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When replying please quote our Reference



COUNTY GOVERNMENT OF NYAMIRA

DEPARTMENT OF HEALTH SERVICES

PROPOSED CONSTRUCTION OF MATERNITY WARDS AT NYANGOSO HEALTH FACILITY

BILLS OF QUANTITIES

ARCHITECTS

COUNTY GOVERNMENT OF NYAMIRA
P.O. BOX 434 - 40500
NYAMIRA

STRUCTURAL/CIVIL ENGINEERS

COUNTY GOVERNMENT OF NYAMIRA
P.O. BOX 434 - 40500
NYAMIRA

QUANTITY SURVEYORS

COUNTY GOVERNMENT OF NYAMIRA
P.O. BOX 434 - 40500
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M&E ENGINEERS

COUNTY GOVERNMENT OF NYAMIRA
P.O. BOX 434 - 40500
NYAMIRA

**GENERAL PRELIMINARIES
&
PARTICULAR PRELIMINARIES**

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	KSHS
	<p>GENERAL PRELIMINARIES</p> <p>PRICING OF 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> <p>ABBREVIATIONS</p> <p>Throughout these Bills, units of measurement and terms are abbreviated and shall be interpreted as follows:-</p> <p><i>C.M.</i> Shall mean cubic metre</p> <p><i>S.M.</i> Shall mean square metre</p> <p><i>L.M.</i> Shall mean linear metre</p> <p><i>MM</i> Shall mean Millimetre</p> <p><i>Kg.</i> Shall mean Kilogramme</p> <p><i>No.</i> Shall mean Number</p> <p><i>Prs.</i> Shall mean Pairs</p> <p><i>B.S.</i> Shall mean the British Standard Specification Published by the British Standards Institution, 2 Park Street, London W.I., England.</p> <p><i>Ditto</i> Shall mean the whole of the preceding description except as qualified in the description in which it occurs.</p> <p><i>m.s.</i> Shall mean measured separately.</p> <p><i>a.b.d</i> Shall mean as before described.</p>	
	<i>Carried to Collection</i>	

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	KSHS
<p>A.</p>	<p>EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT <i>Attendance</i> ; 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 checkingand 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.</p>	
<p>B</p>	<p>FORM OF CONTRACT The Form of Contract shall be as stipulated in the Republic of Kenya's Standard Tender Document for Procurement of Building Works (2021 Edition) included herein The Conditions of Contract are also included herein Conditions of Contract These are numbered from 65 to 97 as set out in pages 65 to 97 of these tender documents.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</p>	
<p>C</p>	<p>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.</p>	
<i>Carried to Collection</i>		

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	KSHS
<p>A.</p> <p>B.</p> <p>C.</p> <p>D.</p> <p>E.</p>	<p>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.</p> <p>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 onsite when required for use in the works. The Bills of Quantities shall not be used for the purpose of ordering materials.</p> <p>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</p> <p>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.</p> <p>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.</p>	
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CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	KSHS
<p>A.</p>	<p>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 and particularly the Contractor's attention is drawn to the provisions of the Factory Act I 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 work people 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.</p>	
<p>B.</p>	<p>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.</p>	
<p>C.</p>	<p>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</p>	
<p>D.</p>	<p>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</p>	
	<p><i>Carried to Collection</i></p>	

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	KSHS
<p>A.</p> <p>B.</p> <p>C.</p>	<p>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.</p> <p>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</p> <p>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</p>	
	<i>Carried to Collection</i>	-

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	KSHS
<p>A.</p> <p>B.</p> <p>C.</p> <p>D.</p> <p>D.</p> <p>E.</p>	<p>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</p> <p>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.</p> <p>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 mentioned in Condition No. 16 of the conditions of Contract. Such sums are net and no addition shall be made to them for profit</p> <p>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 mentioned in Condition No. 16 of the conditions of Contract. Persons or firms nominated by the PROJECT MANAGER to execute work or to provide and fix materials or goods as stated in Condition No. 20 of the Conditions of Contract are described herein as Nominated Sub-Contractors. Persons or firms so nominated to supply goods or materials are described herein as Nominated Suppliers</p> <p>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.</p>	
	<i>Carried to Collection</i>	

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	KSHS
<p>A.</p> <p>B.</p> <p>C.</p> <p>D.</p>	<p>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.</p> <p>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. 5 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".</p> <p>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 the priced Bills of Quantities will be adjusted as described for P.C. Sums and allowed</p> <p>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.</p>	
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CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	KSHS
<p>A.</p> <p>B.</p> <p>C.</p> <p>D.</p> <p>E.</p>	<p>INSURANCE The Contractor shall insure as required in Conditions No 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.</p> <p>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</p> <p>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 be 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> <p>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.</p> <p>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.</p>	
	<i>Carried to Collection</i>	

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	KSHS
<p>A.</p> <p>MATERIALS ARISING FROM EXCAVATIONS</p> <p>Materials of any kind obtained from the excavations shall be the property of the County 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.</p> <p>B.</p> <p>WORKS TO BE DELIVERED UP CLEAN</p> <p>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</p> <p>C.</p> <p>GENERAL SPECIFICATION.</p> <p>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.</p> <p>D.</p> <p>TRAINING LEVY</p> <p>The Contractor's attention is drawn to the legal notice 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 Ksh. 1,000,000.00 in value.</p> <p>E.</p> <p>MATERIALS ON SITE</p> <p>All materials to be incorporated in the works as there SHALL be no payment for Material On Site.</p>		
	<i>Carried to Collection</i>	

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	KSHS
	<u>COLLECTION</u>	
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	TOTAL FOR GENERAL PRELIMINARIES CARRIED TO GRAND SUMMARY	

