12mm mahogany; 250 x 75mm rebated hardwood solid timber frame, 25mm quadrant beading, 50 x 15mm architraves with surface primed back.including all ironmongery:complete with polishing and appropriate three (3) coats clear lacquer all done to the satisfaction of the Architect in accordance with Architectural drawings</u>				
B	Single leaf door overall size 1000 x 2400mm high with 6mm thick clear sheet glass infill complete with polishing and appropriate clear lacquer all done to the satisfaction of the Architect in accordance with Architectural drawings -	no	14		
C	Ditto but Door size 900x2400 mm high	no	6		
D	Ditto but Door size 900x2100 mm high	no	16		
	Total for DOORS				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 6</u>				
	<u>FINISHES</u>				
	<u>External Wall Finishes</u>				
	<u>Rendering</u>				
	<u>12mm thick cement and sand (1:3) render on stone or concrete work on:</u>				
A	Concrete walls, columns & beams	sm	661		
	<u>Painting and Decoration</u>				
	<u>Prepare and apply one undercoat and two finishing coats exterior quality acrylic paint or other equal and approved Acrylic resin bonded exterior surface paint on :-</u>				
B	To rendered concrete or stone surfaces	sm	661		
	<u>Internal Wall Finishes</u>				
	<u>Plaster Work</u>				
	<u>12mm (minimum) two-coat lime plaster, with steel trowelled finish including anticracking mesh or gauze where necessary to joints on walls, beams, columns as described to:-</u>				
C	Concrete or stone walls : steel trowelled	sm	923		
	<u>12mm (minimum) cement sand (1:3) plaster to receive ceramic wall tiles</u>				
D	Concrete or stone walls	sm	324		
	<u>Ceramic Wall Tiling</u>				
	<u>Supply and fix approved coloured ceramic wall tiles including bedding in approved tile adhesive and pointing with coloured grout complete with pvc corner pieces to all edges and border tiles as per architect's details</u>				
E	Walls to wet areas	sm	324		
	<u>Painting and Decorating</u>				
	<u>Prepare and apply three (3) coats of silk vinyl matt emulsion paint or other and approved</u>				
F	Plastered walls	sm	923		
	<u>Ceiling Finishes</u>				
	<u>12mm (minimum) cement sand (1:3) plaster to receive paint</u>				
G	General surfaces of soffits of suspended slabs	sm	1,123		
	<u>PAINTING AND DECORATING</u>				
	<u>Prepare and apply three (3) coats of silk vinyl matt emulsion paint or other and approved</u>				
H	Soffits of suspended ceiling	sm	1,123		
	<i>Total carried forward</i>				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<i>Total brought forward</i>				
	<u>Floor Finishes</u>				
	SCREED				
	<u>In situ cement and sand (1:3) screeded beds, with wood float finish on concrete including all necessary balancing and sloping</u>				
A	20mm screed finished to receive terrazo flooring	sm	1,172		
	<u>Terrazo Flooring</u>				
B	20mm thick Terrazo floor finish	sm	1,172		
C	Ditto skirting	lm	234		
	HAND RAILS				
D	Fabricate and install 5x50x3mm thick mild steel balustrades and balusters at 500mm c/c with mild steel rails of 50x50x3mm thick and 50mm dia handrail, including 2x50mm dia bottom plate around baluster welded and grounded smooth to the staircase treads and ramp with lugs and steel plate at 900mm height; all done to the satisfaction of the Architect as per the Architectural design	lm	68		
	Total for FINISHES				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 7</u>				
	<u>EXTERNAL WORKS</u>				
	<u>Excavation and Earthworks</u>				
A.	Excavate 300mm thick starting from ground level	94	CM		
	<u>Disposal</u>				
B	Load, and cart away,excavated materials	94	CM		
	<u>Murram filling</u>				
C	200mm thick approved murram fill well watered and compacted in layers	315	SM		
	<u>Grading</u>				
D	Grade and compact formation level	315	SM		
	<u>PAVING SLABS AROUND THE STRUCTURE</u>				
E	Provide, lay and compact 600x600x50 mm thick precast concrete paving slabs on 50mm thick sand bed on the compacted surface	189	SM		
	<u>CABRO PAVING AT PARKING AREA</u>				
F	Provide, lay and compact 80mm thick heavy duty cabro paving including filling joints with sand and sweeping away surplus material	126	SM		
G	Provide and lay 100x125mm precast concrete flat Kerb bedded and jointed in cement and sand mortar including foundation and sorrounding	115	LM		
	<i>Total carried forwad</i>				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<i>Total Brought forward</i>				
	<u>EXTERNAL DRAINAGE WORKS</u>				
	Manholes				
A	Construct 1000mm x 1000mm x 1100mm deep manhole all in concrete class 20; comprising 1000mm x 1000mm x 150mm thick concrete bed, 300mm thick benching and haunching, 150mm thick machine cut masonry walling bedded in cement sand (1:3) motar including 100mm thick concrete surround, 600mm x 450mm medium duty cast iron cover and frame; including necessary excavations, backfill and formwork.	NO	24		
	Gulley Traps				
B	600mm x 600mm x 700mm deep gulley trap all in concrete class 20; comprising 1000mm x 1000mm x 150mm thick concrete bed, 1500mm thick benching and haunching, 150mm thick machine cut masonry walling bedded in cement sand (1:3) motar including 100mm thick concrete surround, 300mm x 300mm medium duty cast iron cover and frame; including necessary excavations, backfill and formwork.	NO	20		
	External drainage pipes				
C	Supply and fix, including necessary excavation 150mm heavy duty PVC pipes to external drainage	LM	187		
	Total for EXTERNAL WORKS				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 8</u>				
	<u>JOINERY FITTINGS</u>				
	<u>Innovation Hub, Health science Lab, Soil and water Testing Lab, Food & Production workshop and Reception Worktops</u>				
	<u>Plinths</u>				
A	100 mm thick plain concrete(1:3:6-38mm aggregates) benching including formwork to sides of plinths	sm	44		
	<u>Screed</u>				
	<u>In situ cement and sand (1:3) screeded beds, with steel trowelled finish on concrete</u>				
B	12mm thick cement and sand (1:3) screed with smooth finish	sm	44		
	<u>Worktops</u>				
C	600 mm wide worktops comprising 75mm thick concrete slab with and including BRC mesh wire A98 ,formwork : plaster and paint to soffits of work top: support walls 100mm thick where necessary, forming openings for sinks where necessary, all in accordance with architect's drawings	sm	44		
	<u>Supply and fix approved coloured granito tiles including bedding in cement grout and pointing with coloured grout</u>				
D	Granito tiles to vanity top including fascia and skirting	sm	44		
	<u>Cabinets</u>				
	<u>Supply and fix the following cabinets consisting of 18mm thick Laminated MDF doors and blockboard carcass, complete with divisions, shelves, drawers and the like, ironmongery, all assembled in accordance with the architects and manufactures instructions.</u>				
E	Low level cabinets size 11000mm long x 600 mm deep x 800 mm high	no	1.00		
F	Ditto but overall size 7000mm x 600mm deep x 800mm high	no	4.00		
	Total for JOINERY FITTINGS				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 8</u> <u>BUILDER'S WORK IN CONNECTION WITH SERVICES</u> <u>The quantities and nature of work indicated are provisional .The actual work done shall be ascertained , valued and adjustments made accordingly.</u> MECHANICAL INSTALLATIONS A All buider's work in connection with Mechanical Installations including cutting away for forming chases, holes and recesses, notching timber etc. making good all finishes and leaving to the satisfaction of the Interior Designer ELECTRICAL INSTALLATIONS <u>Builder's work in connection with Electrical Installation including cutting away for and forming chases, holes and recesses, notching timber etc. making good all finishes and leaving to the satisfaction of the Architect(Provisional).</u> B All buider's work in connection with Electrical Installations including cutting away for forming chases, holes and recesses, notching timber etc. making good all finishes and leaving to the satisfaction of the Interior Designer	item	1		
		item	1		
	Total for Builder's work in connection with Services				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
GROUND FLOOR					
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SUMMARY				
1	Substructures				
2	Reinforced Concrete Frame				
3	External and internal walling				
4	Windows				
5	Doors, Door Frames & Iron Mongery				
6	Finishes				
7	External Works				
8	Fittings & fixtures				
9	Builders work in connection with services				
	Total for Ground Floor Carried to Grand Summary				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>FIRST FLOOR</u>				
	<u>BILL NO. 1</u>				
	<u>REINFORCED CONCRETE FRAME</u>				
	<u>In situ concrete class 25, vibrated and reinforced as described, in:-</u>				
A	Column	cm	3.80		
B	Beams	cm	15.40		
C	Stairs and steps	cm	2.00		
D	150mm thick suspended slab	SM	108		
E	Ditto Landing	SM	4		
F	Supply and lay hollow pot concrete blocks of size 380x230x300mm thick set between concrete ribs of size 150mm and below 75mm thick top slab; well bedded to position and set to correct alignment and level, all as per structural drawings and detail	SM	129		
	<u>REINFORCEMENT</u>				
	<u>Reinforcement in different sizes. High yield square twisted bars or ribbed reinforcement to KS573:2014 Kenya standard specification for cold worked high yield steel bars for reinforcement of concrete bars for reinforcement (or other equal and approved) with and including tying wire, distance blocks and ordinary spacers, all necessary cutting, bending and laying. The rate shall be deemed to include the binding wire and the spacer block.</u>				
G	Columns	kg	4,520		
H	Beams	kg	9,013		
J	Stairs and Steps	kg	938		
K	Suspended slab	kg	16,046		
	<u>FORMWORK</u>				
	<u>Sawn formwork (Marine Boards) to:-</u>				
L	Vertical Sides of Columns	sm	56		
M	Sides and soffits of Ring beams	sm	154		
N	Sloping soffits of staircase	sm	8		
O	Soffits of landings	sm	4		
P	Soffits of slabs	sm	237		
Q	Sides of risers and waist, edges of landings over 150mm but not exceeding 225mm high	lm	35		
R	Edges of suspended floor slab over 150mm but not exceeding 225mm high	lm	81		
	Total for REINFORCED CONCRETE FRAME				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 3</u>				
	<u>EXTERNAL WALLING AND INTERNAL WALLING</u>				
	<u>EXTERNAL WALLING</u>				
	<u>Machine cut natural stone, from a local approved quarry , walling bedded, bonded and jointed in cement, sand (1:3) mortar reinforced as necessary with hoop iron at every alternate course.</u>				
A	200mm Thick walling	sm	96		
	<u>INTERNAL WALLING AND PARTITIONS</u>				
	<u>Machine cut "Ndarugo" or equal and approved quarry stone walling bedded, bonded and jointed in cement, sand (1:3) mortar reinforced as necessary with hoop iron at every alternate course.</u>				
B	200mm Thick walling	sm	69		
C	150mm Thick walling	sm	0		
	<u>Precast Vent Blocks</u>				
D	200mm thick precast vent blocks in approved paterrens bedded and jointed in cement sand (1:3) mortar	sm	0		
	<u>Lintels</u>				
E	200x200 mm depth concrete class 25 lintel reinforced with 4no. T12 bars and T8 stirrups at 200mm centres including formwork	lm	50		
	Total for WALLING				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 4</u>				
	<u>WINDOWS</u>				
	<u>ALUMINIUM WINDOWS</u>				
	<u>Supply and fix the following Aluminium windows comprising purpose made powder coated 50x100x2mm thick aluminium frame, 8mm thick laminated clear or translucent glass (4mm ordinary glass + 0.76 clear PVB + 4mm thick ordinary glass) infill complete with and including all necessary frames, subframes, transoms, mullions, glazing materials, 15x10mm aluminium glazing beads, fixing screws, accessories and ironmongery as "UNION" or other equal and approved brand; all measured and fabricated in accordance with the Architect's window detailed designs.</u>				
A	Window overall size 2000mm wide x 1500mm high sliding (openable) window	no	6		
B	Ditto size 600mm wide x 800mm high	no	4		
	<u>FINISHING TO REVEALS</u>				
	<u>15 mm cement and sand (1:3) render, finished with woodfloat to:-</u>				
C	Concrete or masonry surfaces; externally.	sm	17		
	<u>12mm (minimum) two coat lime plaster as described to</u>				
D	Concrete or masonry surfaces; internally.	sm	17		
	<u>Prepare and apply one undercoat and two finishing coats exterior quality acrylic paint or other equal and approved Acrylic resin bonded exterior surface paint on :-</u>				
E	Rendered surfaces; externally.	sm	17		
	<u>Prepare and apply three coats 'Crown solo pure satin emulsion' paint or other and approved</u>				
F	Plastered walls; internally.	sm	17		
	<i>Total carried forward</i>				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<i>Total Brought forward</i>				
A	PRE-CAST CONCRETE WINDOW CILL 250mm wide x 80mm thick weathered and throated window cill including bedding in cement and sand (1:3) mortar to racked external wall window cill : building ends to window jamb	lm	19		
B	WINDOW BOARD 150 mm x 38mm thick hardwood window board with rounded edge and 25mm thick quadrant and including plugging to internal windows cill with steel nails : building ends to window jamb : 'Pinotex' finish : all in accordance with the Architect's detail	lm	19		
	CURTAIN RODS <u>Twin curtain rod comprising 30mm and 25mm diameter powder coated mild steel rods, joint together and secured to wall with approved mild steel brackets ; primed and painted ; 2no. mild steel decorative stop knobs ; curtain rings and wall mounted fastening hook and all other necessary accessories, all in accordance with Architect's details</u>				
C	Curtain rods to windows- CURTAINS TO WINDOWS Supply and fix approved fabric to adequately cover openings (length consider when shut/drawn with folded gathers)	lm	16		
D	1.8m average height Supply and fix approved fabric to shears/blinder (length consider when shut/drawn)	lm	16		
E	1.8m average height	lm	16		
	Total for WINDOWS				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 5</u> <u>DOORS</u> <u>External Doors</u> <u>ALUMINIUM DOOR</u> <u>Supply and fix the following Aluminium sliding door comprising purpose made powder coated 50x100x2mm thick aluminium frame,8mm thick laminated clear or translucent glass(4mm ordinary glass+0.76 clear PVB + 4mm thick ordinary glass)infill complete with and including all necessary frames,subframes,transomsmullions,glazing materials,15x10mm aluminium glazing beads,fixing screws,accessories and iron mongery as "UNION" or other equal and approved brand ;all measured and fabricated in accordance with the Architect's window detailed designs</u>				
A	Door overall size 2000X2400mm high sliding door	no	1		
	<u>Internal Doors</u> <u>HARDWOOD DOORS AND FRAMES</u> <u>Supply and fix 50mm thick solid hardwood doors , lipped all round with 12mm mahogany; 250 x 75mm rebated hardwood solid timber frame, 25mm quadrant beading, 50 x 15mm architraves with surface primed back.including all ironmongery:complete with polishing and appropriate three (3) coats clear lacquer all done to the satisfaction of the Architect in accordance with Architectural drawings</u>				
B	Single leaf door overall size 1000 x 2400mm high with 6mm thick clear sheet glass infill complete with polishing and appropriate clear lacquer all done to the satisfaction of the Architect in accordance with Architectural drawings -	no	2		
C	Ditto but Door size 900x2100 mm high	no	2		
	Total for DOORS				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 6</u>				
	<u>FINISHES</u>				
	<u>External Wall Finishes</u>				
	<u>Rendering</u>				
	<u>12mm thick cement and sand (1:3) render on stone or concrete work on:</u>				
A	Concrete walls, columns & beams	sm	138		
	<u>Painting and Decoration</u>				
	<u>Prepare and apply one undercoat and two finishing coats exterior quality acrylic paint or other equal and approved Acrylic resin bonded exterior surface paint on :-</u>				
B	To rendered concrete or stone surfaces	sm	138		
	<u>Internal Wall Finishes</u>				
	<u>Plaster Work</u>				
	<u>12mm (minimum) two-coat lime plaster, with steel trowelled finish including anticracking mesh or gauze where necessary to joints on walls, beams, columns as described to:-</u>				
C	Concrete or stone walls : steel trowelled	sm	213		
	<u>12mm (minimum) cement sand (1:3) plaster to receive ceramic wall tiles</u>				
D	Concrete or stone walls	sm	88		
	<u>Ceramic Wall Tiling</u>				
	<u>Supply and fix approved coloured ceramic wall tiles including bedding in approved tile adhesive and pointing with coloured grout complete with pvc corner pieces to all edges and border tiles as per architect's details</u>				
E	Walls to wet areas	sm	88		
	<u>Painting and Decorating</u>				
	<u>Prepare and apply three (3) coats of silk vinyl matt emulsion paint or other and approved</u>				
F	Plastered walls	sm	213		
	<u>Ceiling Finishes</u>				
	<u>12mm (minimum) cement sand (1:3) plaster to receive paint</u>				
G	General surfaces of soffits of suspended slabs	sm	237		
	<u>PAINTING AND DECORATING</u>				
	<u>Prepare and apply three (3) coats of silk vinyl matt emulsion paint or other and approved</u>				
H	Soffits of suspended ceiling	sm	237		
	<i>Total carried forward</i>				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<i>Total brought forward</i>				
	<u>Floor Finishes</u>				
	SCREED				
	<u>In situ cement and sand (1:3) screeded beds, with wood float finish on concrete including all necessary balancing and sloping</u>				
A	20mm screed finished to receive terrazo flooring	sm	249		
	<u>Terrazo Flooring</u>				
B	20mm thick Terrazo floor finish	sm	249		
C	Ditto skirting	lm	234		
	HAND RAILS				
D	Fabricate and install 5x50x3mm thick mild steel balustrades and balusters at 500mm c/c with mild steel rails of 50x50x3mm thick and 50mm dia handrail, including 2x50mm dia bottom plate around baluster welded and grounded smooth to the staircase treads and ramp with lugs and steel plate at 900mm height; all done to the satisfaction of the Architect as per the Architectural design	lm	20		
	Total for FINISHES				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
GROUND FLOOR					
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SUMMARY				
1	Reinforced Concrete Frame				
2	External and internal walling				
3	Windows				
4	Doors, Door Frames & Iron Mongery				
5	Finishes				
	Total for First floor Carried to Grand Summary				

