



**COUNTY GOVERNMENT OF KIAMBU
DEPARTMENT OF ROADS, TRANSPORT,
PUBLIC WORKS AND UTILITIES
(DIRECTORATE OF PUBLIC WORKS)**

**PROPOSED
CONSTRUCTION OF A PUBLIC TOILET IN IKINU -
KIAMBU COUNTY**

BILLS OF QUANTITIES

W.P ITEM NO.....

COUNTY WORKS OFFICER
(DIRECTORATE OF PUBLIC WORKS)
P.O. BOX 189 -00900
KIAMBU

COUNTY ARCHITECT
(DIRECTORATE OF PUBLIC WORKS)
P.O. BOX 189 -00900
KIAMBU

COUNTY STRUCTURAL ENGINEER
(DIRECTORATE OF PUBLIC WORKS)
P.O. BOX 189 -00900
KIAMBU

COUNTY QUANTITY SURVEYOR
(DIRECTORATE OF PUBLIC WORKS)
P.O. BOX 189 -00900
KIAMBU

AUG ,2025

ITEM	DESCRIPTION	AMOUNT
A	<p>SECTION NO. 1 PRELIMINARIES BILL NO. 1 PARTICULAR PRELIMINARIES PRICING ITEMS OF PRELIMINARIES</p> <p>Prices SHALL BE INSERTED against items of preliminaries in the tenderers priced Bills of Quantities. Please note that failure to price any item of general / particular preliminaries will be construed to mean that the tenderer has allowed for its costs elsewhere or wishes to provide for that item free of charge.</p>	
	<p>B</p> <p>Prices SHALL BE INSERTED against items of preliminaries in the tenderers priced Bills of Quantities. Please note that failure to price any item of general / particular preliminaries will be construed to mean that the tenderer has allowed for its costs elsewhere or wishes to provide for that item free of charge.</p>	
	<p>C</p> <p>FIRM PRICE CONTRACT</p> <p>This is a firm price 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 the contract.</p>	
	<p>D</p> <p>SCOPE OF CONTRACT</p> <p>The works to be carried out under this contract comprise CONSTRUCTION/ REHABILITATION/ REFURBISHMENTS (as itemised in the BQ's)</p>	
	<p>E</p> <p>FLOOR AREA</p> <p>The total gross approximate floor area is N/A square metres. The total gross floor area is given without warranty but for guidance only.</p>	
	<p>F</p> <p>MEASUREMENTS</p> <p>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 document shall immediately be referred to the Project Manager.</p>	
	TO COLLECTION	

Section No. 1

Bill No. 1 PARTICULAR PRELIMINARIES

Prepared by;

CWO; Kiambu County

ITEM	DESCRIPTION	AMOUNT
A	<p>LOCATION OF SITE</p> <p>The site for works is located within; as indicated on the contract appendix</p> <p>The tenderer shall be deemed to have visited the site and familiarised himself with all site conditions prior to submission of tenders.</p> <p>No claims arising from the tenderers failure to do so will be entertained.</p>	
B	<p>EXISTING BUILDING SERVICES</p> <p>Special precautions shall be required throughout the contract period to avoid damage to the existing cables, drains and other services.</p> <p>The Contractor shall allow for making good any damage arising from his actions during execution of this contract at his own expense.</p>	
C	<p>WORKING CONDITIONS</p> <p>The Contractor shall allow in his rates for any interference that he may encounter in the course of execution 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.</p>	
D	<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>	
	TO COLLECTION	

Section No. 1

Bill No. 1 PARTICULAR PRELIMINARIES

Prepared by;

CWO; Kiambu County

ITEM	DESCRIPTION	AMOUNT
A	<p>MATERIALS FROM DEMOLITIONS</p> <p>Any materials arising from demolitions and not re-used shall become remain the property of the school. The Contractor shall allow in his rates the cost of assembling and keeping them in the school premises.</p>	
B	<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>	
C	<p>PARTICULAR INSERTIONS TO BE MADE IN APPENDIX TO CONTRACT AGREEMENT</p> <ol style="list-style-type: none"> 1. Period of Final measurements 3Months from practical completion 2. Defects liability Period 6Months from practical completion 3. Date for Possession To be agreed with Project Manager 4. Date for Completion (as indicated on the contract appendix) 5. Liquidated and Ascertained Damages (as indicated on the contract appendix) 6. Period of issuing Interim Certificates Monthly 7. Percentage Certified value retained 10% 8. Limit of Retention Fund 10% of Contract Sum 	
D	<p>Allow a provisional sum of Kenya Shillings Seventy Five Thousand (Kshs.75,000 /=-)only for Project Management.</p>	
E	<p>Allow for contractor's profit and overheads.....%</p>	
	TO COLLECTION	

Section No. 1

Bill No. 1 PARTICULAR PRELIMINARIES

Prepared by;

CWO; Kiambu County

ITEM	DESCRIPTION	AMOUNT
A	<p>AMENDMENTS TO TENDERING INSTRUCTIONS</p> <p>a) Clause 3.6 of the Instructions to Tenderers has been amended to read; Tenders shall remain valid for a period of One Hundred and Twenty(120) days from the date of Tender Opening, and not Ninety (90) days. All tenderers are advised to note this amendment when filling the Form of Tender.</p> <p>b) Clause 3.8 of the Instructions to Tenderers will hence be qualified and interpreted to mean; "Bid Bond/Tender Security, which must be from an established and approved institution, shall remain valid for a period of One Hundred and Fifty (150) days from the date of Tender Opening", i.e, it is still Thirty (30) days beyond the Tender Validity Period.</p>	
	TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
	Section No. 1 Bill No. 1 PARTICULAR PRELIMINARIES COLLECTION Total Brought Forward from Page No.	Amount Kshs -PP/1- -PP/2- -PP/3- -PP/4-
	TO GRAND SUMMARY	

