CONSTRUCTION TO COMPLETION OF A PERIMTER WALL, GATE AND GATE HOUSE AT KIZINGITINI SECONDARY SCHOOL

TOTAL PERIMETER LENGTH=735M

NG-CDF LAMU EAST CONSTITUENCY

FINANCIAL YEAR 2026/2027

BILL OF QUANTITIES

ITEM	DESCRIPTION	AMOUNT
	PARTICULAR PRELIMINARIES	
A	PRICING ITEMS OF PRELIMINARIES Prices **SHALL BE INSERTED** against items of "preliminaries" in the tenderer's priced Bills of Quantities. The contractor is advised to read and understand all preliminary items.	
B	DESCRIPTION OF THE WORKS The works to be carried out under this contract constitute: The Project involves the construction of **685metres** long Perimeter Wall, **50metres** long Substructural Seawall and Guard & Gate Entrance house , which entails, Excavation & Earthworks including fillings, Waterproofing, Concrete works, Reinforcement, Formwork, Walling, Roofing, Doors & Gates, Windows, Finishes. Electrical and Mechanical Installations	
C	FLOOR AREAS The total gross floor areas are approximately square metres. The total gross floor area is given without warranty but for guidance only.	
D	MEASUREMENTS In the event of any discrepancies arising between the Bills of Quantities and the actual works, the site measurements shall generally take precedence. However, such discrepancies between any contract documents shall immediately be referred to the PROJECT MANAGER in accordance with Clause 12 of the General Conditions of Contract. The discrepancies shall then be treated as a Variation and be dealt with in accordance with Clause 13 of the said Conditions.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	**LOCATION OF SITE** The site of the proposed works is at **Kizingitini Secondary School in Lamu East constituency, Lamu County.** The Contractor is advised to visit the site, to familiarize with the nature and position of the site. No claims arising from the Contractor's failure to do so will be entertained. The Contractor shall be deemed to have verified for themselves the following: (a) The nature of the site (b) The amount of clearing and cutting and fillings and therefore ready with the right equipment. (c) The nature of existing communication by road or otherwise. (d) The availability of land for the erection and positioning of all temporary structures, plant and materials necessary for the execution of the works.	
B	**SIGNING OF THE TENDER DOCUMENTS** The bidder shall append his / her signature and / or company 's rubberstamp on each and every page of tender document.	
C	**BID SECURITY** The Bidder shall furnish, as part of his bid, a security as specified in the tender advertisement. The bid security shall, at the bidder's option, be in the form of a certified cheque, bank draft, standby letter of credit or guarantee from a reputable bank located in Kenya or insurance firm approved by the Government. The format of the bank guarantee shall be in accordance with the sample forms of bid security included in the post qualification forms, other formats may be permitted, subject to the prior approval of the Government.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	DEMOLITIONS AND ALTERATIONS The Contractor is to allow for all temporary protection required during the works including ordinary and special dust screens, hoardings, barriers, warning signs, etc as directed by the Project Manager and as necessary for the adequate propping and protection of existing property, finishes, workmen employed on the site, employer's agents and the public. Any damage or loss incurred due to the insufficiency of such protection must be made good by the Contractor. All protective devices are to be removed on completion of the works and any necessary making good consequent upon this is to be excecuted to the satisfaction of the Project Manager. The works shall be propped, strutted and supported as necessary before any alteration or demolition work commences. Prices shall include for all cleaning and preparatory work to structure and finishes and for making good to all finishes on completion whether or not specifically described. Unless described as set aside for re-use all arising debris and surplus materials shall be carefully removed from building and carted away from site. The Contractor shall be entirely responsible for any breakage or damage which may occur to materials required for re-use during their removal unless it is certified by the Project Manager that such damage or breakage was inevitable as a result of the condition of the item concerned.	
B	CLEARING AWAY The Contractor shall remove all temporary works, rubbish, debris and surplus materials from the site as they accumulate and upon completion of the works, remove and clear away all plant, equipment, rubbish, unused materials and stains and leave in a clean and tidy state to the reasonable satisfaction of the Project Manager. The whole of the works shall be delivered up clean, complete and in perfect condition in every respect to the satisfaction of the Project Manager.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	CLAIMS It shall be a condition of this contract that upon it becoming reasonably apparent to the Contractor that he has incurred losses and / or expenses due to any of the contract conditions, or by any other reason whatsoever, he shall present such a claim or intent to claim notice to the PROJECT MANAGER within the contract period. No claim shall be entertained upon the expiry of the said contact period.	
B	PAYMENTS The tenderer's attention is drawn to the fact that the Government shall not make advance payments but pays for work done and materials delivered to site: all in accordance with Clause 14 of the General Conditions of Contract Agreement. In order to facilitate this, a list of the general component elements for the works is given at the summary page of these specifications and the tenderer is requested to break down his tender sum commensurate to the said elements.	
C	PREVENTION OF ACCIDENT, DAMAGE OR LOSS The Contractor is notified that these works are to be carried out on a restricted site where the client is going on with other normal activities. The Contractor is thus instructed to take reasonable care in the execution of the works as to prevent accidents, damage or loss and disruption of activities beeing carried out by the Client. The Contractor shall allow in his rates any expense he deemed necessary by taking such care within the site.	
D	WORKING CONDITIONS The Contractor shall allow in his rates for any interferance that he may encounter in the course of the works for the Client may in some cases ask the Contractor not to proceed with the works until some activities within the site are completed, as the facility will be operating as usual during the course of the contract.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	WORKING CONDITIONS The Contractor shall allow in his rates for any interferance that he may encounter in the course of the works for the Client may in some cases ask the Contractor not to proceed with the works until some activities within the site are completed, as the facility will be operating as usual during the course of the contract.	
B	SIGNBOARD Allow for providing, erecting, maintaining throughout the course of the Contract and afterwards clearing away a signboard as designed, specified and approved by the Project Manager.	
C	LABOUR CAMPS The Contractor shall not be allowed to house labour on site. Allow for transporting workers to and from the site during the tenure of the contract.	
D	MATERIALS FROM DEMOLITIONS Any materials arising from demolitions and not re-used shall become the property of the client.	
E	PRICING RATES The tenderer shall include for all costs in executing the whole of the works, including transport, replacing damaged items, fixing, all to comply with the said Conditions of Contract.	
F	SECURITY The Contractor shall allow for providing adequate security for the works and the workers in the course of execution of this contract. No claim will be entertained from the Contractor for not maintaining adequate security for both the works and workers.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	URGENCY OF THE WORKS The Contractor is notified that these " works are urgent" and should be completed within the period stated in these Particular Preliminaries. The Contractor shall allow in his rates for any costs he/ she deems that he/she may incur by having to complete these works within the stipulated contract period.	
B	PAYMENT FOR MATERIALS ON SITE All materials for incorporation in the works must be stored on site before payment is effected, unless specifically exempted by the Project Manager. This is to include materials of the Contractor, nominated sub-Contractors and nominated suppliers.	
C	EXISTING SERVICES Prior to the commencement of any work, the Contractor is to ascertain from the relevant authority the exact position, depth and level of all existing services in the area and he/she shall make whatever provisions may be required by the authorities concerned for the support, maintenance and protection of such services.	
D	CONTRACT COMPLETION PERIOD The contract completion period in accordance with condition clause 10 as amended of the Conditions of contract must be adhered to. The 'PROJECT MANAGER' shall strictly monitor the Contractors progress in relation to the progress chart and should it be found necessary the 'PROJECT MANAGER' 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, e.t.c and working overtime all at his cost.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	PERFORMANCE BOND A bond of 5% of the contract sum will be required in accordance with clause 48 (as amended) of the Instructions to Tenderer's. No payment on account for the works executed will be made to the contractor until he has submitted the Performance Bond to the Project Manager duly signed, sealed and stamped from an approved Bank.	
B	TENDER DOCUMENTS Tender documents are as listed in Sub-Clause 6 of the Instruction to Tenderer.	
C	DELIVERY OF TENDER Tenders and all documents in connection therewith, as specified above must be delivered in the addressed envelope which should be properly sealed and deposited at the offices as specified in the letter accompanying these documents or as indicated in the advertisement. Tenders will be opened at the time specified in the letter accompanying these Tender Documents or as indicated in the advertisement. Tenders delivered/received later than the above time will not be opened.	
D	VALUE ADDED TAX The Contractor's attention is drawn to the Legal Notice in the Finance Act part 3 Section 21(b) operative from 1st September, 1993 which requires payment of VAT on all contracts. The Contractor should therefore include allowance in his rates and prices for prices for VAT and any other Government taxes currentlv in force.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
	The tenderer is advised that in accordance with Government public notice No. 35 & 36 Dated 11th September 2003 operational from 1st October 2003, VAT will be deducted against the contract sum at the prevailing rate by the Employer and remitted directly to the Commissioner of VAT through all interim certificates. It should however be noted that this is not additional tax but a new mode of payment for VAT, any excess payment will be refundable once the Contractor has submitted monthly returns to the Commissioner of VAT who will do the refunds when satisfied that the VAT regulations have been complied with ALL RATES SHALL BE VAT INCLUSIVE **NB:** Capacity Building Levy by PPRA shall be added at the Grand Summary page	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	<u>PARTICULARS OF INSERTIONS TO BE MADE IN APPENDIX TO CONTRACT AGREEMENT</u> The following are the insertions to be made in the appendix to the Contract Agreement: - **Period of Final Measurement** **3** Months From Practical completion **Defects Liability Period** **6** Months from Practical completion **Date for Possession** To be agreed with the Project Manager **Date for Completion** **40 Weeks** from date of Possession **Liquidated and Ascertained** At the rate of Kshs.. **0.01 %** per Day or part thereof of the contract price **Prime cost** sums for which the Contractor desires to tender…… **Period of Interim Certificates** Monthly **Period of Honouring Certificates** 30 days **Percentage of Certified Value Retained** 10% **Limit of Retention Fund** 10%	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
	COLLECTION	
	Brought forward from page PP/1	
	Brought forward from page PP/2	
	Brought forward from page PP/3	
	Brought forward from page PP/4	
	Brought forward from page PP/5	
	Brought forward from page PP/6	
	Brought forward from page PP/7	
	Brought forward from page PP/8	
	Brought forward from page PP/9	
	Brought forward from page PP/10	
	TOTAL FOR PARTICULAR PRELIMINARIES CARRIED TO GRAND SUMMARY	