GROUND FLOOR

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SUMMARY				
1	Reinforced Concrete Frame				
2	External and internal walling				
3	Windows				
4	Doors, Door Frames & Iron Mongery				
5	Finishes				
	Total for First floor Carried to Grand Summary				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ROOF TERRACE

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO.1</u>				
	<u>REINFORCED CONCRETE FRAME</u>				
	<u>Insitu concrete class 25, vibrated and reinforced as described, in:-</u>				
A	Column	cm	6.70		
	<u>REINFORCEMENT</u>				
	<u>Reinforcement in different sizes. High yield square twisted bars or ribbed reinforcement to KS573:2014 Kenya standard specification for cold worked high yield steel bars for reinforcement of concrete bars for reinforcement (or other equal and approved) with and including tying wire, distance blocks and ordinary spacers, all necessary cutting, bending and laying. The rate shall be deemed to include the binding wire and the spacer block.</u>				
B	Columns	kg	1,481		
	<u>FORMWORK</u>				
	<u>Marine Board formwork to:-</u>				
C	Vertical Sides of Columns	sm	93		
	Total for REINFORCED CONCRETE FRAME				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ROOF TERRACE

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 2</u>				
	<u>WALLING,PRECAST CONCRETE COPINGS</u>				
	PARAPET WALLING				
	<u>Machine cut natural stone, from a local approved quarry . walling bedded, bonded and jointed in cement, sand (1:3) mortar reinforced as necessary with hoop iron at every alternate course.</u>				
A	200mm Thick walling	sm	222		
	COPINGS				
	<u>300 x 50 mm thick precast concrete class 20/20 coping, splayed top; weathered and twice throated; finished fair on exposed surfaces bedded straight on;</u>				
B	Masonry parapet wall	lm	222		
	<u>Precast concrete class 20/20 coping, splayed top; weathered and twice throated; finished fair on exposed surfaces bedded on columns;</u>				
C	75mm thick n various sizes	no	72		
	Total for WALLING				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ROOF TERRACE

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 3</u>				
	<u>ROOFING FINISHES AND RAIN WATER DISPOSAL</u>				
	<u>External Wall Finishes</u>				
	<u>Rendering</u>				
	<u>12mm thick cement and sand (1:3) render on stone or concrete work on:</u>				
A	Concrete walls, columns & beams	sm	222		
	<u>Painting and Decoration</u>				
	<u>Prepare and apply one undercoat and two finishing coats exterior quality acrylic paint or other equal and approved Acrylic resin bonded exterior surface paint on :-</u>				
B	To rendered concrete or stone surfaces	sm	222		
	<u>Internal Wall Finishes</u>				
	<u>Plaster Work</u>				
	<u>12mm (minimum) two-coat lime plaster, with steel trowelled finish including anticracking mesh or gauze where necessary to joints on walls, beams, columns as described to:-</u>				
C	Concrete or stone walls : steel trowelled	sm	315		
	<u>Painting and Decorating</u>				
	<u>Prepare and apply three (3) coats of silk vinyl matt emulsion paint or other and approved</u>				
D	Concrete or stone walls	sm	315		
	<u>Floor Finishes</u>				
	<u>SCREED</u>				
	<u>Insitu waterproofed cement and sand (1:3) screeded beds, with wood float finish on concrete including all necessary balancing and sloping</u>				
E	35mm thick to screed roofs laid to falls and cross falls not exceeding 15 degrees from horizontal	sm	1,372		
F	ditto to skirting including turn into groove, girth of 200mm	lm	222		
	<u>WATERPROOFING</u>				
	<u>APP water proofing or equal and approved waterproofing agent as supplied by M.s. "Italbuild Imports"; laid in accordance with the manufacturers printed specifications; with and including a ten years guarantee;</u>				
G	to roofs slab laid to falls and cross falls not exceeding 15 degrees from horizontal	sm	1,372		
H	ditto to skirting including turn into groove, girth of 200mm	lm	222		
	<i>Total carried forward</i>				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ROOF TERRACE

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<i>Total brought forward</i>				
	<u>RAIN WATER DISPOSAL</u>				
A	U.P.V.C down pipes overall diameter 100mm with solvent welded joints cast into concrete columns with and including malleable iron brackets and appropriate screws as per architects details and approval.	lm	48		
B	Extra over down pipe for swan neck offset 1200mm long	no	8		
C	Extra over downpipe for horse shoe,	no	8		
D	Flat roof outlet (2170) and joint to pipe,diameter-100mm thick	no	8		
E	Allow for Construction of a 10000ltr Water Tank Plinth including a fetching point well finished with tiles as in the Architectural detailed drawing;including all necessary plumbing connections	no	3		
	TOTAL FOR ROOFING FINISHES AND RAIN WATER DISPOSAL				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
ROOF TERRACE					
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SUMMARY				
1	Reinforced Concrete Frame				
2	Walling				
3	Roofing Finishes and Rainwater disposal				
	Total for Roof Terrace Carried to Grand Summary				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
MECHANICAL INSTALLATIONS					
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	<u>BILL NO. 1: GROUND FLOOR</u>				
	<u>SANITARY FITTINGS (SUPPLY & INSTALLATION)</u> Supply, install, test and commission the following sanitary appliances complete with all the accessories including all connections to the services, waste, jointing to water supply overflows, supports and all plugging and screwing to walls and floors.				
	Water Closet (WC) Suite				
A i	Complete close coupled wash down WC with horizontal outlet with 6.0 litre valve less ceramic cistern adjustable to 9.0 litres with fittings, 15mm diameter bottom inlet valve, 20 mm diameter side overflow with plastic flush bend, inlet connection, ecoflash system with top push button and ordinary seat and chrome cover chrome plated hinges as Ideal Standard space top flush WC	15	No		
	Wash Hand Basin (WHB)				
B	Countertop washbasin size 585x450mm, white in colour with one tap hole and complete with pop-up chrome plated waste fitting 32mm, chrome plated bottle trap, chrome plated extension pipe to wall with flange. The washbasin to be "Twyford, entice" or equal and approved.	18	No		
	Toilet Roll Holder				
C	Recessed toilet roll holder in Vitreous China of size 165 x 165mm in approved colour as Nova or equal and approved.	15	No		
	Urinal Bowl				
D	Wall Mounted Ceramic Urinal Bowl: Ceramic urinal bowl with TOP ENTRY water supply complete stainless steel drain grating and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. The fitting shall be as as Jaquar or approved equivalent but suitable for exposed flush valve.	14	No		
	Urinal Flush Valve				
ii	Exposed/Surface mounted Pressmatic Vandal-proof 1-inch Low Pressure Urinal Valve as DOCOL, TOP ENTRY c/w wall plate, flush pipe and bend and and water spreader.	14	No		

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
MECHANICAL INSTALLATIONS					
iii	Urinal Divide Ceramic divide complete with accessories for fixing to the	12	No		
E	Mirrors 6mm thick polished plate glass silver backed mirror with bevelled edges, size 610 x 610mm, plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam.	16	No		
F	Kitchen Sink and Fittings Countersunk stainless steel sink single bowl single drain (SBSD) self rimming size 800mm x 600mm complete with 40mm chrome plated grid waste, UPVC waste assembly, set of flexible pipes, connectors and angle valves and one set of support fixing kit as ASL. complete with Cobra Pillar type tap and 1/2" angle valve with 350 mm long connector.	18	No		
Total Carried to Collection Page					