	DESCRIPTION	
A	<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>	
B	<p>ABBREVIATIONS</p> <p>Throughout these Bills, units of measurement and terms are abbreviated and shall be interpreted as follows:-</p> <p>m³/C.M. Shall mean cubic metre</p> <p>m²/S.M. Shall mean square metre</p> <p>m/L.M. Shall mean linear metre</p> <p>mm/MM Shall mean Millimetre</p> <p>Kg. Shall mean Kilogramme</p> <p>No. Shall mean Number</p> <p>Prs. Shall mean Pairs</p> <p>B.S. Shall mean the British Standard Specification Published by the British Standards Institution, 2 Park Street, London W.1 England.</p> <p>Ditto Shall mean the whole of the preceding description except as qualified in the description in which it occurs.</p> <p>m.s. Shall mean measured separately.</p> <p>a.b.d Shall mean as before described.</p> <p>P.M. Shall mean Project Manager</p>	
		TO COLLECTION

Section No.1

Bill No.2GENERAL PRELIMINARIES

Prepared by;

CWO; Kiambu County

GP/6

DESCRIPTION		
A	<p>The Employer is:</p> <p>.....</p> <p>P.O. BOX</p> <p>.....</p>	
B	<p>PROJECT MANAGER</p> <p>The term "P.M." wherever used in these Bills of Quantities shall be deemed to imply the Project Manager as defined in Condition 1 of the Conditions of Contract or such person or persons as may be duly authorised to represent him on behalf of the Government.</p> <p>This shall be the County Works Office, P.O. Box 189, Kiambu</p>	
C	<p>ARCHITECT</p> <p>The term "Architect" shall be deemed to mean "The P.M." as defined above</p>	
D	<p>QUANTITY SURVEYOR</p> <p>The term "Quantity Surveyor" shall be deemed to mean "The P.M." as defined above</p>	
E	<p>ELECTRICAL ENGINEER</p> <p>The term "Electrical Engineer" shall be deemed to mean "The P.M." as defined above</p>	
F	<p>MECHANICAL ENGINEER</p> <p>The term "Mechanical Engineer" shall be deemed to mean "The P.M." as defined above</p>	
G	<p>STRUCTURAL ENGINEER</p> <p>The term "Structural Engineer" shall be deemed to mean "The P.M." as defined above</p>	
H	<p>FORM OF CONTRACT</p> <p>The Form of Contract shall be as stipulated in the Republic of Kenya's Standard Tender Document for Procurement of Building Works(2000 Edition) included herein. The Conditions of Contract are also included herein</p>	
		TO COLLECTION

	DESCRIPTION	
<p>A</p>	<p>BOND. The Contractor shall find and submit on the Form of Tender an approved institution will be willing to be bound the Government in an amount equal to Five per cent (5 %) of the Contract amount for the due performances of the Contract up to the date of completion as certified by the PROJECT MANAGER and who will when and if called upon, sign a Bond to that effect on the relevant standard form included herein. (without the addition of any limitations) on the same day as the Contract Agreement is signed, by the Government, the Contractor shall furnish within seven days another Surety to the approval of the Government.</p>	
<p>B</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>	
<p>C</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>TO COLLECTION</p>	

	DESCRIPTION	
<p>A</p> <p>B</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>	
	TO COLLECTION	

	DESCRIPTION	
A	<p>STORAGE OF MATERIALS</p> <p>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>	
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 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 Roads, Housing and Public Works. The procedure for submitting samples of materials for testing and the method of marking for identification shall be as laid down by the PROJECT MANAGER The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub-contractors' work.</p>	
	TO COLLECTION	

	DESCRIPTION	
A	<p>GOVERNMENT ACTS REGARDING WORK PEOPLE ETC.</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.</p> <p>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 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>	
	TO COLLECTION	

	DESCRIPTION	
<p>A</p> <p>B</p> <p>C</p> <p>D</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>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>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>VISIT SITE AND EXAMINE DRAWINGS. The Contractor is recommended to examine the drawings and visit the site the location of which is described in the Particular Preliminaries hereof. He shall be deemed to have acquainted himself therewith as to its nature, position, means of access or any other matter which, may affect his tender. No claim arising from his failure to comply with this recommendation will be considered.</p>	
	TO COLLECTION	

	DESCRIPTION	
A	<p>ACCESS TO SITE AND TEMPORARY ROADS.</p> <p>Means of access to the Site shall be agreed with the PROJECT MANAGER commencement of the work and Contractor must allow for building any necessary temporary access roads (approximately 70 metres long) 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>The Contractor should also allow for relocating existing fence (approx. 30 metres long).</p>	
	TO COLLECTION	