ITEM	DESCRIPTION	AMOUNT
	GENERAL PRELIMINARIES	
A	**METHOD OF MEASUREMENT** The Bills of Quantities have been prepared in accordance with the general Principles of the Standard Method of Measurement of Building Works for East Africa, Second Edition (Metric), published by the Architectural Association of Kenya, Chapter of Quantity Surveyors in June 20	
B	**PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES** **Prices will be inserted against items of Preliminaries in the Contractor's priced Bills of Quantities and Specification.** The Contractor shall be deemed to have included in his prices or rates for the various items in the Bills of Quantities or Specification for all costs involved in complying with all the requirements for the proper execution of the whole of the works in the Contract.	
C	**ABBREVIATIONS** Throughout these Bills, units of measurement and terms are abbreviated and shall be interpreted as follows:- *C.M.* Shall mean cubic metre *S.M.* Shall mean square metre *L.M.* Shall mean linear metre *MM* Shall mean Millimetre *Kg.* Shall mean Kilogramme *No.* Shall mean Number *Prs.* Shall mean Pairs *B.S* Shall mean the British Standard Specification Published by theBritish Standards Institution, 2 Park Street, London W.I., England. *Ditto* Shall mean the whole of the preceding description except as qualified in the description in which it occurs. *m.s.* Shall mean measured separately. *a.b.d* Shall mean as before described.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	**EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT** ***Attendance ;*** Clause B19(a) of the Standard Method of Measurement is deleted and the following clause is substituted:- Attendance on nominated Sub-Contractors shall be given as an item in each case shall be deemed to include: allowing use of standing scaffolding, mess rooms, sanitary accommodation and welfare facilities; provision of special scaffolding where necessary;providing space for office accommodation and for storage of plant and materials;providing light and water for their work: clearing away rubbish; unloading checking and hoisting: providing electric power and removing and replacing duct covers, pipe casings and the like necessary for the execution and testing of Sub- Contractors' work and being responsible for the accuracy of the same. ***Fix Only:-*** "Fix Only" shall mean take delivery at nearest railway station (Unless otherwise stated), pay all demurrage charges, load and transport to site where necessary, unload, store, unpack, assemble as necessary, distribute to position, hoist and fix only.	
B	**EMPLOYER** The Employer/Client is "Kizingitini Secondary School" The term **"Employer"/"Client"** and "Kizingitini Secondary School" wherever used in the contract document shall be synonymous.	
C	**PROJECT MANAGER** The term "P.M." wherever used in these Bills of Quantities shall be deemed to imply the Project Manager as defined in Condition 1 of the Conditions of Contract or such person or persons as may be duly authorised to represent him on behalf of the Government.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	The term **"Project Manager"** shall be deemed to mean "**The P.M.**" as defined above whose address unless otherwise notified is **"State Department for Public Works-Lamu County"**.	
B	ARCHITECT The term **"Architect"** shall be deemed to mean "**The P.M.**" as defined above whose address unless otherwise notified is **"State Department for Public Works-Lamu County Architect"**.	
C	QUANTITY SURVEYOR The term **"Quantity Surveyor"** shall be deemed to mean "**The P.M.**" as defined above whose address unless otherwise notified is **"State Department for Public Works-Lamu County Quantity Surveyor"**.	
D	ELECTRICAL ENGINEER The term **"Electrical Engineer"** shall be deemed to mean "**The P.M.**" as defined above whose address unless otherwise notified is **"State Department for Public Works-Lamu County Electrical Engineer".**	
E	MECHANICAL ENGINEER The term "Mechanical Engineer" shall be deemed to mean "**The P.M.**" as defined above whose address unless otherwise notified is **"State Department for Public Works-Lamu County Mechanical Engineer"**.	
F	CIVIL/STRUCTURAL ENGINEER The term **"Civil and Structural Engineer"** shall be deemed to mean "**The P.M.** " as defined above whose address unless otherwise notified is "**State Department for Public Works- Lamu County Civil/Structural Engineer"**.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	THE CONTRACTOR The term **"The Contractor"** whenever used hereinafter and in all contract documents shall mean the Person or Persons, Partnership, Firm or Company whose tender/quotation for the works as hereinafter defined has been accepted by the Client and who is or their heirs, executors, administrators, assignees, successors are duly appointed representative.	
B	The Works The term **"The Works"** wherever used hereinafter and in all or any portion of the works as described, materials and articles wherever the same are being manufactured or prepared which are to be used in the execution of this contract, and whether the same be on site of the works or not. The term "The Works" shall also be deemed to include the work of all variations in accordance with the Contract.	
C	The Contract The term **"The Contract"** wherever used hereinafter and in all Contract Documents shall mean the Tender, Articles of Agreement and Conditions of Contract, Contract Drawings and Priced and signed Bills of Quantities.	
D	FORM OF CONTRACT The Form of Contract shall be as stipulated in the Republic of Kenya's Standard Tender Document for Procurement of Works; Building and Associated Civil Engineering Works; (April 2022) included herein Particulars of insertions to be made in the Appendix to the Contract Agreement will be found in the Particular Preliminaries part of these Bills of Quantities *The Conditions of Contract are also included herein* Particulars of insertions to be made in the Appendix to the Contract Agreement will be found in the Particular Preliminaries part of these Bills of Quantities	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	PLANT, TOOLS AND VEHICLES Allow for providing all scaffolding, plant, tools and vehicles required for the works except in so far as may be stated otherwise herein and 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 temporary works of any kind shall be used afterwards in the permanent work.	
B	MATERIALS AND WORKMANSHIP. All materials and workmanship used in the execution of the work shall be of the best quality and description unless otherwise stated. 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 sourses as early as necessary to ensure that they are on site when required for use in the works when required. The Bills of Quantities shall not be used for the purposed of ordering materials	
C	SIGN FOR MATERIALS SUPPLIED. The Contractor will be required to sign a receipt for all articles and materials supplied by the PROJECT MANAGER at the time of taking deliver thereof, as having received them in good order and condition, and will thereafter be responsible for any loss or damage and for replacements of any such loss or damage with articles and/or materials which will be supplied by the PROJECT MANAGER at the current market prices including Customs Duty and V.A.T., all at the Contractor's own cost and expense, to the satisfaction of the PROJECT MANAGER	
D	STORAGE OF MATERIALS The Contractor shall provide at his own risk and cost where directed on the site weather proof lock-up sheds and make good damaged or disturbed surfaces upon completion to the satisfaction of the PROJECT MANAGER Nominated Sub-Contractors are to be made liable for the cost of any storage accommodation provided especially for their use.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	SAMPLES The Contractor shall furnish at his own cost any samples of materials or workmanship including concrete test cubes required for the works that may be called for by the PROJECT MANAGER for his approval until such samples are approved by the PROJECT MANAGER and the PROJECT MANAGER, may reject any materials or workmanship not in his opinion to be up to approved samples. The PROJECT MANAGER 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 PROJECT MANAGER. The Contractor shall pay for the testing in accordance with the current scale of testing charges laid down by the Ministry of 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 PROJECT MANAGER The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub-contractors' work.	
B	GOVERNMENT ACTS REGARDING WORK PEOPLE ETC. Allow for complying with all Government Acts, Orders and Regulations in connection with the employment of Labour and other matters related to the execution of the works. In particular the Contractor's attention is drawn to the provisions of the Factory Act 1950 and his tender must include for all costs arising or resulting from compliance with any Act, Order or Regulation relating to Insurances, pensions and holidays for workpeople or so the safety, health and welfare of the workpeople. The Contractor must make himself fully acquainted with current Acts and Regulations,including Police Regulations regarding the movement, housing, security and control of labour, labour camps , passes for transport, etc. 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.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	SECURITY OF WORKS ETC. The Contractor shall be entirely responsible for the security of all the works stores,materials, plant, personnel, etc., both his own and sub-contractors' and must provide all necessary watching, lighting and other precautions as necessary to ensure security against theft, loss or damage and the protection of the public.	
B	PUBLIC AND PRIVATE ROADS. Maintain as required throughout the execution of the works and make good any damage to public or private roads arising from or consequent upon the execution of the works to the satisfaction of the local and other competent authority and the PROJECT MANAGER	
C	VISIT SITE AND EXAMINE DRAWINGS. The Contractor is recommended to examine the drawings and visit the site the location of which is described in the Particular Preliminaries hereof. He shall be deemed to have acquainted himself therewith as to its nature, position, means of access or any other matter which, may affect his tender. No claim arising from his failure to comply with this recommendation will be considered.	
D	ACCESS TO SITE AND TEMPORARY ROADS. Means of access to the Site shall be agreed with the PROJECT MANAGER prior to commencement of the work and Contractor must allow for building any necessary temporary access roads for the transport of the 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 to the Site. Upon completion of the works, the Contractor shall remove such temporary access roads; temporary culverts, bridges, etc., and make good and reinstate all works and surfaces disturbed to the satisfaction of the PROJECT MANAGER	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	AREA TO BE OCCUPIED BY THE CONTRACTOR The area of the site which may be occupied by the Contractor for use of storage and for the purpose of erecting workshops, etc., shall be defined on site by the PROJECT MANAGER	
