

THE COUNTY GOVERNMENT OF LAMU

LANDS, PHYSICAL PLANNING, INFRASTRUCTURE, URBAN DEVELOPMENT AND ENERGY

DEPARTMENT OF INFRASTRUCTURE DEVELOPMENT

THE PROPOSED CONSTRUCTION OF

OF

SEA WALL

 \mathbf{AT}

SIYU, PATE WARD

LAMU COUNTY

BILL OF QUANTITIES

P.O BOX 74 - 80500 <u>LAMU.</u>

JANUARY, **2020**

ITEM	DESCRIPTION	AMOUNT
	GENERAL PRELIMINARIES	
	PRICING OF ITEMS OF PRELIMINARIES	
	Items described in this section cover the minimum requirements and conditions necessary for the full and proper execution of the contract. The tenderer is required to read and fully understand his obligations under each item and thus asses his costs for complying with the same for the duration of the contract. Should no price be inserted against any item, it shall be assumed that the tenderer has covered any costs associated with that item elsewhere in the Bills of quantities and shall nevertheless be required to comply with such and all items of preliminaries.	
	TENDER VALIDITY	
	The attention of the Tenderers is drawn to clause 3.6 and 3.8 of Conditions of Contract on validity of tender and Tender Security.	
	VALUE ADDED TAX (VAT) AND OTHER TAXES	
	All prices will be inclusive of all statutory taxes and levies, including VAT, necessary for the complete and proper execution of that particular item of the works including compying with all statutory requirements. The amount of VAT payable will be deducted from every payment certified by the Project Manager and paid directly to the Commissioner of VAT.	
	SCOPE OF CONTRACT	
	The work to be carried out under this contract comprises of CONSTRUCTION OF SEAWALL AT SIYU, PATE WARD, LAMU COUNTY together with the associated Electrical and Mechanical works for the Department of Trade & Tourism as described in these Bills of Quantities and in accordance with the contract drawings and any other drawings which may be issued in amplification thereof.	
	DESCRIPTION OF THE WORKS	
	The works generally comprise of IT roofing Sheets on steel trusses.	
	The floors are finished in cement sand screeds while the walls are plastered and painted.	
	FLOOR AREAS	
	The gross area is 600 Square Metres. The overall floor area is measured over walls and is given without warranty but for guidance only.	
	LOCATION OF SITE	
	The site for the works is located in Siyu, Pate Island. The tenderer shall be deemed to have visited the site and	
	familiarized himself with all site conditions prior to submission of tenders.	
	EXISTING BUILDINGS	
	Special precautions shall be required throughout the contract period to avoid damage to the 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.	
	CARRIED TO COLLECTION PAGE: PARTICULAR PRELIMINARIES	

