

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

**PROPOSED ADDITIONAL WORKS
AT
KAHAWA SUKARI LEVEL III HOSPITAL
(PHASE III)**

BILL OF QUANTITIES

W.P ITEM NO.....

COUNTY WORKS OFFICER
(DIRECTORATE OF PUBLIC WORKS)
P.O BOX 2344-00900
KIAMBU

COUNTY ARCHITECT
(DIRECTORATE OF PUBLIC WORKS)
P.O BOX 2344-00900
KIAMBU

COUNTY QUANTITY SURVEYOR
(DIRECTORATE OF PUBLIC WORKS)
P.O BOX 2344-00900
KIAMBU

COUNTY CIVIL/STRUCT. ENGINEER
(DIRECTORATE OF PUBLIC WORKS)
P.O BOX 2344-00900
KIAMBU

COUNTY MECH/ELEC. ENGINEER (BS)
(DIRECTORATE OF PUBLIC WORKS)
P.O BOX 2344-00900
KIAMBU

OCTOBER, 2026

ITEM	DESCRIPTION	AMOUNT
	<u>BILL NO. 1</u>	
	<u>PARTICULAR PRELIMINARIES</u>	
A	<u>PRICING ITEMS OF PRELIMINARIES</u> 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.	
B	<u>FIRM PRICE CONTRACT</u> 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.	
C	<u>SCOPE OF CONTRACT</u> The works to be carried out under this contract comprise (as itemised in the BQ's)	
D	<u>FLOOR AREA</u> The total gross approximate floor area is N/A square metres. The total gross floor area is given without warranty but for guidance only.	
E	<u>MEASUREMENTS</u> 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.	
F	<u>PRICING RATES</u> 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.	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<u>LOCATION OF SITE</u> The site for works is located within; KIAMBU COUNTY as indicated on the contract appendix The tenderer shall be deemed to have visited the site and familiarised himself with all site conditions prior to submission of tenders. No claims arising from the tenderers failure to do so will be entertained.	
B	<u>EXISTING BUILDING SERVICES</u> Special precautions shall be required throughout the contract period to avoid damage to the existing cables, drains and other services. The Contractor shall allow for making good any damage arising from his actions during execution of this contract at his own expense.	
C	<u>WORKING CONDITIONS</u> 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.	
D	<u>LABOUR CAMPS</u> 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.	
E	<u>MATERIALS FROM DEMOLITIONS</u> Any materials arising from demolitions and not re-used shall become remain the property of the client. The Contractor shall allow in his rates the cost of assembling and keeping them in the client's premises.	
	<u>PROJECT MANAGEMENT EXPENSES</u>	
F	Provide Kshs 75,000.00 for Documentation, Stationery, Training, Allowances	
G	Allow for Contractor's overheads and profits (____)%	
H	Provide a Provisional Sum of Kshs 450,000/= only for Project Manager's Allowances and Expenses	
J	Allow for Contractor's overheads and profits (____)%	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<u>PARTICULAR INSERTIONS TO BE MADE IN APPENDIX TO CONTRACT AGREEMENT</u> 1. Period of Final measurements - 3 Months from Practical Completion 2. Defects liability Period - 6 Months from Practical Completion 3. Date for Possession - With 7 days upon contract signing 4. Date for Completion- 3 months 5. Liquidated and Ascertained Damages - At the rate of Kshs 50,000.00 per calendar week or part thereof 6. Period of issuing Interim Certificates - Monthly 7. Period of Honouring certificates - Thirty (30) Days 8. Percentage of Certificate value retained - 10% 9. Limit of Retention Fund - 10% of Contract Sum	
B		
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
	<u>BILL NO. 2</u> <u>GENERAL PRELIMINARIES</u>	
A	<u>PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES</u> Prices will be inserted against items of Preliminaries in the Contractor's priced Bills of Quantities and Specification. The Contractor shall be deemed to have included in his prices or rates for the various items in the Bills of Quantities or Specification for all costs involved in complying with all the requirements for the proper execution of the whole of the works in the Contract.	
B	<u>ABBREVIATIONS</u> Throughout these Bills, units of measurement and terms are abbreviated and shall be interpreted as follows:- m3/C.M. Shall mean cubic metre m2/S.M. Shall mean square metre m/L.M. Shall mean linear metre mm/MM Shall mean Millimetre Kg. Shall mean Kilogramme No. Shall mean Number Prs. Shall mean Pairs B.S. Shall mean the British Standard Specification Published by the British Standards Institution, 2 Park Street, London W.1 England. Ditto Shall mean the whole of the preceding description except as qualified in the description in which it occurs. m.s. Shall mean measured separately. a.b.d Shall mean as before described. P.M. Shall mean Project Manager	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	The Employer is: of P.O. BOX	