B	OFFICE ETC. FOR THE PROJECT MANAGER The Contractor shall provide, erect and maintain where directed on site and afterwards dismantle the site office of the type noted in the Particular Preliminaries, complete with Furniture. He shall also provide a strong metal trunk complete with strong hasp and staple fastening and two keys. He shall provide, erect and maintain a lock-up type water or bucket closet for the sole use of the PROJECT MANAGER including making temporary connections to the drain where applicable to the satisfaction of Government and Medical Officer of Health and shall provide services of cleaner and pay all conservancy charges and keep both office and closet in a clean and sanitary condition from commencement to the completion of the works and dismantle and make good disturbed surfaces. The office and closet shall be completed before the Contractor is permitted to commence the works. The Contractor shall make available on the Site as and when required by the "PROJECT MANAGER" a modern and accurate level together with levelling staff, ranging rods and 50 metre metallic or linen tape.	
C	WATER AND ELECTRICITY SUPPLY FOR THE WORKS The Contractor shall provide at his own risk and cost all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters as required at his own cost and clear away when no longer required and make good on completion to the entire satisfaction of the PROJECT MANAGER . The Contractor shall pay all charges in connection herewith. No guarantee is given or implied that sufficient water will be available from mains and the Contractor must make his own arrangements for augmenting this supply at his own cost. Nominated Sub--contractors are to be made liable for the cost of any water or electric current used and for any installation provided especially for their own use	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	SANITATION OF THE WORKS The Sanitation of the works shall be arranged and maintained by the Contractor to the satisfaction of the Government and/or Local Authorities, Labour Department and the PROJECT MANAGER	
B	SUPERVISION AND WORKING HOURS The works shall be executed under the direction and to the entire satisfaction in all respects of the PROJECT MANAGER who shall at all times during normal working hours have access to the works and to the yards and workshops of the Contractor and sub-Contractors or other places where work is being prepared for the contract.	
C	PROVISIONAL SUMS. The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7(i) of the Standard Method of Measurement.Such sums are net and no addition shall be made to them for profit.	
D	PRIME COST (OR P.C.) SUMS. The term "Prime Cost Sum" or "P.C. Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7 (ii) of the Standard Method of Measurement . Persons or firms nominated by the PROJECT MANAGER to execute work or to provide and fix materials or goods are described herein as Nominated Sub-Contractors.Persons or firms so nominated to supply goods or materials are described herein as Nominated Suppliers.	
E	PROGRESS CHART. The Contractor shall provide within two weeks of Possession of Site and in agreement with the PROJECT MANAGER a Progress Chart for the whole of the works including the works of Nominated Sub-Contractors ; one copy to be handed to the PROJECT MANAGER and a further copy to be retained on Site. Progress to be recorded and chart to be amended as necessary as the work proceeds.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	ADJUSTMENT OF P.C. SUMS. In the final account all P.C. Sums shall be deducted and the amount properly expended upon the PROJECT MANAGER'S order in respect of each of them added to the Contract sum. The Contractor shall produce to the PROJECT MANAGER such quotations, invoices or bills, properly receipted, as may be necessary to show the actual details of the sums paid by the Contractor. Items of profit upon P.C. Sums shall be adjusted in the final account pro-rata to the amount paid. Items of "attendance" (as previously described) following P.C. Sums shall be adjusted pro-rata to the physical extent of the work executed (not pro-rata to the amount paid) and this shall apply even though the Contractor's priced Bill shows a percentage in the rate column in respect of them. Should the Contractor be permitted to tender and his tender be accepted of any work for which a P.C. Sum is included in these Bill of Quantities profit and attendance will be allowed at the same rate as it would be if the work were executed by a Nominated Sub-Contractor.	
B	ADJUSTMENT OF PROVISIONAL SUMS. In the final account all Provisional Sums shall be deducted and the value of the work properly executed in respect of them upon the PROJECT MANAGER's order added to the Contract Sum. Such work shall be valued , but should any part of the work be executed by a Nominated Sub-Contractor, the value of such work or articles for the work to be supplied by a Nominated Supplier, the value of such work or articles shall be treated as a P.C. Sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	NOMINATED SUB-CONTRACTORS When any work is ordered by the PROJECT MANAGER to be executed by nominated sub-contractors, the Contractor shall enter into sub-contracts and shall thereafter be responsible for such sub-contractors in every respect. Unless otherwise described the Contractor is to provide for such Sub-Contractors any or all of the facilities described in these Preliminaries. The Contractor should price for these with the nominated Sub-contract Contractor's work concerned in the P.C. Sums under the description "add for Attendance".	
B	DIRECT CONTRACTS Notwithstanding the foregoing conditions, the Government 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 in the Bills of Quantities and to pay for the same direct. In any such instances, profit relative to the P.C. Sum in the priced Bills of Quantities will be adjusted as described for P.C. Sums is allowed.	
C	ATTENDANCE UPON OTHER TRADESMEN, ETC. The Contractor shall allow for the attendance of trade upon trade and shall afford any tradesmen or other persons employed for the execution of any work not included in this Contract every facility for carrying out their work and also for use of his ordinary scaffolding. The Contractor, however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for and making good after the work of such tradesmen or persons as may be ordered by the PROJECT MANAGER and the work will be measured and paid for to the extent executed at rates provided in these Bills.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	INSURANCE The Contractor shall insure as required in Clause 18 of the Conditions of Contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the PROJECT MANAGER 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. Thereafter the PROJECT MANAGER shall from time to time ascertain that premiums are duly paid up by the Contractor who shall if called upon to do so, produce the receipted premium renewals for the PROJECT MANAGER's inspection.	
B	PROVISIONAL WORK All work described as "Provisional" in these Bills of Quantities is subject to remeasurement in order to ascertain the actual quantity executed for which payment will be made. All "Provisional" and other work liable to adjustment under this Contract shall left uncovered for a reasonable time to allow all measurements needed for such adjustment to be taken by the PROJECT MANAGER Immediately the work is ready for measuring, the Contractor shall give notice to the PROJECT MANAGER. If the Contractor makes default in these respects he shall if the PROJECT MANAGER so directs uncover the work to enable all measurements to be taken and afterwards reinstate at his own expense.	
C	ALTERATIONS TO BILLS, PRICING, ETC. Any unauthorised alteration 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 items 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 or groups of work must be broken down to show the price of each item before they will be accepted.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	**BLASTING OPERATIONS** Blasting will only be allowed with the express permission of the PROJECT MANAGER in writing. All blasting operations shall be carried out at the Contractor's sole risk and cost in accordance with any Government regulations in force for the time being, and any special regulations laid down by the PROJECT MANAGER governing the use and storage of explosives.	
B	**MATERIALS ARISING FROM EXCAVATIONS** Materials of any kind obtained from the excavations shall be the property of the Government. Unless the PROJECT MANAGER directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used in the works, in substitution of materials which the Contractor would otherwise have had to supply with the written permission of the PROJECT MANAGER Should such permission be given, the Contractor shall make due allowance for the value of the materials so used at a price to be agreed.	
C	**PROTECTION OF THE WORKS.** Provide protection of the whole of the works contained in the Bills of Quantities,including casing , casing up, covering or such other means as may be necessary to avoid damage to the satisfaction of the PROJECT MANAGER and remove such protection when no longer required and make good any damage which may nevertheless have been done at completion free of cost to the Government.	
D	**REMOVAL OF RUBBISH ETC.** Removal of rubbish and debris from the Buildings and site as it accumulates and at the completion of the works and remove all plant, scaffolding and unused materials at completion.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	WORKS TO BE DELIVERED UP CLEAN 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 parts 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 metalwork and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the PROJECT MANAGER	
B	GENERAL SPECIFICATION. For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Ministry of Roads and Public Works and Housing General Specification dated 1976 or any subsequent revision thereof which is issued as a separate document, and which shall be allowed in all respects unless it conflicts with the General Preliminaries, Trade Preambles or other items in these Bills of Quantities.	
C	TRAINING LEVY The Contractor's attention is drawn to legal notice No. 237 of October, 1971, which requires payment by the Contractor of a Training Levy at the rate of 1/4 % of the Contract sum on all contracts of more than Kshs. 50,000.00 in value.	
D	MATERIALS ON SITE All materials for incorporation in the works must be stored on or adjacent to the site before payment is effected unless specifically exempted by the PROJECT MANAGER. This includes the materials of the Main Contractor, Nominated Sub-Contractors and Nominated Suppliers.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	HOARDING The Contractor shall enclose the site or part of the works under construction. The Contractor is in addition required to take all precautions necessary for the safe custody of the works,materials, plant, public and Employer's property on the site.	
B	CONTRACTOR'S SUPERINTENDENCE/SITE AGENT The Contractor shall constantly keep on the works a literate English speaking Agent or Representative, competent and experienced in the kind of work involved who shall give his whole experience in the kind of work involved and shall give his whole time to the superintendence of the works. Such Agent or Representative shall receive on behalf of the Contractor all directions and instructions from the Project Manager and such directions shall be deemed to have been given to the Contractor in accordance with the Conditions of Contract.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
	COLLECTION	
	Brought Forward From Page GP/1	
	Brought Forward From Page GP/2	
	Brought Forward From Page GP/3	
	Brought Forward From Page GP/4	
	Brought Forward From Page GP/5	
	Brought Forward From Page GP/6	
	Brought Forward From Page GP/7	
	Brought Forward From Page GP/8	
	Brought Forward From Page GP/9	
	Brought Forward From Page GP/10	
	Brought Forward From Page GP/11	
	Brought Forward From Page GP/12	
	Brought Forward From Page GP/13	
	Brought Forward From Page GP/14	
	Brought Forward From Page GP/15	
	TOTAL FOR GENERAL PRELIMINARIES CARRIED TO GRAND SUMMARY	