DESC	CRIPTION		AMOUNT
GENE	RAL		
		al Specifications for Building Works 1976 Edition and must allow for all costs in	
	ing with these specifications.		
CONT	RACT COMPLETION PERI	OD	
"PROJI necessa satisfac	the contract completion period in accordance with Clause 31 of the the conditions of contract must be strictly adhered to. The PROJECT MANAGER" shall strictly monitor the Contractor's progress in relation to the progress chart and should it be found ecessary, the "PROJECT MANAGER" shall inform the Contractor in writing that his actual performance on site is not attisfactory. In all such cases, the Contractor shall accelerate his rate of performance, production and progress by all means uch as additional labour, plant e.t.c., and working overtime all at his cost.		
PARTI	ICULARS OF INSERTIONS	TO BE MADE IN THE APPENDIX TO CONTRACT AGREEMENT	
The fol	lowing are insertions to be mad	e in the appendix to the Contract Agreement.	
(i)	Period of final measurement [Condition 32]	- 6 Months from practical completion date	
(ii)	Defects Liability Period [Condition 20]	- 6 Months from practical completion date	
(iii)	Date for Possession [Condition 14]	- To be agreed with "PROJECT MANAGER"	
(iv)	Date of Completion [Condition 31]	- To be agreed with "PROJECT MANAGER"	
(v)	Liquidated and Ascertained Damages Clause 24 [Condition 27]	- At the rate of Kshs.20,000/= per week or part thereof	
(vi)	Period of Interim Certificates [Condition 23]	- Monthly	
(vii)	Period of Honouring Certifica [Condition 23]	ates - Thirty (30) Days	
(viii)	Percentage of Certified value [Condition 26]	e retained - 10%	
(ix)	Limit of retention fund [Condition 26]	- 5%	
(x)	Bond [Condition 28]	The Bond required shall be from an approved bank ONLY	
PROJI	ECT MANAGEMENT EXPE	NSES	
	for project management expense	es including transport, airtime and Lunches to be used as directed by the Project Manager	
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ITEM	DESCRIPTION	AMOUNT
	LABOUR CAMPS	
	The Contractor shall not be permitted to house labour on the site and he must take full responsibility for transporting labour daily to and from the site as required and the cost of this shall be included in his tender.	
	OFFICE FOR THE "PROJECT MANAGER"	
	The site office mentioned in item B page GP/7 of the General Preliminaries shall be type "B" as shown on the Ministry of Works Standard Detail. The contractor shall insure the office and furniture against fire, theft and natural calamities and provideday and night security. He shall also provide and maintain adequate access and parking acceptable to the PROJECT MANAGER.	
	TELEPHONE	
	The contractor shall provide a telephone facilities (fixed or mobile) on site throughout the duration of the contract for use by the Project Manager. He shall also maintain the phone in permanent working condition and pay all charges for the duration of the Contract.	
	SIGN BOARD	
	Allow for providing ,erecting ,maintaining throughtout the course of the contract and after clearing away a signboard as designed,specified and approved by the Project Manager.	
	HOARDING	
	Hoarding shall not be erected	
	PROGRAMME PROGRESS CHART	
	The Contractor shall allow for providing within One (1) week after the date of possession of the site and in agreement with the "PROJECT MANAGER" a progress chart for the whole of the works. One copy shall be forwarded to the "PROJECT MANAGER" and another copy shall be retained on site on which progress shall be recorded by the Contractor. Should any circumstance arise affecting the programme or progress ,the chart shall be modified as necessary in consultation with the "PROJECT MANAGER".	
	PERFORMANCE SECURITY (BOND)	
	The Contractor should note that the Performance Security to be provided must be inform of a bank guarantee in the amount of 5 % of the Contract Sum. The form to be signed is M.O.W. 118 or any other format acceptable to the Employer.	
	PAYMENTS TO DOMESTIC SUBCONTRACTORS	
	The Main Contractor shall be fully responsible for paying his Domestic Sub -Contractors but the Government reserves the right in very exceptional circumstances to make such payments direct in the interest of the project, where completion thereof might be jeopardised by any dispute between any of the Contractors and Sub -Contractors involved.	
	APPENDICES	
	The Appendices to the Bills of Quantities shall be regarded for contract purposes as part of the Bill and shall be read and construed with the appropriate sections of the Bills if contained therein.	
	CARRIED TO COLLECTION PAGE: PARTICULAR PRELIMINARIES	

ITEM	DESCRIPTION	AMOUNT
	SUFFICIENCY OF TENDER	
	The main 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 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 of the works.	
	GENERAL SPECIFICATIONS	
	For the full description of materials ,workmanship and method of execution of the works, the Contractor is referred to the Ministry of Works General specifications for building works dated 1976 or any subsequent revision thereof which is issued as a separate document and which shall be followed in all respects unless it conflicts with the General and Particular Preliminaries, Trade Preambles or other items in these Bills of Quantities. In the event of such conflict, then the provisions of the General and Particular Preliminaries, Trade Preambles and these Bills of Quantities take precedence.	
	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.	
	MATERIALS ON SITE	
	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 "PROJECT MANAGER". This is to include the materials of the Main Contractor, Sub - contractors and Nominated Suppliers.	
	SECURITY AND ACCESS TO THE SITE	
	The Contractor must include in his tender for all necessary expenditure incurred in complying with the security regulations of the Department of Public Works, especially in relation to entry and exit from the site of the works and movement within the site.	
	SECURITY	
	The Contractor shall be responsible for ensuring that all personnel of non-Kenyan origin employed on site by himself or his sub-contractors or who are otherwise connected with the construction of contract through the Contractor must be approved and cleared to work on the project individually in writing by the relevant Government Agencies.	
	Where personnel are not approved, the Contractor shall be responsible at his own expense for obtaining and employing suitable and approved personnel.	
	The Contractor shall be responsible for ensuring that all matters including drawings, letters and documentation relating to the project are dealt with confidentiality.	
	He will be expected to post notices on site instructing his employees to treat all matters relating to the project as confidential.	
	NUISANCE	
	The Contractor shall not directly or indirectly or otherwise by himself or through his agents cause nuisance . Should he do so he shall be directly responsible for such acts.	
	CARRIED TO COLLECTION PAGE: PARTICULAR PRELIMINARIES	