B	<u>PROJECT MANAGER</u> 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. This shall be the: County Works Officer, P.O. Box 189, Kiambu.	
C	<u>ARCHITECT</u> The term "Architect" shall be deemed to mean "The P.M." as defined above	
D	<u>QUANTITY SURVEYOR</u> The term "Quantity Surveyor" shall be deemed to mean "The P.M." as defined above	
E	<u>ELECTRICAL ENGINEER</u> The term "Electrical Engineer" shall be deemed to mean "The P.M." as defined above	
F	<u>MECHANICAL ENGINEER</u> The term "Mechanical Engineer" shall be deemed to mean "The P.M." as defined above	
G	<u>STRUCTURAL ENGINEER</u> The term "Structural Engineer" shall be deemed to mean "The P.M." as defined above	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<u>FORM OF CONTRACT</u> 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	
B	<u>BOND</u> The Contractor shall find and submit on the Form of Tender an approved insurance company or bank who 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.	
C	<u>PLANT, TOOLS AND VEHICLES</u> 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.	
D	<u>TRANSPORT.</u> 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.	
E	<u>MATERIALS AND WORKMANSHIP</u> 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.	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<u>SIGN FOR MATERIALS SUPPLIED</u> 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	
B	<u>STORAGE OF MATERIALS</u> 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.	
C	<u>SAMPLES</u> 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.	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<u>GOVERNMENT ACTS REGARDING WORK PEOPLE ETC</u> Allow for complying with all Government Acts, Orders and Regulations in connection with the employment of Labour and other matters related to the execution of the works. In particular the Contractor's attention is drawn to the provisions of the Factory Act 1950 and his tender must include for all costs arising or resulting from compliance with any Act, Order or Regulation relating to Insurances, pensions and holidays for workpeople or so the safety, health and welfare of the workpeople. The Contractor must make himself fully acquainted with current Acts and Regulations, including Police Regulations regarding the movement, housing, security and control of labour, labour camps , passes for transport, etc. It is most important that the Contractor, before tendering, shall obtain from the relevant Authority the fullest information regarding all such regulations and/or restrictions which may affect the organisation of the works, supply and control of labour, etc., and allow accordingly in his tender. No claim in respect of want of knowledge in this connection will be entertained.	
B	<u>SECURITY OF WORKS ETC</u> 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.	
C	<u>PUBLIC AND PRIVATE ROADS.</u> 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	
D	<u>EXISTING PROPERTY.</u> 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	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<u>VISIT SITE AND EXAMINE DRAWINGS</u> 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.	
B	<u>ACCESS TO SITE AND TEMPORARY ROADS.</u> Means of access to the Site shall be agreed with the PROJECT MANAGER prior 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 The Contractor should also allow for relocating existing fence (approx. 30 metres long).	
C	<u>AREA TO BE OCCUPIED BY THE CONTRACTOR</u> 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	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<u>OFFICE ETC. FOR THE PROJECT MANAGER</u> 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.	
B	<u>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</u> 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.	
C	<u>SANITATION OF THE WORKS</u> 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	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<u>SUPERVISION AND WORKING HOURS</u> 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.	
B	<u>PROVISIONAL SUMS.</u> 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.	
C	<u>PRIME COST (OR P.C.) SUMS</u> 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.	
D	<u>PROGRESS CHART</u> The Contractor shall provide within two weeks of Possession of Site and in agreement with the PROJECT MANAGER a Progress Chart for the whole of the works including the works of Nominated Sub-Contractors; one copy to be handed to the PROJECT MANAGER and a further copy to be retained on Site. Progress to be recorded and chart to be amended as necessary as the work proceeds.	
	CARRIED TO COLLECTION	