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	PERIMETER LENGTH FOR = 735M SECTION 1 - BOUNDARY WALL - 2.4m High				
	Setting out				
A	Allow for setting out the works for the boundary wall, including establishing benchmarks, setting up timber profiles, pegs and string lines for wall alignments and column centers and maintaining the same throughout the construction period all in accordance with the drawings and Engineer's instructions	SUM			
	Site clearing				
B	Clear site of grass, bushes etc and burn the arisings.	SM	713		
C	Cut and uproot trees average 0.5 metres	NO	35		
	Excavation				
D	Excavate trench for foundation not exceeding 1.50 metres deep, starting from reduced levels.	CM	499		
E	Excavate pits for column bases not exceeding 1.50 metres deep, starting from reduced levels.	CM	258		
F	Allow for plunking and strutting to the sides of excavation	ITEM			
	Disposal				
G	Return, fill and ram selected excavated material around foundations.	CM	386		
H	Load, wheel and deposit surplus excavated material away as directed within the site	CM	371		
	Approved imported hardcore fill to make up levels; compacter in layers not exceeding 100mm thick using G5 material with each layer compacted to 98% MOD AASHTO @ 2% OMC; to the satisfaction of the Structural Engineer.	CM	131		
	Plain concrete class 15 in:				
J	50mm Blinding under foundations.	SM	416		
K	50mm Blinding under Columns bases	SM	199		
	Reinforced concrete class (20) as described, in:-				
L	Strip footing	CM	83		
M	Columns bases	CM	60		
N	Substructure Columns Stubs	CM	10		
O	Ground beam	CM	62		
P	Superstructure Columns	CM	21		
Q	Cap beam	CM	41		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	(CONT'D)				
	Reinforcement, as described:-[PROVISIONAL]				
	Reinforcement to BS 4449:1997 , Grade 460B high strength type 2 Ribbed bars with proof stress of 460 N/mm2; Including all necessary cutting, bending, fixing and provision of spacer blocks and stools to S.E's detail				
A	8mm Diameter bars	Kg	2,909		
B	10mm Diameter bars	Kg	1,723		
C	12mm Diameter bars	Kg	8,917		
	Sawn formwork as described to:-				
D	Vertical sides of strip footing	SM	208		
E	Vertical sides of Columns Bases	SM	199		
F	Vertical sides of Substructure Columns	SM	170		
G	Vertical sides of Superstructure Columns	SM	340		
H	Vertical sides of Ground beam	SM	617		
I	Vertical sides of Cap beam	SM	411		
	Expansion joints (Provisional)				
J	25 mm "Flexcell" or other equal and approved joint filler with10 years guarantee: set vertically between concrete.	LM	101		
K	Mastic sealant or other equal and approved filler; 300mm wide	LM	101		
	Foundation walling				
	Natural hard stone from an approved quarry with a crushing strength of 7.5 N/mm²; walling bedded and jointed in cement and sand (1:4) mortar; reinforcement with and including 25mm wide x 20 gauge hoop iron at every alternate course as described in;				
L	200mm thick foundation walling	SM	751		
	Damp-proof courses, as described, to walls				
M	200mm Wide	LM	653		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Superstructure Walling				
	Natural hard machine cut stone from an approved quarry with a crushing strength of 7.5 N/mm²; walling bedded and jointed in cement and sand (1:4) mortar; reinforcement with and including 25mm wide x 20 gauge hoop iron at every alternate course as described in;				
A	200mm thick superstructure walling	SM	1,371		
	15mm cement and sand (1:3) render, finished with woodfloat to:-				
C	Masonry and concrete surfaces to receive coating (m.s) externally	SM	1,763		
D	Extra over for keypointing comprising of recessed horizontal and flush vertical keys (Main road face only	SM	1,371		
	Prepare and apply three coats first quality exterior weather guard paint as permaplast or equivalent				
E	Rendered masonry walls	SM	1,763		
	Concrete fair faced on all exposed surfaces, and placing in position, bedding and jointing in cement and sand (1:3) mortar				
F	300 x 50mm thick concrete coping; throated; bevelled at 10 degrees to horizontal	LM	653		
G	400 x 400 x 50mm thick column pier caps	No.	172		
	Carried to collection				
	COLLECTION From Page 1 From Page 2 From Page 3 Above				
	TOTAL AMOUNT FOR PERIMETER WALL CARRIED TO THE GRAND SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	PERIMETER LENGTH FOR = 50M				
	SECTION 2 - BOUNDARY WALL - 2.4m High				
	Substructure works (All Provisional)				
	Seawall Construction - 50m				
A	**Setting out**				
	Set out works over land and water as before described	SUM			
	Site clearing				
B	Clear site of grass, bushes etc and cart away or burn arisings.	SM	65		
	Excavation				
C	Excavate top soil to remove sea vegetation to 200mm deep, and dispose as directed by the Engineer	SM	13		
D	Excavate trench for foundation not exceeding 1.50 metres deep, starting from reduced levels.	CM	81		
E	Allow for plunking and strutting to the sides of excavation	ITEM			
	Disposal				
F	Return, fill and ram selected excavated material around foundations.	CM	26		
G	Load, wheel and deposit surplus excavated material away as directed within the site	CM	68		
H	Provide and compact in layers not exceeding 150mm approved imported sand fill behind the seawall	CM	81		
I	Lay gunny bags filled with cement:sand mortar mix (1:8) under seabed level	CM	28		
	Reinforced concrete class (20) as described, in:-				
J	Cap Beam	CM	3		
	Mass concrete class 25 in:				
K	Strip footing	CM	17		
L	Ground Beam	CM	6		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Reinforcement, as described:-[PROVISIONAL]				
	Reinforcement to BS 4449:1997 , Grade 460B high strength type 2 Ribbed bars with proof stress of 460 N/mm2; Including all necessary cutting, bending fixing and provision of spacer blocks and stools to S.E's detail				
A	8mm Diameter bars	Kg	107		
B	12mm Diameter bars	Kg	205		
	Sawn formwork as described to:-				
C	Vertical sides of strip footing	SM	54		
D	Vertical sides of ground beam	SM	45		
E	Vertical sides of cap beam	SM	30		
	Foundation Walling Natural hard stone from an approved quarry with a crushing strength of 7.5 N/mm²; walling bedded and jointed in cement and sand (1:4) mortar; reinforcement with and including 25mm wide x 20 gauge hoop iron at every alternate course as described in:				
F	200mm thick sea wall sloping at 2:1, average height 1m. Construct a vertical portion 0.5m high at the top of the sloping wall to make the wave-screen wall	SM	35		
G	Ditto to 200 x 400mm masonry piers	SM	11		
	Stone Pitch walling Natural hard stone pitching to sea wall slope, selected from an approved quarry, hand-placed and laid to required line, level, and gradient, bedded, jointed, and pointed in cement and sand (1:4) mortar; resting on a 50mm thick sand or gravel bedding layer as described				
H	300mm thick wall	SM	35		
	Approved Filter Fabric				
I	Lay behind stone pitching layer, non-woven geotextile filter fabric equivalent to Polyfelt TS 10, including 300mm minimum overlaps at joints; including securing in position at the top and bottom edges using 50mm diameter mangrove poles (boriti), all as described and to approval.	SM	35		
	Weep holes				
J	Provide weep-holes on the sea wall using 100mm diameter approved UPVC pipes	NO	36		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Expansion joints (Provisional)				
A	25 mm "Flexcell" or other equal and approved joint filler with10 years guarantee: set vertically between concrete.	LM	4		
B	Mastic sealant or other equal and approved filler; 300mm wide	LM	4		
	Damp-proof courses, as described, to walls				
C	200mm Wide	LM	54		
	Superstructure walling Natural hard machine cut stone from an approved quarry with a crushing strength of 7.5 N/mm²; walling bedded and jointed in cement and sand (1:4) mortar; reinforcement with and including 25mm wide x 20 gauge hoop iron at every alternate course as described in:				
D	200mm thick superstructure walling	SM	105		
E	Ditto 400 x 200mm Piers	SM	9		
	15mm cement and sand (1:3) render, finished with woodfloat to:-				
G	Masonry surfaces to receive coating (m.s) externally	SM	34		
	Extra over for keypointing comprising of recessed horizontal and flush vertical keys (Main road face only	SM			
	Prepare and apply three coats first quality exterior weather guard paint as permaplast or equivalent				
H	Rendered masonry walls	SM	34		
	Concrete fair faced on all exposed surfaces, and placing in position, bedding and jointing in cement and sand (1:3) mortar				
I	300 x 50mm thick concrete coping; throated; bevelled at 10 degrees to horizontal	LM	48		
J	600 x 600 x 50mm thick column caps	No.	10		
	Carried to collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	COLLECTION From Page 1 From Page 2 From Page 3				
	TOTAL AMOUNT FOR PERIMETER WALL CARRIED TO THE GRAND				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	SECTION 2. GUARD HOUSE & GATE ENTRANCE ELEMENT NO. 1 SUBSTRUCTURES (PROVISIONAL) (NOTE: Tenderer to allow for working space in their rates) *Excavation in normal soil, mud and fallen materials; including supporting and maintaining sides of excavations; removing water and fallen materials from excavations* Site Clearance				
A	Clear site of all bushes, shrubs and small trees and cart away or burn the arising debris	SM			
	Excavation				
B	Excavate oversite to remove top vegetable soil, average 150mm deep, dispose from site	SM			
C	Excavate trench for foundation not exceeding 1.50 metres deep, starting from reduced levels	CM			
D	Excavate for column bases not exceeding 1.50 metres deep, starting from reduced levels	CM			
	Disposal				
E	Return, fill and ram selected excavated material around foundations.	CM			
F	Load and cart away surplus excavated materials.	CM			
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Hardcore or other approved filling, as described				
A	300mm thick hardcore bed : hand packed : compacted in layers not exceeding 150mm thick : to the satisfaction of the Structural Engineer: including 50mm Thick murram or "equal and approved" blinding to surfaces of hardcore	CM	2		
	Anti - termite to treatment				
B	Chemical anti-termite treatment, executed complete by an approved specialist under a ten-year guarantee, to surfaces of hardcore	SM	10		
	Damp-proof membrane-				
C	1000 Gauge polythene or other equal and approved damp-proof membrane, laid in double layer over blinded hardcore (measured separately) with 300mm side and end laps (measured nett-allow for laps)	SM	10		
	Plain concrete class 15 in:				
D	50mm Blinding under masonry strip footing foundations.	SM	8		
E	50mm Blinding under column bases	SM	4		
	Vibrated reinforced concrete class C25 to BS 8110 (minimum compressive strength at 28 days - 25N/mm2) as described, in:-				
F	Strip footing; masonry walls	CM	2		
G	Column Bases	CM	7		
H	Columns	CM	1		
I	Beams	CM	1		
J	150mm Thick surface bed	SM	10		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Reinforcement, as described:-[PROVISIONAL]				
	Reinforcement to BS 4449:1997 , Grade 460B high strength type 2 Ribbed bars with proof stress of 460 N/mm2; Including all necessary cutting, bending fixing and provision of spacer blocks and stools to S.E's detail				
A	8mm Diameter bars	KG	55		
B	10mm Diameter bars	KG	35		
C	12mm Diameter bars	KG	81		
	BRC **Mesh fabric reinforcement to B.S 4483 and setting in concrete with 300mm side and end laps (measured net-allow for laps).**				
