



APPENDIX 1

OF THE TENDER DOCUMENT

BILL OF QUANTITIES

PREAMBLES AND PRICING NOTES

PREAMBLES

The specifications to be used for these works are the Standard Specifications for Building and Civil Works in Kenya published by the Ministry of Roads and Public Works 1976 Edition. The works shall be carried out in accordance with these General Specifications except as supplemented hereinafter or in the Bills of Quantities.

The following apply to all sections hereafter.

GENERAL

A. ALTERATIONS, ADDITIONS AND EXTENSIONS

In alterations or extensions to existing buildings and/or external works, new work is to match up in all respects to the existing work unless otherwise specified, shown on the Drawings or approved before-hand by the Architect.

QUALITY, SAMPLES. TESTING AND APPROVAL

B. MATERIALS

Materials, commodities, components and equipment are to be new and unused unless otherwise specified. Handle, store, fix and protect all commodities with care to ensure that they are in perfect condition when incorporated into the work and handed over on completion.

C. MANUFACTURER'S RECOMMENDATIONS

Handle, store and fix every commodity strictly in accordance with the printed or written recommendations of the manufacturer and/or supplier. Supply the Architect with copies of manufacturers' recommendations. Inform the Architect if the manufacturers' recommendations conflict with any other specified requirements, and obtain his instructions before proceeding.

D. STANDARDS

Where commodities or workmanship are specified by reference to British Standards (B.S.) or Codes of Practice (C.P.) or International (I.S.O.) or other Standards, such standards are deemed to be the latest published at the time of tendering. The Contractor will be deemed to have read and understood the standards specified, and no claim for want of knowledge will be allowed. The substitution of commodities or standards of workmanship complying with other standards may be allowed at the discretion of the Architect, but application for permission for such substitution must be made in writing in sufficient time to allow adequate investigation. Obtain Certificates of Compliance with standards and supply to the Architect on request.

E. LOCAL CONDITIONS

All materials, commodities, components and equipment must be suitable for use in tropical climates.

F. SAMPLES

Where samples of commodities or specimens of finished work are specified, submit samples or specimens to the Architect and obtain his approval before confirming orders or carrying out the work. Retain approved samples and specimens on Site for comparison with the finished work. Finished work must conform in all respects with the samples or specimens approved. Remove samples and specimens when no longer required. The cost of supplying samples and specimens must be borne by the Contractor, but specimens may form part of the finished work where approved by the Architect.

The following apply to all sections hereinafter

DEMOLITIONS AND ALTERATIONS

A. GENERALLY

The Contractor is required to visit the existing buildings and ascertain for himself the nature of the Works and no claim arising from lack of knowledge in this respect will be entertained. The dimensions and quantities given in this section are approximate and the Contractor is referred to the Site to ascertain the exact nature and extent of the Works.

The items of pulling down and alterations are to include for both labour and materials and for any shoring, needling and strutting and temporary works in connection therewith. The Contractor must allow in his pricing for making good all works disturbed in all trades and for carting away all rubbish.

The Contractor must give all the necessary notices and must exercise due care in the demolitions. He must not collapse large sections of walls, floors, etc., and must provide all necessary shoring and supports during the demolitions.

During demolition works the Contractor shall keep the debris constantly watered to minimize the dust arising and this shall be included in his prices.

All materials arising from the demolitions, unless specifically stated otherwise, are to become the property of the Contractor and any credit allowed for the value of such materials shall be shown in the space provided.

All materials, including rubbish, shall be removed from the Site as soon as possible.

The Contractor is to erect dust-proof screens to the approval of the Architect where deemed necessary and to remove them on completion of the work, all to the Architect's satisfaction.

B. INTERPRETATION OF TERMS

"Demolish" shall be deemed to mean cutting away, breaking up, demolishing, pulling down, taking down, removing, etc., as the context requires and shall include in all cases temporarily strutting and supporting and making good remaining work as necessary, and clearing away and removing from Site all debris, etc.

"Remove" shall mean taking down, hacking up, breaking down, removing etc., and clearing away from Site and all other expenses thereby entailed.

"Make good" shall be deemed to mean all making good, fitting, facing up, plastering, paving, repairing and painting to match and jointing to remaining existing work.

To "match" shall mean to be equal to relevant existing work in design, workmanship and all other respects.

"Re-fix" shall apply to existing materials arising from the Works and shall mean take from store and fix in new position, including making good, repairing and adjusting as necessary.