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

ITEM	DESCRIPTION	AMOUNT
A	<u>NOMINATED SUB-CONTRACTORS</u> 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".	
B	<u>DIRECT CONTRACTS</u> 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.	
C	<u>ATTENDANCE UPON OTHER TRADESMEN, ETC.</u> The Contractor shall allow for the attendance of trade upon trade and shall afford any tradesmen or other persons employed for the execution of any work not included in this Contract every facility for carrying out their work and also for use of his ordinary scaffolding. The Contractor, however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for and making good after the work of such tradesmen or persons as may be ordered by the PROJECT MANAGER and the work will be measured and paid for to the extent executed at rates provided in these Bills.	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<u>INSURANCE</u> 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.	
B	<u>PROVISIONAL WORK</u> All work described as "Provisional" in these Bills of Quantities is subject to remeasurement in order to ascertain the actual quantity executed for which payment will be made. All Provisional and other work liable to adjustment under this Contract shall left uncovered for a reasonable time to allow all measurements needed for such adjustment to be taken by the PROJECT MANAGER. Immediately the work is ready for measuring, the Contractor shall give notice to the PROJECT MANAGER. If the Contractor makes default in these respects he shall if the PROJECT MANAGER so directs uncover the work to enable all measurements to be taken and afterwards reinstate at his own expense.	
C	<u>ALTERATIONS TO BILLS, PRICING, ETC.</u> Any unauthorised alteration or qualification made to the text of the Bills of Quantities may cause the Tender to be disqualified and will in any case be ignored. The Contractor shall be deemed to have made allowance in his prices generally to cover any items against which no price has been inserted in the priced Bills of Quantities. All items of measured work shall be priced in detail and the Tenders containing Lump Sums to cover trades or groups of work must be broken down to show the price of each item before they will be accepted.	
	CARRIED TO COLLECTION	

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

ITEM	DESCRIPTION	AMOUNT
A	<u>WORKS TO BE DELIVERED UP CLEAN</u> Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash (except where such treatment might cause damage) and clean all floors, sanitary fittings, glass inside and outside and any other parts of the works and remove all marks, blemishes, stains and defects from joinery, fittings and decorated surfaces generally, polish door furniture and bright parts of metalwork and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the PROJECT MANAGER	
B	<u>FIRM PRICE CONTRACT</u> 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.	
C	<u>GENERAL SPECIFICATION.</u> 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.	
D	<u>CONSTRUCTION TRAINING LEVY</u> 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.	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<u>MATERIALS ON SITE</u> 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.	
B	<u>HOARDING</u> 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.	
C	<u>CONTRACTOR'S SUPERINTENDENCE/SITE AGENT</u> The Contractor shall constantly keep on the works a literate English speaking Agent or 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.	
D	<u>COPYRIGHT</u> 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.	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
	Section No. 1 Bill No. 2 GENERAL PRELIMINARIES COLLECTION Total Brought Forward from Page No.	
	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	
	CARRIED FORWARD TO GRAND SUMMARY	

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	MALE WARD BLOCK EXTENSION				
	DEMOLITION AND ALTERATIONS				
A	Demolish existing PCC slabs laid on and including 50mm thick sand bed (approx. 24SM)		ITEM		
B	Ditto existing paving blocks approx area 40SM		ITEM		
	SUBSTRUCTURE				
	EXCAVATION & EARTHWORKS				
B	Clear site of all shrubs and bushes and cart away the debris	84	SM		
C	Excavate to remove top soil average 200mm and store as directed by the project manager	84	SM		
D	Excavate in bulk to remove black cotton soil average 2m deep and cart away to an approved dumpsite.	151	CM		
E	Supply deliver and lay including compacting , imported approved murrum and/or red soil filling to make up levels to approval	302	CM		
F	Excavate for foundation trenches in normal soil depth not exceeding 1.5m deep and cart away	7	CM		
G	Excavate for column bases in normal soil depth not exceeding 1.5m deep and cart away	5	CM		
H	Cart away the arisings	32	CM		
J	Return, fill and ram selected excavated materials	84	CM		
	<u>FILLING</u>				
K	350mm Thick handpacked well compacted hardcore	126	CM		
L	50mm Thick well rolled quarry dust blinding on hardcore	84	SM		
M	Treat the surface with insecticide as per the manufacturers instruction to the Architects approval	84	SM		
	Carried to collection				-