	DESCRIPTION	
<p>A</p> <p>B</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>OFFICE ETC. FOR THE PROJECT MANAGER The Contractor shall provide, erect and maintain where directed on site and afterwards dismantle the site office of the type approved by the Project Manager, complete with Furniture. He shall also provide a strong metal trunk complete with strong hasp and staple fastening and two keys. He shall provide, erect and maintain a lock-up type water or bucket closet for the sole use of the PROJECT MANAGER including making temporary connections to the drain where applicable to the satisfaction of Government and Medical Officer of Health and shall provide services of cleaner and pay all conservancy charges and keep both office and closet in a clean and sanitary condition from commencement to the completion of the works and dismantle and make good disturbed surfaces. The office and closet shall be completed before the Contractor is permitted to commence the works. The Contractor shall make available on the Site as and when required by the "PROJECT MANAGER" a modern and accurate level together with levelling staff, ranging rods and 50 metre metallic or linen tape.</p>	
	TO COLLECTION	

	DESCRIPTION	
A	<p>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</p> <p>The Contractor shall provide at his own risk and cost all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters as required at his own cost and clear away when no longer required and make good on completion to the entire satisfaction of the PROJECT MANAGER . The Contractor shall pay all charges in connection herewith. No guarantee is given or implied that sufficient water will be available from mains and the Contractor must make his own arrangements for augmenting this supply at his own cost. Nominated Sub-contractors are to be made liable for the cost of any water or electric current used and for any installation provided especially for their own use.</p>	
B	<p>SANITATION OF THE WORKS</p> <p>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>	
	TO COLLECTION	

	DESCRIPTION	
<p>A</p> <p>B</p> <p>C</p> <p>D</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>	
	TO COLLECTION	

	DESCRIPTION	
A	<p>ADJUSTMENT OF P.C. SUMS.</p> <p>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.</p> <p>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.</p> <p>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>	
B	<p>ADJUSTMENT OF PROVISIONAL SUMS.</p> <p>In the final account all Provisional Sums shall be deducted and the value of the work properly executed in respect of them upon the PROJECT MANAGER's order added to the Contract Sum. Such work shall be valued as described for Variations in Conditions No. 13 of the Conditions of Contract, but should any part of the work be executed by a Nominated Sub-Contractor, the value of such work or articles for the work to be supplied by a Nominated Supplier, the value of such work or articles shall be treated as a P.C. Sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added.</p>	
	TO COLLECTION	

	DESCRIPTION	
A	<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. 8 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>	
B	<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>	
C	<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</p>	
	TO COLLECTION	

Section No.1

Bill No.2GENERAL PRELIMINARIES

Prepared by;

CWO; Kiambu County

GP/18

	DESCRIPTION	
<p>A</p>	<p>INSURANCE The Contractor shall insure as required in Conditions Nos. 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> <p>B</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 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>	
	TO COLLECTION	

	DESCRIPTION	
A	<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>	
B	<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>	
C	<p>MATERIALS ARISING FROM EXCAVATIONS Materials of any kind obtained from the excavations shall be the property of the Government. Unless the PROJECT MANAGER directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used in the works, in substitution of materials which the Contractor would otherwise have had to supply with the written permission of the PROJECT MANAGER Should such permission be given, the Contractor shall make due allowance for the value of the materials so used at a price to be agreed.</p>	
	TO COLLECTION	

	DESCRIPTION	
<p>A</p> <p>B</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> <p>REMOVAL OF RUBBISH ETC. Removal of rubbish and debris from the Buildings and site as it accumulates and at the completion of the works and remove all plant, scaffolding and unused materials at completion.</p>	
	TO COLLECTION	

	DESCRIPTION	
A	<p>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</p>	
B	<p>FIRM PRICE CONTRACT Unless otherwise specifically stated in the Particular Preliminaries this is a firm price 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 the contract.</p>	
C	<p>GENERAL SPECIFICATION. For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Ministry of Roads and Public Works and Housing General Specification dated 1976 or any subsequent revision thereof which is issued as a separate document, and which shall be allowed in all respects unless it conflicts with the General Preliminaries, Trade Preambles or other items in these Bills of Quantities.</p>	
D	<p>TRAINING LEVY 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 Kshs. 1,000,000.00 in value.</p>	
		TO COLLECTION

	DESCRIPTION	
A	<p>MATERIALS ON SITE All materials for incorporation in the works must be stored on or adjacent to the site before payment is effected unless specifically exempted by the PROJECT MANAGER. This includes the materials of the Main Contractor, Nominated Sub-Contractors and Nominated Suppliers.</p>	
B	<p>HOARDING The Contractor shall enclose the site or part of the works under construction with a hoarding 2400 mm high consisting of gauge 30 iron sheets on 100 x 50 mm cypress timber posts firmly secured at 1800 mm centres with two 75 x 50 mm timber rails complete with 2No vehicular gates and 1No. pedestrian gate. The Contractor is in addition required to take all precautions necessary for the safe custody of the works, materials, plant, public and Employer's property on the site.</p>	
C	<p>CONTRACTOR'S SUPERINTENDENCE/SITE AGENT The Contractor shall constantly keep on the works a literate English speaking Agent or Representative, competent and experienced in the kind of work involved who shall give his whole experience in the kind of work involved and shall give his whole time to the superintendence of the works. Such Agent or Representative shall receive on behalf of the Contractor all directions and instructions from the Project Manager and such directions shall be deemed to have been given to the Contractor in accordance with the Conditions of Contract.</p>	
D	<p>COPYRIGHT The copyright of these documents is vested in County Works Office, Ministry of Public Works, Kiambu. No part of this document may be reproduced in any form or by any means without their prior permission.</p>	
		TO COLLECTION