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

BILL NO. 1 - PARTICULAR PRELIMINARIES

ITEM	DESCRIPTION	KSHS
A	<p data-bbox="215 333 873 363"><u>NOTES ON PRICING OF ITEMS OF PRELIMINARIES</u></p> <p data-bbox="215 401 979 674">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 assess 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.</p> <p data-bbox="144 711 521 741">B DEFINITION OF TERMS</p> <p data-bbox="215 779 1117 863">(i)Employer: The term 'Employer' wherever used hereinafter and in all Contract Documents shall mean Commissioner General, Kenya Revenue Authority P.O Box 48240 - 00100. Nairobi</p> <p data-bbox="215 905 1040 989">(ii) Project Managers: The term 'Project Manager' wherever used hereinafter and in all contract documents shall mean Kenya Revenue Authority P.O Box 48240 - 00100. Nairobi</p> <p data-bbox="215 1031 976 1115">(iii)Architect: The term 'Architect' whenever used hereinafter and in all contract documents shall mean Kenya Revenue Authority and its Agents P.O Box 48240 - 00100. Nairobi</p> <p data-bbox="215 1157 1040 1241">(iv)Quantity Surveyor: The term 'Quantity Surveyor' wherever used hereinafter and in all contract documents shall mean Kenya Revenue Authority and its Agents P.O Box 48240 - 00100. Nairobi</p> <p data-bbox="215 1283 1097 1367">(v)Engineer (Structural): The term 'Engineer (Structural)' wherever used hereinafter and in all contract documents shall mean Kenya Revenue Authority and its Agents P.O Box 48240 - 00100. Nairobi</p> <p data-bbox="215 1409 1040 1493">(vi)Electrical Engineer -The term 'Electrical Engineer' wherever used hereinafter and in all contract documents shall mean Kenya Revenue Authority and its Agents P.O Box 48240 - 00100. Nairobi</p> <p data-bbox="215 1535 1097 1619">(vii)Mechanical Engineer: The term 'Mechanical Engineer' wherever used hereinafter and in all contract documents shall mean Kenya Revenue Authority and its Agents P.O Box 48240 - 00100. Nairobi</p> <p data-bbox="215 1661 919 1745">(viii)Contractor - Means the person or firm named in the articles of agreement with whom the Employer has entered into contract and includes the legal successors in title and permitted assigns</p>	
	Total carried forward to collection	

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

BILL NO. 1 - PARTICULAR PRELIMINARIES

ITEM	DESCRIPTION	KSHS
	<p>Definition of terms (ctd)</p> <p>(ix)Works - Means the permanent works designed for the Employer by the Architect or other agents for execution by the Contractor and as described in the contract documents. It shall include work of all sub-contractors and suppliers as well as materials and goods supplied for incorporation in the Works.</p> <p>(x)Contract. The term "Contract" wherever used hereinafter and in all contract documents shall mean the letter of award of Contract, Agreement and Conditions of Contract for Building Works, Drawings, priced and signed Bills of Quantities, the schedules and other documents forming part of the contract.</p> <p>(xi)Contract Drawing. The term "Contract Drawings" wherever used hereinafter and in all contract documents shall be deemed to imply the drawing referred to in these Bills of Quantities.</p> <p>(xii)Site Means the place or places where the permanent Works are to be carried out and to which materials and goods are to be delivered and includes workshops or other places where materials, goods or work are being prepared for incorporation in the Works either by the Contractor, sub-contractors or by others.</p> <p>(xiii)Approved, Directed and Selected. The terms "Approved", "Directed" and "Selected" wherever used hereinafter and in all contract documents shall mean the approval, direction and selection of or by the Architect.</p> <p>(xiv)Singular and Plural. Words importing the singular only wherever used hereinafter and in all contract documents shall also include the plural and vice versa where the context requires. Persons shall include bodies corporate.</p>	
	Total carried forward to collection	

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

BILL NO. 1 - PARTICULAR PRELIMINARIES

ITEM	DESCRIPTION	KSHS
A	FIRM PRICE CONTRACT Unless otherwise specifically stated, this is a firm contract and the Contractor must allow in his tender rates for any increase in the cost of labour and/or materials during the currency of contract	
B	SCOPE OF CONTRACT The Work to be carried out under this contract comprise construction and completion of the proposed rehabilitation of storm water and sewer system at Langata Housing Estate complete with associated earthworks. All as per drawings, technical specifications and bills of quantities. The proposed works are located at Langata Estate.	
C	FLOOR AREA Total building floor area is _____ square metres and this is given for guidance only and without any warranty.	
D	BID SECURITY The bid security shall be Kenya Shillings Fifty Thousand (Kshs 50,000/=) from a reputable financial institution approved by the Central Bank of Kenya (CBK) or from an insurance Company approved by Insurance Regulatory Authority (IRA)	
E	VALUE ADDED TAX (VAT) All rates quoted shall be deemed to be inclusive of 16% VAT.	
F	CONTINGENCY SUM The miscellaneous items will be expensed by the Employer upon proof that their cost has been fully executed.	
	Total carried forward to collection	