ITEM	DESCRIPTION	AMOUNT		
	COLLECTION PAGE: PARTICULAR PRELIMINARIES			
	Balance brought forward from page DISP/I	-		
	Balance brought forward from page DISP/2	-		
	Balance brought forward from page DISP/3			
	Balance brought forward from page DISP/4			
Total for I	Particular Preliminaries Carried to Summary Page (PRELIMINARIES)			
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	TION	AMOUNT
PRICING O	F ITEMS OF PRELIMINARIES AND PREAMBLES	
Specification. Quantities or	I be inserted against items of Preliminaries and Preambles in the Contractor's priced Bills of Quantities and The Contractor shall be deemed to have included in his prices or rates for the various items in the Bills of Specification for all costs involved in complying with all the requirements for the proper execution of the whole in the Contract.	
ABBREVIA	TIONS	
Throughout th	nese 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. Street, Londo	Shall mean the British Standard Specification Published by the British Standards Institution, 2 Park n W.I., England.	
ditto occurs.	Shall mean the whole of the preceding description except as qualified in the description in which it	
m.s.	Shall mean measured separately.	
a. b. d	Shall mean as before described	
EXCEPTION	N TO THE STANDARD METHOD OF MEASUREMENT	
Attendance C	lause B19(a) of the Standard Method of Measurement is deleted and the following clause is substituted:-	
standing scaff necessary; pro work: clearing	n nominated Sub-Contractors shall be given as an item in each case shall be deemed to include: allowing use of folding, messrooms, sanitary accommodation and welfare facilities; provision of special scaffolding where oviding space for office accommodation and for storage of plant and materials; providing light and water for their g away rubbish; unloading checking and hoisting: providing electric power: and removing and replacing duct asings and the like necessary for the execution and testing of Sub- Contractors' work and being responsible for the same.	

ITEM	DESCRIPTION	AMOUNT
	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.	
	EMPLOYER	
	The Employer is the County Government of Lamu. The terms "Employer" and "County Government" whoever used in any contract document shall be synonymous.	
	PROJECT MANAGER	
	The term "Project Manager." 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 County Government.	
	FORM OF CONTRACT	
	The form of contract will be the one included in the Republic of Kenya Standard Tender Documents for Procurements of Works (2000 Edition) hereby attached and the Conditions of Contract are those attached thereto. If the contractor considers that the compliance with any of the Conditions of Contract involves any expenses he will distribute them among his rates for the various items in the Bills of Quantities. No claim shall be allowed arising from the Contractors Compliance with any of the conditions of Contract. Particulars of the insertions to be made in the Appendix of the Contract Agreement will be found in the Particular Preliminaries of these Bills Of Quantities.	
	BOND.	
	The Contractor shall find and submit on the Form of Tender the name of one surety who shall be an approved bank and who will be willing to be bound to the Country Government of Lamu in and amount equal to Five percent (5%) of the Contract amount for the due performances of the Contract up to the date of completion as certified by the PROJECT MANAGER and who will when and if called upon sign a Bond to that effect on Ministry of Public Works Form No. 118 (without the addition of any limitations).	
	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.	
	TRANSPORT.	
	Allow for transport of workmen, materials, etc., to and from the site at such hours and by such routes as may be permitted by the competent authorities.	
	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 sources as early as necessary to ensure that they are on site when required for use in the works. The Bills of Quantities shall not be used for the purpose of ordering materials.	
	CARRIED TO COLLECTION PAGE: GENERAL PRELIMINARIES	

ITEM	DESCRIPTION	AMOUNT
	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"	
	STORAGE OF MATERIALS	
	The Contractor shall provide at his own risk and cost where directed on the site weatherproof lockup 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.	
	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, may reject any materials or workmanship not in his opinion to be up to approved samples. The PROJECT MANAGER shall arrangefor the testing of such materials as he may at his discretion deem desirable, but the testing shall be madeat the expense of the Contractor and not at the expense of the PROJECT MANAGER. The Contractor shall pay for the testing inaccordance 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 PROJECT MANAGER. The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub-contractors' work.	
	GOVERNMENT ACTS REGARDING WORKPEOPLE 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.	
	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.	
	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	
	CARRIED TO COLLECTION PAGE: GENERAL PRELIMINARIES	

ITEM	DESCRIPTION	AMOUNT
	EXISTING PROPERTY.	
	The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expense to the satisfaction of the PROJECT MANAGER.	
	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.	
	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 and reinstate all works and surfaces disturbed to the satisfaction of the "PROJECT MANAGER".	
	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"	
	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 pedestal 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 the services of cleaner and pay all conservancy charges and keep both office and closet in a clean and sanitary condition from the 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 theby the PROJECT MANAGER a modern and accurate level together with levelling staff, ranging rods and 50 metre metallic or linen tape.	
	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 owncost 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 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. 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 PAGE: GENERAL PRELIMINARIES	