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
MECHANICAL INSTALLATIONS					
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	<u>Internal Plumbing Works</u> Supply, deliver and install chlorinated polyvinyl chloride (PPR) pipes, tubing and fittings as described and shown on the drawings. The pipes and fittings shall be produced as per SDR 11 and shall meet or exceed the requirements of ASTM D 2846, current European standards for PPR installations and to the Engineers approval. All joints shall be assembled employing solvent cements that meet or exceed the requirements of ASTM F493. Rates must allow for all Metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, support raceways, supporting brackets, isolating sheaths, elastic materials, expansion arms and bends, crossovers, couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system. The pipes will be pressure tested before the plastering of wall commences and as per the manufacturers recommended testing pressures.				
Ai	Pipes 25mm diameter pipework 32mm diameter pipework 40mm equal ditto	80 56 40	Lm Lm Lm		
II	Bends 25mm diameter bend 32mm diameter bend 40mm diameter bend	56 36 4	No. No. No.		
iii	Tees 25mm equal tee 32mm equal tee 40mm ditto	40 30 2	No. No. No		
Total Carried to Collection Page					

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
MECHANICAL INSTALLATIONS					
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
iv	Reducers				
	25 x 20mm diameter reducer	54	No.		
	32 x 20mm diameter reducer	26	No.		
	32 x 25mm diameter reducer	36	No.		
v	Threaded Brass Tee				
	20mm male/female threaded brass tee	45	No.		
	25mm male/female threaded brass tee	26	No.		
	32mm male/female threaded brass tee	26	No.		
vi	Threaded Brass Elbow/Bend				
	20mm male/female threaded brass elbow/bend	78	No.		
	25mm male/female threaded brass elbow/bend	52	No.		
	32mm male/female threaded brass elbow/bend	26	No.		
	40mm male/female threaded brass elbow/bend	26	No.		
vii	Threaded Brass Coupling				
	25mm male/female threaded brass coupling	26	No.		
	32mm male/female threaded brass coupling	13	No.		
viii	Threaded Brass Adapter				
	25mm male/female threaded brass adapter	78	No.		
	32mm male/female threaded brass adapter	52	No.		
	40mm male/female threaded brass adapter	26	No.		
B	Flexible Tubing				
	15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve for connecting the sanitary fitting to water supply. To be as Cobra or equal and approved.	45	No		
Total Carried to Collection Page					

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
MECHANICAL INSTALLATIONS					
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
A	Valves 32mm diameter approved medium pressure screw down full way non-rising stem wedge gate valve to BS 5154 PN 20 for series B rating, with wheel and head joints to steel tubing and complete with round male threaded transition fittings. The gate valve to be as PEGLER or approved equivalent.	6	No.		
B	Unions 25mm diameter pipe union 32mm diameter pipe union 50mm diameter pipe union	2 6 26	No. No. No.		
K	Carbon Dioxide Gas Fire Extinguisher 5kg carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	4	No		
L	Dry Chemical Powder Fire Extinguisher 6kg dry chemical powder portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	4	No		
M	Manual Alarm Bell 9" (225mm) manual operated alarm bell (Gong)	1	No		
Total Carried to Collection Page					

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
MECHANICAL INSTALLATIONS					
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Ai	<u>INTERNAL FOUL WATER DRAINAGE</u>				
	Supply, deliver and install the following UPVC, MUPVC, soil and waste systems respectively to B.S 5255 with fittings fixed to Manufactures Printed instructions and manufactured by reputable manufacturers. Tenderers must allow in their pipework prices for all the couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system.				
	MuPVC and uPVC Waste and Soil pipework				
	100mm diameter heavy gauge golden brown UPVC pipe	65	Lm		
	100mm diameter heavy gauge grey UPVC pipe	40	Lm		
	50mm diameter waste pipe	60	Lm		
	40mm diameter waste pipe	52	Lm		
	Bends				
	100mm diameter short radius bend	45	No.		
	100mm diameter sweep bend	15	No.		
	50mm diameter sweep bend	40	No.		
	40mm diameter sweep bend	25	No.		
	Tees				
	100mm diameter sweep tee	16	No.		
	50mm diameter sweep tee	26	No.		
	40mm diameter sweep tee	16	No.		
Total Carried to Collection Page					

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
MECHANICAL INSTALLATIONS					
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
iv	Access Caps				
	100mm diameter access cap	15	No.		
	50mm diameter access cap	12	No.		
	40mm diameter access cap	8	No.		
v	Reducing Sockets				
	40 x 32mm diameter reducing socket	26	No.		
	50 x 32mm diameter reducing socket	26	No.		
	100 x 50mm diameter reducing socket	8	No.		
vi	Single Branch				
	100 x 100mm diameter single branch with 50mm boss adaptor	3	No.		
	100 x 100mm diameter single branch with 40mm boss adaptor	26	No.		
vii	WC Connectors				
	100mm diameter WC connector	16	No.		
viii	Traps				
	100 x 50mm diameter floor trap and grating	11	No.		
Total Carried to Collection Page					

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
MECHANICAL INSTALLATIONS					
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	BILL NO. 3 EXTERNAL FOUL WATER DRAINAGE Supply, deliver and install the following UPVC, MUPVC, soil and waste systems respectively to B.S 5255 with fittings fixed to Manufactures Printed instructions and manufactured by reputable manufacturers. Tenderers must allow in their pipework prices for all the couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system.				
A	MuPVC and uPVC Waste and Soil pipework 150mm diameter heavy gauge grey UPVC pipe 100mm diameter heavy gauge Brown UPVC pipe	150 60	Lm Lm		
B	Bends 100mm diameter bend with access	16	No.		
C	Tees 100mm diameter sweep tee	10	No.		
D	Access Caps 100mm diameter access cap	15	No.		
E	Reducing Sockets 150X100mm diameter reducing socket	5	No.		
F	Weathering Slates and Vent Cowl 100mm diameter weathering slate and apron. 100mm diameter vent cowl	6 6	No. No.		
G	Inspection Chambers Allow excavation, concreting to Class 1:3:6, walling 150mm thick solid concrete block walls with 1:3 mortar and plastering to 1:2, Medium duty Rectangular Cover and Frame to specification for manhole not exceeding 1500mm depth.	17	No.		
H	300X300mm Gully trap	7	No		
I	Excavations Excavate trench in murram for water pipes not exceeding 1000mm deep and average 750mm deep, part return in, fill, ram and surplus cart away.	210	LM		
Total carried to collection Summary page					

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
MECHANICAL INSTALLATIONS					
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	BILL No. 4				
	EXTERNAL WATER RETICULASTIONS WORKS Supply, deliver, install and test PPR-PN20 pipes and fittings as described and shown on the drawings. Rates must allow for all Metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, support raceways, isolating sheaths, elastic materials, expansion arms and bends, crossovers, couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system.				
A	PPR PN20 PIPEWORK 50mm diameter pipework 32mm diameter pipework Extra over tubing for:	50 18	Lm Lm		
B	Bends 50mm diameter 32mm diameter Tees 50mm dia Tee 32mm dia ditto	10 6 8 4	No. No. No. No.		
D	Reducers 32 x 40mm diameter reducer socket 40 x 50mm diameter reducer socket 32 x 50mm diameter reducer socket	8 15 12	No. No. No.		
E	Gate Valves 50mm diameter ditto 32mm diameter ditto	2 1	No. No.		
F	Pipe Sockets 50mm diameter ditto 32mm diameter ditto	25 15	No. No.		
G	Male/Female Brass Threaded Adapters/Transition fittings. 50mm diameter ditto 32mm diameter ditto	4 2	No. No.		

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
MECHANICAL INSTALLATIONS					
H	Water Booster Pump Set Duty and standby Grundfos automatic water pumpset doing 5m ³ /h against head of 15m complete , with pressure switches,gauges and control panel. Panel to be from standard anodized sheet metal and to contain visual indicators,protection relays, voltmeter, ammeter auto manual selection switch etc. Other components in pump assembly are 1 level set for low level float switches dry,run cut out, 1 set of electrical system time delay switch etc. Tenderer to note that panels wiring diagram will require Engineer's approval prior to its fabrication. The tenderer is also to allow for fabrication of a pump housing as shown in the drawings. The supply must come complete with all the valves, fittings required to make the system work as intended.	1	Set		
	ROOF TANK Supply, deliver and install 5,000 ltrs plastic tank. The tank to come complete with tank cover, mosquito proof inspection vent, internal stays, jointing material, bolts and nuts including applying two coats of non-toxic bituminous paint on the inside and two coats of aluminum paint on the outside. The tank shall have 32mm diameter inlet,50mm diameter outlet, 40mm diameter overflow and 15mm diameter warning pipe as well as 32mm high pressure float valve.	2	No		
	50mm diameter for vent/overflow pipe	1	Ls		
	20mm diameter for level indicator and its connection	1	No		
	Testing and commissioning of the installation and hand over in proper working condition to the satisfaction of the Engineer.	1	Ls		
Total C/F to External Water reticulation Price Collection Page					

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
MECHANICAL INSTALLATIONS					
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	BILL NO. 5				
	LABORATORY LABORATORY L.P. GAS INSTALLATION				
A	L. P. Gas cylinder(25 kg) fully charged Manifold	6	No.		
B	20mm diameter 4m long GMS manifold pipe with 2No. branches tappings to gas cylinders complete with mounting plugs.GMS pipework	3	No.		
C	Supply, deliver and install copper Tubing to BS 2871:part1 and capillary and compression fittings to BS 864: Tubing must be solid drawn round, clean, smooth and free from defects and from deleterious films in the bore. The fittings must be free from internal fins or other irregularities. Compression fittings shall be Type A (non-manipulative). Allow in your pipe-work prices for pipe support clips and cradles, joining fixing etc				
	6/8 dia copper tubing	54	Lm		
	8/10 -ditto	36	Lm		
	10/12 -ditto	28	Lm		
	12/14-ditto	18	Lm		
	15mm	12	Lm		
D	Extra Over Copper Tubing for the following fittings:- 6/8 mm diameter Brass Equal Tee	22	No.		
	8/10mm ditto	18	No.		
	10/12 mm ditto	10	No.		
	8/10 x 6/8mm diameter Brass Unequal Teel	8	No.		
Total carried forward to collection page					

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
MECHANICAL INSTALLATIONS					
Descriptions					
	10/12 x 8/10 ditto	12	No.		
	10/12 x 8/10 mm diameter Brass Reducer	8	No.		
	8/10 x 6/8mm ditto	12	No.		
E	Gas Valves				
	15 mm diameter approved quarter turn, lever operated ball valve to BS 5154 and joints to copper tubing and compression to BS 804/2	6	No.		
F	Pressure Regulator				
	12mm dia. First stage gas pressure regulator as Rego 2403 V.9 complete with connections and brackets for 2No. gas cylinder Tanks.	3	No.		
	15mm dia. Second stage gas regulator as Rego 2503 B for the supply pipe	3	No.		
G	Gas Outlet (Tap)				
	Low pressure LP gas outlet with a safety drop lever to prevent accidental "turn on" 2 CFM at 2 p.s.i, 4mm diameter outlet and ¼" BSP tail with backnut. The outlet shall be as Vultex Labline 2-way bench mounted with 2 cocks spaced at 90o angle Model No. VL 2601/D	58	No.		
H	Bunsen Burner				
	Bunsen Burner to use the L P. Gas with 9mm outside diameter riffled gas inlet tube and air regulator. Overall height 120mm and burner tube of 13mm outside diameter. The burner shall be as PARCO Ltd Ref. BYB-045 R or equal and approved.	58	No.		
	12mm diameter 600mm long gas hose pipe to fit.	58	No.		
I	Laboratory sink				
	Laboratory sink to be 492x419x165mm deep manufactured from polypropylene black in colour. The sink to be complete with 38mm diameter BSP waste, and black nut, Butyl rubber gasket, Water taps to be as Laboratory sink two-way mounting fitting tap with inlets concealed supply, one swivel outlet with nozzle as Vultex Labline equipment. To be Vulcathane laboratory sinks No. or equal and approved.	30	No.		
Total carried forward to next page					