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

BILL NO. 1 - PARTICULAR PRELIMINARIES

ITEM	DESCRIPTION	KSHS
A	<p data-bbox="215 333 496 361">A LOCATION OF SITE</p> <p data-bbox="215 401 862 428">The site for the proposed Works is at Langata Estate, Nairobi.</p> <p data-bbox="215 464 906 552">The contractor MUST visit the site and acquaint himself with the conditions and if unable to do so apply to the Project Manager for directions to enable him to do so.</p> <p data-bbox="215 590 971 772">The Contractor is recommended to visit the site and he shall be deemed to have acquainted himself therewith as to its nature and position means of access, etc, and no claim in this connection will be allowed. No claim will be allowed for travelling or other expenses which may be incurred by the contractor in visiting the site preparing for the tender for the works.</p> <p data-bbox="215 810 443 837">B MEASUREMENTS</p> <p data-bbox="215 873 971 995">In the event of any discrepancies between the Bills of Quantities and the actual works, the site measurements shall generally take precedence. However, such discrepancies between any contract document shall immediately be referred to the Project Manager.</p> <p data-bbox="215 1031 326 1058">C CLAIMS</p> <p data-bbox="215 1094 976 1276">It shall be a condition of this Contract that upon it becoming reasonably apparent by 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 claim or intent notice to the PROJECT MANAGER within the Contract Period. No claims shall be entertained upon the expiry of the said contract period</p> <p data-bbox="215 1314 646 1341">D MATERIALS FROM DEMOLITION</p> <p data-bbox="215 1377 1230 1436">All materials arising from demolition shall NOT be re-used except with express approval of the Project Manager. Materials arising out of Demolitions shall remain the property of the Employer.</p> <p data-bbox="215 1472 667 1499">E CONTRACT COMPLETION PERIOD</p> <p data-bbox="215 1535 964 1717">The contract completion period in accordance with condition 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 necessary, the "PROJECT MANAGER" shall inform the Contractor in writing that his actual performance on site is not satisfactory.</p> <p data-bbox="215 1755 971 1843">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.</p>	
	<p data-bbox="215 1976 602 2003">Total carried forward to collection</p>	

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

BILL NO. 1 - PARTICULAR PRELIMINARIES

ITEM	DESCRIPTION	KSHS
A	<p>PARTICULAR INSERTIONS TO BE MADE IN THE APPENDIX TO CONTRACT AGREEMENT</p> <p>The following are insertions to be made in the appendix to the Contract Agreement</p> <p>i) Period of Final Measurement Condition 32 12 Months from practical completion date</p> <p>ii) Defects Liability Period Condition 20 12 Months from practical completion date</p> <p>iii) Date for possession of site Condition 14 To be agreed with the Project Manager</p> <p>iv) Date for Completion Condition 31</p> <p>v) Liquidated & Ascertained damages Condition 27 At the rate of Kshs 50,000.00 per calender week or part thereof</p> <p>vi) Period of Interim Certificates Condition 23 Monthly</p> <p>vii) Period of honoring certificates Condition 23 Thirty (30) days</p> <p>viii) Percentage of certified value retained Condition 26 10%</p> <p>ix) Limit of retention fund Condition 26 5%</p> <p>x) Performance Bond Condition 28 The bond shall be from a Central Bank of Kenya approved Bank</p>	
B	<p>LABOUR CAMPS</p> <p>The Contractor may erect camps on site. He shall apply to the Project Manager to be shown the most appropriate location of such labour camps.</p>	
C	<p>TELEPHONE</p> <p>The Contractor shall arrange for, provide and maintain a telephone on site from the date of commencement to the date of completion of the contract and shall pay charges in connection therewith.</p>	
D	<p>OFFICE FOR THE "PROJECT MANAGER"</p> <p>The site office mentioned in item 'B' page 15 of the general preliminaries shall be type B as shown on the Directorate of Public Works standard details. The same shall be erected and maintained for the duration of the contract.</p>	
	<p>Total carried forward to collection</p>	