DESCRIPTION		
	Total Brought Forward from Page No.	Kshs -GP/1- -GP/2- -GP/3- -GP/4- -GP/5- -GP/6- -GP/7- -GP/8- -GP/9- -GP/10- -GP/11- -GP/12- -GP/13- -GP/14- -GP/15- -GP/16- -GP/17- -GP/18-
	TO GRAND SUMMARY	

PROPOSED ABLUTION BLOCK -
BUILDERS WORK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 1:SUBSTRUCTURES (ALL PROVISIONAL)</u>				
	<u>Site clearance</u>				
A	Clear the site off grass, shrubs and all vegetation; cart away as directed	52	SM		
B	Excavate vegetable soil average 200mm deep and cart away as directed	52	SM		
	<u>Excavation</u>				
C	Excavate for strip foundation not exceeding 1.5 meters deep and cart away as directed	42	CM		
D	Extra over excavation for excavating in rock of any class.	2	CM		
E	Return, fill-in and rum selected excavated material	24	CM		
F	Remove and cart away from site surplus excavated material as directed	18	CM		
	<u>Diposal of water</u>				
G	Keeping all excavations free from all water including spring or running water		Item		
	<u>Planking and strutting</u>				
H	Uphold the sides of all excavations		Item		
	<u>Filling</u>				
I	Hardcore filling in making up levels exceeding 350mm thick, depositing and compacting in layers of 175mm maximum thickness	14	CM		
J	50mm thick murrum blinding to surfaces of fill	45	SM		
	<u>Antitermite treatment</u>				
K	TERMIDOR' or other equal and approved insecticide with a ten-years guarantee to surfaces of fill and tops of foundations	52	SM		
	<u>Concrete</u>				
L	50mm thick mass concrete class Q (1:3:6) to bottoms of foundations	28	SM		
	Carried to collection				

**PROPOSED ABLUTION BLOCK -
BUILDERS WORK**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>In situ concrete; reinforced; class 20 / (20mm); vibrated</u>				
A	Foundations in trenches, 200mm thick	6	CM		
B	150mm thick ground floor slab	45	SM		
C	Extra over ground floor slab for thickening for steps	0	LM		
	<u>Reinforcement</u>				
	<u>Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks</u>				
D	Assorted reinforcement	443	KG		
	<u>Fabric; B.S. 4483</u>				
E	Reference A142 mesh 200 x 200 mm , weight 2.22 kgs per square meter (measured net - no allowance made for laps(including bends, tying wire and distance blocks	45	SM		
	<u>Sawn formwork to insitu concrete as described:-</u>				
F	Edges of ground floor slab; 75 to 150mm wide	42	LM		
	<u>Walling</u>				
G	200mm thick approved local natural stone; roughly squared to foundation walling; bedding and jointing in cement sand (1:3) mortar	55	SM		
	<u>Damp proofing</u>				
H	Polythene; 1000 gauge, 150mm laps (no allowance made to laps), horizontal; 1 no. layer laid on murrum blinding	45	SM		
J	200mm wide; B.S. 743 Type A bitumen hessian base 150 mm laps (no allowance made for laps); horizontal, 1 no. layer, bedded in cement sand (1:3) mortar	66	LM		
	<u>In situ finishings</u>				
K	14mm thick 2 No. coatwork cement sand (1:3) render; wood floated to concrete or blockwork base to walls; external	13	SM		
	<u>Prepare and apply three coats exterior quality paint to approval on:-</u>				
L	Rendered plinths, externally.	13	SM		
	Carried to collection				

PROPOSED ABLUTION BLOCK -
BUILDERS WORK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>COLLECTION</u>				
1	From page 1				
2	From page 2				
TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY					

PROPOSED ABLUTION BLOCK -
BUILDERS WORK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 2</u>				
	<u>RING BEAM</u>				
	<u>In situ concrete; reinforced; class 20 / (20mm); vibrated</u>				
A	Ringbeam	4	CM		
B	150mm thick suspended slab	7	SM		
C	Columns	0	CM		
	<u>Reinforcement</u>				
	<u>Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks</u>				
D	Assorted reinforcemnt bars	420	KG		
	<u>Sawn formwork to insitu concrete as described:-</u>				
E	To sides and soffits of beams	57	SM		
F	Soffits of suspended slab	7	SM		
G	Edges of floor slab; girth 75-150mm	14	LM		
H	100mm diameter CHS morticed in concrete at the bottom and bolted to roof truss at the top including all cutting, grinding and painting to approval.	0	LM		
TOTAL FOR FRAME CARRIED TO SUMMARY					

PROPOSED ABLUTION BLOCK -
BUILDERS WORK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 3:WALLING</u>				
	<u>EXTERNAL & INTERNAL WALLING</u>				
	<u>NATURAL STONE WALLING</u>				
A	200 mm thick approved local; machine cut; bedding, jointing and pointing in cement sand (1:3) mortar externally	90	SM		
B	Ditto but internally	32	SM		
C	Ditto parapet wall	24	SM		
TOTAL FOR EXTERNAL & INTERNAL WALLING CARRIED TO SUMMARY					