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
MECHANICAL INSTALLATIONS					
	Total carried forward to previous page				
J	Emergency Drencher Shower for use where accidental splashing of acid, chemical or radioactive chemical demands instant attention. Automatic in action, the shower sends down torrential cascade of water as soon as the user pulls the chain. 1 1/4" non-concussive valve with chain and rubber, 305mm diameter shower head with pipe and wall stays. Metal work chrome-plated. As "Armitage Shanks" or equal and approved	2	No		
K	Eye Wash Fountain All chrome-plated metal eye wash fountain which instantly provides a gentle stream of water to wash the eyes in the event of an accident. The unit shall be as " Armitage Shanks" or equal and approved.	2	No		
12	Fume Cupboard Supply, deliver and install a Fume Cupboard of exterior dimensions of 600mm wide x 500mm deep x 2400mm high. Fume Cupboard to be complete with sliding plexiglass face with a 6" work opening running full width of cabinet, counterbalance weight at the back, base cabinet with sliding doors, an 4" diameter exhaust collar connections, extract fan, fan flexible connectors overhead instrument control panel, and shall incorporate a Vulcathene Sink, L.P. gas outlet and a non-corrosive bulkhead light. Fume Cupboard to be lined with epoxy coated Aluminium on working surface and sides. Fume Cupboard to be as 'Nimrod F 3000" or equal and approved equivalent	1	No		
	Fume cupboard extract fan Fume Cupboard extract fan capable of 0.15m ³ /s against a system pressure drop of 20N/m ² . Casing of the fan to be in rigid PVC, impellers moulded in phenolic resin and motor protected by sealing coat of polyurethane compound. Fan to be complete with motor starter, Electrical control panel fixed near the Fume cupboard with ON/OFF and trip and a manual override in the plant room, flexible connections anti-vibration mountings, supports. Fan to be as "WOODS" fume cupboard fan size 8" running at 1200 RPM or equal and approved equivalent.	1	No		
13	Fume Cupboard Extract Ductwork Supply, deliver and install 200mm diameter uPVC ductwork for the fume cupboard above.				
	200mm diameter uPVC pipework class 'D	10	Lm		
	Holderbats for 200mm diameter pipework	1	Item		
	200mm diameter Bends	2	No		
	200mm diameter ventilating Cowls	1	No		
	Weathering Slate for 200mm Ø pipe	1	No		
	Weathering Apron for 200mm Ø pipe	1	No		
	Total Carried Forward to Sanitary Fittings next Page				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
MECHANICAL INSTALLATIONS					
L	Total c/f from previous page				
	Laboratory drainage Supply, deliver and fix the following in UPVC soil and waste systems to BS 4514 and 5225 with fittings fixed in accordance to the manufacturer's printed instructions and BS 5572 and manufactured by "KEY TERRAIN" for UPVC and vulcathene pipes by "VULCATHENE DURAPIPE-S&LP" as described. All UPVC and vulcathene branches, Tees, reducing Tees, reducers etc. are to be formed in accordance to the manufacturer's printed instruction. The installations to have the various sizes of connectors, adaptors, sockets, reducers holdbats, clips etc. as required for satisfactory functions.				
M	Vulcathene Pipes 38mm diameter waste Vulcathene pipes	35	Lm		
	53mm diameter waste Vulcathene pipes	56	Lm		
N	Bends 53mm diameter Vulcathene sweep bends	28	No		
	38mm diameter Vulcathene sweep bends	16	No		
O	Tees 53mm diameter Vulcathene tees	16	No		
	38mm diameter Vulcathene tees	6	No		
P	Access Caps 38mm diameter Vulcathene access caps				
	53mm diameter Vulcathene access caps	12	No		
		18	No		
Q	Reducing coupler 53 x 38 Vulcathene reducing socket	30	No		
R	Dilution trap 4.5 litres anti-siphonic dilution recovery trap complete with other necessary fittings as CAT No.W612 Allow for connecting all drainage to 200 x 100mm deep channel.	3	No		
	Total carried to collection page				
	<u>COLLECTION PAGE FOR PLUMBING AND DRAINAGE WORKS</u>				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY			
MECHANICAL INSTALLATIONS			
Item	Description		Amount (Kshs)
1	Total carried forward from page 1		
2	Total carried forward from page 2		
3	Total carried forward from page 3		
4	Total carried forward from page 4		
5	Total carried forward from page 5		
6	Total carried forward from page 6		
7	Total carried forward from page 7		
8	Total carried forward from page 8		
9	Total carried forward from page 9		
Total Plumbing and Drainage Works for Carried to Summary Page			

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ELECTRICAL INSTALLATIONS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	BILL NO.1 GROUND FLOOR				
	SUPPLY, DELIVER, INSTALL, TEST AND COMMISSION THE FOLLOWING:-				
1.01	LIGHTING POINTS AND SWITCHES Lighting points wired in 3 x 1.5mm ² PVC/SC CU cables drawn in 20mmØ concealed HG PVC conduits complete with all necessary accessories but excluding				
	i) One way switching	50	No		
	ii) Two way switching	30	No		
1.02	10A, moulded ivory white switch plates as MK Range or approved equivalent as				
a)	1 gang 1 way	50	No		
b)	1 gang 2 way	30	No		
1.03	LIGHTING FITTINGS Lighting fittings complete with lamps and all other necessary accessories:-				
a)	Type E 43W, 300mm x1200mm, 4281 lumen ,lamp colour 4000k recessed LED	30	No		
b)	Type C:87 cut out dia 24w 900lm recessed down light as thorn chalice 74.	15	No		
c)	Type CL: circular ceiling recessed led light 36W surface mounted	5	No		
d)	Type P: 30W LED flood light	4	No		
f)	Type B: IP54 50W Led Flood Light as of Philips Lighiting or equivalent	4	No		
g)	Self-contained single sided EXIT sign with 8W fluorescent lamp for non-maintained	3	No.		
h)	Photocell	4	No		
i)	25A 4P Contactor	1	No		
	Balance carried forward				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ELECTRICAL INSTALLATIONS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Balance brought forward				-
1.05	POWER POINTS				
a)	13 amp ringmain socket outlet points wired in 3 x 2.5sq.mm PVC insulated single core copper cables drawn in 20mm diameter HG PVC conduits concealed in the walls and floor slab, complete with all accessories but excluding the socket outlet plate.				
b)	13A moulded switched socket outlet plates as Crabtree or approved equivalent as follows:	30	No		
	Power point accessories				
1.06	Allow for supply, installation and commissioning of the following accessories as specified below:-				
1.07	13 Amp twin switched moulded socket outlet plate flush mounted on wall as Crabtree AM 4306/D or approved equivalent.	30	No.		
1.09	20A DP fused switched connection unit complete with neon indicator as MK.	4	No		
Total Cost Carried Forward To Next Page					

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ELECTRICAL INSTALLATIONS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
2.00	<u>BILL NO. 2: TV EARIAL INSTALLATION</u> Final sub-circuits from TV aerial point in a conduit installation comprising 25 mm diameter concealed heavy gauge PVC conduit complete with draw wires and all accessories and fittings(Conduit Works Only)				
2.02	Tv earial outlet	4	No		
Total Cost Carried Forward To Summary Page					

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ELECTRICAL INSTALLATIONS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
3.00	BILL No. 3: POWER DISTRIBUTION DISTRIBUTION BOARDS, CONSUMER UNITS , SUB-MAIN CABLES,UPS & POWER DRAW BOXES Supply, Install, Test and Commission the following Distribution Boards / Consumer Units as Crabtree or approved equivalent				
3.01	12way TPN main distribution board c/w 250A integral MCB isolator and all accessories but without MCBs.	1	No.		
3.02	Appropriate cable loop-in box/adaptable box with all accessories	2	No		
3.03	63A TPN MCCB isolator	2	No.		
3.04	Miniature circuit breakers for the items above				
	i) 6A SP	3	No.		
	i) 10A SP	4	No.		
	i) 20A SP	10	No.		
	i) 32A SP	2	No.		
	Sub-mains comprising of 4 x 35.0 sq. mm sc PVC insulatedcopper cables for Live, Neutral and Earth continuity in existing 32mm diameter PVC conduit from the Meter Board on ground floor stairwall to the respective consumer units complete with lugs and accessories	200	No.		
3.09	Earthing of distribution boards to K.P.L.C standards	1	Lot		
3.12	20Amps SPN Isolator switch as Harvell or approved equivalent for the Air Fans	6	No		
Total Cost Carried Forward To Summary Page					-

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

ELECTRICAL INSTALLATIONS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	<u>BILL No.4: FIRE DETECTION & ALARM ,DATA ,CCTV SECURITY</u>				
	SUPPLY, DELIVER, INSTALL SET TO WORK AND COMMISSION THE				
6.01	4MP ANPR Bullet Solar Power 4G/Wifi Network Camera Kit	3	No.		
6.02	Allow for cloud storage subscription for atleast 1 month after handover	1	No.		
6.03	Cat6 RJ45 Modular Connectors for stranded Cat6 Cable	8	Pcs		
6.04	9U cabinet with inbuilt fan	1	No.		
6.05	1M Patchcords	10	item		
6.06	Single Data Outlets	8	No.		
6.07	Cat 6 cable	3	roll		
6.11	Electronic sounder point completely wired in 2x1.5mm ² single core PVC insulated heat resistant copper cables drawn in 20mm diameter HG PVC conduits including all accessories but excluding the sounder unit	2	No.		
6.12	Combined electronic sounder and beacon point completely wired in 4x1.5mm ² single core PVC insulated heat resistant copper cables drawn in 20mm diameter HG PVC conduits including all accessories but excluding the combined unit	1	No.		
6.13	Power points completely wired in 3x2.5mm ² single core PVC insulated copper cables drawn in 20mm diameter HG PVC conduits including all accessories but excluding the 13A DP fused switched connection unit.	1	No.		
6.14	2 Zone convectional fire detection and alarm panel complete with 72 hour stand by batteries, zone indicator lights, test and reset buttons and supervisory buzzer	1	No.		
6.15	Break glass call unit	2	No.		
6.16	Photoelectric smoke detector	10	No.		
6.18	Electronic sounder unit for internal location mounting	1	No.		
	Total Cost Carried Forward To Summary Page				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
ELECTRICAL INSTALLATIONS					
	<u>SUMMARY</u>				AMOUNT
	Bill No.1 Lighting and Power point Bill No.2 TV Aerial Installation BillNo.3; Power Distribution Bill No.4; Fire Detection and Alarm, Data, CCTV Security Bill No.5; Solar system				
	TOTAL FOR ELECTRICAL INSTALLATIONS				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY

SOLAR INSTALLATION SYSTEMS

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	RATE KES	AMOUNT
					KES
1	Supply, install and commission Solar PV Panels,350W 37.61 Vmp, 8.51A and all the accessories and fittings as per the specifications.	No.	72		
2	Grid Tied Inverter rated as follows: AC Output Rating: 30KW, 400V, 50HZ, TPN, DC input Rating: Maximum PV Input Power: 11KW, Rated Nominal voltage: 500V, PV operating Voltage range: 200-580V, MPPT current rating: 36A, Number of MPPT Trackers: 2.	No.	1		
3	Supply and install the following single core 16 sq mm 1500 Volts DC non - armoured copper cables. Note: The cable sizing is based on a 2x12 array. The sizes may change depending on the supply and actual distances between the panels and the final array configuration.	m	120		
4	Supply, install and commission the following cables from the inverter to the main switchgear.				
a	25mm squared 4 core armoured copper cable with earth from the inverter to the switchgear	m	40		
5	Supply and install PVC trunking for cable managenent 100x50mm	m	50		
6	Supply, install and commission mounting brackets according to the specifications and the panels selected. Bidders are to include in their cost the civil works involved and are encouraged to visit the site for site appreciation. Use rooftop)	LS	1		
8	200AH, 12V Deep Cycle Solar Batteries includind mounting accessories, terminal clips and cabling.	No.	20		
	TOTAL CARRIED FORWARD TO SUMMARY SHEET				