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

BILL NO. 1 - PARTICULAR PRELIMINARIES

ITEM	DESCRIPTION	KSHS
A	A TENDER DOCUMENTS Tender documents are as listed in Clause 2.3 of the Instruction to Tenderer's.	
B	SIGNBOARD Provide and erect where directed and maintain during the whole period of building operations and remove at completion an approved temporary 1 No. signboards at site to the Architect's standard design and giving the title of the Works and showing the names of the Employer, Architect, Quantity Surveyor, Engineers and the Contractor with sufficient space to add the names of the Nominated Sub-Contractors and suppliers. The lettering concerning the Architect, Quantity Surveyor and the Engineer is not to be more than 50 mm high.	
C	HOARDING The contractor shall be required to erect and maintain hoarding around the site for the duration of the contract. Thereafter he shall be required to demolish and clear away arisings and make good any disturbances.	
D	PROGRAMME PROGRESS CHARTS The Contractor shall upon possession of the site and in agreement with the "PROJECT MANAGER" prepare 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".	
E	PERFORMANCE SECURITY (BOND) The Contractor should note that the Performance Security to be provided must be in form of a bank guarantee in the amount of 10% of the Contract Sum.	
F	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.	
Total carried forward to collection		

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

BILL NO. 1 - PARTICULAR PRELIMINARIES

ITEM	DESCRIPTION	KSHS
A	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.	
B	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.	
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	ADVANCE PAYMENT Pursuant to the relevant clause of the Conditions of Contract, the tenderer will NOT be granted ADVANCE PAYMENT (See Appendix to Conditions of Contract)	
E	NUISANCE The Contractor shall not directly or indirectly or otherwise by himself or through his agents cause nuisance to the activities taking place inside. Should he do so he shall be directly responsible for such acts.	
F	MOBILIZATION FEE The Contractor shall allow in his Tender a sum of Kenya Shillings Seven Hundred and Fifty Thousand Only (Kshs 750,000.00) as allowance for the Employer's Agents to cater for transport, reimbursable expenses and the clerk of works fee.	750,000.00
Total carried forward to collection		

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

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BILL NO. 1 - PARTICULAR PRELIMINARIES

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REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

BILL NO. 2 - GENERAL REQUIREMENTS

ITEM	DESCRIPTION	KSHS
A	<p>PRICING ITEMS OF PRELIMINARIES AND PREAMBLES</p> <p>Prices will be inserted against items of Preliminaries in the Contractor's priced Bills of Quantities and Specification.</p> <p>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.</p>	
B	<p>PLANT TOOLS AND VEHICLES</p> <p>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.</p>	
C	<p>TRANSPORT</p> <p>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.</p>	
D	<p>MATERIALS AND WORKMANSHIP</p> <p>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 onsite when required for use in the works. The Bills of Quantities shall not be used for the purpose of ordering materials.</p>	
Total carried forward to collection		

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

BILL NO. 2 - GENERAL REQUIREMENTS

ITEM	DESCRIPTION	KSHS
A	<p>STORAGE FOR MATERIALS SUPPLIED</p> <p>The Contractor shall provide space for storage of materials and security for the materials meant for the Works.</p>	
B	<p>SAMPLES</p> <p>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 ARCHITECT, 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 Directorate of Public Works.</p> <p>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.</p>	
C	<p>GOVERNMENT ACTS REGARDING WORK PEOPLE, E.T.0</p> <p>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 information regarding all such regulations and/or restrictions which may affect the organization of the works, supply and control of labour, etc., and allow accordingly in his tender.</p> <p>No claim in respect of want of knowledge in this connection will be entertained.</p>	
Total carried forward to collection		

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

BILL NO. 2 - GENERAL REQUIREMENTS

ITEM	DESCRIPTION	KSHS
A	SECURITY OF WORKS, E.T.C 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	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	
D	VISIT TO 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.	
E	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.	
	Total carried forward to collection	

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

BILL NO. 2 - GENERAL REQUIREMENTS

ITEM	DESCRIPTION	KSHS
A	<p>AREAS TO BE OCCUPIED BY CONTRACTOR</p> <p>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.</p>	
B	<p>OFFICE, E.T.C. FOR THE PROJECT MANAGER</p> <p>The Contractor shall construct a temporary site office of type described and to the satisfaction of the Project Manager. He shall also provide a strong metal trunk complete with strong hasp and staple fastening and two 'keys. He shall maintain a lock-up type water or bucket closet for the sole use of the PROJECT MANAGER 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 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.</p>	
C	<p>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</p> <p>The Contractor shall make arrangements to provide all necessary water, electric light and power required for use in the works. 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.</p>	
D	<p>SANITATION OF WORKS</p> <p>The Contractor will provide toilet facilities for use of the Contractor and his agents.</p>	
E	<p>SUPERVISION AND WORKING HOURS</p> <p>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.</p>	
	<p>Total carried forward to collection</p>	