PROPOSED ABLUTION BLOCK -
BUILDERS WORK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.4:ROOFING</u>				
	<u>ALL PROVISIONAL.</u>				
	<u>IT5 Box profile roofing sheets 28 gauge:Pre-painted</u>				
A	Roof covering not exceeding 45 degrees from horizontal;fixing to timber structure (m/s) with roofing nails and neoprene washers J bolts nuts neoprene washers and caps.	63	SM		
	<u>Accessories, fixing as necessary to roof</u>				
B	Ridge cap	22	LM		
C	plain sheet valleys	6	LM		
	<u>CARPENTRY</u>				
	<u>The following in sawn celcured cypress timber trusses:-</u>				
D	150 x 50mm sawn cypress tie beam	47	LM		
E	150 x 50mm rafters	65	LM		
R	100 x 50mm wall plate rag-bolted at 1200mm centres with 12mm diameter bolts (m/s)	68	LM		
G	100 x 50mm king posts	15	LM		
H	100 x 50mm sawn cypress struts and ties	75	LM		
J	75 x 50mm sawn cypress purlins	64	LM		
	<u>PLUMBING AND DRAINAGE:Pvc Rain water goods</u>				
K	140mm dia. Half round upvc gutter including soldered joints in the running length fixed to fascia board with and including brackets at approved centers	32	LM		
L	Extra; for blocked ends with 75mm dia.outlet 100mm long	2	NO		
M	Extra; for 90 degrees bends	2	NO		
N	Extra; for stopped ends	2	NO		
P	75mm dia. Pvc rainwater downpipe fixed with and including pvc straps at 900mm centres, plugged and screwed to wall	16	LM		
Q	Extra; swanneck bend	2	NO		
R	Extra; horse shoe bend	2	NO		
S	300x38mm prepainted wrot softwood fascia board	32	LM		
TOTAL FOR ROOFING CARRIED TO SUMMARY					

PROPOSED ABLUTION BLOCK -
BUILDERS WORK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 5- WINDOWS				
	MILD STEEL WINDOW FRAMES				
	<i>Supply and fix the following purpose made mild steel casement small panes (maximum size 200 x 300 mm) windows, with standard "Z" section framing including all coupling mullions etc and complete with polished brass handles, peg stays and other ironmongery; factory primed with red oxide primer including cutting and pinning fixing lugs to concrete or masonry work jambs; bedding in cement and sand (1:3) mortar, pointing all round frames in mastic, greasing, oiling and adjusting opening lights on completion all in accordance with the Architect's window schedule</i>				
A	Window overall size 750 x 1650mm high ditto	NO	2		
B	Window overall size 4750 x 750mm high ditto	NO	2		
C	Window overall size 2000 x 1400mm high ditto	NO	1		
	Window overall size 2000 x 1400mm high ditto	NO	1		
	GLAZING				
	<i>4mm frosted sheet glass and glazing to metal windows including fixing with approved putty</i>				
D	In panes not exceeding 0.10 square metres	SM	15.00		
	PAINTING				
	<i>Touch up primer ,prepare and apply two undercoats and one finishing coat gloss paint on metal work</i>				
E	General surfaces of mild steel windows (both sides)	SM	30		
	WINDOW CILL				
E	250 x 50mm thick machine cut stone window cill throated and bedded in cement and sand (1:3) mortar to racked external wall window cill: building ends to window jamb	LM	15		
TOTAL CARRIED TO SUMMARY					

PROPOSED ABLUTION BLOCK -
BUILDERS WORK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 6:DOORS</u>				
	<u>45mm thick solid cored flush door,to BS 459:part 2,overall faced both sides with scratch proof laminate to approval with rounded and post-formed edges to approval</u>				
A	Door overall size 900x2100mm high	4	NO		
B	Door overall 1100x2100mm high	0	NO		
C	Double swing double leaf 1200 x 2100mm high	0	NO		
	<u>Wrot hardwood frames and framings</u>				
D	150 x 50 mm; 2 No. labours; plugged door frame	21	LM		
E	40mm architrave	21	LM		
F	25mm quadrant	21	LM		
	<u>Iron mongery</u>				
	<u>Supply and fix the following to UNION catalogue or other equal and approved To hardwood or the like fixing with screws</u>				
G	2 lever mortice lock as 'UNION'	0	NO		
H	Indicator bolt	4	No		
J	Rebated indicator bolt	0	NO		
K	100mm steel butt hinges	6	PRS		
	<u>Aluminium primer or other equal and approved wood primer before fixing: -</u>				
L	Backs of frame, board, etc over 100mm but not exceeding 200mm girth	63	LM		
	<u>Prepare and apply three coats polvurethane clear varnish on woodwork internally</u>				
M	Frames; over 100mm but not exceeding 200mm girth	63	LM		
N	General surfaces of doors both sides	15	SM		
	<u>Supply deliver and fix steel doors to detail and approval including priming and grinding and painting to approval.</u>				
J	Single leaf steel panel door including fixing uin position, all necessary ironmongery and painting to approval.	10	SM		
TOTAL FOR DOORS CARRIED TO SUMMARY					