PROPOSED BILL OF QUANTITIES FOR CONSTRUCTION OF A TVET CENTRE AT PWANI UNIVERSITY					
Item	Description	Qty	Unit	Rate	Amount
	<u>PROVISIONAL SUMS FOR TVET CENTRE</u>				
	<u>DIRECTIONAL SIGNAGE</u> <u>Double sided hanging signage with arrows all made of good quality polycarbonate compete with mild steel hanging chain to approval</u>				
A	Allow a Prime-Cost sum of Kenya Shillings Fifty Thousand (KShs 50,000/=) only for direction signage to be executed complete by Nominated Sub-contractor	SUM	1	50,000	50,000.00
	<u>BRANDED SIGNAGE</u> <u>The following Branding work in good quality material all to the approval of the Architect:</u>				
B	Allow a Prime-Cost sum of Kenya Shillings Fifty Thousand (KShs 50,000/=) only for Branded signage to be executed complete by Nominated Sub-contractor	SUM	1	50000	50,000.00
	<u>LANDSCAPING</u> Allow a Provisional Sum of Kshs.One Hundred and fifty Thousand (100,000 /=) only for Landscaping including planting of about 100 trees and flowers in the early stages of the project and maintenance of trees around the structure and grading/levelling the area around the TVET Centre and improving walkways	SUM	1	100000	100,000.00
	<u>CONTINGENCY SUM</u> Provide the Provisional sum of Kshs Three million (Kshs.3,000,000/=) only to meet or offset cost of works or expenses which cannot be foreseen to be omitted or expended in whole or in part subject to instructions given by the project manager.	sum			3,000,000.00
	<u>CLERK OF WORKS</u> The said works shall be executed under the direction and to the entire satisfaction of the Architect and clerk of works who shall have the Architect's specifically delegated authority and shall at all times have access to the works, to the yards and workshops of the contractor or other places where goods are being prepared for the building. No work shall be covered up nor shall any concreting be carried out in the absence of the clerk of works without prior approval of the 'architect'.				600,000.00
	<u>GROUND BREAKING</u> Provide the Provisional sum of Kshs.Fifty Thousand (Kshs.50,000/=) only for Ground breaking	item			50,000.00
	<u>SUPPLY OF WATER TANK</u> Allow sum for supply and delivery of 3no. 10000 litre water tank as "ROTO" tank well branded for water storage	Sum			264,000
	TOTAL CARRIED TO MAIN SUMMARY				4,114,000.00

PROPOSED BILL OF QUANTITIES FOR UPGRADING PWANI UNIVERSITY		
MAIN SUMMRY FOR RENOVATION WORKS		
SR NO	DESCRIPTION	SUM (KSHS)
1	Renovation of Block A; Automative Garage and Mechanical Workshop	
2	Renovation of Block B; Mushroom,Plumbing,Electrical,Masonary and Welding Workshops	
3	Renovation of Block C	
4	Renovation of Computer Lab	
5	External Works;Parking,Landscaping	
6	Provisional Sums for Renovation works	402,000
	TOTAL FOR RENOVATION WORKS CARRIED TO GRAND SUMMARY	

PROPOSED RENOVATION BOQ FOR AUTOMATIVE GARAGE AND MECHANICAL WORKSHOP

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 1</u>				
	<u>DEMOLITIONS</u>				
	<u>Floor finishes</u>				
A	Carefully hack away floor screed finish on existing floor including ramp and dispose, and prepare surface for new finish	480	m2		
	<u>Wall finishes</u>				
B	Scrub down loose paint and wash wall surfaces ready for new paint finish; internal and external wall including repairs to any chipping plasters	503	m2		
	<u>Oil Change Pit</u>				
C	Scrub down/hack off existing wall and floor surfaces ready for new tiles	39	m2		
	<u>Doors</u>				
D	Carefully take down existing timber doors of sizes 900x2400 including frames,load and dispose debris; make good any affected area and prepare receive new door	2	no		
	<u>Windows</u>				
E	Carefully take down existing timber louvred windows of sizes 1800x1500 including frames and dispose;make good affected areas and prepare receive new windows	2	No.		
F	Carefully take down existing wiremeshof size 36000x1500mm,16000x1500mm and 10400x3500mm ;including timber frames and dispose;make good affected areas and prepare receive new grills	1	Item		
	<u>Roof covering</u>				
G	Carefully demolish the existing roof covering comprising of asbestos roofing sheets put debris aside ; Prepare to receive new roof	548	SM		
H	Allow for Carefully loading,transporting and disposal of the roof debris comprising of asbestos roofing sheets in a safe manner as approved by National Environmental Mananagement Authority(NEMA)	548	SM		
	<u>Carried to collection</u>				

PROPOSED RENOVATION BOQ FOR AUTOMATIVE GARAGE AND MECHANICAL WORKSHOP

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 2</u> <u>ROOF WORK</u>				
	<u>Roof Covering</u>				
	<u>Prepare steel members as required, including sanding and cleaning.</u> <u>Apply two coats of black bituminous paint to all surfaces, ensuring full coverage and protection, all in accordance with manufacturer's instructions and to the approval of the Architect.</u>				
A	28 gauge pre-painted MRM Galvanised roofing sheets as DUMUZAZ on existing steel roof structures (m/s) including all fixing bolts to manufacturer's specifications	548	SM		
B	Extra over for ridge cap to match	42	LM		
	<u>Roof Eaves finishes</u> <u>In wrot cypress - Prime grade</u>				
C	250 x 25mm fascia & verge board	111	m		
	<u>Upvc rainwater goods as M/s Vista or other equal and approved to details</u>				
D	150mm dia half round PVC gutter on brackets @1000mm centres, attached by roof straps	85.00	LM		
E	100mm diameter rain water drain pipe fixed with bracket bearers @900mm centres	20.00	LM		
F	Allow for Construction of a 10000ltr Water Tank Plinth including a fetching point well finished with tiles as in the Architectural detailed drawing; including all necessary plumbing connections	2.00	NO		
	<u>Extra over rainwater goods for :-</u>				
G	75mm diameter shoe	4.00	NO		
H	75mm diameter swan neck	4.00	NO		
I	75mm diameter outlet	4.00	NO		
J	Stopped end	8.00	NO		
	<u>Painting and Decorating</u> <u>Prepare and apply three coats of gloss paint to metal surfaces including sanding off loose paint</u>				
K	General surfaces of entrance bollards	3.00	NO		
	<u>Prepare and apply three coats gloss oil paint to wood</u>				
L	Surfaces between 200mm and 300mm girth	111.00	LM		
	<u>Carried to collection</u>				

PROPOSED RENOVATION BOQ FOR AUTOMATIVE GARAGE AND MECHANICAL WORKSHOP

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 3</u>				
	<u>FINISHES</u>				
	<u>New Wall and Plaster</u>				
A	200mm thick masonry wall jointed with sand and cement mortar of ratio 1:3, reinforced with hoop iron in alternate course	32	m2		
B	Prepare and apply 15mm thick cement and sand plaster to surfaces of wall	64	m2		
C	Ditto to surfaces of oil change pit	39	m2		
	<u>Painting</u>				
	<u>Allow for skimming and sanding, Prepare and apply one undercoat and two finishing coats of silk vinyl emulsion finished paint for Internal surfaces and wether guard paint for external surfaces as "Crown Paints" or other equal and approved paint to Architects colour map on:</u>				
D	Surfaces of walls, columns and beams	500	m2		
	<u>Supply and fix approved coloured ceramic wall tiles including bedding in approved tile adhesive and pointing with coloured grout complete with pvc corner pieces to all edges and border tiles as per architect's details</u>				
E	For washrooms	67	m2		
F	For Oil change pit	39	m2		
	<u>Floor Finishes</u>				
	<u>Insitu cement and sand (1:3) screeded beds, with wood float finish on concrete including all necessary balancing and sloping</u>				
G	20mm screed finished to receive terrazo flooring	480	m2		
	<u>Terrazo Flooring</u>				
H	20mm thick Terrazo floor finish	480	m2		
	<u>Carried to collection</u>				

PROPOSED RENOVATION BOQ FOR AUTOMATIVE GARAGE AND MECHANICAL WORKSHOP

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 4</u> <u>WINDOWS AND DOORS</u> <u>Timber Louvred Windows</u> <u>Supply and fix the following purpose made timber louvered windows with 75x20mm thick sawn cypress treated timber guard fixed to existing masonry wall and lintel ;sawn cypress treated timber window frames all as per architectural detail and a pair single control aluminium stile each with clips for 150mm wide glass louvered and screwed to timber frames,complete with horizontal 12mm thick mild steel rods in pvc pipes at 150mm c/c as per architectural detail;fix mosquito net in windows;Prepare wooden surfaces touch up with primer , and apply two undercoats and one finishing coat gloss paint on general surfaces of timber not exceeding 150mm girth</u>				
A	Window overall size 1200mm wide x 1500mm high	2	NO		
B	<u>Glazing</u> 150x6mm thick obscured glass and fix into clips of louvered stiles in panes not exceeding 0.1SM	4	SM		
C	<u>Mild Steel Burglar Proof Grilled windows</u> Fabricate,supply and fix Galvanised burglar proof mild steel grilled window,overall size 5000 x 1700mm high, constructed from 25x25x3mm mild steel shs framing,with integral burglar-proof grilles made from 12mm diameter solid mild steel round bars,spaced at 100mm c/c as per architectural detail.Grilles to be fully welded to the frame and reinforced with 25x6mm flat bar stiffeners at 600mm c/c.Frames to include 100mm long mild steel fixing lugs for embedding in concrete.All welding to be continuous,neat and ground smooth.Windows to be pre-treated with one coat red oxide primer for anticorrosion protection and two finish coats of gloss oil paint to the surfaces;all done to Architect's satisfaction	11	NO		
D	Ditto but window size,3000x1200mm	2	NO		
E	Ditto but window size,10800x1000mm	1	NO		
	<u>Total carried forward</u>				

PROPOSED RENOVATION BOQ FOR AUTOMATIVE GARAGE AND MECHANICAL WORKSHOP

Item	Description	Qty	Unit	Rate	Amount
	<i>Total brought forward</i>				
	<u>DOORS</u>				
	<u>HARDWOOD DOORS AND FRAMES</u>				
	<u>Supply and fix 50mm thick solid hardwood doors , lipped all round with 12mm mahogany; 250 x 75mm rebated hardwood solid timber frame, 25mm quadrant beading, 50 x 15mm architraves with surface primed back,including all ironmongery;complete with polishing and appropriate three (3) coats clear lacquer all done to the satisfaction of the Architect in accordance with Architectural drawings</u>				
A	Double leaf door overall size 1200 x 2400mm high with 6mm thick clear sheet glass infill complete with polishing and appropriate clear lacquer all done to the satisfaction of the Architect in accordance with Architectural drawings -	1	no		
B	Ditto but single leaf door 900x2400mm high	2	no		
C	Ditto but single leaf door 800x2400mm high	2	no		
	<u>ROLLER SHUTTER STEEL DOOR</u>				
D	Fabricate,suppy and fix manually operated Galvanised Roller shutter steel door overall size 4000x2000mm high;complete with interlocking curved slats,roll-formed and reinforced with end locks to prevent lateral movement;shutter to be complete with galvanized steel bottom rail,hand-operated locking device,weather resistant neoprane seals and painted with one coat red oxide primer.All accessories,fixing bolts,brackets,channels,anchor plates and paint to the surfaces of the door with gloss oil paint to Architect's details	1	NO		
	<u>Carried to collection</u>				

PROPOSED RENOVATION BOQ FOR AUTOMATIVE GARAGE AND MECHANICAL WORKSHOP

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 5</u> <u>EXTERNAL WORKS</u>				
	<u>Excavation and Earthworks</u>				
A.	Clear site and excavate 300mm thick starting from ground level	38	CM		
	<u>Disposal</u>				
B.	Load, and cart away,excavated materials	38	CM		
	<u>Filling</u>				
C.	200mm thick approved murram fill well watered and compacted in layers	125	SM		
	<u>Grading</u>				
D.	Grade and compact formation level	125	SM		
	<u>Paving slabs</u>				
E.	Provide, lay and compact 600x600x50 mm thick precast concrete paving slabs on 50mm thick sand bed on the compacted surface	125	SM		
	<u>Carried to collection</u>				

PROPOSED RENOVATION BOQ FOR AUTOMATIVE GARAGE AND MECHANICAL WORKSHOP

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 6</u>				
	<u>JOINERY FITTINGS AND FIXTURES</u>				
	<u>The following in Workshop worktops</u>				
	<u>Plinths</u>				
A	100 mm thick plain concrete(1:3:6-38mm aggregates) benching including formwork to sides of plinths	28.00	sm		
	<u>Screed</u>				
	<u>Insitu cement and sand (1:3) screeded beds, with steel trowelled finish on concrete</u>				
B	12mm thick cement and sand (1:3) screed with smooth finish	28.00	sm		
	<u>Worktops</u>				
C	600 mm wide worktops comprising 75mm thick concrete slab with and including BRC mesh wire A98 ,formwork : plaster and paint to soffits of work top: support walls 100mm thick where necessary, forming openings for sinks where necessary, all in accordance with architect's drawings	28.00	sm		
	<u>Supply ,deliver and apply approved coloured terrazo</u>				
D	Terrazzo finish to worktops including fascia and skirting	28.00	sm		
	<u>The following in storage cabinets</u>				
	<u>Supply and fix the following cabinets consisting of 18mm thick Laminated MDF doors and blockboard carcass, complete with divisions, shelves, drawers and the like, ironmongery, all assembled in accordance with the architects and manufactures instructions.</u>				
E	Low level cabinets size 10000mm long x 600 mm deep x 800 mm high	2.00	no		
	<u>Wall mounted storage cabinets(Store)</u>				
F	Fabricate and fix 6tier racks/ & storage unit made of 18mm thick Laminated MDF blockboard carcass,well supported and mounted to the existing wall, complete with divisions, shelves, and ironmongery, all assembled in accordance with the architects detail; overall sizes 5000mm long x 2300mm high x 400mm deep	2.0	no		
	<u>Carried to collection</u>				