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

BILL NO. 2 - GENERAL REQUIREMENTS

ITEM	DESCRIPTION	KSHS
A	PROGRESS CHART The Contractor shall provide within one week 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.	
B	DIRECT CONTRACTS Notwithstanding the foregoing conditions, the Employer reserves the right to place a "Direct Contract" for any goods or services required in the works.	
C	ATTENDANCE UPON OTHER TRADESMEN, E.T.C. 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.	
Total carried forward to collection		

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

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BILL NO. 2 - GENERAL REQUIREMENTS

ITEM	DESCRIPTION	KSHS
A	<p>INSURANCE</p> <p>The Contractor shall insure as required in Conditions No. 30 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.</p>	
B	<p>PROVISIONAL WORK</p> <p>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.</p>	
C	<p>ALTERATION OF BILLS OF QUANTITIES, PRICING, E.T.C.</p> <p>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.</p>	
Total carried forward to collection		

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

BILL NO. 2 - GENERAL REQUIREMENTS

ITEM	DESCRIPTION	KSHS
A	MATERIALS ARISING FROM EXCAVATION Materials of any kind obtained from the excavations shall be the property of the Employer . Unless the PROJECT MANAGER directs otherwise such materials shall be dealt with as provided in the Contract.	
B	PROTECTION OF THE WORKS Provide protection of the whole of the works contained in the Bills of Quantities, including easing, 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.	
C	REMOVAL OF RUBBISH, E.T.C. 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.	
D	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.	
Total carried forward to collection		

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

BILL NO. 2 - GENERAL REQUIREMENTS

ITEM	DESCRIPTION	KSHS
A	GENERAL SPECIFICATIONS 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.	
B	MATERIALS ON SITE All materials for incorporation in the works will be stored in the space provided by the Employer within the building on site before payment is effected unless specifically exempted by the PROJECT MANAGER. The Main Contractor shall make arrangements with the Employer to secure the place for the safety of the Materials. This includes the materials of the Main Contractor and his domestic Sub-Contractors & Suppliers.	
C	CONTRACTORS 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.	
Total carried forward to collection		

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

BILL NO. 2 - GENERAL REQUIREMENTS

ITEM	DESCRIPTION	KSHS
	COLLECTION PAGE	From Page
1	Total From Page	11
2	Total From Page	12
3	Total From Page	13
4	Total From Page	14
5	Total From Page	15
6	Total From Page	16
7	Total From Page	17
8	Total From Page	18
Bill No. 2 - General Preliminaries		Carried Forward To Grand Summary

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

BILL NO 3: CIVIL WORKS

Item	Description	Unit	Quantity	Rate	Amount (Ksh)
<u>ELEMENT NO. 1</u>					
<u>DRIVEWAY, PARKING AND PAVED AREAS (WITHIN THE SITE ONLY) - GERENAL REPAIRS (ALL PROVISIONAL)</u>					
<i>Demolitions</i>					
A	Demolish hard standing such as driveway or footpaths within the site and as directed by the Civil Engineer, including carting away debris	Item			
<i>Excavations including maintaining and supporting sides and keeping free from water, mud and fallen material</i>					
B	Excavate to reduce levels not exceeding 1.5m deep starting from stripped level [Average 500mm deep overall]	CM	50.00		
<i>Disposal</i>					
C	Load, wheel and deposit on site surplus excavated materials including leveling as directed by the Architect & Civil Engineer	CM	50.00		
<i>Filling to road areas</i>					
D	Return fill and ram approved excavated materials on site to make up levels under roads and compacted in layers	CM	50.00		
E	Imported hardcore or approved quarry waste fill to make up levels under roads and compacted in layers	CM			Rate Only
F	Roll and compact subgrade to achieve 98% compaction to BS standards including grading to falls and crossfalls	SM	100.00		
G	150mm thick gravel or murrum base compacted to 100% compaction at optimum moisture content in road areas	SM	100.00		
H	200mm thick graded crusher-run or crushed stone base, including levelling as necessary to road areas	SM	100.00		
I	Prepare & apply total persistent herbicide to surfaces of sub-base	SM	100.00		
<i>Concrete block paving as manufactured by bamburi special products Ltd</i>					
J	Medium duty loading blocks size 210x105x60mm, (minimum strength 45N per square mm) laid on and including 40mm sand bed and compacted by surface vibration	SM	100.00		