PROPOSED ABLUTION BLOCK -
BUILDERS WORK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.7 FINISHES</u>				
	<u>Wall finishes</u>				
	<u>Plaster: 12mm thick 2 No. coatwork, 9mm first coat of cement sand (1:6); 3mm second coat of cement and lime putty (1:10); steel trowelled to concrete or blockwork base generally to: -</u>				
A	Walls; internal	38	SM		
B	Ditto; external	113	SM		
	<u>Prepare and apply three coats of interior first quality paint to: -</u>				
C	Plastered walls internally	38	SM		
	<u>Prepare and apply three coats of exterior first quality paint to: -</u>				
D	Plastered walls externally	113	SM		
E	Extra over over painting for branding in 3 rows of 100mm wide, 15mm thick cement bands with and including painting in approved paint colours.	15	SM		
	<u>Wall tiles</u>				
F	15mm wood floated plaster to receive ceramic wall tiles(m/s)	115	SM		
	<u>Coloured approved ceramic tiles</u>				
G	300x300x6mm ceramic wall tiling laid to 15mm thick wall plaster(m.s) and pointed in approved coloured grout.	115	SM		
H	20mm Thick polished local granite top to concrete benches including rounding along edges and bedding to approval.	0	SM		
	<u>Floor finishes</u>				
	<u>Beds and backings</u>				
	<u>In situ cement and sand (1:3) screeded beds with steel trowelled finish on concrete.</u>				
J	32mm screed finished to receive ceramic floor tiles(m/s)	45	SM		
	<u>Coloured approved ceramic tiles</u>				
K	300x300x6mm non slip ceramic floor tiling laid to screed bed(m.s) with appropriate adhesive and pointed in coloured grout.	45	SM		
	<u>Terrazzo Finishes</u>				
L	40mm thick coloured polished terrazzo including 28mm thick cement sand backing and 12mm thick grano, laid in bays with and including dividing strips to approval.	-	SM		
M	EDPM rubber waterproofing to suspended slab to approval.	6	SM		
	<u>Ceiling finishes</u>				
	<u>Plaster: 12mm thick 2 No. coatwork, 9mm first coat of cement sand (1:6); 3mm second coat of cement and lime putty (1:10); steel trowelled to concrete base generally to: -</u>				
N	Soffits of suspended slab	6	SM		
	<u>Prepare and apply three coats of interior first quality paint to: -</u>				
P	Plastered soffits internally	6	SM		
Q	Supply deliver and fix 9mm thick gypsum boards to ceilings with and including railings to approval.	45	SM		
	<u>Prepare and apply three coats of interior first quality paint to: -</u>				
R	Gypsum ceiling soffits	45	SM		
	TOTAL FOR FINISHES CARRIED TO SUMMARY				

**PROPOSED ABLUTION BLOCK -
BUILDERS WORK**

ELEMENT NO.	DESCRIPTION		PAGE NO.		AMOUNT
1	SUBSTRUCTURE (ALL PROVISIONAL)				
2	FRAME				
3	EXTERNAL & INTERNAL WALLING				
4	ROOFING.				
5	WINDOWS				
6	DOORS				
7	FINISHES				
TOTAL ABLUTION BLOCK CARRIED TO GRAND SUMMARY					

ELECT

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Supply,install,test and commision the following;				
	NOTE: RATES TO INCLUDE ALL APPLICABLE GOVERNMENT TAXES				
A	4 way Consumer as Siemens original or equal and approved equivalent	No	1		
B	Mcbs for the CU above as Siemens Original or equal and approved being;				
	a) 10A SP MCB	No	1		
	b) 32A SP MCB	No	2		
	c) 63A TPN MCB	No	0		
C	Submain cable 6mm Sq 3C PVC cable from metre board to consumer unit in toilet block drawn in 25mm HG PVC conduit (provisional)	LM	15		
	LIGHTING POINTS				
D	Lighting points wired in 3X 1.5mm Sq SC PVC CU cables as east african in 20mm H/G conduits concealed in walls being;				
	i) One way switching	NO	11		
	ii) Unswitched	NO	4		
E	Light fittings being;				
	i) 1X600 mm 18W LED slim fitting complete with tubeas T&J or equal and approved equivalent id. B on layout	NO	8		
	ii) Flood lights 50W LED Type	NO	4		
	iii) Pendant light complete with 18W day light energy saving bulb on layout	NO	3		
	SWITCHING				
F	6A Switches as T&J or equal and approved as;				
	a) 4 gang 2 way	NO	1		
	b) 1 gang 1 way	NO	1		
	c) Photo cell for external lighting	NO	1		
	TOTAL				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	POWER POINTS				
A	Socket outlet points wired in 3 X 2.5 mm sq SC CU cables in HG super high impact PVC conduits in slab or walls complete with boxes	NO	2		
B	13A 240V Twin Socket outlet as T&J or approved equal	NO	2		
C	EARTHING				
i)	Earthing to PME standard complete with 4 ft cooper plated earth electrode and clamping kit, 300X300X300mm concrete earthing chamber with cover, to approval by the Project electrical Engineer.	Item	1		
D	POWER BOARD				
	Modular type Meter board measuring 400X300x200 mm(LxWxD), metal clad 14SWG, 240 mains L.V fully wired for one incoming DP MCB to have a meter viewing Perspex and to be installed semi-recessed in the wall to PEE approval and complete with: 1. Provide space for mounting 1 No. sigle phase KPLC meter 2. Provide space for mounting 1No. KPLC cutout complete with neutral	1	item		
E	Install the following in Meter Cubical				
	a) 80A double pole Switch	1	No		
	TOTAL				

COLLECTION					
	Total from page 1				
	Total from above				
	TOTAL carried to summary page				

SUMMARY PAGE

	ELEMENT	PAGE	OFFICIAL USE	
1	TOTAL FOR ELECTRICAL WORKS	2		
2	TESTING AND COMMISSIONING IN ACCORDANCE TO EPRA & IEC PROCEDURE COMPLETE WITH TEST CERTIFICATE APPROVED BY PEE			
TOTAL FOR ELECTRICAL WORKS TO TOILET & OFFICE BLOCK				