PROPOSED RENOVATION BOQ FOR AUTOMATIVE GARAGE AND MECHANICAL WORKSHOP

Item	Description	Qty	Unit	Rate	Amount
	<u>PROVISIONAL SUMS AND PRIME COSTS</u>				
	<u>Builders work in connection with services</u>				
A	Allow a provisional sum of Ksh 20,000/= for builders work in connection with services		Item	20000	20,000
	<u>Electrical Installations</u>				
	Provide a PC sum for Electrical services installations				
	-General electrical works				
B	-Lighting fixtures External and Internal; Ceiling fans				
	-Local authority facilitation fees				
	-Testing and commissioning	1	item	70000	70,000
	<u>Mechanical Installations</u>				
	Provide a PC sum for Mechanical services installations				
	-General mechanical works				
C	-Provide for sanitary fittings required				
	-All Plumbing and Drainage works				
	-Testing and commissioning	1	item	100000	100,000
	<u>Carried to collection</u>				
	<u>PROVISIONAL SUMS TO GRAND SUMMARY</u>				190,000

PROPOSED RENOVATION BOQ FOR AUTOMATIVE GARAGE AND MECHANICAL WORKSHOP

Item	Description	Qty	Unit	Rate	Amount
	<u>PROPOSED RENOVATION BOQ FOR AUTOMATIVE GARAGE AND MECHANICAL WORKSHOPS</u> <u>FOR</u> <u>SAFARICOM FOUNDATION</u> <u>SUMMARY</u>	<u>Page</u>			
1	Bill No. 1 Renovation of Maternity Block -Demolitions -Roofwork -Finishes -Window & Doors -External Works -Joinery Fixtures Total				
2	Bill No. 2 Prime cost and Provisional Sums TOTAL FOR RENOVATION CARRIED TO MAIN SUMMARY				190,000

PROPOSED RENOVATION BOQ FOR BLOCK B;MUSHROOM HUB,PLUMBING,ELECTRICAL,MASONARY AND WELDING WORKSHOPS

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 1</u>				
	<u>DEMOLITIONS</u>				
	<u>Floor finishes</u>				
A	Carefully hack away floor screed finish on existing floor including ramp and dispose, and prepare surface for new finish	242	m2		
	<u>Wall finishes</u>				
B	Scrub down loose paint and wash wall surfaces ready for new paint finish; internal and external wall including repairs to any chipping plasters	386	m2		
	<u>Wall demolitions</u>				
C	Carefully demolish existing masonry wall to create grills,load and dispose debris;make good any affected area	70	m2		
	<u>Doors</u>				
D	Carefully take down existing timber doors of sizes1200x2400 including frames,load and dispose debris; make good any affected area and prepare receive new door	4	no		
	<u>Windows</u>				
E	Carefully take down existing timber louvred windows of sizes 1500x1800(5) and 1000x1800(5) including frames and dispose;make good affected areas and prepare receive new windows	10	No.		
	<u>Roof covering</u>				
F	Carefully demolish the existing roof covering comprising of asbestos roofing sheets put debris aside ; Prepare to receive new roof	256	SM		
G	Allow for Carefully loading,transporting and disposal of the roof debris comprising of asbestos roofing sheets in a safe manner as approved by National Environmental Mananagement Authority(NEMA)	256	SM		
	<u>Carried to collection</u>				

PROPOSED RENOVATION BOQ FOR BLOCK B;MUSHROOM HUB,PLUMBING,ELECTRICAL,MASONARY AND WELDING WORKSHOPS

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 2</u>				
	<u>ROOF WORK</u>				
	<u>Roof Covering</u>				
	<u>Prepare steel members as required, including sanding and cleaning.</u> <u>Apply two coats of black bituminous paint to all surfaces, ensuring full coverage and protection, all in accordance with manufacturer's instructions and to the approval of the Architect.</u>				
A	28 gauge pre-painted MRM Galvanised roofing sheets as DUMUZAZ on existing steel roof structures (m/s) including all fixing bolts to manufacturer's specifications	300	SM		
B	Extra over for ridge cap to match	32	LM		
	<u>Roof Eaves finishes</u> <u>In wrot cypress - Prime grade</u>				
C	250 x 25mm fascia & verge board	82	m		
	<u>Upvc rainwater goods as M/s Vista or other equal and approved to details</u>				
D	150mm dia half round PVC gutter on brackets @1000mm centres, attached by roof straps	63.00	LM		
E	100mm diameter rain water drain pipe fixed with bracket bearers @900mm centres	20.00	LM		
	<u>Extra over rainwater goods for :-</u>				
F	75mm diameter shoe	4.00	NO		
G	75mm diameter swan neck	4.00	NO		
H	75mm diameter outlet	4.00	NO		
I	Stopped end	8.00	NO		
	<u>Painting and Decorating</u> <u>Prepare and apply three coats gloss oil paint to wood</u>				
J	Surfaces between 200mm and 300mm girth	82.00	LM		
	<u>Carried to collection</u>				

PROPOSED RENOVATION BOQ FOR BLOCK B;MUSHROOM HUB,PLUMBING,ELECTRICAL,MASONARY AND WELDING WORKSHOPS

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 3</u>				
	<u>FINISHES</u>				
	<u>New Wall and Plaster-Mushroom Hub</u>				
A	200mm thick masonry wall jointed with sand and cement mortar of ratio 1:3, reinforced with hoop iron in alternate course	18	m2		
B	Prepare and apply 15mm thick cement and sand plaster to surfaces of wall	36	m2		
	<u>Painting</u>				
	<i>Allow for skimming and sanding, Prepare and apply one undercoat and two finishing coats of silk vinyl emulsion finished paint for Internal surfaces and wether guard paint for external surfaces as "Crown Paints" or other equal and approved paint to Architects colour map on:</i>				
D	Surfaces of walls, columns and beams	422	m2		
	<u>Floor Finishes</u>				
	<i>Insitu cement and sand (1:3) screeded beds, with wood float finish on concrete including all necessary balancing and sloping</i>				
G	20mm screed finished to receive terrazo flooring	242	m2		
	<u>Terrazo Flooring</u>				
H	20mm thick Terrazo floor finish	242	m2		
	<u>Carried to collection</u>				

PROPOSED RENOVATION BOQ FOR BLOCK B;MUSHROOM HUB,PLUMBING,ELECTRICAL,MASONARY AND WELDING WORKSHOPS

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 4</u> <u>WINDOWS AND DOORS</u> <u>Timber Louvred Windows</u> <u>Supply and fix the following purpose made timber louvered windows with 75x20mm thick sawn cypress treated timber guard fixed to existing masonry wall and lintel ;sawn cypress treated timber window frames all as per architectural detail and a pair single control aluminium stile each with clips for 150mm wide glass louvered and screwed to timber frames,complete with horizontal 12mm thick mild steel rods in pvc pipes at 150mm c/c as per architectural detail;fix mosquito net in windows;Prepare wooden surfaces touch up with primer , and apply two undercoats and one finishing coat gloss paint on general surfaces of timber not exceeding 150mm girth</u>				
A	Window overall size 1200mm wide x 1500mm high	2	NO		
	<u>Glazing</u>				
B	100x0mm thick obscured glass and fix into clips or louvered slits in panes not exceeding 0.4SM	4	SM		
	<u>Mild Steel Burglar Proof Grilled windows</u>				
C	Fabricate,supply and fix Galvanised burglar proof mild steel grilled window,overall size 5800 x 1200mm high, constructed from 25x25x3mm mild steel shs framing,with integral burglar-proof grilles made from 12mm diameter solid mild steel round bars,spaced at 100mm c/c as per architectural detail.Grilles to be fully welded to the frame and reinforced with 25x6mm flat bar stiffeners at 600mm c/c.Frames to include 100mm long mild steel fixing lugs for embedding in concrete.All welding to be continuous,neat and ground smooth.Windows to be pre-treated with one coat red oxide primer for anticorrosion protection and two finish coats of gloss oil paint to the surfaces;all done to Architect's satisfaction	6	NO		
D	Prepare and apply one coat of red oxide primer anticorrosion protection nd two finis coats of gloss oil paint to surfaces of existing steel windows as per Architects instructions	28	SM		
	<u>Total carried forward</u>				

PROPOSED RENOVATION BOQ FOR BLOCK B;MUSHROOM HUB,PLUMBING,ELECTRICAL,MASONARY AND WELDING WORKSHOPS

Item	Description	Qty	Unit	Rate	Amount
	<i>Total brought forward</i>				
	<u>DOORS</u>				
	<u>HARDWOOD DOORS AND FRAMES</u>				
	<u>Supply and fix 50mm thick solid hardwood doors , lipped all round with 12mm mahogany; 250 x 75mm rebated hardwood solid timber frame, 25mm quadrant beading, 50 x 15mm architraves with surface primed back,including all ironmongery;complete with polishing and appropriate three (3) coats clear lacquer all done to the satisfaction of the Architect in accordance with Architectural drawings</u>				
A	Double leaf door overall size 1200 x 2400mm high with 6mm thick clear sheet glass infill complete with polishing and appropriate clear lacquer all done to the satisfaction of the Architect in accordance with Architectural drawings -	4	no		
B	Ditto but single leaf door 900x2400mm high-mushroom hhub	1	no		
C	Prepare and apply one coat of red oxide primer anticorrosion protection nd two finis coats of gloss oil paint to surfaces of existing steel door as per Architects instructions	8	SM		
	<u>Carried to collection</u>				

<u>PROPOSED RENOVATION BOQ FOR BLOCK B;MUSHROOM HUB,PLUMBING,ELECTRICAL,MASONARY AND WELDING WORKSHOPS</u>					
Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 5</u> <u>EXTERNAL WORKS</u>				
	<u>Excavation and Earthworks</u>				
A.	Clear site and excavate 300mm thick starting from ground level	16	CM		
	<u>Disposal</u>				
B	Load, and cart away,excavated materials	16	CM		
	<u>Filling</u>				
C.	200mm thick approved murram fill well watered and compacted in layers	52	SM		
	<u>Grading</u>				
D.	Grade and compact formation level	52	SM		
	<u>Paving slabs</u>				
E.	Provide, lay and compact 600x600x50 mm thick precast concrete paving slabs on 50mm thick sand bed on the compacted surface	52	SM		
	<u>Carried to collection</u>				

PROPOSED RENOVATION BOQ FOR BLOCK B;MUSHROOM HUB,PLUMBING,ELECTRICAL,MASONARY AND WELDING WORKSHOPS

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 6</u>				
	<u>JOINERY FITTINGS AND FIXTURES</u>				
	<u>The following in Workshop worktops</u>				
	<u>Plinths</u>				
A	100 mm thick plain concrete(1:3:6-38mm aggregates) benching including formwork to sides of plinths	39.00	sm		
	<u>Screed</u>				
	<u>Insitu cement and sand (1:3) screeded beds, with steel trowelled finish on concrete</u>				
B	12mm thick cement and sand (1:3) screed with smooth finish	39.00	sm		
	<u>Worktops</u>				
C	600 mm wide worktops comprising 75mm thick concrete slab with and including BRC mesh wire A98 ,formwork : plaster and paint to soffits of work top: support walls 100mm thick where necessary, forming openings for sinks where necessary, all in accordance with architect's drawings	39.00	sm		
	<u>Supply ,deliver and apply approved coloured terrazo</u>				
D	Terrazzo finish to worktops including fascia and skirting	39.00	sm		
	<u>The following in storage cabinets</u>				
	<u>Supply and fix the following cabinets consisting of 18mm thick Laminated MDF doors and blockboard carcass, complete with divisions, shelves, drawers and the like, ironmongery, all assembled in accordance with the architects and manufactures instructions.</u>				
E	Low level cabinets size 10000mm long x 600 mm deep x 800 mm high	4.00	no		
	<u>Wall mounted storage cabinets(Darkroom mushroom hub)</u>				
F	Fabricate and fix 6tier racks/ & storage unit made of 18mm thick Laminated MDF blockboard carcass,well supported and mounted to the existing wall, complete with divisions, shelves, and ironmongery, all assembled in accordance with the architects detail; overall sizes 6000mm long x 2300mm high x 400mm deep	2.0	no		
	<u>Carried to collection</u>				