D	Fabric ref. A142 in surface in surface bed	SM	10		
	Sawn formwork as described to:-				
E	Vertical sides Ground beam	SM	9		
F	Vertical sides of Column bases	SM	5		
G	Vertical sides of Columns	SM	4		
H	Edge of surface bed, over 75mm but not exceeding 150mm high.	LM	40		
	Foundation Walling				
	Natural hard approved quarry stone walling with a crushing strength of 7.5 N/mm²; walling bedded and jointed in cement and sand (1:4) mortar, reinforcement with and including 25mm wide x 20 gauge hoop iron at every alternate course as described in:				
I	200mm Thick walling	SM	13		
	Damp-proof courses, as described, to walls				
J	200mm Wide	LM	8		
	Plinth Finishes 12mm cement and sand (1:3) render, finished with woodfloat to:-				
K	To walls and concrete surfaces	SM	4		
	Two coats black bitumastic paint on:				
L	Rendered walls and concrete surfaces	SM	4		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	COLLECTION				
	From Page 1				
	From Page 2				
	From page 3 above				
	ELEMENT NO. 1 SUBSTRUCTURES Carried to the Main Summary				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 2				
	REINFORCED CONCRETE FRAME				
	Vibrated reinforced concrete class C25 to BS 8110 (minimum compressive strength at 28 days - 25N/mm2) as described, in:-				
A	Beams	CM	2		
B	Columns	CM	1		
C	150mm Thick solid roof slab	SM	11		
D	150mm feature gate slab	SM	15		
	Reinforcement, as described:-[PROVISIONAL]				
	Reinforcement to BS 4449:1997 , Grade 460B high strength type 2 Ribbed bars with proof stress of 460 N/mm2; Including all necessary cutting, bending fixing and provision of spacer blocks and stools to S.E's detail				
E	8mm Diameter bars	Kg	184		
F	12mm Diameter bars	Kg	303		
	Sawn formwork, as described, to:-				
G	Sides and soffits of beams	SM	20		
H	Sides of columns	SM	12		
I	Soffits of 150mm thick suspended solid slabs	SM	11		
J	Ditto feature gate slab	SM	15		
K	Edges of suspended slab over 75mm but not exceeding 150mm girth.	LM	14		
L	Ditto feature gate slab	LM	21		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 3 WALLING Natural hard rough stone from an approved quarry with a crushing strength of 7.5 N/mm²; walling bedded and jointed in cement and sand (1:4) mortar; reinforcement with and including 25mm wide x 20 gauge hoop iron at every alternate course as described in;				
A	200mm thick walling	SM	35		
	ELEMENT NO. 3 WALLING Carried to the Main summary				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 4				
	ROOF CONSTRUCTION AND FINISHES Mineral APP/ EPDM membrane with surface finish weighing 4kg/sm; laid on primer with torch-on process from an approved manufacturer; finish to horizontal roof slab and walls executed by a specialist under 10 years guarantee from mau west or equal and approved				
A	To gate house roof slabs	SM	11		
B	To Feature gate slab	SM	15		
C	Skirting 250mm high; gate house	LM	14		
D	Skirting 250mm high; Feature gate slab	LM	21		
E	Dress membrane round 100mm rainwater outlet	NO	3		
	Lightweight water proofed screeds				
F	50mm Average screed laid to falls and crossfalls to roof slabs to receive APP	SM	11		
G	Ditto: Feature gate slab	SM	15		
H	12mm ditto skirting 250mm high; gate house	LM	14		
I	12mm ditto skirting 250mm high; Feature gate slab	LM	21		
J	20mm Thick screed laid over Bitumen membrane and finished to receive clay tiles (m.s)	SM	11		
K	20mm Thick screed laid over Bitumen membrane and finished to receive clay tiles (m.s)	SM	15		
	Interlocking Concrete tiles				
L	Supply & Fix interlocking concrete tiles to floor on prepared screed (m.s) with proprietary adhesive; jointed and pointed in matching coloured proprietary grouting: including PvC spacers and expansion joint as necessary:	SM	11		
M	Ditto: Feature Gate Slab	SM	15		
N	20 x 250mm ditto skirting	LM	35		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	In vista UPVC				
A	100mm diameter downpipe fixed with and including mild steel holderbats plugged and screwed to walls and encased in cement sand screed to approval.	LM	12		
B	Extra over down pipe for 100 x 100mm swan neck bend	LM	3		
C	Ditto for 100 x 100mm shoe	LM	3		
	Carried to Collection				
	COLLECTION From Page 8 From Above				
	ELEMENT NO. 4 ROOF CONSTRUCTION Carried to the Main summary				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 7				
	WINDOWS				
	FRAMES				
	Wrot Camphor, or equal and approved Hardwood				
A	150mm x 50mm; once rebated frame with 2No. labours; plugged door frame with round edges.	LM	5		
B	Ditto Mullions	LM	1		
C	Bore 50mm. on frame for 12mm.diameter rods m.s	NO	24		
D	20x20mm. Stop.	NO	16		
	Metalwork				
E	12mm diameter mild steel horizontal burglar-proof bars encased in PVC conduits.	LM	8		
	NACO" (or other equal and approved) pattern adjustable aluminium end frames				
	Fixing with aluminium screws; plugging or fixing to concrete or blockwork base; scaling with mastic; oiling and adjusting on completion				
F	Set of 8No. Blade carrier; 150mm wide clip end frames vertical; one piece with control gear	PRS	2		
	Glazing				
G	150mm wide louvre blades (6mm thick) with round edges	LM	7		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Painting and Decorations				
	Aluminium primer or other equal and approved wood primer before fixing:-				
A	Backs of frame, board, etc over 100mm but not exceeding 200mm girth.	LM	5		
	Prepare and apply three coats polyurethane clear varnish on woodwork internally.				
B	Frames; over 100mm but not exceeding 200mm girth	LM	6		
	15mm cement and sand (1:4) plaster: steel trowelled smooth.				
C	To window reveals; average 200 to 300mm wide	LM	5		
	Painting and Decorations				
	Prepare and apply three coats weather guard emulsion paint : to				
D	Plastered surfaces of reveals 200-300 wide: externally and internally	LM	5		
	Carried to Collection				
	COLLECTION				
	From Page 13				-
	From Page above				-
	ELEMENT NO. 7 WINDOWS Total Carried to the Main Summary				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO 8				
	DOORS				
	FRAMES Wrot Mahongany: prime grade; with stainless steel fixing straps; including chasing to masonry, plugging and making good				
A	150mm x 50mm; once rebated frame with 2No. labours; plugged door frame with round edges.	LM	10		
B	40 x 25 mm weathered architrave	LM	10		
C	25mm rounded quardrant	LM	10		
	Panel Doors 45mm door; wrot hardwood; Camphor or equal and approved hardwood				
D	Door size 900 x 2100mm high	NO	1		
	Flush Doors 45 mm thick flush door to B.S 459 Part 2 : solid core; Mahogany veneered to both sides; hardwood lipped edges; refer to Architect's details				
E	Door size 900 x 2100mm high	NO	1		
	Iron mongery Supply and fix the following to UNION catalogue or other equal and approved To hardwood or the like fixing with screws				
F	Two lever mortice lock complete with set lever brass handle furniture.	NO	2		
G	100mm brass butt hinges	PRS	3		
H	Rubber door stop complete with 38 mm rawl bolt	NO	2		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Painting and Decorations				
	Aluminium primer or other equal and approved wood primer before fixing:-				
A	Backs of frame, board, etc over 100mm but not exceeding 200mm girth.	LM	10		
	Prepare and apply three coats pinnotex wood paint or other equal and approved to:-				
B	General surfaces of wood surfaces	SM	8		
C	Frames; over 100mm but not exceeding 200mm girth	LM	10		
	STEEL GATES				
D	Double leaf mild steel vehicular gate, overall size 6000 x 2400mm high, in 2no. Equal leaves; framed with 40 x 25 x 3mm RHS sections at 150mm c/c; including locking devices and accessories, assembly and fixing to openings, cutting and priming to concrete columns and bedding frame in c/s mortar mix (1:3); primed with red oxide paint before delivering to site	NO	1		
E	Ditto but single pedestrian gate size 1200 x 2400mm high	NO	1		
	Painting and Decorations Prepare and apply three coats of first quality gloss oily paint as 'Crown' or equal and approved manufacturer to Project manager's approval				
F	General metal surfaces	SM	36		
	Carried to Collection				
	COLLECTION From Page 11 From Above				
	ELEMENT NO. 8 DOORS & GATES **Carried to the Main Summary**				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 5				
	EXTERNAL FINISHES				
	Wall finishes				
	12mm cement and sand (1:3) render, finished with woodfloat to:-				
A	Masonry walls and concrete surfaces externally	SM	75		
	Painting and Decorations				
	Prepare and apply one undercoat and two finishing coats of acrylic based exterior emulsion paint : As 'Crown' paints or equivalent to manufacturers specifications and Project manager's approval : on				
B	Rendered walls and concrete surfaces externally	SM	75		
	Ceiling finishes				
	12mm Thick (minimum) two coat lime plaster as described to:-				
C	Concrete soffits of feature slab	SM	15		
	Painting and Decorations				
	Prepare surface including skimming and apply three coats first quality Matt Acrylic paint to Project manager's approval on:-				
D	Soffites of suspended gate feature slab	SM	15		
	ELEMENT NO. 5 EXTERNAL FINISHES Carried to the Main summary				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 6				
	INTERNAL FINISHES				
	Floor Finishes				
	Cement and sand (1:3) screeds, backings, beds etc				
A	30mm Thick bed finished to receive ceramic floor tiles (m.s)	SM	10		
	Floor Tiling to BS 5385 as described				
	Supply and fix approved non-slip ceramic floor tiles ; to regular pattern ; bedding and jointing in approved adhesive grouting joints with proprietory grouting laid on cement and sand base (m/s) ;Tenderers to allow for chamfer, corner strips cutting, fixing				
B	400 x 400 x 8 mm Thick tiles	SM	10		
C	100mm high skirting	LM	18		
	Wall finishes				
	12mm (minimum) two coat lime plaster complete with wire gauze anti-crack mechanism at the intersection of masonry walling and concrete beams as described to:-				
D	Concrete masonry surfaces internally	SM	40		
	Cement and sand (1:4) backings etc				
	Backing: 20 mm cement/sand (1:4): on masonry or concrete: wood float finished: to				
E	Walls to receive ceramic tiles (m.s.)	SM	8		
	Supply and fix approved polished coloured ceramic wall tiles; to regular pattern; bedding and jointing in cement mortar (1:4) grouting joints with proprietory grouting laid on cement and sand backing (m/s); Tenderers to allow for chamfer, corner strips, cutting, fixing etc ;				
F	250 x 450 x 6 mm Thick tiles	SM	8		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Ceiling finishes				
	12mm Thick (minimum) two coat lime plaster as described to:-				
A	Concrete soffits	SM	11		
	Painting and Decorations				
	Prepare surface including skimming and apply three coats first quality Matt Acrylic paint to Interior designer's approval on:-				
B	Plastered walls internally	SM	32		
C	Soffites of suspended slab	SM	11		
	Carried to Collection				
	COLLECTION				
	From Page 11				
	From Above				
	ELEMENT NO. 6 INTERNAL FINISHES Carried to Main summary				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	SECTION 2. GUARD HOUSE & GATE ENTRANCE				
	MAIN SUMMARY				
1	Substructures		Page 4		
2	Reinforced Concrete Frame		Page 6		
3	Walling		Page 7		
4	Roof Construction and Finishes		Page 9		
5	Windows		Page 11		
6	Doors and Gates		Page 13		
7	External Finishes		Page 14		
8	Internal Finishes		Page 16		
	SECTION NO. 2 TOTAL AMOUNT FOR GUARD HOUSE AND GATE EXTRANCE CARRIED TO THE GRAND SUMMARY				