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

PARTICULAR PRELIMINARIES

ITEM	DESCRIPTION	KSHS
<p>A.</p> <p>B.</p> <p>C.</p> <p>D.</p> <p>E.</p> <p>F.</p> <p>G.</p>	<p><u>PARTICULAR PRELIMINARIES</u></p> <p>EMPLOYER The "Employer" is the DEPARTMENT OF HEALTH SERVICES NYAMIRA COUNTY, P.O Box 434-40500, Nyamira The term "Employer" and "Government" wherever used in the contract document shall be synonymous.</p> <p>PROJECT MANAGER The term "PM" 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 .</p> <p>ARCHITECT The term "Architect" shall be deemed to mean "The Arch. " whose address unless otherwise notified is Department of Transport, Roads, Public Works and Disaster Managent, P.O Box 434-40500, NYAMIRA.</p> <p>QUANTITY SURVEYOR The term "Quantity Surveyor" shall be deemed to mean "The QS. " as defined above whose address unless otherwise notified is Department of Transport, Roads, Public Works and Disaster Managent, P.O Box 434-40500, NYAMIRA.</p> <p>ELECTRICAL ENGINEER The term "Electrical Engineer" shall be deemed to mean "The Electrical Eng. " as defined above whose address unless otherwise notified is Department of Transport, Roads, Public Works and Disaster Managent, P.O Box 434-40500, NYAMIRA.</p> <p>MECHANICAL ENGINEER The term "Mechanical Engineer" shall be deemed to mean "The Mechanical Eng. " as defined above whose address unless otherwise notified is Department of Transport, Roads, Public Works and Disaster Managent, P.O Box 434-40500, NYAMIRA.</p> <p>STRUCTURAL ENGINEER The term "Structural Engineer" shall be deemed to mean "The Eng " as defined above whose address unless otherwise notified is Department of Transport, Roads, Public Works and Disaster Managent, P.O Box 434-40500, NYAMIRA.</p>	
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CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	KSHS
<p>A.</p> <p>B.</p> <p>C.</p> <p>D.</p> <p>E.</p> <p>F.</p>	<p><u>NOTE:-RESPONSIBILITY</u> The responsibility for the details designs, specifications and performance of the building is to be done by the design team and shall be approved by the Project Manager before they can be used.</p> <p>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.</p> <p>SCOPE OF CONTRACT The works to be carried out comprises of construction of one (1 No.) single storey Health Center to be constructed in reinforced concrete strip foundaion. Services include electrical installation works, and mechanical works. Other works include civil and external works.</p> <p>DESCRIPTION OF THE WORKS The works consists of construction of single storey Health Center sitting on strip foundations and lintel. Superstructure being constructed in masnory walling. Finishes consist of plaster, floor tiles, chipboard ceiling and painting works. Services include electrical works , plumbing and drainage works as described in the deatiled Bills of Quantities .</p> <p>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 12 of the said Conditions.</p> <p>LOCATION OF SITE The site of the proposed works is located at Nyangoso Health Centre. 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.</p>	
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CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	KSHS
<p>A.</p> <p>B.</p> <p>C.</p> <p>D.</p>	<p>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.</p> <p>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 executed to the satisfaction of the Project Manager</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>	
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CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	KSHS
<p>A.</p> <p>PAYMENTS</p> <p>The tenderer’s attention is drawn to the fact that the GOVERNMENT DOES NOT MAKE ADVANCE PAYMENTS but pays for work done and materials delivered to site all in accordance with Clause 14 of the 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</p> <p>B.</p> <p>PREVENTION OF ACCIDENT, DAMAGE OR LOSS</p> <p>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 being carried out by the Client. The Contractor shall allow in his rates any expense he deemed necessary by taking such care within the site.</p> <p>C.</p> <p>WORKING CONDITIONS</p> <p>The Contractor shall allow in his rates for any interference 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.</p> <p>D.</p> <p>SIGNBOARD</p> <p>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.</p> <p>E.</p> <p>LABOUR CAMPS</p> <p>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.</p> <p>F.</p> <p>MATERIALS FROM DEMOLITIONS</p> <p>Any materials arising from demolitions and not re-used shall become the property of the client. The Contractor shall allow in his rates the cost of disposing the demolished materials as directed.</p> <p>G.</p> <p>PRICING RATES</p> <p>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.</p>		
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CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	KSHS
<p>A.</p> <p>B.</p> <p>C.</p> <p>D.</p> <p>E.</p> <p>F.</p> <p>G.</p>	<p>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.</p> <p>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 (26 weeks) . 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.</p> <p>PAYMENT FOR MATERIALS ON SITE There SHALL be NO payments for materials On Site. The Contractor is advised to incorporate all materials to actual works.</p> <p>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.</p> <p>TENDER DOCUMENTS Tender documents are as listed in Clause 11 of the Instruction to Tenderers</p> <p>CONTRACT COMPLETION PERIOD The contract completion period in accordance with condition 31 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.</p> <p>PERFORMANCE BOND A bond of 5% of the contract sum will be required in accordance with clause 48, on award of contract 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.</p>	
	<i>Carried to collection</i>	

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	KSHS
<p>A.</p>	<p>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.</p>	
<p>B.</p>	<p>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 currently in force. 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. NB: The Contractor should therefore include the tax within the rates.</p>	
	<i>Carried to collection</i>	

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	KSHS
A	PROJECT MANAGEMENT Provide Provisional Sum of Kenya Shillings Three Hundred Thousand (Kshs. 300,000.00) only for Project Management Expenses for Technical team from Department of Transport, Roads, Public Works and Disaster Management Officers for the duration of the contract period.	
B.	TRANSPORT The contractor shall provide transport for his workers	
	<i>Carried to collection</i>	