Carried to Collection

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE**FOR KENYA REVENUE AUTHORITY****BILL NO 3: CIVIL WORKS**

Item	Description	Unit	Quantity	Rate	Amount (Ksh)
	<u>Labours</u>				
A	Raking cutting to block paving	LM	50.00		
B	Curved cutting to ditto	LM	25.00		
	<u>Precast concrete class 25/12 including all necessary formwork, finishing fair on all exposed surfaces and jointing and pointing in cement and sand (1:3) mortar</u>				
C	125 X 250mm splayed kerb laid on and including 325x100mm concrete (1:3:6) bed and 200 x 200mm haunching behind	LM	25.00		
D	100x125mm flush channel block laid on and including 325x100mm concrete (1:3:6) bed	LM	50.00		
E	Combined kerb and channel, comprising of 125x250mm splayed kerb, 125x100mm flush channel block, laid on and including 350 x 100mm concrete (1:3:6) bed and 100 x 200mm haunching behind	LM			Rate Only
F	Ditto but curved on plan	LM			Rate Only
	<u>Painting and decoration (provisional)</u>				
G	Prepare and apply three coats of road marking paint on precast concrete paving over not exceeding 100mm girth	LM			Rate Only
	<u>Filling to Walkways [All Provisional]</u>				
H	Roll and compact subgrade to achieve 98% compaction to BS standards including grading to falls and crossfalls	SM	50.00		
I	150mm well compacted murrum or other equal and approved fill blinded with 25mm thick quarry dust to receive ant-termite treatment. Including all the necessary excavations and levelling therein.	SM	50.00		
J	200mm thick handpacked stone base, including levelling as necessary to road areas	SM	50.00		
K	Prepare and apply total persistent herbicide to surfaces of sub-base	SM	50.00		
Carried to Collection					-

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

BILL NO 3: CIVIL WORKS

Item	Description	Unit	Quantity	Rate	Amount (Ksh)
	<u>Precast concrete paving slabs laid and jointed in cement and sand (1:3) mortar</u>				
A	600x600x50mm paving laid on and including 50mm bed of sand	SM	50.00		
	Carried to Collection				
	COLLECTION		Page		
	From Page		20		
	From Page		21		
			22		
Driveway, Parking and Paved Areas		Total Carried To Summary			

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE**FOR KENYA REVENUE AUTHORITY****BILL NO 3: CIVIL WORKS**

Item	Description	Unit	Quantity	Rate	Amount (Ksh)
	<u>ELEMENT NO 2</u>				
	<u>FOUL DRAINAGE (ALL PROVISIONAL)</u>				
	<i><u>Excavate trench for drain pipe not exceeding 3.00 metres deep part return fill and ram and remainder cart away; allow for excavating in soft/hard material (all classes)</u></i>				
A	Trench, average 750 mm deep for 100 mm diameter pipe	LM	100.00		
B	Trench, average 1000 mm deep for 100 mm diameter pipe	LM	50.00		
C	Trench, average 1250 mm deep for 150 mm diameter pipe	LM	50.00		
D	Trench, average 1500 mm deep for 225 mm diameter pipe	LM	158.00		
E	Trench, average 2250 mm deep for 225 mm diameter pipe	LM	91.00		
F	Trench, average 1500 mm deep for 300 mm diameter pipe	LM	41.00		
G	Trench, average 1750 mm deep for 300 mm diameter pipe	LM	21.00		
	<i><u>Key terrain or other equal and approved buried waste and soil UPVC pipes and fittings</u></i>				
H	100 mm diameter soil pipe laid in trench	LM	150.00		
I	150 mm diameter soil pipe laid in trench	LM	50.00		
	<i><u>Plain concrete 1:3:6 (25 mm aggregate) as described in</u></i>				
J	575x100mm thick bed to receive 300mm diameter pipe	LM	62.00		
K	500x100mm thick bed to receive 225mm diameter pipe	LM	249.00		
L	425x100mm thick bed to receive 150mm diameter pipe	LM	50.00		
M	375x100mm thick bed to receive 100mm diameter pipe	LM	150.00		
N	150mm thick surround to 300mm diameter pipe	LM	62.00		
O	150mm thick surround to 225mm diameter pipe	LM	249.00		
P	150mm thick surround to 150mm diameter pipe	LM	50.00		
Q	100mm thick surround to 100mm diameter pipe	LM	150.00		