ITEM	DESCRIPTION	AMOUNT
	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	
	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. 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 gazzeted holidays unless the PROJECT MANAGER shall direct so. 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 PROJECT MANAGER in writing.	
	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.	
	PRIME COST (OR P.C.) SUMS.	
	item A7 (ii) of the Standard Method of Measurement. Persons or firms nominated by the PROJECT MANAGER to execute	
	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.	
	ADJUSTMENT OF P.C. SUMS.	
	In the final account all P.C. Sums shall be deducted and the amount properly expended upon the D.R'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.	
	CARRIED TO COLLECTION PAGE: GENERAL PRELIMINARIES	

М	DESCRIPTION	AMOUNT
	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 as described for Variations in Conditions No. 22 of the Conditions of Contract, 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.	
	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 as described in Condition No. 20 of the Conditions of Contract 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".	
	DIRECT CONTRACTS	
	Notwithstanding the foregoing conditions, the County 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 the instances, profit relative to the P.C. Sum the priced Bills of Quantities will be adjusted as described for P.C. Sums and allowed.	
	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.	
	INSURANCE	
	The Contractor shall insure as required in Conditions Nos. 22 and 23 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.	
	PROVISIONAL WORK	
	All work described as "Provisional" in these Bills of Quantities is subject to re-measurement 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.	

ITEM	DESCRIPTION	AMOUNT
	ALTERATIONS TO BILLS, PRICING, ETC.	
	Any unauthorized 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.	
	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 laid down by the PROJECT MANAGER governing the use and storage of explosives.	
	MATERIALS ARISING FROM EXCAVATIONS	
	MANAGER directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used	
	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.	
	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.	
	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 ofmetalwork and leave the whole the buildings watertight, clean, perfect and fit for occupation to the approval of the PROJECT MANAGER	
	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 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.	
	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.	
	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 is to include the materials of Main Contractor, Nominated Sub-Contractors and Nominated Suppliers.	
	CARRIED TO COLLECTION PAGE: GENERAL PRELIMINARIES	

ITEM	DESCRIPTION	AMOUNT
	COLLECTION PAGE: GENERAL PRELIMINARIES	
	Brought forward from page DISP/6	-
	Brought forward from page DISP/7	-
	Brought forward from page DISP/8	
	Brought forward from page DISP/9	-
	Brought forward from page DISP/10	-
	Brought forward from page DISP/11	-
	Brought forward from page DISP/12	-
	Total for General Preliminaries Carried to Summary Page (PRELIMINARIES)	

ITEM	DESCRIPTION	AMOUNT
	SUMMARY PAGE: PRELIMINARIES	
	Balance brought forward from page DISP/5	
	Balance brought forward from page DISP/13	
	Total for Preliminaries Carried to Grand Summary	

ITEM	PROPOSED CONSTRUCTION OF SEAWALL AT SI DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	CONCRETE WORKS	(
	SEA WALL (All Provisional)				
A	Clear site of all obstacles and dispose as directed by the Engineer on site.	600	SM		
В	Set out works over land and water		ITEM		
С	Excavate top soil to remove sea vegetation to a depth not exceeding 500mm, and dispose as directed by the Engineer.	102	СМ		
D	Excavate in water – logged loose sand to a depth not exceeding 1.5m for construction of seawall foundation (rate to include cost of keeping sides of trenches vertical).	102	СМ		
		102	CIVI		
Е	Cast In-situ 1200x400mm mass concrete footing using OPC class 25/20(mix 1:1.5:3).	85	СМ		
F	Construct a 200mm thick concrete block wall sloping at 2:1, average height 2.0m. Construct a vertical portion 0.6m high at the top of the sloping wall to make the wave-screen wall (rate to include cost of making concrete blocks to class	240	g. t		
	A1 and pointing of wall joints)	340	SM		
G	Provide weep-holes on the wall using 75mm diameter UPV pipes	25	NO		
Н	Construct a stone pitch layer behind the sloping block wall, with weep-holes running through them – thickness 300mm	340	SM		
I	Provide and place behind stone-pitch layer approved filter cloth as polyfelt Ts 1000 or equivalent, held in position at the top and bottom by 50mm \acute{O} mangrove poles. (Rate to include cost of stitching the consecutive pieces of filter cloth together – overlaps to be 300mm).	340	SM		
J	Provide and consolidate in layers of 300mm sand fill behind the seawall.	100	СМ		
K	Provide and place sawn timber shutters to sides of footing	140	SM		
	Reinforcement Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks				
L	T10 (10mm)	1600	kGs		
	CARRIED TO COLLECTION				