AMOUNT IN WORDS:

Company name and adress:

Stamp:

Signature:

ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
1.00	<p>SANITARY FITTINGS</p> <p>Supply, deliver Install and commission the following appliances including their support brackets,screws etc. and their connection to water supply, waste/soil drainage:-</p> <p>WATER CLOSET WC PAN</p> <p>A Low level WC suite in approved color complete with horizontal outlet to BS 3402 with 7.5litre valve less ceramic cistern and fittings including siphon ,15mm diameter side inlet valve ,20mm diameter side overflow ,plastic flush bend ,inlet connection ,chrome-plated lever and heavy plastic seats and cover with stainless steel hinges.As ideal standard or approved equivalent.</p> <p>B Floor standing WC pan with 'P'-trap in approved colour complete with horizontal outlet to BS 3402 with high level cistern. All to be as Ideal standard water closet pan or equal and approved.</p> <p>URINALS BOWLS</p> <p>C Ceramic urinal bowl complete with 40mm heavy duty plastic bottle trap and 40mm diameter chrome plated outlet with grating firmly fixed on the wall with chrome plated screws. The fittings shall be as Twyfords or equal and approved.</p> <p>URINAL BOWL DIVISIONS</p> <p>D Ceramic urinal bowl divisions separating the above described urinal bowls fixed firmly on the wall. The fittings shall be as Twyfords or equal and approved.</p> <p>WASH HAND BASIN</p> <p>E Wash hand basin size 510x 420mm with one tap holes and chain stay hole, 32mm diameter chrome plated chain waste chrome plated with non conclusive time delay press action pillar tap as cobra model concealed wall brackets and heavy duty plastic bottle trap (32mm 'P' Trap) with 75mm seal. The wash hand basin to be used as standard or equal and approved.</p> <p>SHOWER</p> <p>F Shower complete with overhead shower rose, Chrome platedshower arm, 3 Way Concealed shower fitting consisting ofconcealed body and finish set with single lever mixer anddiverter or approved equivalent and Shower kit with hand(telephone) shower, shower rose and wall outlet.</p>	No	3		
		No	3		
		No	4		
		No	0		
		No	6		
		No	0		
	CARRY FORWARD TO NEXT PAGE				

ITEM	DESCRIPTION	UNIT	QNTY	RATE(KSH)	AMOUNT
	Total brought from page above				
	SOAP DESPENSER				
A	Wall mounted soap dispenser with a capacity of about one litre having a press action soap release mechanism complete with fixing screws. Allow for initial soap supply. To be as Starmix or approved equivalent.	No	2		
	TOILET ROLL HOLDER				
B	Semi recessed toilet roll holder in Vitreous China of size 165 x 165mm in approved colour as Twyford or equal and approved	No	2		
	FLEXIBLE TUBING AND ANGLE VALVE				
C	15mm diameter x 300mm long flexible connectors complete with integral 1/2" Chrome plated Angle valve for connecting the sanitary fitting to water supply. To be as Grohe P/Code:22 940 000, Complete with all necessary fitting accessories. or equal and approved.	No	12		
	MIRRORS				
D	6mm thick polished plate glass silver backed mirror with bevelled edges, size 610 x 450mm, Plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam.	No	6		
	CARRY FORWARD TO Summary Page				

PLU

MBIN

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
2	INTERNAL PLUMBING				
	PPR Pipes				
	Supply, deliver and install Polypropylene Random (PP-R) 20 pipework to DIN 8077 with joints, couplings, reducers, tees, adaptors, pipe fixing clips etc all to DIN 16962 and DIN 16928 .Pipe jointing shall be by polyfusion or use of electric coupling. Where pipework is not chased proper anchoring using approved fixtures shall be done. No pipework shall be left exposed to the sun. Rates must allow for all Metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, support raceways, isolating sheaths, elastic materials, expansion arms and bends, crossovers, couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system				
	PPR PN 20 PIPEWORK				
A	25mm diameter pipework	60	Lm		
B	40mm diameter pipework	12	LM		
C	50mm diameter pipework	0	Lm		
D	63mm diameter pipework	0	Lm		
	Bends				
E	25mm diameter bend	15	No.		
F	40mm diameter bend	5	No.		
G	50mm diameter bend	0	No.		
H	63mm diameter bend	0	No.		
	Tees				
I	25mm diameter tee	8	No.		
J	40mm equal tee	4	No.		
K	50mm equal tee	0	No.		
L	63mm equal tee	0	No.		
	Total Carried Forward to Collection Mech - 7				

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Reducers				
A	25 x 20mm diameter reducer	10	No.		
B	40 x 25mm diameter reducer	5	No.		
C	50 x 25mm diameter reducer	1	No.		
D	63 x 50mm diameter reducer	0	No.		
	Male/Female Adapters (Brass threaded)				
E	20mm brass threaded adapter	10	No.		
F	25mm brass threaded adapter	5	No.		
G	40mm diameter threaded adapter	5	No.		
H	50mm diameter threaded adapter	0	No.		
I	63mm diameter threaded adapter	0	No.		
	Valves				
J	25mm gate valve	3	No.		
K	32mm gate valve	0	No.		
L	40mm diameter valve	0	No.		
M	50mm diameter valve	0	No.		
N	63mm diameter valve	0	No.		
	Unions/Sockets				
O	25mm diameter pipe union	5	No.		
P	40mm diameter pipe union	5	No.		
Q	63mm diameter pipe union	0	No.		
	Sterilization				
R	Allow for flushing out and sterilizing the whole system with chlorine to the satisfaction of the engineer	1	Sum		
	Testing and Commissioning				
S	Allow for testing and commissioning of the plumbing and drainage installations to the satisfaction of the Engineer.	1	Item		
	Total Carried Forward to Collection Mech - 7				