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>BILL NO. 2</u>				
	<u>ELEMENT A</u>				
	<u>SUBSTRUCTURES - ALL PROVISIONAL</u>				
A	Site Clearance, uproot all tea plantation on site	m2	2,430		
B	Excavate to remove top vegetable soil average 150mm deep	m2	260		
C	Excavate to reduce levels commencing from stripped level not exceeding 1.50m deep.	m3	78		
D	Excavate foundation trench not exceeding 1.5m deep commencing from reduced level	m3	260		
E	Extra over excavation for excavating in rock.	m3	39		
F	Wheel, deposit, spread and level excavated material on site average distance 100m from excavation.	m3	377		
G	Remove surplus excavated material from site.	m3	39		
	<u>Fills</u>				
H	Return, fill-in and ram selected excavated material around foundations	m3	63		
I	Filling in making up levels under floors, spread, levelled, well rammed and consolidated in 150mm thick layers.	m3	50		
J	300mm Bed well compacted hardcore and blinded with fine material 50mm thick to receive damp proof membrane (measured separately).	m2	78		
K	Approved 50mm thick murrum filling in making up levels around foundations well rammed and consolidated.	m2	260		
L	Approved insecticide treatment.	m2	260		
M	1000 Gauge 'dithene' or other equal and approved polythene sheeting as damp proof membrane laid on blinded hardcore (measured separately) with wetted laps (measured net - no allowance made for laps).	m2	260		
N	50mm Plain concrete (1:3:6) blinding under foundations.	m3	6		
O	600 x 600 x 50mm thick precast concrete paving slabs bedded and jointed in cement and sand (1:4) mortar laid on and including 50mm thick sand bed and 200mm thick well compacted hardcore	m2	48		
	<u>Vibrated reinforced concrete (class 20/20)</u>				
P	Foundations.	m3	21		
Q	150mm Bed laid on damp proof membrane (measured separately) in bays not exceeding 50 square metres including formwork to edge of bays.	m2	260		
	<u>Reinforcement</u>				
	<u>Supply and fix the following deformed bar reinforcement to B.S. 4449</u>				
R	10mm Diameter bars	Kg.	432		
S	8mm Do.	Kg.	220		
T	Steel wire fabric mesh reinforcement to B.S. 4483 Ref: A 98 in concrete bed with 150mm minimum laps)	m2	260		
	<u>Sawn formwork</u>				
U	Edge of bed 75- 150mm high.	m	80		
	SUBSTRUCTURES CARRIED TO COLLECTION				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>Approved load bearing local stone walling in cement mortar (1:3).</u>				
A.	200mm Walling (7.0 N/mm ²).	m ²	210		
B.	15mm Two coat cement and sand (1:4) external rendering on plinths finished smooth with a wood float.	m ²	48		
C.	Prepare and apply three coats of 'Crown Paints Solo' or other equal and approved external quality plastic emulsion paint on rendered walls to be executed by an approved Sub-Contractor.	m ²	48		
	<u>Total carried to Collection</u>				
	<p><u>ELEMENT A</u></p> <p><u>SUBSTRUCTURES</u></p> <p><u>(ALL PROVISIONAL)</u></p> <p><u>COLLECTION</u></p> <p>Brought forward from Page No. 21</p> <p>" " " " " 22</p>				
	<u>TOTAL AMOUNT OF ELEMENT A CARRIED TO SUMMARY AT END OF BILL NO. 2</u>				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<p><u>ELEMENT B</u></p> <p><u>EXTERNAL AND INTERNAL WALLS</u></p> <p><u>Approved machine cut local stone bedded, jointed and pointed in gauged mortar (external walls)</u></p>				
A	Standard brick walling bedded and jointed in cement and sand (1:4) mortar to Architect's approval; reinforced with 20 gauge hoop iron at alternate sections	m2	283		
B	Gable walling	m2	42		
C	Wall above the lintel	m2	53		
D	Fair raking cutting on 150mm walling.	m	33		
	<u>Pluvex No. 1 or other equal and approved horizontal bitumen damp proof course to B.S. 743, (measured net - no allowance made for laps).</u>				
E	150mm Do.	m	180		
	<u>TOTAL AMOUNT OF ELEMENT B CARRIED TO SUMMARY AT END OF BILL NO. 2</u>				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT C</u>				
	<u>ROOF CONSTRUCTION AND COVERINGS</u>				
	<u>Impregnated sawn cypress</u>				
A	100 x 50mm Wall plate bolted to wall at 1000mm centres	m	180		
B	100 x 50mm Rafters	m	357		
	100x50mm Ceiling Joist	m	273		
C	100x50mm Struts and ties	m	498		
D	100 x 50mm king post	m	77		
E	75 x 50mm purlins	m	472		
	<u>Wrot cypress</u>				
F	250 x 25mm Fascia board	m	80		
	<u>Roof Covering</u>				
G	Coloured normal gauge 30 green in colour iron sheet on 75x50mm purlins	m2	380		
H	corrugated ridge cap	m	33		
I	Extra over for valley	m	31		
J	Extra over for hip	m	10		
	<u>PVC Pipes PN6 and accessories</u>				
K	150mm Gutter fixed to timber fascia with approved brackets	m	80		
L	75 mm Diameter down pipes encased in concrete columns.	m	18		
M	Extra over ditto for bends	No.	12		
N	75mm Diameter rainwater outlet	No.	6		
	<u>TOTAL AMOUNT OF ELEMENT C CARRIED TO SUMMARY AT END OF BILL NO. 2</u>				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<p><u>ELEMENT D</u></p> <p><u>WINDOWS</u></p>				
A	Wrot iron curtain track complete with and including brackets, gliders, end stops and screwed to wall.	m	30		
B	Do. But to wards holding curtains for partitioning	m	50		
	<p>Supply and fix the following Ex-shop standard welded mild steel casement windows comprising of standard 25 x 25 x 3 mm Z section framing; complete with approved Brass fasteners, stays and all other necessary iron mongery; including 75 mm perforated mild steel permanent vent and hood at the top infilled with mosquito wiregauze and all primed in one coat red oxide primer before delivery to site and all welds ground smooth including fixing lugs to masonry and/or beams bedded in cement and sand (1:3) mortar and pointing all round with mastic.</p>				
C	Window overall size 2000 x 1500mm	No.	9		
D	Window size 700 x 900mm high	No.	4		
E	Do. 1500 x 1500mm high	No.	5		
	<u>Glazing</u>				
	<u>4mm Thick stained sheet glass and glazing to metal with putty in:-</u>				
J	Panes 0.10 to 0.50 SM	m2	40		
	<u>4mm Thick obscure sheet glass and glazing to metal with putty in:-</u>				
K	Panes 0.10 to 0.50 SM	m2	3		
	<u>Painting and decoration</u>				
	<u>Prepare and apply three coats of "Crown's" gloss oil paint to:-</u>				
L	Metal surfaces of glazed windows (both sides measured)	m2	43		
	<u>TOTAL AMOUNT OF ELEMENT E CARRIED TO SUMMARY AT END OF BILL NO. 2</u>				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT E</u>				
	<u>TIMBER DOORS - MAHOGANY</u>				
A	50mm Thick double door overall size 1500 x 2400mm high in 2 no. equal each comprising of 300mm high fan light (m.s)	No.	1		
B	50mm Thick double door overall size 1200 x 2400mm high in 2 no. equal each comprising of 300mm high fan light (m.s)	No.	3		
C	Ditto but 900x2400 <u>Flush doors</u>	No.	8		
D	45mm Thick solid core flush door size 1000 x 2400 mm high faced both sides with veneered mahogany lipping to edges comprising of 300mm high fan light (m.s) <u>Glazing</u> <u>4mm Thick stained sheet glass and glazing to wood with wooden beads in:-</u>	No.	4		
E	Panes 0.50 to 1.0 SM <u>Cypress frames and finishings</u>	m2	6		
F	150 x 50mm Frame to details	m	83		
G	50 x 20mm Architrave.	m	82		
H	25 x 25mm quarant.	m	82		
I	100mm Stainless steel butt hinges.	Prs.	30		
J	Two lever mortice lock	No.	14		
K	Two lever mortice lock	No.	2		
L	Round aluminium door stop.	No.	16		
M	1000x300mm stainless steel kick plate <u>Prepare and apply three coats of "Crown's" polyurethane clear wood lacquer to:-</u>	No.	4		
N	General wood surfaces	m2	42		
O	Ditto 100-200mm girth	m	70		
P	Prime back of wood before fixing 0-100mm girth	m	70		
	<u>TOTAL AMOUNT OF ELEMENT E CARRIED TO SUMMARY AT END OF BILL NO. 2</u>				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<u>ELEMENT F</u>					
<u>EXTERNAL WALL FINISHES</u>					
A	12mm Two coat cement and sand (1:4) external rendering on window and door eaves finished smooth with a wood float.	m2	20		
B	Do. but to plinth area 500mm high cement and lime plaster	m2	40		
C	Do. but within lintel and wall above	m2	50		
D	Do. but to gable walling	m2	42		
E	Key-in and pointing in flush horizontal joints	m2	90		
F	Prepare and apply one undercoat and two finishing coats of 'Crown Paints Solo' or other equal and approved silk vinyl paint on plastered walls internally to be executed by an approved Sub-Contractor.	m2	242		
<u>TOTAL AMOUNT OF ELEMENT F CARRIED TO SUMMARY AT END OF BILL NO. 2</u>					

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<p><u>ELEMENT H</u></p> <p><u>FLOOR FINISHES</u></p>				
	<p><u>Cement and sand (1:4) beds and backings</u></p> <p><u>25mm thick Insitu cement and sand (1:3) screeded beds, with steel trowelled smooth finish</u></p>				
A	<p>32mm Bed on concrete finished to receive ceramic tiles(measured separately).</p> <p><u>Ceramic floor tiles as "Saj Ceramics Ltd" or other equal and approved supplier bedded and jointed in cement mortar (1:4)</u></p>	m2	260		
B	<p>400 x 400 x 8mm Thick coloured non-slip ceramic floor tiles and pointing in coloured cement mortar laid to pattern</p>	m2	260		
C	<p>100 x 8mm Thick skirting to match floor tiling</p>	m	280		
	<p><u>TOTAL AMOUNT OF ELEMENT H CARRIED TO SUMMARY AT END OF BILL NO. 2</u></p>				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<p><u>ELEMENT I</u></p> <p><u>CEILING FINISHES</u></p> <p><u>Chipboard works</u></p>				
A.	9mm thick chip board ceiling fixed including to 50x50mm sawn cypress brandering at 600mm centres both directions fixed with tack nails	m2	260		
B.	50x50 sawn cypress brandering	m	863		
	<u>The whole of the following work is to be executed by an approved Sub-Contractor.</u>				
	<u>Prepare and apply one undercoat and two finishing coats of 'Crown Paints Solo' or other equal and approved matt emulsion paint on</u>				
C	Chipboard surfaces	m2	260		
D	Extra over for 600x600 ceiling access panel	No	1		
	<u>TOTAL AMOUNT OF ELEMENT I CARRIED TO SUMMARY AT END OF BILL NO. 2</u>				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<p align="center"><u>ELEMENT J</u></p> <p align="center"><u>FIXTURES AND FITTINGS</u></p> <p><u>Vanity tops and cupboards comprising of 600x600x10mm thick ceramic tiles top and 20mm laminated MDF shelving,back, bottom,sides and doors complete with ironmongery</u></p>				
A	Low level kitchennette cabinets	LM	10		