Carried to Collection

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE**FOR KENYA REVENUE AUTHORITY****BILL NO 3: CIVIL WORKS**

Item	Description	Unit	Quantity	Rate	Amount (Ksh)
	<u>Gulley traps</u>				
A	Gulley trap overall size 200x200mm to depth not exceeding 0.5m deep, comprising of plain concrete (1:3:6) in 100mm thick slabs, 100mm thick solid concrete block walling, including key terrain UPVC trapped gulley cast in, complete with cast iron grating lid including all necessary excavations, formwork and reinforcement	No.	10.00		
	<u>The following in Inspection chambers</u>				
B	Manhole overall size 800x800mm to depth not exceeding 1.50m deep, comprising of plain concrete (1:3:6) in 150mm thick slab, 250mm thick benching, reinforced concrete class 20 in 100mm thick cover slab, 150mm thick solid concrete block walling, water-proof screeds to sides and bottoms, with recessed top to receive mild steel cover (m.s) including all necessary excavations, formwork and reinforcement	No.	5.00		
	<u>The following in 12No. Ring Sewer manholes:</u>				
C	Excavate pit for manhole not exceeding 1.5M deep from ground level	CM	40.50		
D	Ditto exceeding 1.5M but not exceeding 3.0 deep	CM	20.00		
E	Extra over excavation for excavation in rock	CM	60.50		
F	Return fill in and ram selected excavated materials around manholes	CM	22.00		
G	Wheel away average 100M on site spread and level surplus excavated materials as directed	CM	39.00		
	<u>Concrete (1:4:8)</u>				
H	50mm thick blinding	SM	17.00		
	<u>Concrete (1:2:4)</u>				
I	150mm thick bed	SM	17.00		
J	150mm thick wall	SM	115.00		
K	1000mm diameter raising collar around cover 150mm high with 550mm diameter opening including formwork	NO	12.00		
L	Benching average 300mm high to manhole 1050mm diameter including forming 300mm diameter main channels and finishing top smooth in 12mm render	NO	2.00		

Carried to Collection

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE**FOR KENYA REVENUE AUTHORITY****BILL NO 3: CIVIL WORKS**

Item	Description	Unit	Quantity	Rate	Amount (Ksh)
A	Benching average 300mm high to manhole 1050mm diameter including forming 225mm diameter main channels and finishing top smooth in 12mm render	NO	10.00		
B	Ditto average 400 high ditto for 450mm diameter main channel ditto	NO	1.00		Rate Only
C	Ditto average 500mm high ditto	NO	2.00		Rate Only
D	2-layers of BRC mesh A193 weighing 3.95Kg/M2 to surfaces of ring manhole	SM	115.00		
E	Ditto to top slab of ring manhole	SM	17.00		
	<u>Sawn formwork to:</u>				
F	Vertical sides of wall curved to 675mm mean radius	SM	230.00		
G	Edge of bed 75 - 150mm high ditto	LM	51.00		
	<u>Precast concrete (1:2:4)</u>				
H	100mm thick precast concrete cover slab 1450mm diameter reinforced with including 12mm diameter mild steel bars at 150mm centres both ways and with 600mm diameter opening	NO			Rate Only
I	1150mm diameter 60mm thick precast concrete rings 600mm long jointed in (1:3) mortar to B.S. 556 including 100mm thick concrete grade 25 surround	NO			Rate Only
J	Make hole in 150mm thick precast concrete wall for extra large pipe and make good	NO	12.00		
K	Galvanized malleable cast iron steps irons built into concrete wall and make good	NO	96.00		
	<u>Manhole covers</u>				
L	Single seal cast iron heavy duty triangular cover to B.S 497 Grade A set in concrete	NO	12.00		
M	600 x 450mm medium duty inspection manhole covers	NO			Rate Only
	<u>Cast iron manhole cover and frame to B.S EN 124 and BS497 REF. B4-20 respectively and casting frame in concrete including greasing</u>				
N	Medium duty cover size 600x450mm	No.	5.00		
O	Allow for testing the whole of Foul water drainage	Item			

Carried to Collection

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

BILL NO 3: CIVIL WORKS

Item	Description	Unit	Quantity	Rate	Amount (Ksh)
	COLLECTION		Page		
	From Page		23		
	From Page		24		
	From Page		25		
Foul Drainage			Total Carried To Summary		