Item	Description	Unit	Qty	Rate	Amount Kshs
	MECHANICAL WORKS				
A	**SANITARY FITTINGS**				
	Supply, deliver, install the following sanitary fittings including all materials and jointing to supply, waste/soil and overflow pipes. Shires products are specified only as an indication of quality. Equal and approved appliances may be supplied. Where trade names are mentioned, the Ref. No. is intended only as a guide to the type and quality of fittings				
	Water closet				
A/1	Stylish economy Close - coupled washdown Vitreous China WC suite in approved colour comprising WC bowl with horizontal outlet, 9 Litres cistern with fittings and chrome plated lever, bottom inlet and overflow, seat and cover. As "ShireS" PENANG or approved equivalent	NO	1		
	Wash hand basins				
A/2	An elegantly styled vitreous China semi-mounted washbasin Wash hand basin with single taphole and of size: 560mmx 435mm in approved colour complete with , "Aztec monobloc basin mixer, 32mm dia pop-up waste chrome plated, 32mm chrome plated bottle trap. As "ShireS" ACCORD or approved equivalent.	No	1		
	Toilet roll holder				
A/4	Toilet roll holder holder in vitreous china and approved colour	No	1		
	Soap and sponge tray				
A/6	Build-in soap and sponge tray in approved colour.	No	1		
	Mirrors				
A/7	6mm thick polished plate glass, silver backed mirror with bevelled edges, size: 610x497mm plugged and screwed to wall with 4No dome capped chrome plated screws and 5mm thick foam back rest	No	1		
	Shower Enclosure				
A/8	Pentagon Shower Enclosure comprising the following:-				
	Ø Shower fitting as "Bricon" wall type with concealed riser pipe, carina handle and adjustable shower rose	No	1		
	Carried Forward to Collection				