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT K</u>				
	<u>BUILDER'S WORKS IN CONNECTION WITH SPECIALIST SERVICES</u>				
	<u>(ALL PROVISIONAL)</u>				
	<u>Internal plumbing and drainage</u>				
A.	Cut horizontal or vertical chase in walling for small pipe and make good.	m	50		
B.	Hole through 150mm block or stone wall for small pipe and make good.	No.	20		
C.	Do. But for large pipe.	No.	10		
	<u>Cut away for and make good after sanitaryware installation to the following fittings including cutting or leaving all holes, notches, mortices, sinkings in both the structure and its finishes and make good to them.</u>				
D	Water closet suite.	No.	4		
E	Wash basin.	No.	4		
F	Kitchen sink.	No.	1		
G	Shower fitting.	No.	2		
H	Mirror.	No.	2		
I	Toilet roll holder.	No.	4		
J	Soap dish.	No.	2		
K	Towel rail.	No.	2		
	<u>Electrical Installations</u>				
	<u>Cut away for and make good after the electrician installing concealed conduit system to the following points including cutting or leaving all holes, notches, mortices, sinkings in both the structure and its finishes and make good to them.</u>				
L	Lighting points with associated switch points.	No.	42		
M	Socket outlet points.	No.	42		
N	Water heater point.	No.	2		
O	Data or telephone outlet point.	No.	42		
P	Consumer unit point.	No.	1		
Q	Cooker control unit point.	No.	1		
R	Meter board point.	No.	1		
S	Water pump point.	No.	1		
	<u>TOTAL AMOUNT OF ELEMENT K CARRIED TO SUMMARY AT END OF BILL NO. 2</u>				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT L</u>				
	<u>SEPTIC TANK AND SOAK PIT</u>				
	<u>Excavations</u>				
A.	Mass excavation to septic and soak pit	m3	75		
B.	Floor slab	m3	2		
C.	Top slab	m3	2		
D.	Allow for inlets and outlets of 150mm diameter	No.	4		
E.	Assorted rebar	kgs	300		
F.	BRC mesh No.A64	m2	6		
G.	200mm thick natural stone walling	m2	84		
H.	100mm thick Concrete wall	m3	1		
I.	Formwork	m2	20		
J.	Manhole covers 600x450 double seal	No.	5		
K.	12mm thick water proof plaster to internal surface	m2	96		
L.	Rock fill	m3	32		
M.	French drain excavations	m3	23		
N.	Fill with crushed stone	m3	11		
O.	Fill with imported Murrum	m3	6		
P.	150mm diameter perforated clay pitch fibre pipe	m2	25		
	<u>TOTAL AMOUNT OF ELEMENT O CARRIED TO SUMMARY</u>				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT M</u>				
	<u>WATER TANK</u>				
	<u>ELEVATED WATER TANK</u>				
	<u>SUBSTRUCTURE (ALL PROVISIONAL)</u>				
	<u>Oversite Excavations</u>				
A	Excavate average 250mm deep to remove top vegetable soil and stock pile on site for later re-use	Sm	5		
	<u>Bulk Excavation to reduce levels: commencing from stripped level;</u>				
B	Bulk Excavation: for column bases	Cm	8		
C	Extra over all excavations for breaking up rock at any point	Cm	3		
	<u>Backfilling</u>				
D	Backfill: selected excavated material or other equal approved material: compacted in layers: well watered: around foundations	Cm	5		
	<u>Anti-termite Treatment</u>				
E	Termidor 80WG Chemical anti-termite treatment executed complete by an approved specialist under a ten (10) year guarantee to surfaces of blinded hardcore	Sm	5		
	<u>CONCRETE WORK</u>				
	<u>Plain concrete class 15; in</u>				
F	50mm Thick surface blinding under column bases	Sm	5		
	<u>In situ concrete class 25/20 mix: vibrated and reinforced as described: in</u>				
G	Column bases	Cm	1.5		
H	Stub Columns	Cm	0.5		
	<u>REINFORCEMENT</u>				
	<u>Square twisted mild steel steel reinforcement in structural concrete work</u>				
I	Reinforcement bars of Assorted Bars	Kg	214		
	<u>Sawn formwork to</u>				
J	Vertical sides: Columns	Sm	6		
K	Vertical sides: Column base	Sm	10		
	Total carried to collection				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>STEEL STRUCTURE FOR ELEVATED WATER TANK</u>				
	<u>Fabricated framed structure: structural mild steel grade 43C : allow for SFW continuous smooth welding : 6mm welds: 3.2 mm blanked open ends: with and including all connections, plates, cleats, 6mm thick gasket plates, bolts and making holes for the same: (the tenderer shall prepare shop drawings for Engineer's approval and allow for all required bolts, plates, angle cleats, end cleats, stiffeners and any other accessory within the all-in-rate for steel tower : no further claim will be entertained for these items during post contract) : deliver to site, hoist and fix to position : all as specified in Engineer's drawings : supplied with and including one shop coat of red oxide zinc chromate primer and one coat primer after installation: prepare and apply one undercoat and two coats gloss paint on completion: all to approval.</u>				
A	50x50x4mm 3.06kg/m RSA	lm	32		
B	40x40x3mm 2.4kg/m RSA	lm	0		
C	50x3mm flat safety hoops	lm	20		
D	32NB Class B top rails	Kg	60		
E	25NB Class B intermediate rails	Kg	25		
F	50 x 3 mm thick flat bars	Lm	25		
G	400 x 400 x 4 mm thick base plate with 4 No. 28mm diameter drilled holes including 4 No. 25mm diameter x 900 mm long high density bolts; 800mm bedded into concrete	No	4		
H	3 mm thick ms steel plate including all necessary connections to the structure	SM	6		
I	30 mm diameter x 2.5 mm thick x 400 mm long CHS rungs	No	20		
	<u>Plastic water tank</u>				
J	Provide and install 5000 litres as roto or equivalent as shall be approved	No	1		
	Carried to collection				
	From page 34				
	From page 35				
	TOTAL CARRIED TO SUMMARY				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

BILL NO. 2
NYANGOSO HEALTH CENTER
MATERNITY WARDS

BUILDER'S WORKS

SUMMARY

Element	Title	Page No.	Amount (Kshs)
A	Substructutres (<u>All Provisional</u>)	22	
B	External and Internal Walls	23	
C	Roof Construction and Coverings	24	
D	Windows	25	
E	Doors	26	
F	External Wall Finishes	27	
G	Internal Wall Finishes	28	
H	Floor Finishes	29	
I	Ceiling Finishes	30	
J	Fixtures and fittings	31	
K	Builder's Work in Connection with Specialist Services (<u>All Provisional</u>)	32	
L	Septic Tank and soak pit	33	
M	Eleveted Water Tank	35	
TOTAL CARRIED TO FINAL SUMMARY		SHS.	