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>CONCRETE WORK</u>				
A	50mm Thick mass concrete blinding to foundation	37	SM		
	<u>Vibrated reinforced concrete class 20/20 to;</u>				
B	200mm thick foundation strip	9	CM		
C	Column bases	2	CM		
D	Columns	2	CM		
E	150mm Thick floor slab	84	SM		
	<u>FORMWORK</u>				
	<u>Sawn timber formwork to;</u>				
F	Edges of floor slab; 150-225mm high	38	LM		
G	Sides of column bases	12	SM		
H	Sides of columns curved to radius	11	SM		
J	Sides of strip footing	25	SM		
	<u>REINFORCEMENT</u>				
K	Assorted high tensile mild steel reinforcement	1300	kg		
L	BRC mesh A142 laid with 300mm end and side laps	84	SM		
	<u>WALLING</u>				
M	200mm Thick natural stone walling jointed in cement sand mortar mix 1:4 and reinforced with hoop iron every alternate course	112	SM		
	<u>DPM</u>				
N	1000gauge damp proofing membrane laid with 150mm end laps	84	SM		
	<u>DPC</u>				
P	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	56	SM		
Q	PCC slabs laid on and including 50mm thick sand bed	34	SM		
	Carried to collection				-
	COLLECTION				
	From page 1				-
	From page 2				-
	Carried to Summary				-

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUPERSTRUCTURE</u>				
	<u>EXTERNAL WALLS</u>				
A	200mm Thick machine cut stone walling jointed in mortar mix 1:4 and reinforced with hoop iron every alternate course	144	SM		
	<u>INTERNAL WALLS</u>				
B	200mm Thick machine cut stone walling jointed in mortar mix 1:4 and reinforced with hoop iron every alternate course	15	SM		
C	Steel grill to detail	20	SM		
	<u>CONCRETE</u>				
	<u>VRC class 20/20</u>				
D	Beams	5	CM		
E	Gutter beams	2	CM		
F	Columns	3	CM		
G	150mm Thick suspended floor slab	0	SM		
	<u>FORMWORK</u>				
	<u>Sawn timber formwork to:</u>				
H	Sides of beams	70	SM		
J	Sides of gutter beams	20	SM		
K	Soffits of suspended slab	0	SM		
L	Sides of columns	42	SM		
M	Edges of suspended slab	0	LM		
N	Assorted reinforcemet	1000	KG		
	Carried to Summary				-