Item	Description	Unit	Qty	Rate	Amount Kshs
	INTERNAL PLUMBING				
B	Supply, deliver and install the following PP-R pipework and fittings. Bidders must allow in their pipework prices for all the male/plastic adaptors, sockets, bends etc				
	PP-R pipes				
B/1	20mm diameter	Lm	6		
B/2	15mm -ditto-	Lm	4		
B/3	12mm -ditto	Lm	4		
	Extra-over PP-R pipework for the following:-				
	Bends				
B/4	20mm dia threaded bend	No	1		
B/5	20mm dia bend	No	1		
B/6	15mm -ditto-	No	3		
B/7	12mm -ditto-	No	4		
	Tees				
B/8	12mm dia tee	No	1		
B/9	15/12mm reduced tee	No	2		
B/10	20/15mm reduced tee	No	1		
	Sockets				
B/11	20mm dia sockets	No	4		
	Unions				
B/12	20mm dia unions	No	5		
	Gate valves				
B/13	20mm diameter "Pegler" gate valve	No	1		
	Ball valves				
B/14	20mm -ditto-	No	3		
	Carried Forward to Main Collection				

Item	Description	Unit	Qty	Rate	Amount Kshs
C	**INTERNAL DRAINAGE**				
	Supply, deliver and install the following uPVC and muPVC soil and waste pipework. Bidders must allow in their prices for all the various sizes of connectors, adaptors etc required for the satisfactory functioning of the drainage system				
	uPVC and muPVC pipes				
C/1	100mm dia heavy duty golden brown pipe class "D"	Lm	6		
C/2	100mm dia heavy duty uPVC grey pipe class "D"	Lm	14		
C/3	50mm -ditto-	Lm	4		
	Extra-over uPVC and muPVC pipework for the following:-				
C/4	100mm dia WC connectors	No	10		
C/5	100mm dia vent cowl and weathering slate/apron	No	1		
C/6	100x50mm dia boss connector	No	1		
C/7	100x50mm dia floor trap	No	1		
C/8	100mm dia long radius bend	No	1		
C/9	100mm dia short radius bend	No	1		
C/10	100mm dia gully trap c/w cover and grating	No	2		
C/11	32mm dia access caps	No	1		
C/12	100mm -ditto-	No	1		
C/13	50x40mm reducer	No	1		
	Testing & commissioning				
C/14	Testing and commissioning of the internal drainage installation to the satisfaction of the Engineer	Item	1		
	Carried Forward to Collection				