BILL NO. 2
SUMMARY

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>BILL NO.3</u>				
	<u>PIT LATRINE - 3-DOOR</u>				
	<u>SUB-STRUCTURES</u>				
	<u>(ALL PROVISIONAL)</u>				
	<u>Excavation and earthwork</u>				
A	Excavate oversite average 200mm deep to remove vegetable soil load up wheel and deposit about 100 meters away and later spread and level on site where directed	20	SM		
B	Excavate to reduce levels not exceeding 0.3meters deep commencing at stripped level	6	CM		
C	Excavate for pit starting from reduced level not exceeding 1.50 meters deep from reduced level	5	CM		
D	Ditto exceeding 1.5m but not exceeding 3.0metres deep	7.5	CM		
E	Ditto exceeding 3.0m but not exceeding 4.5metres deep	7.5	CM		
F	Ditto exceeding 4.5m but not exceeding 6.0metres deep	7.5	CM		
G	Ditto exceeding 6.0m but not exceeding 7.5metres deep	7.5	CM		
H	Ditto exceeding 7.5m but not exceeding 9.0metres deep	7.5	CM		
I	<u>Extra over</u> soft rock excavation	5	CM		
	<u>Disposal</u>				
J	Load surplus excavated material and cart away	57.5	CM		
PL/1	<i>Carried to collection.</i>				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Filling</u>				
A	Return, fill in and ram selected excavated material around foundations	6	CM		
	<u>Hardcore as described</u>				
B	300mm thick layer of imported hardcore filling including levelling and consolidating in 150mm layers	3.5	CM		
	<u>Blinding</u>				
C	50mm Thick quarry dust blinding to the surface of hardcore rolled smooth to receive polythene sheeting (s.m)	11	SM		
	<u>Insecticide treatment</u>				
D	TERMIDOR or other equal and approved insecticide treatment prepared and applied according to the manufacture's printed instructions.	11	SM		
	<u>Damp proof membrane</u>				
E	500mm gauge Polythene or other equal and approved plastic sheet damp proof membrane laid over blinding (measured nett-allow for laps)	11	SM		
	<u>In-situ concrete work</u>				
	<u>Mass concrete (1:3:6/38-38mm aggregate)</u>				
F	50mm thick Thick blinding under foundations	9	SM		
	<u>Vibrated reinforced concrete (1:2:4/20-20mm aggregate) as described in:</u>				
G	Strip foundations	1.5	CM		
H	150mm thick ground floor slab	14	SM		
	<u>Steel Reinforcement</u>				
	<u>Supply and fix bars reinforcement including bending ,hooks tyingwire ,cutting spacers and supporting all in position as described.</u>				
	<u>High tensile square twisted bars to B.S 4461</u>				
I	10mm Diameter	120	KG		
PL/2	<i>Carried to collection.</i>				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Mesh reinforcement</u>				
	<u>Fabric; B.S.4483</u>				
A	Fabric mesh reinforcement to B.S 4483 ref:A142 including laps tyingwire and spacer blocks complete(measured nett-for laps)	0	SM		
	<u>Sawn formwork as described to:-</u>				
B	Sides of concrete foundation strip	0	SM		
C	Edges of floor slab;75 to150mm high	15	LM		
D	Soffites of floor slab over pit latrine	4	SM		
E	Extra over floor slab for weathered edges	4	LM		
F	Form hole through floor slab size 330x139mm(extremr)for latrine	3	NO		
	<u>Foundation Walling</u>				
G	Standard brick walling with a minimum of 7.0 N/mm2 average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval; reinforced with 20 gauge hoop iron at alternate sections	14	SM		
	<u>Plinths area finishes</u>				
H	12mm thick cement and sand (1;3)wood float render to plinth area.	14	SM		
I	Prepare and apply three coats black bituminous paint to rendered area	14	SM		
PL/3	CARRIED TO SUMMARY				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>WALLING</u>				
	<u>EXTERNAL WALLING</u>				
	Standard brick walling with a minimum of 7.0 N/mm ² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval; reinforced with 20 gauge hoop iron at alternate sections				
A	150mm thick reinforced in every third course	28	SM		
	<u>Horizontal damp proof course : one layer of -ply bituminous felt or other equal and approved (measured nett-allow for laps)</u>				
B	150mm wide levelled and bedded in cement and sand(1:3) mortar under walls.	18	LM		
	<u>INTERNAL WALLING</u>				
	Standard brick walling with a minimum of 7.0 N/mm ² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval; reinforced with 20 gauge hoop iron at alternate sections				
C	150mm thick reinforced in every third course	10	SM		
	<u>Horizontal damp proof course : one layer of -ply bituminous felt or other equal and approved (measured nett-allow for laps)</u>				
D	150mm wide levelled and bedded in cement and sand(1:3) mortar under walls.	6	LM		
E	100mm diameter waste pipe with apron cover	1	NO		
PL/4	<i>CARRIED TO COLLECTION WALLING</i>				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ROOF</u>				
A	Gauge 30 galvanized pre-painted iron sheet roof covering with 100mm side and 150mm end labs	16	SM		
B	Form hole through ditto for 150mm diameter vent pipe and make good after fixing	3	NO		
	<u>Sawn Celcured blue gum in:</u>				
C	100x50mm wall plate	12	LM		
D	75x50mm purlins fixed to wall plate	15	LM		
E	38x200mm fascia and barge boards	6	LM		
PL/5	TOTAL CARRIED TO COLLECTION				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>DOORS AND OPENINGS</u>				
A	50mm thicking framed ledged and braced door size 810x205mm consisting of 150mmx25mm bottom and middle rail 100mmx25mm top rail, stiles and braces and 100mmx25mm tongued and grooved boarding including all iron mongery <i>Wrot cypress</i>	3	NO		
B	100x50mm door frame	3	No.		
C	approved quality fly-proof wire gauge fixed to frames	1	SM		
PL/6	<i>Carried to Summary</i>				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>FINISHES</u>				
	<i>FINISHES</i>				
	<u>Floor</u>				
A	25mm thick Colored cement and sand (1:4) screed trowelled smooth	11	SM		
B	20x100mm cement and sand(1:4)skirting	11	LM		
	<u>Wall finishes</u>				
C	12mm thick cement and sand (1:3)plaster to walls internally	68	SM		
PL7	<i>Carried to Summary</i>				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>PAINTING</u>				
A	Prepare and apply three coats of gloss paint on plastered walls internally	68	SM		
B	Prime backs of wood before fixing not exceeding 100mm girth	16	LM		
	Knot prime stop and prepare and apply one under coat and two finishing coats of gross oil paint to:				
C	General surfaces:timber doors	12	SM		
D	Ditto over 200mm but not exceeding 300mm girth	27	LM		
PL/8	<i>Carried to summary</i>				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUMMARY</u>				
A	From Page PL/1				
B	From Page PL/2				
C	From Page PL/3				
D	From Page PL/4				
E	From Page PL/5				
F	From Page PL/6				
G	From Page PL/7				
H	From Page PL/8				
PL/9	TOTAL FOR PIT LATRINE GRAND SUMMARY				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>BILL NO. 4</u>				
	<u>EXTERNAL WORKS</u>				
	<u>Excavations</u>				
A	Excavate average 200mm deep to remove vegetable top soil, shrubs, roots and cart away from site	300	m2		
B	Excavate 200mm starting from stripped level and cart away	300	m2		
	<u>Subgrade/Formation Level</u>				
C	Roll and compact subgrade to achieve 95% modified proctors MDD including grading to falls and crossfalls	300	m2		
	<u>Imported filling material to raise levels</u>				
D	Supply and lay gravel/murram under driveway & parking areas deposited, spread, well watered, rolled and compacted in layers not exceeding 150mm thick to achieve 95% MDD to Engineer's approval	60	m3		
	<u>Sub-base and surface treatment</u>				
E	150mm Thick handpacked hardcore laid at a slope of 1.25% well compacted to Engineer's approval	300	m2		
F	50mm thick crusher run/murram seal laid on compacted hadcore surface to receive cabro blocks	300	m2		
G	60mm Thick heavy duty 32N/mm2 concrete paving blocks laid on 50mm quarry dust or equivalent blinding and compacted by surface vibration	300	m2		
	<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>				
H	150x125mm splayed submerged (flush) kerb laid on and including 250x100mm concrete (1:3:6) bed and 100x100mm haunching behind	55	m		
I	Ditto but curved to various radii	20	m		
J	150x125mm splayed semi barrier kerb laid on and including 200x100mm concrete (1:3:6) bed and 200x100mm haunching behind	50	m		
K	Ditto but curved to various radii	60	m		
L	shallow drain jointed to the road kerb by 40mm thick mortar	50	m		
	TOTAL FOR EXTERNAL WORKS CARRIED TO GRAND SUMMARY				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	BILL NO.5				
	<u>PROPOSED CHAIN LINK FENCE AND GATES</u>				
	<u>ELEMENT NO.1</u>				
	<u>SUB-STRUCTURES(ALL PROVISIONAL)</u>				
	<u>Site clearance</u>				
A	Clear the site off all bush scrub undergrowth and small trees grub up roots and cart away or burn all arising	215	SM		
	<u>Excavation and earthwork</u>				
B	Excavate for reinforced Precast concrete post 525 X525X600mm depth.	17	CM		
C	Load surplus excavated material and spread as directed	17	CM		
	<u>Filling</u>				
D	Return, fill in and ram selected excavated material around foundations		CM		
	<u>Vibrated plain concrete (1:2:4/20-20mm aggregate) as described in:</u>				
E	plain concrete 1.2.4(20mm) 500mm depth for concrete post	16	CM		
F	125x125mm diameter x 3000mm high precast concrete post and with 100x100mm tapered end spaced at 2500mm center to center	90	NO		
G	Extra over for straining precast post supported by 2 No raking strut size 100mmx100mmx2600mm with top and bolted to fence with and including 12mm dia galvanised steel bolt	45	NO		
H	Barbed wire gauge 12 1/2G three strands including fixing galvanized Chain link wire diameter 3mm diameter mesh	645	LM		
J	50x50mm 2400mm high fixed on precast concrete posts The whole stretched tight	516	SM		
K	High tensile galvanised wire 50 Kg per roll 3mm diameter 4No.straining wires at 500mm c/c fixed appropriately	860	LM		
L	plain concrete 1.2.4(20mm) for anchorage of chain link mesh to the ground	215	LM		
	Carried to Collection				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Entrance Gates</u>				
	<u>Mild Steel</u> Comprising 50 x 50 x 4mm thick hollow section top, bottom and intermediate rails and stiles; ends capped; 25 x 25 x 4mm thick hollow section verticle bars with capped ends welded top, bottom and intermediate rails at 150mm centre; one and a half pairs per leaf of purpose-made hinges welded to gate leaf and gate post (m/s) 2No. purpose-made slide bolts complete with padlock hasp welded to gate; all welding ground to smooth finish.				
A	Gate overall size 4000mm wide x 2400mm high; all constructed as per architect's details complete pedestrian gate with all locking and hanging accessories	1	No.		
B	Separate 900x2400 pedestrian gate	1	No.		
C	Mild steel gate-posts; 100 x 100 x 4mm thick; 3000mm high mild steel RHS; 700mm deep into ground; including excavating and bedding ends of posts in concrete class 1:3:6 and backfilling with suitable excavated material well compacted.	2	No		
D	3 NO Reinforced concrete columns for the gates size 300 x300 including excavations formwork steel, fixing,concrete works, piping for gate lights,plastering ,painting and copying.	1	Item		
	<u>Prepare, prime and paint two undercoats and two gloss finishing coat of oil paint on general surfaces of metalwork externally.</u>				
E	Gate posts and gate	48	sm		
	TOTAL CARRIED TO COLLECTION FROM ABOVE				
	<u>COLLECTION</u> Brought forward from page 47 Brought forward from above				
	TOTAL FOR FENCING & GATE CARRIED TO GRAND SUMMARY				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