PROPOSED RENOVATION BOQ FOR BLOCK B;MUSHROOM HUB,PLUMBING,ELECTRICAL,MASONARY AND WELDING WORKSHOPS

Item	Description	Qty	Unit	Rate	Amount
	<u>PROVISIONAL SUMS AND PRIME COSTS</u>				
	<u>Builders work in connection with services</u>				
A	Allow a provisional sum of Ksh 20,000/= for builders work in connection with services		Item	20000	20,000
	<u>Electrical Installations</u>				
	Provide a PC sum for Electrical services installations				
	-General electrical works				
B	-Lighting fixtures External and Internal; Ceiling fans				
	-Local authority facilitation fees				
	-Testing and commissioning	1	item	50000	50,000
	<u>Mechanical Installations</u>				
	Provide a PC sum for Mechanical services installations				
	-General mechanical works				
C	-Provide for Aircondition in the Mushroom Hub-Dark room				
	-All Plumbing and Drainage works				
	-Testing and commissioning	1	item	100000	100,000
	<u>PROVISIONAL SUMS TO GRAND SUMMARY</u>				170,000

<u>PROPOSED RENOVATION BOQ FOR BLOCK B;MUSHROOM HUB,PLUMBING,ELECTRICAL,MASONARY AND WELDING WORKSHOPS</u>					
Item	Description	Qty	Unit	Rate	Amount
	<u>PROPOSED RENOVATION BOQ FOR BLOCK B WORKSHOPS</u> <u>FOR</u> <u>SAFARICOM FOUNDATION</u> <u>SUMMARY</u>	<i>Page</i>			
1	Bill No. 1 Renovation of Maternity Block -Demolitions -Roofwork -Finishes -Window & Doors -External Works -Joinery Fixtures Total				
2	Bill No. 2 Prime cost and Provisional Sums TOTAL FOR RENOVATION CARRIED TO MAIN SUMMARY				170,000

PROPOSED RENOVATION BOQ FOR BLOCK C WORKSHOPS

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 1</u>				
	<u>DEMOLITIONS</u>				
	<u>Floor finishes</u>				
A	Carefully hack away floor screed finish on existing floor including ramp and dispose, and prepare surface for new finish	480	m2		
	<u>Wall finishes</u>				
B	Scrub down loose paint and wash wall surfaces ready for new paint finish; internal and external wall including repairs to any chipping plasters	991	m2		
	<u>Doors</u>				
D	Carefully take down existing timber doors of sizes 900x2400 and 1200x2400mm including frames,load and dispose debris; make good any affected area and prepare receive new door	5	no		
	<u>Windows</u>				
E	Carefully take down existing timber louvred windows of sizes 1800x1500 including frames and dispose;make good affected areas and prepare receive new windows	5	No.		
	<u>Roof covering</u>				
G	Carefully demolish the existing roof covering comprising of asbestos roofing sheets put debris aside ; Prepare to receive new roof	548	SM		
H	Allow for Carefully loading,transporting and disposal of the roof debris comprising of asbestos roofing sheets in a safe manner as approved by National Environmental Mananagement Authority(NEMA)	548	SM		
	<u>Carried to collection</u>				

PROPOSED RENOVATION BOQ FOR BLOCK C WORKSHOPS

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 2</u>				
	<u>ROOF WORK</u>				
	<u>Roof Covering</u>				
	<u>Prepare steel members as required, including sanding and cleaning.</u> <u>Apply two coats of black bituminous paint to all surfaces, ensuring full coverage and protection, all in accordance with manufacturer's instructions and to the approval of the Architect.</u>				
A	28 gauge pre-painted MRM Galvanised roofing sheets as DUMUZAZ on existing steel roof structures (m/s) including all fixing bolts to manufacturer's specifications	548	SM		
B	Extra over for ridge cap to match	42	LM		
	<u>Roof Eaves finishes</u> <u>In wrot cypress - Prime grade</u>				
C	250 x 25mm fascia & verge board	111	m		
	<u>Upvc rainwater goods as M/s Vista or other equal and approved to details</u>				
D	150mm dia half round PVC gutter on brackets @1000mm centres, attached by roof straps	85.00	LM		
E	100mm diameter rain water drain pipe fixed with bracket bearers @900mm centres	20.00	LM		
F	Allow for Construction of a 10000ltr Water Tank Plinth including a fetching point well finished with tiles as in the Architectural detailed drawing; including all necessary plumbing connections	2.00	NO		
	<u>Extra over rainwater goods for :-</u>				
G	75mm diameter shoe	4.00	NO		
H	75mm diameter swan neck	4.00	NO		
I	75mm diameter outlet	4.00	NO		
J	Stopped end	8.00	NO		
	<u>Painting and Decorating</u>				
	<u>Prepare and apply three coats gloss oil paint to wood</u>				
L	Surfaces between 200mm and 300mm girth	111.00	LM		
	<u>Carried to collection</u>				

PROPOSED RENOVATION BOQ FOR BLOCK C WORKSHOPS

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 3</u> <u>FINISHES</u> <u>Painting</u> <i>Allow for skimming and sanding. Prepare and apply one undercoat and two finishing coats of silk vinyl emulsion finished paint for Internal surfaces and wether guard paint for external surfaces as "Crown Paints" or other equal and approved paint to Architects colour map on:</i>				
D	Surfaces of walls, columns and beams	991	m2		
	<u>Floor Finishes</u> <i>Insitu cement and sand (1:3) screeded beds, with wood float finish on concrete including all necessary balancing and sloping</i>				
G	20mm screed finished to receive terrazo flooring	480	m2		
	<u>Terrazo Flooring</u>				
H	20mm thick Terrazo floor finish	480	m2		
	<u>Carried to collection</u>				

PROPOSED RENOVATION BOQ FOR BLOCK C WORKSHOPS

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 4</u> <u>WINDOWS AND DOORS</u> <u>Timber Louvred Windows</u> <u>Supply and fix the following purpose made timber louvered windows with 75x20mm thick sawn cypress treated timber guard fixed to existing masonry wall and lintel ;sawn cypress treated timber window frames all as per architectural detail and a pair single control aluminium stile each with clips for 150mm wide glass louvered and screwed to timber frames,complete with horizontal 12mm thick mild steel rods in pvc pipes at 150mm c/c as per architectural detail;fix mosquito net in windows;Prepare wooden surfaces touch up with primer , and apply two undercoats and one finishing coat gloss paint on general surfaces of timber not exceeding 150mm girth</u>				
A	Window overall size 1200mm wide x 1500mm high	5	NO		
	<u>Glazing</u> B 150x6mm thick obscured glass and fix into clips of louvered stiles in panes not exceeding 0.1SM	9	SM		
	<u>DOORS</u> <u>HARDWOOD DOORS AND FRAMES</u> <u>Supply and fix 50mm thick solid hardwood doors , lipped all round with 12mm mahogany; 250 x 75mm rebated hardwood solid timber frame, 25mm quadrant beading, 50 x 15mm architraves with surface primed back,including all ironmongery;complete with polishing and appropriate three (3) coats clear lacquer all done to the satisfaction of the Architect in accordance with Architectural drawings</u>				
C	Double leaf door overall size 1200 x 2400mm high with 6mm thick clear sheet glass infill complete with polishing and appropriate clear lacquer all done to the satisfaction of the Architect in accordance with Architectural drawings -	1	no		
B	Ditto but single leaf door 900x2400mm high	4	no		
	<u>Carried to collection</u>				

PROPOSED RENOVATION BOQ FOR BLOCK C WORKSHOPS

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 5</u> <u>EXTERNAL WORKS</u>				
	<u>Excavation and Earthworks</u>				
A.	Clear site and excavate 300mm thick starting from ground level	38	CM		
	<u>Disposal</u>				
B.	Load, and cart away,excavated materials	38	CM		
	<u>Filling</u>				
C.	200mm thick approved murram fill well watered and compacted in layers	125	SM		
	<u>Grading</u>				
D.	Grade and compact formation level	125	SM		
	<u>Paving slabs</u>				
E.	Provide, lay and compact 600x600x50 mm thick precast concrete paving slabs on 50mm thick sand bed on the compacted surface	125	SM		
	<u>Carried to collection</u>				

PROPOSED RENOVATION BOQ FOR BLOCK C WORKSHOPS

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 6</u>				
	<u>JOINERY FITTINGS AND FIXTURES</u>				
	<u>The following in Workshop worktops</u>				
	<u>Plinths</u>				
A	100 mm thick plain concrete(1:3:6-38mm aggregates) benching including formwork to sides of plinths	28.00	sm		
	<u>Screed</u>				
	<u>Insitu cement and sand (1:3) screeded beds, with steel trowelled finish on concrete</u>				
B	12mm thick cement and sand (1:3) screed with smooth finish	28.00	sm		
	<u>Worktops</u>				
C	600 mm wide worktops comprising 75mm thick concrete slab with and including BRC mesh wire A98 ,formwork : plaster and paint to soffits of work top: support walls 100mm thick where necessary, forming openings for sinks where necessary, all in accordance with architect's drawings	28.00	sm		
	<u>Supply ,deliver and apply approved coloured terrazo</u>				
D	Terrazzo finish to worktops including fascia and skirting	28.00	sm		
	<u>The following in storage cabinets</u>				
	<u>Supply and fix the following cabinets consisting of 18mm thick Laminated MDF doors and blockboard carcass, complete with divisions, shelves, drawers and the like, ironmongery, all assembled in accordance with the architects and manufactures instructions.</u>				
E	Low level cabinets size 10000mm long x 600 mm deep x 800 mm high	2.00	no		
E	Ditto but size 25000mm long x 600 mm deep x 800 mm high	2.00	no		
	<u>Wall mounted storage cabinets(Store)</u>				
F	Fabricate and fix 6tier racks/ & storage unit made of 18mm thick Laminated MDF blockboard carcass,well supported and mounted to the existing wall, complete with divisions, shelves, and ironmongery, all assembled in accordance with the architects detail; overall sizes 5000mm long x 2300mm high x 400mm deep	2.0	no		
	<u>Carried to collection</u>				

PROPOSED RENOVATION BOQ FOR BLOCK C WORKSHOPS

Item	Description	Qty	Unit	Rate	Amount
	<u>PROVISIONAL SUMS AND PRIME COSTS</u>				
	<u>Builders work in connection with services</u>				
A	Allow a provisional sum of Ksh 20,000/= for builders work in connection with services		Item	20000	20,000
	<u>Electrical Installations</u>				
	Provide a PC sum for Electrical services installations				
	-General electrical works				
B	-Lighting fixtures External and Internal; Ceiling fans				
	-Local authority facilitation fees				
	-Testing and commissioning	1	item	50000	50,000
	<u>Mechanical Installations</u>				
	Provide a PC sum for Mechanical services installations				
	-General mechanical works				
C	-Provide for sanitary fittings required				
	-All Plumbing and Drainage works				
	-Testing and commissioning	1	item	50000	50,000
	<u>PROVISIONAL SUMS TO GRAND SUMMARY</u>				120,000

<u>PROPOSED RENOVATION BOQ FOR BLOCK C WORKSHOPS</u>					
Item	Description	Qty	Unit	Rate	Amount
	<u>PROPOSED RENOVATION BOQ FOR BLOCK C WORKSHOPS</u> <u>FOR</u> <u>SAFARICOM FOUNDATION</u> <u>SUMMARY</u>	<i>Page</i>			
1	Bill No. 1 Renovation of Maternity Block -Demolitions -Roofwork -Finishes -Window & Doors -External Works -Joinery Fixtures Total				
2	Bill No. 2 Prime cost and Provisional Sums TOTAL FOR RENOVATION CARRIED TO MAIN SUMMARY				120,000

PROPOSED RENOVATION BOQ FOR COMPUTER LAB

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 1</u>				
	<u>DEMOLITIONS</u>				
	<u>Floor finishes</u>				
A	Carefully hack away floor screed finish on existing floor including ramp and dispose, and prepare surface for new finish	120	m2		
	<u>Wall finishes</u>				
B	Scrub down loose paint and wash wall surfaces ready for new paint finish; internal and external wall including repairs to any chipping plasters	210	m2		
	<u>Chipboard Ceiling</u>				
G	Carefully scrap off existing ceiling paint;dispose debris and prepare receive new paint;allow for repair of any damaged boards	120	SM		
	<u>Doors</u>				
C	Carefully take down existing timber doors of sizes 1200x2400(including frames,load and dispose debris; make good any affected area and prepare receive new door	1	no		
	<u>Windows</u>				
D	Carefully take down existing timber louvred windows of sizes 1200x1500 including frames and dispose;make good affected areas and prepare receive new windows	7	No.		
	<u>Carried to collection</u>				