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
3	FOUL WATER INTERNAL DRAINAGE Supply ,deliver and install the following UPVC, MUPVC, soil and waste systems respectively to B.S 5255 with fittings fixed to Manufactures Printed instructions and manufactured by reputable manufacturers. Tenderers must allow in their pipework prices for all the couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system.				
	MuPVC and uPVC Waste and Soil pipework				
C	100mm diameter heavy gauge golden brown UPVC	20	Lm		
D	50mm diameter waste pipe	21	Lm		
E	40mm diameter waste pipe	15	Lm		
	Bends				
F	100mm diameter sweep bend	5	No.		
G	50mm diameter sweep bend	5	No.		
H	40mm diameter sweep bend	10	No.		
	Tees				
I	100mm diameter sweep tee	0	No.		
J	50mm diameter sweep tee	4	No.		
K	40mm diameter sweep tee	5	No.		
	Access Caps				
L	100mm diameter access cap	0	No.		
M	50mm diameter access cap	1	No.		
N	40mm diameter access cap	4	No.		
	Boss Connectors				
O	100 x 50mm diameter boss connector	0	No.		
P	100 X 40mm diameter boss connector	0	No.		
	Single Branches				
Q	100mm diameter Single branch	0	No.		
	Total Carried Forward to Collection Mech - 7				

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
A	WC Connectors 100mm diameter WC connector	9	No.		
B	Traps 100 x 50mm diameter floor trap and grating	9	No.		
C	Inspection Chamber Standard 600 x 450 x (600-1000)mm inspection chamber complete with concrete cover as made by East african Foundry or Equivalent.	4	No.		
D	Gully traps Standard 300 x 300 mm gully trap chamber complete with concrete cover and plastic trap with 100mm seal.	2	No.		
E	Weathering Slates and Vent Cows 75mm diameter weathering slate and apron.	2	No.		
F	75mm diameter vent cowl	2	No.		
G	Allow for testing & commissioning of drainage installations	1	Item		
	Total Carried Forward to Collection Mech - 7				

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Item	Description				
1	Total carried forward from page Mech -3				
2	Total carried forward from page Mech -4				
3	Total carried forward from page Mech - 5				
4	Total carried forward from page Mech - 6				
Total Amo					
Total Amo					

4

WATER TANKS AND PUMPS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
A	<p>Storage Tank 2500 Litres ground PVC pastic tanks or approved equivalent complete with high pressure ball valve, gate valve and 2m over flow pipe. The tanks to be intalled on a platform as specified by Project architect/PSE</p>	2	No		
B	<p>Booster pump Electric driven booster pump as Pedrollo PKM 60 or approved equivalent capable of 5cubic meter per hour at 30m head, complete with its set of controls</p>	0	No		
C	<p>Float switch Supply and install float switches to high level tanks</p>	0	No		
D	<p>Electrical Works Allow for electrical works wiring and fitting to pumps, control panel and float switches from isolator provided by others.</p>	0	Item		
Total Carri					

SUMMARY PAGE

Item	Description	Amount (Ksh)
1	Total for Sanitary fittings Installation Works from page Mech - 2	
2	Total for plumbing and drainage Installation Works from page Mech - 7	
3	Total for Water tanks Installation Works from page Mech - 8	
4	Allow for ksh 20,000 contingency sum	
	Total Amount for Mechanical Works Carried to FORM of TENDER	

PROPOSED ABLUTION BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>PC AND PROVISIONAL SUMS</u>				
	<u>The Contractor shall include in his tender the following to be deducted in whole or in part as directed by the Project Manager.</u>				
	<u>PROJECT MANAGEMENT</u>				
A	Allow a provisional sum of Kenya Shillings Two Hundred Thousand (Kshs.200,000/=)only for contingencies.		SUM		
B	Allow a provisional sum of Kenya Shillings Fifty Thousand (Kshs.50,000 /=)only for branding to approval		SUM		
C	Allow a provisional sum of Kenya Shillings Three Hundred Thousand (Kshs.300,000 /=)only for a biodigester with and including 2no. Soak pits to approval.		SUM		
TOTAL PC&PROVISIONAL SUMS CARRIED TO GRAND SUMMARY PAGE				KSHS.	

PROPOSED ABLUTION BLOCK

ITEM	DESCRIPTION	TENDERER'S AMOUNT	OFFICIAL USE
1	PRELIMINARIES		
2	TOTAL BUILDERS WORKS		
	TOTAL ELECTRICAL WORKS		
	TOTAL MECHANICAL WORKS		
3	PRIME COSTS AND PROVISIONAL SUMS FROM PAGE PC/01		
TOTAL CARRIED TO FORM OF TENDER			

AMOUNT IN WORDS.....

.....
TENDERER'S NAME.....

ADDRESS.....

SIGNATURE.....

OFFICIAL STAMP.....

DATE.....

NAME OF WITNESS.....

SIGNATURE.....

DATE.....