Item No	Descriptions	Unit	Qty	Rate (Kshs)	Amount
	BILL NO. 6				
	<u>SCHEDULE 1:</u>				
1.1.0	LIGHTING POINTS AND FITTINGS				
	Supply, install, test, commission and maintain:-				
1.1.1	Replace warnout lighting points wired in 3x1.5 Sq.mm PVC insulated single core (SC) copper wires as East African cables or equal and approved drawn in 20mm diameter. HG PVC conduit concealed in walls and floor with all accessories but excluding switch and fitting;				
	i) one way switched	No.	10		
	ii) intermediate switched	No.	2		
	iii)two way switched	No.	9		
	iv)unswitched	No.	10		
1.1.2	Instal and fix all/new 10A Plate switches as MK Logic Plus,Clipsal, BG,Crabtree or approved equivalent as follows:-				
	i)1 Gang 1 Way/2 Way	No.	16		
	ii)1Gang intermediate	No.	2		
	iii)3Gang 1 Way/2 Way	No.	2		
	iii)1Gang 1 Way/2 Way waterproof	No.	0		
1.2	<u>LIGHTING FITTINGS</u>				
	Instal all Lighting fittings complete with all accessories including lamps of appropriate wattage and colour rendering and fixing materials as follows;				
1.2.1	1x36w 1200mm , 3,120 lm , 4000k LED Batten Luminaire as Thorn LED Batten specified.	No.	3		
1.2.2	2x36w 1200mm , 3,120 lm , 4000k Emergence LED Batten Luminaire as Thorn LED Batten specified.	No.	3		
1.2.3	WC waterproof light- surface mounted downlight LED 12W White- 2250-300k-CRI 80.	No.	6		
1.2.4	Self -contained single sided exit sign with 8W fluorescent lamp for non-maintained emergency lighting for 3 hour duration as Thorn FFX 3 or approved equivalent.	No.	5		
1.2.5	1x36w 600 mm surface mounted mirror strip fluorescent fitting, HPF complete with diffuser as THORN or approved equivalent.	No.	3		
1.2.6	30W Oval Bulkhead light fitting as philips or approved equivalent (TYPE BH)	No.	6		
1.2.7	600MM x 600MM 40 WATTS SLIM LED PANEL WITH POLYCARBONATE DIFFUSER AND FIXED DRIVER, 50,000HRS AS PHILIPS SMARTBRIGHT OR APPROVED EQUIVALENT.	No.	15		
1.2.8	16W 2D IP65 RATED CIRCULAR SURFACE LUMINAIRE FITTING WITH OPAL DIFFUSEROR APPROVED EQUIVALENT.	No.	13		
1.2.9	A photocell unit to fit 70-75 Lux switch on level and 1.5 Maximum diffrential	No.	1		
TOTAL CARRIED FORWARD TO SUMMARY					

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

Item No	Descriptions	Unit	Qty	Rate (Kshs)	Amount
	<u>SCHEDULE 2:</u>				
2	<u>SMALL POWER</u> Supply, install, test, commission and maintain:-				
2.1.	13 Amp twin ring socket outlet points wired 3 x 2.5mm ² PVC SC copper cables as East African or equal and approved ring main cct drawn in 25mm HG PVC conduits concealed in walls and floors and metal trunking complete with all accessories but excluding the socket outlet plate - ring main circuit.	No.	31		
2.2	Instal 13A switched twin outlet white moulded case socket outlet plates as MK Clipsal, BG, Crabtree or an approved equivalent.	No.	31		
2.3	Outlet for TV point concealed in 25mm dia. HG PVC conduit linked telecomm. Discase complete with square PVC box and Coaxial draw wire and tv point plate.	No.	2		
2.4	Hand drier and Instant shower power points comprising wiring in 3x4mm ² PVC/SC/CU cables drawn in 25mm diameter HG/PVC conduit complete with all necessary accessories	No.	3		
2.5	20A DP Control Switch marked 'As Per Application' with neon light and cord outlet for item above as MK, Crabtree or approved equivalent for Items above .	No.	3		
2.6	Telephone/Data outlet point comprising of concealed 20 mm dia. HG PVC conduits plus 1.5 mm ² single core draw wire.	No.	30		
TOTAL CARRIED FORWARD TO SUMMARY					

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

Item No	Descriptions	Unit	Qty	Rate (Kshs)	Amount
	<u>SCHEDULE 3:</u>				
3	<u>FIRE DETECTION AND ALARM SYSTEM</u>				
3.1	Manual call point outlet comprising wiring in 1.5 sq mm 2 core fire retardant cable drawn in 25 mm diameter Heavy duty PVC conduits concealed in the walls, floors and suspended ceiling from the Main Fire Alarm Control Panel.	No.	5		
3.2	Detector point outlet comprising wiring in 1.5 sq. mm 2 core fire retardant cable drawn in 25 mm diameter Heavy Duty PVC conduits concealed in the walls, floors and ceiling from the Main Fire Alarm Control Panel	No.	10		
3.3	Install Main Fire Alarm panel as MENVIER MAH820 or Equal and approved Equivalent.	No.	1		
3.4	Install Addressable fire detector outlet as MENVIER or Equal and approved.	No.	10		
3.5	Install manual fire break glass outlet as MENVIER or Equal and approved.	No.	5		
TOTAL CARRIED FORWARD TO SUMMARY					