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>STEEL STRUCTURES, ROOF AND RAIN WATER DISPOSAL</u> <u>Structural Steelwork</u> <u>The following in structural steel (Grade 43) work complete with and including all welded (6mm fillet weld) and bolted connections; delivery to site and erection with and including one shop coat of red oxide zinc chromate primer or similar and two finishing coats including hoisting and fixing approximate 8m above the ground level. Allow for flat Sections gusset plates, connections, bolts etc. All works to be painted with three coats of gloss oil paint</u>				
A	100x50x 3mm RHS main frame	500	Kgs		
B	50x50x3mm ditto	300	Kgs		
C	25x25x3mm ditto	30	Kgs		
D	50x50x4mm ditto	10	Kgs		
E	100x50x2mm Z purlins	400	Kgs		
F	16mm diameter rebars; anti sag rods	10	Kgs		
G	300mm wide ms fascia	54	LM		
	<u>Roof Covering</u> <u>Prepainted Galvanised IT profile gauge 28 profile sheets on Z-section purlin (m.s) pre formed box profile roofing sheets; including edging trim, fixing to steel structure, complete with approved washers, j-bolts, caps, plastic washers etc, including all necessary curvatures, hoisting, placing and connections; (Measured nett. Bidder to include for laps)</u>				
H	Roof covering	105	SM		
J	Ditto ridge cap	8	LM		
K	Barge flushing	14	LM		
L	Valley flushing	0	LM		
	<u>Galvanised steel; gauge 26; pre-painted; Rainwater goods with lapped, rivetted and soldered joints or seams including all labours :-</u>				
M	250 x 200mm x 2mm Galvanised Box gutter: Welded to angle line stiffeners 60 4mm; including flat steel brackets at 1500 mm (maximum) centres: holes for down pipes as necessary:	25	LM		
N	100mm diameter rain water downpipe	15	LM		
P	Extra over for closed ends, shoes and swan neck offset	4	NO		
	<u>Prepare and apply three gloss oil paint on:-</u>				
Q	General surfaces of down pipes and gutters	40	LM		
	TOTAL CARRIED TO SUMMARY				-

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>OPENINGS</u>				
	<u>WINDOWS</u>				
A	Supply deliver and fix purpose made steel casement windows furnished from 25x25mm SHS including plugging into masonry and all associated ironmongery to detail	14	SM		
	<u>Window cill</u>				
B	250x75mm insitu cast concret window cill including throating and finishing in cement sandplaster to approval	8	LM		
	<u>Painting and Decorations</u>				
	<u>Prepare and apply three coats gloss oil paint to approval;</u>				
C	General window surfaces	28	SM		
D	5mm thick clear glass and glazing with putty in panes not exceeding 0.10SM	14	SM		
D	5mm thick obscure glass ditto	5	SM		
E	Supply deliver and fix 25mm diameter double rod mild steel curtain rod complete with and including fixing, brackets, end stops , curtain rings, bolted and including painting to approaval	11	LM		
F	Ditto single rods bolted to ceiling brandering	5	LM		
	<u>Window grilles</u>				
G	Supply deliver and fix purpose made grilles furnished from 25x25mm CHS including plugging into masonry	20	SM		
	Carried to collection				-

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>OPENINGS</u>				
	<u>DOORS</u>				
	<u>Wrot celcured hardwood frames and framing</u>				
A	250x50mm; 2 no.Labours plugged door frame	12	LM		
B	Ditto; transom	2	LM		
C	150x50mm; 2 no.Labours plugged door frame	6	LM		
D	Ditto; transom	2	LM		
E	100x50mm; 2 no.Labours plugged door frame	15	LM		
F	Ditto; transom	0	LM		
	<u>45mm Thick solid core doors veneered both sides with first quality mahogany veneer and lipped on all edges in approved hardwood</u>				
G	Ditto 900x2750mm high ditto D2	4	NO		
H	Overall door size 1200x2750mm high ditto D3	2	NO		
J	Mild steel grill doors to approval including fixing and priming and all necessary ironmongery	14	SM		
K	5mm thick clear glass and glazing with putty in panes not exceeding 0.10SM	4	SM		
	<u>IRONMONGERY</u>				
	<u>Supply and fix the following ironmongery with screws to match.</u>				
L	3-lever mortice lock as complete with lever furniture.	6	NO.		
M	100mm steel butt hinges with steel screws	9	Prs		
N	Ditto duple swing hinges.	5	Pr.		
P	Rubber door stop fixed to concrete floor or masonry walling with and including 38mm rawl bolt	6	NO.		
	<u>PAINTING AND DECORATING</u>				
Q	Back of wood surface exceeding 100mm girth but not exceeding 200mm girth	37	LM		
	<u>Knot, prime, stop prepare and apply polyurethane varnish on</u>				
R	General surfaces of timber doors	25	SM		
	<u>Carried to collection</u>				-