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE**FOR KENYA REVENUE AUTHORITY****BILL NO 3: CIVIL WORKS**

Item	Description	Unit	Quantity	Rate	Amount (Ksh)
<u>ELEMENT NO 3</u>					
<u>STORM WATER DRAINAGE (ALL PROVISIONAL)</u>					
<i><u>Excavate trench for open drain pipe or drain channels not exceeding 1.50 metres deep, part return fill and ram and remainder cart away</u></i>					
A	Trench, average 450mm deep for 600mm internal width shallow drain	LM	70.00		Phase 2
B	Trench, average 1250mm deep for 300mm internal width drain with grating	LM	605.00		Phase 2
C	Trench, average 1000mm deep for 150mm diameter pipe	LM	60.00		
D	Trench, average 1000mm deep for 300mm diameter pipe	LM			Rate Only
E	Trench, average 1000mm deep for 450mm diameter pipe	LM	124.00		
<i><u>Invert block drains</u></i>					
F	300mm wide rectangular size 450x225mm precast concrete class 20/12 invert block drain including 100mm thick concrete surround	LM	248.00		Phase 2
G	300mm wide rectangular invert block drain size (internal dimensions) 300x300mm precast concrete class 20/12 drain including 100mm thick concrete surround - Drain Type A	LM	590.00		Phase 2
H	300mm wide rectangular invert block drain size (internal dimensions) 300x450mm precast concrete class 20/12 drain including 100mm thick concrete surround - Drain Type B	LM	15.00		Phase 2
<i><u>Spun concrete ogee cylindrical pipes and fittings to B.S. 556, Part 2</u></i>					
I	150mm pipe laid in trench	LM	60.00		
J	450mm pipe laid in trench	LM	124.00		
<i><u>Plain concrete 1:3:6 (25mm aggregates), as described in:-</u></i>					
K	375x150mm under 150mm pipe	LM	60.00		
L	525x150mm under 450mm pipe	LM	124.00		

Carried to Collection

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

BILL NO 3: CIVIL WORKS

Item	Description	Unit	Quantity	Rate	Amount (Ksh)
A	100mm thick surround to 150mm diameter pipe	LM	60.00		
B	100mm thick surround to 450mm diameter pipe	LM	124.00		
	<i>The following in storm water manholes</i>				
C	Manhole overall size 800x800mm to depth not exceeding 1.50m deep, comprising of plain concrete (1:3:6) in 150mm thick slab, 250mm thick benching, reinforced concrete class 20 in 100mm thick cover slab, 150mm thick solid concrete block walling, water-proof screeds to sides and bottoms, with recessed top to receive mild steel cover(measured separately) including all necessary excavations, formwork and reinforcement	No.	5.00		
	<i>Cast iron heavy duty manhole cover and frame to B.S EN 124 and BS497 REF. B4-20 respectively and casting frame in concrete including greasing</i>				
D	Medium duty cover size 600x450	No.	5.00		
	<i>Grating</i>				
E	300mm wide steel grating to channels in 1000mm long panels each comprising 40x40x5mm angle framing all round & 20mm bars welded diagonally to framing at 50mm centres	LM	605.00		Phase 2
F	40 x 40 x 5mm angle frame bedded to edge of channel in cement mortar with and including 8mm diameter x150mm long lugs at 300mm centres	LM	1,210.00		Phase 2
G	Allow for testing the whole of the storm water drainage	Item			
H	Allow for connection to NCC storm drainage	Item			
	Carried to Collection				
	COLLECTION			Page	
	From Page			27	
	From Page			28	
Storm Water Drainage		Total Carried To Summary			

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

BILL NO 3: CIVIL WORKS

Item	Description	Unit	Quantity	Rate	Amount (Ksh)
	<u>MAIN SUMMARY</u>				
	Element		Page		Amount
1	DRIVEWAY, PARKING AND PAVED AREAS		22		
2	FOUL DRAINAGE		25		
3	STORM WATER DRAINAGE		28		
4	INSTALLATION OF GUTTERS AND NEW DOWN PIPES		Item		Excluded
Bill No. 3					Total Carried To Main Summary
					-

REHABILITATION OF STORM WATER & SEWER SYSTEM AT LANGATA HOUSING ESTATE

FOR KENYA REVENUE AUTHORITY

GRAND SUMMARY

ITEM	DESCRIPTION	TENDERER'S AMOUNT KSHS	OFFICIAL USE ONLY KSHS
1	Preambles & Pricing Notes from Page 2		
2	Particular Preliminaries from Page 10		
3	General Preliminaries from Page 19		
4	Civil Works from Page 28		
Sub - Total Amount			
5	Provide Kenya Shillings Seven Hundred and Fifty Thousand Only (Kshs 750,000.00) for Contingencies	750,000.00	
Total Carried to Form of Tender			

Amount in words:.....

.....

Tenderer's Name:.....

Address:.....

Signature:.....

Rubber stamp:.....

Date:.....

Witness's name:.....

Signature:.....

Address:.....

Date:.....