Item	Description	Unit	Qty	Rate	Amount Kshs
D	**FIRE PROTECTION SERVICES** Supply, deliver and install the following fire fighting equipment.				
D/1	**Water/CO2 Extinguisher** 9 litre water/CO2 gas portable fire extinguisher complete with car washer, siphon tube CO2 cartridge and flexible rubber hose nozzle fully charged.	No.	1		
D/2	**CO2 Gas Fire Extinguisher** 5kg dry CO2 gas portable extinguisher complete with squeeze grip operating head and discharge nozzle, fully charged.	No.	1		
D/3	**Dry Powder** 9 litre dry powder fire extinguisher gas cartridge type in metal casing and fixed to wall surface. Unit as 'Angus' ABC all purpose powder or equivalent and approved with content gauge	No.	1		
	Carried Forward to Main Collection				

Item	Description	Unit	Qty	Rate	Amount Kshs
	MAIN COLLECTION				
(i)	Total Cost for Sanitary Fittings				
(ii)	Total Cost for Internal Plumbing				
(iii)	Total Cost for Internal Drainage				
(iv)	Total Cost for Fire Fighting Equipments				
	Total Cost for Sanitary Fittings, Internal Plumbing & Drainage				

Item.	Description	Unit	Qty	Rate	Amount in Kshs.
	ELECTRICAL INSTALLATION WORKS **GATE HOUSE**				
	Supply, install, test and commission the following :-				
	LIGHTING:				
	Lighting points completely wired in 3x1.5mm2 PVC insulated SC CU cables drawn in 20mm diameter concealed heavy gauge PVC conduits including all conduit accessories but excluding switches for:-				
1.01	i). one way switching	No.	6		
1.02	ii). two way switching	No.	1		
	SWITCHES: 10A, moulded flush mounted switches as crabtree or approved equivalent as follows:				
1.03	i). one gang one way ivory type	No.	3		
1.04	ii). two gang one way ivory type	No.	1		
	LIGHT FITTINGS AS FOLLOWS: Light fittings complete with lamps of appropriate wattage and colour rendering as follows:				
1.05	i) Single, 4 ft, 1200mm, 1X36W watertight and moisture proof LED fitting as approved.	No.	2		
1.06	ii) single, 4 ft, 1200mm, 1X36W LED Bare batten fitting as approved.	No.	2		
1.07	iii) Spherical screwhead ball fitting	No.	1		
1.08	iv) 100W LED Security flood lights 6500k with an efficacy of greater than 110lm/W and IP 65 rating as approved.	No.	2		
	Sub-Total Carried Forward to Next Page				

Item	Description	Unit	Qty	Rate	Amount in Kshs.
	Sub-Total Brought Forward from Previous Page				
	SOCKET OUTLET AND POWER POINTS				
1.01	Raw power socket outlet power points (Ring Connection) comprising wiring in 3 x 2.5mm2 PVC/SC CU cables drawn in 25mmØ concealed Heavy Gauge PVC conduits/trunking including all conduit accessories but excluding plates	No.	1		
1.02	13A, twin switched Ivory type socket outlets as crabtree or approved equivalent.	No.	1		
	Extract Fan points completely wired in 3x1.5mm2 PVC insulated SC cu cables drawn in 20mm diameter concealed heavy gauge PVC conduits including all conduit accessories but excluding fans for:				
1.03	i) one way switching	No.	1		
1.04	Ceiling fans as ORIENT DELUXE complete with speed regulators for item 1.06 above.	No.	1		
1.05	4Way, SPN, 40A main MCB **Raw Power CU** flush mounted as Schneider or approved equivalent	No.	1		
1.06	Raw Power comprising of 3 x 4mm2 PVC/SC CU cables drawn in 25mmØ concealed Heavy Gauge PVC conduits to **CU** above	lm	30		
	MCBs as crabtree or approved equivalent as follows:				
1.07	i). 10A	No.	2		
1.08	ii). 30A	No.	1		
1.09	iii). Blanking plates	No.	1		
	Total for Electrical Works Carried to Main Summary				

Item	Description	Quantity	Unit	Rate	Amount
	PRIME COSTS AND PROVISIONAL SUMS				
	PROVISIONAL SUMS The following provisional items are to be measured on completion of the works and priced in accordance with rates contained in these Bills of Quantities or pro-rata thereto or deducted in whole if not required.				
A	Provisional sum for: Allow a provisional sum of kenya shillings Two Hundred Thousand Only (KES. 200,000) for Biodigester construction.		ITEM		200,000.00
	Total provisional sum carried to grand summary				200,000.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	Amount in Kshs.
	PROJECT BRANDING PROVISIONAL SUMS Tenderers shall allow for provision sum for a project signboard to be branded as per approval of the Project Manager/Fund Account manager. The tenderer shall also allow for branding of the specific building as per the template provided by the Project Manager/Fund Account manager.				
A	Provide, erect and maintain publicity signboard on commencement of the project as directed by the Engineer.	SUM	1		
	ON THE PERIMETER WALL				
B	Provide publicity branding on specified building upon completion of the project as directed by the Project Manager/Fund Account manager.	SUM	1		
	TOTAL SUM FOR PROJECT BRANDING TO GRAND SUMMARY				

PROJECT MANAGEMENT EXPENSES

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	PROJECT MANAGEMENT EXPENSES Tenderers shall price for the following requirements for project management. These shall then be availed as and when required by the Project Manager.				
A	Allow for transport and lunch for at least 3No. officers to and from site. Transport to be provided as and when instructed by the Project Manager for the duration of the contract for a maximum of 7 trips.	TRIP	7	24,000.00	168,000.00
B	Allow for transport and lunch allowance for 3No. Officer during bank account opening, application of bank statement and updating of cheque signing manadates.	NO	4	8,000.00	32,000.00
C	PAYMENT TO TECHNICAL OFFICER Allow a sum of kenya shillings **Three Hundred Thousand (300,000.00)** for payment to technical officer for preparation of technical drawing (including any reviews that may be needed during implementation), budget estimates and during site visit and assement.	SUM		300,000.00	300,000.00
D	**TENDER OPENING** Allow for transport and lunch for at least 3No. officers to attend tender opening at NG- CDF Office. (3 PMC Members and 2 Technical Officers)	NO	6	8,000.00	48,000.00
E	**TENDER EVALUATION** Allow for transport and lunch for at least 4No. officers to attend tender opening at NG- CDF Office. (2 PMC Members and 2 Technical Officers)	NO	6	8,000.00	48,000.00
F	**FACILITATION FOR THE PUBLIC WORKS INSPECTIONS** Allow for transport and lunch for at least 2No. officers to attend project inspection.	TRIP	7	15,000.00	105,000.00
G	**FACILITATION FOR GROUND BREAKING AND LAUNCHING OF THE PROJECT** Allow a sum of One Hundred and Eighty Thousand Shillings Only Ksh (180,000.00)	SUM		180,000.00	180,000.00
H	**FACILITATION FOR THE LAND SURVEYOR** Allow a sum of One Hundred Thousand Shillings Only Ksh (100,000.00)	SUM			100,000.00
	TOTAL FOR PROJECT MANAGEMENT EXPENSES CARRIED TO GRAND SUMMARY				**981,000.00**

GRAND SUMMARY

ITEM	DESCRIPTION	AMOUNT
	GRAND SUMMARY	Kshs.
1	PERIMETER WALL	
2	SEA WALL	
3	GUARD HOUSE & GATE ENTRANCE	
4	MECHANICAL WORKS	
5	ELECTRICAL	
6	PROVISIONAL & PC SUMS	200,000.00
7	PROJECT BRANDING	
	SUB-TOTAL {INCLUSIVE OF 16% V.A.T}	
	ADD 0.03% OF TOTAL CONSTRUCTION COST EXCLUDING 16% V.A.T FOR PUBLIC PROCUREMENT CAPACITY BUILDING LEVY	
8	PROJECT MANAGEMENT EXPENSES	981,000.00
	GRAND TOTAL CARRIED TO FORM OF TENDER	

Contractor's Name and address……

Date……

Signature……

Witness's Name and Address……

Date……

Signature……