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

Item No	Descriptions	Unit	Qty	Rate (Kshs)	Amount
	SCHEDULE 4: SUB-MAINS DISTRIBUTION				
4.1	6-way Consumer unit as Havells, Carl & Gilberts, MEM or approved equivalent complete with 100A DP switch and all accessories including lockable cover and the following: i)10A SP MCB ii)20A SP MCB iii)32A SP MCB iii)45A SP MCB	Item No. No. No. No.	1 2 2 1 1		
4.3	Earthing to IEE Standards (4 Fit)for items above	Sum	2		
4.4	3 core Sub-mains cables comprising wiring 10.0 mm2 EA cables drawn in 32mm PVC conduit from the KPLC Meter box to the Consumer Units above.	LM	35		
	TOTAL CARRIED FORWARD TO SUMMARY				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

Item No	Descriptions	Unit	Qty	Rate (Kshs)	Amount
	<u>SCHEDULE 5:</u>				
	LIGHTNING PROTECTION				
	Supply, install, test, commission and maintain:-				
5.1	Air termination Type Furse RA225 + RA600 pure copper type arrester fixed to ridge saddle Furse SD155 bolted to roof with water tight rubber washers.	No.	2		
5.2	25mm x 3mm pure copper tape TC030 on tape clip Furse CP210 fixed at 750mm intervals to approved detail.	LM	35		
5.3	25mm ² PVC insulated pure copper conductor enclosed in HG 38mm dia. concealed PVC conduit between copper tape and test joint.	LM	10		
5.4	Lugs including fixing bolts to roof conductors.	No.	2		
5.5	25mm Test clamps Furse CN305.	No.	2		
5.6	Rod to earth conductors clamps Furse CR520.	No.	2		
5.7	5ft pure Copper Earth rods Furse RC015 with driving sud, furse ST015 and spike furse SP015 driven into ground.	No.	2		
5.8	50mm ² ECC in 1 x 25mm dia PVC conduit between the test clamp and the earth rods.	LM	12		
5.9					
5.10	125 x 100 x 50mm deep boxes with cover and marked safety Earth installed in RC columns to approved detail.	No.	2		
5.11	Test and report complete the installation for compliance with KS04503 1995 and BS code of Practice BS6651.	Item	1		
5.12	Provide provisional sum of One Hundred and Twenty Thousand for HP Zbook firefly 15 G7 Laptop for the County Electrical Engineer	Item	1		
TOTAL CARRIED FORWARD TO SUMMARY					

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

Item No	Descriptions	Unit	Qty	Rate (Kshs)	Amount
	<u>PRICE SUMMARY PAGE</u>				
A	Bills of Quantities <u>Total Brought Forward From:-</u> <u>SCHEDULE 1: LIGHTING POINTS AND FITTINGS</u> <u>SCHEDULE 2: SMALL POWER</u> <u>SCHEDULE 3: FIRE DETECTION AND ALARM SYSTEM</u> <u>SCHEDULE 4: SUB-MAINS DISTRIBUTION</u> <u>SCHEDULE 5: LIGHTNING PROTECTION</u>				
B	Sub Total 1				
	TOTAL CARRIED FORWARD TO FORM OF TENDER				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

BILL NO. 7					
SANITARY FITTING - SUPPLY AND INSTALL					
Item	Description	Unit	Qty	Rate	Amount
1.0	Supply only of the following appliances including their support brackets , and fixing screws e.t.c/ Sanitary fitting, including all accessories.				
A	Entice, close coupled low level wash-down W.C. suite with horizontal outlet, 6L cistern with high pressure ball-valve and international overflow fittings all complete, or equal and approved	NO	3		
	Kitchen Sink				
B	Single Bowl Single drain kitchen sink made from 20 SWG (1.0mm) thick stainless steel of size 1500 X 600 mm, bowl size 420mm X 355mm X 150mm complete with overflow, waste fittings, plugs, chain stays and 40mm diameter plastic bottle trap with 75mm deep seal complete with All connections	NO	1		
C	Stainless steel premium single bowl sink SS304(500×500mm), 180mm Bowl depth.0.8mm thickness satin polish	NO	1		
D	Combined stainless steel sluice sink slope Hopper,1600mm×600mm×850mm with cistern,medical sluice sink or equal and approved	NO	1		
E	Stainless Steel grade 304 scrub sink size 1200×350×600mm×580mm elbowaction taps and fittings	NO	1		
F	Wash hand basin as size 580x 485mm, countertop with Persuation Pillar taps or equal and approved	NO	5		
G	40cm shower arm and 8inch square shower rose head	NO	2		
H	plastic tissue holder(small tissue)	NO	3		
I	Plate glass mirror with bevel edges with fixing screws and cups. Size 1200 x 450mm.	NO	5		
J	White vitreous China semi recessed soap and sponge tray size 305x165mm	NO	2		
K	Chrome plated towel rail, size 20mm x 650mm long as Twyford Ref. No. IC 6854CP.	NO	1		
L	15mm heavy duty flex connector 350mm long with brass back nuts (Italy or Spain type) for connecting to tap fitting	NO	11		
M	15mm angle (service) valve for wc, sink and whb chrome plated	NO	8		
	Hand Driers				
P	Auto Hand Dryer satin chrome 1.4KW: operating on an infrared automatic sensing system with safety cut out complete with plastic ,rawl plugs and fixing screws.	NO	4		
	Soap Dispenser				
Q	1Litre Automatic soap/sanitizer dispenser	NO	6		
	Total for Element No. 1A Carried to Summary				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

Item	Description	Unit	Qty	Rate	Amount
2.0	WATER SUPPLY INSTALLATION				
2.1	Supply, install, test and commission the following: PIPE WORK AND FITTINGS Prices for pipe work shall include the cost for couplings, sockets, nipples, fixing brackets and plugs, (timber plugs not accepted) and jointing to fittings e.t.c., including jointing tapes, compounds e.t.c, together with fixing pipe sleeves and the necessary builders work, all as required in the pipe work installation.				
2.2	WATER SUPPLY SYSTEM Main supply, cold and hot water distribution and over-flow. PP-R (Polypropylene Random Co-polymer) pipes and fittings to DIN 8078 and DIN 16962 with polyfusion welded joints to DVS 2207 to approval. Cold-water pipe work (above and underground)				
A	50mm PP-R pipe (PN-20) fixed to wall surface or in wall chase	LM	0		
B	40mm ditto	LM	0		
C	32mm ditto	LM	50		
D	25mm ditto	LM	65		
2.3	Elbows (90 ⁰ or 45 ⁰)				
A	25mm ditto	NO	30		
B	32mm ditto	NO	25		
C	40mm ditto	NO	0		
D	50mm ditto	NO	0		
E	25mm Tees	NO	25		
F	32mm ditto	NO	12		
G	40mm ditto	NO	0		
H	32mm x 25mm ditto reducer	NO	8		
	Total C/F TO collection page				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

Item	Description	Unit	Qty	Rate	Amount
2.4	Transition Fittings (PP-R to BSP threaded fittings)				
A	50x32mm elbow 90 ⁰ female or male	NO	0		
B	32x3/4mm Adoptor	NO	5		
C	40x1 1/4 mm Male	NO	0		
2.5	Valves				
A	50mm dia. full way gate valve, screws down type with non-rising spindle, with females schemed and joining to steel pipes (unit as regular equal approved)	NO	0		
B	32mm ditto	NO	2		
C	32mm dia. bronze non-return valve as pegler (or equal and approved).	NO	1		
D	32mm dia. brass strainer as pegler or equal and approved	No	1		
E	25mm dia. high pressure ball valve with heavy gauge plastic float valve	NO	2		
2.6	<u>Excavation backfilling of trenches</u>				
A	Excavate pipe trench in murrum, clay, red or black cotton soil for trench not exceeding 800mm deep and avarage 600mmdeep, part return, fill and ram and remainder of the soil cart away and make good.	LM	120		
	Total C/F collection page				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