ITEM	PROPOSED CONSTRUCTION OF SEAWALL AT SI DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1113111	PAVEMENT (All Provisional)	Ψ.1	01111	MIL	711100111
A	Cast insitu a strip footing, 450 x 200mm of mass concrete class 25/20, 600mm below the finished sand backfill level.	16	СМ		
В	Cast insitu a wave beam, 500 x 200mm of mass concrete class 25/20 (Mix 1:1.5:3)	17	СМ		
В	Provide and place approved Hardcore, compacting it adequately in two layers between the stone pitch layer and the pavement wall. Thickness 300mm.	77	СМ		
С	Provide and place approved murram blinding, 50mm thick to receive the pavement concrete.	255	SM		
D	Cast in-situ 100mm pavement slab class 25/20, sloping 1:100 towards the sea (slabs to be in lengths of 3.0m cast alternately so that false cracks develop between adjacent slabs).	255	SM		
Е	Provide and place sawn timber shutters to sides of paved walkway	35	SM		
	Reinforcement Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks				
	T8 (8mm)	950	kGs		
	T10 (8mm)	540	kGs		
F	Fabric; B.S. 4483 Reference A142 mesh 200 x 200mm, weight 2.22kgs per square meter (measured net – no allowance made for laps (including bend, tying wire and distance blocks)	255	SM		
	CARRIED TO COLLECTION				
	CARMIED TO COLLECTION				

ITEM	PROPOSED CONSTRUCTION OF SEAWALL AT SI DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1 1 L:IVI	DESCRIPTION	Q11	OINII	NAIE	AWIOUNI
	STAIRCASES (All Provisional)				
	STITITE TIONS (THE TTO VISIONAL)				
A	Cast insitu a staircase slab, concrete class 25/20,	4	CM		
		-	Civi		
В	Provide and place approved Hardcore, compacting it				
	adequately in two layers between the stone pitch layer and				
	the pavement wall. Thickness 300mm.	6	CM		
C	Duravide and place approved payment blinding 50mm thick				
C	Provide and place approved murram blinding, 50mm thick to receive the pavement concrete.	16	SM		
	to receive the pavement concrete.				
	Provide and place sawn timber shutters to sides of paved				
E	walkway	3	SM		
	Doinforcement Roses high viald stock and secured to				
	Reinforcement Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and				
	distance blocks				
F	T8 (8mm)	200	kGs		
	CARRIED TO COLLECTION				

	PROPOSED CONSTRUCTION OF SEAWALL AT ST SUMMARY				
ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	PROJECT MANAGEMENT AND PROVISIONAL SUM				
	PROJECT MANAGEMENT				
	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 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 4 trips.	8	TRIP		
В	Provide Airtime for the project manager at a rate of Kshs. 1000/=month, (max 2 months duration).	6	Month		
D	Allow for profit and overhead on Item B above		%		
	Provisional Sum				
Е	Provide a provisional sum of KES 50,000 for NEMA approvals and NCA Compliance and other statutory requirements		ITEM		
	Provide a Provisional Sum of KES 385,000 for contingencies		ITEM		
	TOTAL FOR TWIN TOILET CARRIED TO GRAND S	STIMM A D	v		

	PROPOSED CONSTRUCTION OF SEAWALL AT ST SUMMARY		, ,	
ITEM	DESCRIPTION	QTY	UNIT	AMOUNT
1	SEAWALL WORKS		Page SW1	
2	PAVEMENT WORKS		Page SW2	
3	STAIRCASES		Page SW3	
3	PROJECT MANAGEMENT AND PROVISIONAL SUM		Page SW4	
	TOTAL FOR TWIN TOILET CARRIED TO GRAND S	SUMMAR	Y	

BILL OF QUANTITIES

FOR CONSTRUCTION OF SEAWALL AT SIYU, PATE WARD, LAMU COUNTY GRAND SUMMARY

ITEM	DESCRIPTION	TENDERER'S AMOUNT KES	OFFICIAL USE ONLY KES
1	SEAWALL		
5	ADD 16% VAT		
	TOTAL CARRIED TO FORM OF TENDER		

AMOUNT IN WORDS
FENDERER'S SIGNATURE AND STAMP
ADDRESS
DATE
WITNESS NAME
ADDRESS
DATE
SIGNATURE