PROPOSED RENOVATION BOQ FOR COMPUTER LAB

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 2</u>				
	<u>FINISHES</u>				
	<u>Painting</u> <i>Allow for skimming and sanding. Prepare and apply one undercoat and two finishing coats of silk vinyl emulsion finished paint for Internal surfaces and wether guard paint for external surfaces as "Crown Paints" or other equal and approved paint to Architects colour map on:</i>				
A	Surfaces of walls, columns and beams	210	m2		
	<u>Floor Finishes</u> <u>Cement and sand (1:3) screeds, backings, beds etc</u>				
E	32mm bed finished to receive Ceramic tiles floor finish; to floor	120	m2		
F	<u>Polished Ceramic Floor tiles</u> Supply and Fix 600X600X8mm thick non slip ceramic floor tiles; on prepared bed(m.s) with proprietary adhesive; jointed and pointed in matching coloured proprietary grouting; including pvc spacers and expansion joint as necessary: all to Architect's approval.	120	m2		
I	<u>Painting and decorating</u> <u>Prepare and apply three coats first quality matt emulsion paint on:-</u> Chipboard ceilings internally	120	m2		
	<u>Carried to collection</u>				

PROPOSED RENOVATION BOQ FOR COMPUTER LAB

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 4</u>				
	<u>WINDOWS AND DOORS</u>				
	<u>Timber Louvred Windows</u>				
	<u>Supply and fix the following purpose made timber louvered windows with 75x20mm thick sawn cypress treated timber guard fixed to existing masonry wall and lintel ;sawn cypress treated timber window frames all as per architectural detail and a pair single control aluminium stile each with clips for 150mm wide glass louvered and screwed to timber frames,complete with horizontal 12mm thick mild steel rods in pvc pipes at 150mm c/c as per architectural detail;fix mosquito net in windows;Prepare wooden surfaces touch up with primer , and apply two undercoats and one finishing coat gloss paint on general surfaces of timber not exceeding 150mm girth</u>				
A	Window overall size 1200mm wide x 1500mm high	7	NO		
	<u>Glazing</u>				
B	150x6mm thick clear/obscured glass and fix into clips of louvered stiles in panes not exceeding 0.1SM	13	SM		
	<u>Burglar proofing</u>				
C	Fabricate and install burglar-proof grilles made from 12mm diameter solid mild steel round bars,spaced at 100mm c/c as per architectural detail.Grilles to be fully welded to the frame and reinforced with 25x6mm flat bar stiffeners at 600mm c/c.Frames to include 100mm long mild steel fixing lugs for embedding in concrete.All welding to be continuous,neat and ground smooth.Windows to be pre-treated with one coat red oxide primer for anticorrosion protection and two finish coats of gloss oil paint to the surfaces;all done to Architect's satisfaction	13	SM		
	<u>DOORS</u>				
	<u>TIMBER DOORS</u>				
	<u>HARDWOOD DOORS AND FRAMES</u>				
	<u>Supply and fix 50mm thick solid hardwood doors , lipped all round with 12mm mahogany; 250 x 75mm rebated hardwood solid timber frame, 25mm quadrant beading, 50 x 15mm architraves with surface primed back,including all ironmongery;complete with polishing and appropriate three (3) coats clear lacquer all done to the satisfaction of the Architect in accordance with Architectural drawings</u>				
D	Single leaf door overall size 1200 x 2400mm high with 6mm thick clear sheet glass infill complete with polishing and appropriate clear lacquer all done to the satisfaction of the Architect in accordance with Architectural drawings -	no	1		
	<u>Carried to collection</u>				

PROPOSED RENOVATION BOQ FOR COMPUTER LAB

Item	Description	Qty	Unit	Rate	Amount
	<u>ELEMENT NO. 5</u> <u>EXTERNAL WORKS</u> <u>Excavation and Earthworks</u>				
A.	Clear site and excavate 300mm thick starting from ground level	13	CM		
	<u>Disposal</u>				
B	Load, and cart away,excavated materials	13	CM		
	<u>Filling</u>				
C.	200mm thick approved murram fill well watered and compacted in layers	43	SM		
	<u>Grading</u>				
D.	Grade and compact formation level	43	SM		
	<u>Paving slabs</u>				
E.	Provide, lay and compact 600x600x50 mm thick precast concrete paving slabs on 50mm thick sand bed on the compacted surface	43	SM		
	<u>Carried to collection</u>				
	<u>PROVISIONAL SUMS AND PRIME COSTS</u> <u>Builders work in connection with services</u>				
A	Allow a provisional sum of Ksh 20,000/= for builders work in connection with services		Item	20000	20,000
	<u>Electrical Installations</u> Provide a PC sum for Electrical services installations -General electrical works				
B	-Lighting fixtures External and Internal; Ceiling fans -Local authority facilitation fees -Testing and commissioning	1	item	100000	100,000
	<u>Carried to collection</u>				
	<u>PROVISIONAL SUMS</u> <u>TO GRAND SUMMARY</u>				120,000

<u>PROPOSED RENOVATION BOQ FOR COMPUTER LAB</u>					
Item	Description	Qty	Unit	Rate	Amount
	<u>PROPOSED RENOVATION BOQ FOR COMPUTER LAB AT PWANI UNIVERSITY- KILIFI COUNTY</u> <u>FOR</u> <u>SAFARICOM FOUNDATION</u> <u>SUMMARY</u>	<u>Page</u>			
1	Bill No. 1 Renovation of Maternity Block -Demolitions -Finishes -Window & Doors -External Works Total				
2	Bill No. 2 Prime cost and Provisional Sums TOTAL FOR RENOVATION CARRIED TO MAIN SUMMARY				120,000

PROPOSED BILL OF QUANTITIES FOR UPGRADING OF PWANI UNIVERSITY

EXTERNAL AND LANDSCAPING WORKS

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1	<u>BUS PARKING AREA</u>				
	<u>Excavation and Earthworks</u>				
A.	Excavate 300mm thick starting from ground level	76	CM		
	<u>Disposal</u>				
B	Load, and cart away,excavated materials	76	CM		
	<u>Murram filling</u>				
C	200mm thick approved murram fill well watered and compacted in layers	253	SM		
	<u>Grading</u>				
D	Grade and compact formation level	253	SM		
	<u>CABRO PAVING AT PARKING AREA</u>				
F	Provide, lay and compact 80mm thick heavy duty cabro paving including filling joints with sand and sweeping away surplus material	253	SM		
G	Provide and lay 100x125mm precast concrete flat Kerb bedded and jointed in cement and sand mortar including foundation and surrounding	67	LM		
	<u>Painting</u>				
	<u>Prepare and apply three coats of gloss paint to metal surfaces including sanding off loose paint</u>				
H	General surfaces of steel poles	24.00	NO		
	<u>Prepare and apply two coats of approved weather-resistant, anti-corrosive paint to galvanized iron roofing sheets, including all necessary cleaning, surface preparation (degreasing, derusting), primer coat application where required, and protection of adjacent surfaces.</u>				
I	General surfaces of Roof including timber members at Bus parking	273.00	SM		
	<u>Total for Bus Parking Carried to collection</u>				

PROPOSED BILL OF QUANTITIES FOR UPGRADING OF PWANI UNIVERSITY

EXTERNAL AND LANDSCAPING WORKS

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2	<u>DRIVEWAY AND BREAKOUT AREA</u>				
	<u>Excavation and Earthworks</u>				
	<u>Site Clearance and Oversight Excavations</u>				
A	Clear site and excavate average 150mm deep to remove top vegetable soil, (including all surface treatments such as grading, levelling and compaction of exposed red soils on sloppy surfaces) load, cart away and stock - pile on site as directed for landscaping use.	2725	SM		
	<u>Driveway</u>				
B	Excavate 300mm thick starting from stripped level	277	CM		
	<u>Disposal</u>				
C	Load, and cart away,excavated materials	277	CM		
	<u>Murram filling</u>				
D	200mm thick approved murram fill well watered and compacted in layers	922	SM		
	<u>Grading</u>				
E	Grade and compact formation level	922	SM		
	<u>CABRO PAVING AT PARKING AREA</u>				
F	Provide, lay and compact 80mm thick heavy duty cabro paving including filling joints with sand and sweeping away surplus material	922	SM		
G	Provide and lay 100x125mm precast concrete flat Kerb bedded and jointed in cement and sand mortar including foundation and surrounding	34	LM		
	<u>Breakout Area</u>				
H	Provide, mix and spread and roll 250mm thick grass growing medium, comprising of approved locally available agriculture red soil mixed with manure (ratio manure: soil= 1:6) to correct levels and crossfall to engineers satisfaction.	1803	SM		
I	Provide and plant Pennisetum Clandestinum (Kikuyu grass) spaced at 100mm centres, both ways or of equal quality approved by the Engineer.	1803	SM		
J	Maintain by regularly watering and weeding until the grass cover is well established.	1803	SM		
	Total for Breakout Area Carried to collection				

PROPOSED BILL OF QUANTITIES FOR UPGRADING OF PWANI UNIVERSITY

EXTERNAL AND LANDSCAPING WORKS

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3	<u>GATE</u>				
	<u>Excavation and Earthworks</u>				
	<u>Site Clearance and Oversight Excavations</u>				
A	Clear site and excavate average 150mm deep to remove top vegetable soil, (including all surface treatments such as grading, levelling and compaction of exposed red soils on sloppy surfaces) load, cart away and stock - pile on site as directed for landscaping use.	10	SM		
B	Excavate Column bases depth not exceeding 1.5m deep starting from stripped or reduced level	7	CM		
C	Ditto to trench excavation	6	CM		
	<u>Disposal</u>				
D	Load, and cart away,excavated materials	6	CM		
	<u>Back filling</u>				
E	Backfill with selected non expansive excavated material including watering and compaction of surfaces	7	CM		
	<u>CONCRETE</u>				
	<u>PLAIN CONCRETE</u>				
F	50mm thick mass concrete class 15 blinding under footings and column bases	8.00	SM		
	<u>In situ concrete class 25 to BS 8110, vibrated and reinforced as described, in:-</u>				
G	Strip foundations	1.00	CM		
H	Column base	1.80	CM		
I	Column	1.20	CM		
	<u>REINFORCEMENT</u>				
	<u>Reinforcement in different sizes. High yield square twisted bars or ribbed reinforcement to KS573:2014 Kenya standard specification for cold worked high yield steel bars for reinforcement of concrete bars for reinforcement (or other equal and approved) with and including tying wire, distance blocks and ordinary spacers, all necessary cutting, bending and laying. The rate shall be deemed to include the binding wire and the spacer block.</u>				
J	Strip foundations	40.00	KG		
K	Column base	49.00	KG		
L	Column	103.00	KG		
	<u>FORMWORK</u>				
	<u>Marine Board formwork to:-</u>				
M	Vertical sides of strip footing	5.00	SM		
N	Vertical sides of columns bases	6.00	SM		
O	Ditto but Columns	15.00	SM		
	<u>WALLING</u>				
	<u>Load bearing natural/ quarry stone block walling, rough chisel dressed bonded and jointed in cement sand (1:3) mortar with and including hoop irons to every alternate course.</u>				
P	200mm thick substructure walling	80	SM		
	<u>Total carried forward</u>				

PROPOSED BILL OF QUANTITIES FOR UPGRADING OF PWANI UNIVERSITY

EXTERNAL AND LANDSCAPING WORKS

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Total brought forward				
	<u>FINISHES</u>				
	<u>Plaster</u>				
A	Prepare and apply 15mm thick cement and sand plaster to surfaces of wall	126	m2		
	<u>Painting</u>				
	<i>Allow for skimming and sanding. Prepare and apply one undercoat and two finishing coats of silk vinyl emulsion finished paint for Internal surfaces and wether guard paint for external surfaces as "Crown Paints" or other equal and approved paint to Architects colour map on:</i>				
B	Surfaces of walls, columns	126	m2		
	<u>Copings</u>				
	<i>300 x 50 mm thick precast concrete class 20/20 coping, splayed top; weathered and twice throated; finished fair on exposed surfaces bedded straight on:</i>				
C	Masonry wall	20	LM		
	<i>Precast concrete class 20/20 coping, splayed top; weathered and twice throated; finished fair on exposed surfaces bedded on columns:</i>				
D	75mm thick n various sizes	3	NO		
	<u>GATE</u>				
E	Allow a sum for fabrication, supply, and installation of a mild steel gate, including a pedestrian access door, complete with priming, painting, all ironmongery, and fixing to concrete or masonry support structures. The gate shall be finished with two coats of gloss paint over red oxide primer.	1	NO		
	Total for Gate Area Carried to collection				