Item	Description	Unit	Qty	Rate	Amount
2.7	<u>Water Tanks & Hot water cylinders</u>				
A	50mm diameter inlet/outlet/washout connection sockets with 10,000l Water Tanks		1		
2.8	<u>Water Booster Pump</u>				
A	Booster pump set (pedrollo) ,0.75HP, 40m Head.Single phase, 50Hz or equal and approved.	Set	1		
B	Supply and Install Electric control panel to match above pump set, for fully automatic operation of the pump susyem.	NO	1		
C	Supply and Install level controllers, float switch type for starting/stopping of the booster pump, one to the low level cut-out and two at the high level tank, including all the necessary wiring.	ITEM	3		
2.9	<u>TESTING AND STERILIZATION</u>				
D	Allow for flow and pressure testing the whole of the water reticulation system during the works process and on completion to the satisfaction of the Engineer. (Pressure test records to be kept on site with a copy given to the Engineer for approval and record.)	ITEM	1		
	Total C/F to Collection Page				
	<u>COLLECTION PAGE</u> BILL 2: WATER SUPPLY INSTALLATION Brought forward from page No. 56 Brought forward from page No. 57 Brought forward from page No. 58				
	Total for Element No. 2 Carried to Summary page				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

Item	Description	Unit	Qty	Rate	Amount
3.0	FOUL & WASTE WATER DRAINAGE Supply, install, test and commission the following:				
3.1	PIPE WORK AND FITTINGS General Notes: Prices for pipe work shall include the cost for couplings connectors, fixing brackets, clips, holder bats and jointing to fittings, appliances e.t.c, together with wall chasing and holes cutting or fixing pipe sleeves all as required in the pipe work installation. Note for u.P.V.C Pipe work All U.P.V.C. connectors, bends, branches, e.t.c. are to be formed strictly according to the manufacturer's instructions. u.P.V.C and MuPVC Waste and ventilating pipes and fittings to B.S No. 5255, Heavy gauge.				
A	40mm pipe	LM	45		
B	50mm pipe	LM	10		
C	75mm pipe	LM	45		
D	100mm ditto medium duty (Brown) UPVC pipe	LM	75		
E	160mm ditto medium duty (Brown) UPVC pipe	LM	10		
3.2	<u>Extra over the UPVC Pipe work for the following fittings:</u>				
A	40mm sweep bend 87degrees	NO	3		
B	100mm ditto	NO	5		
C	75MM ditto	NO	5		
D	100mm sweep Tee	NO	2		
E	40mm sweep	NO	9		
F	40mm ditto sweep bend 45degrees	NO	5		
G	100mm ditto	NO	4		
	Total C/F collection page				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

Item	Description	Unit	Qty	Rate	Amount
3.3	EXTRA OVER THE Upvc SOIL PIPE WORK FOR THE FOLLOWING FITTINGS:				
A	100mm Single Branch Bend	NO	3		
B	40mm Boss Connector	NO	3		
C	100mm access cap (RE)	NO	4		
D	100mm weathering apron	NO	2		
E	100mm vent cowl	NO	5		
3.4	uPVC Underground drainage pipes & fittings, Heavy gauge to BS 4660 Class 41,(Golden Brown in colour) with Rubber -ring Joints.				
A	100mm Long Radius Bend	No	3		
3.5	Manholes and Chambers				
A	Gully trap chamber size 350x350x600mm deep, in masonry walling, housing a uPVC gully trap with drain pipe, 50mm thick P.C.C cover with vent -hole etc.	No	3		
B	Man-hole or inspection chambers complete with covers and frames	No	8		
3.6	<u>Excavation backfilling of trenches</u>				
A	Excavate pipe trench in murrum, clay, red or black cotton soil for trench not exeeding 800mm deep and avarage 600mmdeep, part return, fill and ram and remainder of the soil cart away and make good.	LM	75		
	Total C/F to collection page				
	COLLECTION PAGE				
	Element 3: FOUL & WASTE WATER DRAINAGE				
	Bought forward from page No 59				
	Bought forward from page No 60				
	Total Carried to Summary				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

Item	Description	Unit	Qty	Rate	Amount
4.0	<u>RAIN WATER DRAINAGE INSTALLATION</u> Supply, install, test and commission the following				
4.1	PIPE WORK AND FITTINGS <u>General Notes :</u> Prices for pipe work shall include the cost for couplings, connectors and jointing to fittings etc and fixing brackets all as required in the pipe work installation together with providing and fixing pipe sleeves in structural concrete work as necessary.				
4.2	u.P.V.C Rain water Drainage Pipes and Fittings To B.S. No. 5255 and B.S. No. 4514 Grey in colour for above ground and Buried Pipes To B.S. 4660 and ISO Class 41, Golden Brown in Colour with Rubber joints				
B	160mm drain pipe brown and laid on underground	LM	100		
	Element No 4. Carried To Summary				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

Item	Description	Unit	Qty	Rate	Amount
5	FIRE FIGHTING				
A	9 litres Foam type (AFFF Spray Gas Cartridge) fire extinguisher in metal casing and fixed to wall.	NO	1		
B	9 Kg Dry powder With CO2 propellant extinguisher	NO	1		
C	9L CO2 Water type FE	NO	1		
D	Manual fire Alarm	NO	1		
E	Sighnage on directions on what to do incase of fire.	ITEM	1		
Element No 5. Carried To Summary					

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

Item	Description	Unit	Qty	Rate	Amount
	SUMMARY OF TENDER				
1	SANITARY FITTINGS				
2	WATER SUPPLY INSTALLATION				
3	FOUL WASTE WATER DRAINAGE INSTALLATION				
4	RAIN WATER DRAINAGE INSTALLATION				
5	FIRE FIGHTING				
	TOTAL FOR MBS				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	BILL NO.8				
	<u>P.C& PROVISIONAL SUMS</u>				
	<i>Placenta and Ash pit</i>				
A	Allow a provisional sum of kenya shillings Eighty thousand for placenta and Ash pits				
	<i>Burning Chamber</i>				
B	Allow a provisional sum of kenya shillings Eighty Thousand for 1500x1500 burning chamber as per Architect's detail				
	<i>Signage</i>				
C	Allow a provisional sum of kenya shillings Ten thousand for signage as shall be directed by Project Manager				
	<i>Guard House</i>				
D	Allow a provisional sum of kenya shillings Fifty thousand for a masonry build guard House as per Architect's details				
	<i>Suggestion Box</i>				
E	Allow a provisional sum of kenya shillings Five thousand for suggestion box				
	<i>Contingencies</i>				
F	Allow a provisional sum of kenya shillings One Hundred thousand for Contingencies				
PS	<i>TOTAL FOR PROVISIONAL SUMS CARRIED TO GRAND SUMMARY</i>				

CONSTRUCTION OF NYANGOSO MATERNITY WARDS

<u>PROPOSED NYANGOSO HEALTH CENTER</u>			
<u>MATERNITY WARDS</u>			
<u>GRAND SUMMARY</u>			
<u>Bill</u>	<u>Title</u>	<u>Page No.</u>	<u>Amount (Kshs)</u>
1	Preliminaries		
	i) General Preliminaries	12	
	ii) Particular Preliminaries	20	
2	Builder's Work	36	
3	Pit Latrine	45	
4	External Works	46	
5	Fencing	48	
6	Electrical Works	54	
7	Mechanical Works	63	
8	P.C. and Provisional Sums	64	
AMOUNT CARRIED TO FORM OF TENDER		SHS.	
<u>FINAL SUMMARY</u>			

NAME OF TENDERER

ADDRESS.....

SIGNATURE.....STAMP.....

DATE.....

NAME OF WITNESS.....

ADDRESS.....

SIGNATURE.....

DATE.....