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>FINISHES</u>				
	<u>FLOOR FINISHES</u>				
	<u>Cement and sand (1:4) screed to floor: in</u>				
A	32mm Thick finished to receive ceramic tiles	70	SM		
B	Ditto but terrazo	21	SM		
	<u>500x500x8mm Approved ceramic non slip floor tiles in appropriate adhesive and to approved pattern including grouting joints in matching cement; to</u>				
C	Floors; on level screed (m/s)	70	SM		
D	Ditto 100 mm high skirting	30	LM		
	<u>12mm Thick terrazzo floor finish to:</u>				
E	Floors; on level screed (m/s)	21	SM		
F	Ditto 100 mm high skirting	22	LM		
	<u>WALL FINISHES</u>				
G	15mm Thick gauged lime plaster	104	SM		
H	Prepare and apply one undercoat and two finishing coats of silk vinyl emulsion paint	104	SM		
J	15mm Thick gauged lime plaster wood floated to receive tiles	70	SM		
	<u>Wall tiles</u>				
K	300x600mm ceramic glazed wall tiles in appropriate adhesive and grouting to approval.	120	SM		
	<u>CEILING FINISHES</u>				
L	12mm Thick gypsum ceiling on and including metal framework to approval.	84	SM		
M	Prepare and apply one undercoat and two finishing coats of premium emulsion paint to approval	84	SM		
	<u>EXTERNAL FINISHES</u>				
N	15mm Thick gauged lime render	100	SM		
P	Prepare and apply wallmaster to approval	100	SM		
	<u>TANK SLAB</u>				
Q	100mm Thick slab laid to slope.	15	SM		
	Carried to Summary				-

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Item	Description	Qty	Unit	Rate	Amount (Ksh.)
	<u>ALTERATIONS TO EXISTING BLOCK</u> <u>ELEMENT NO.1: DEMOLITIONS AND ALTERATIONS</u> <i>Rates provided for the following works shall, in addition to what is described in the particular item, include:</i> <i>Clearing debris to designated loading point with speed on daily basis as they arise, clearing affected surfaces</i> <i>Accumulation of debris within the site shall not be allowed.</i> <i>All work shall be carefully executed with the particular aim of preserving the items being removed and minimising damage to adjacent finishes, structures and components.</i> <i>Rates quoted for removing components shall be deemed to be inclusive of clearing, handling, storage on site and disposal as</i>				
A	<u>Walls</u> Carefully demolish existing masonry wall and cart away arising debris .	25	Sm		
B	<u>Floors</u> Hack out existing Floor Finish and cart away arising debris and prepare surfaces to receive new floor finish.	35	Sm		
C	<u>Windows</u> Carefully take down existing glazed steel casement windows; store as directed	5	No		
D	<u>Doors</u> Carefully take down existing 900x2400mm high flush door including all ironmongery and store as directed	3	No		
E	<u>Ceiling</u> Carefully take down existing ceiling to create access for anchorage of lights	80	Sm		
	Total for Demolitions and alterations Carried to Summary				

Item	Description	Qty	Unit	Rate	Amount (Ksh.)
	<u>DOORS</u> <u>X-RAY SHIELDING DOORS</u> <u>Repair and Install Existing demolished radio safety purpose made Lead lined (Minimum 3mm thick lead lining) swing doors; with hinges hunged to specifications; equipped with motorised/hydraulic opener; including all framing, accessories; closers, handle as provided by the manufacturer;</u> A Double Door Size 1200x2700mm high 1 No B Single Door Size 900x2700mm high 1 No <u>Control Room Door</u> <u>Timber doors</u> <u>45mm thick solid core door to BS 459:Part 2,overall faced on both sides with scratch proof laminate to approval with rounded and post-formed edges to approval. Samples to be approved</u> C Door Size 900x2400mm 1 No <u>Wrot prime grade Mahogany</u> D 200 x 50mm frame with four labours. Samples to be 12 Lm E 50 x 25mm Architrave 12 Lm F 25x 25mm Quadrant 12 Lm <u>Painting and Decoration</u> <u>Prepare and apply three coats oil paint full gloss to Crown Solo or other equal and approved to: -</u> G General surfaces of frames over 200mm but not exceeding 300mm girth 12 Lm H Back of wood not exceeding 100 mm girth 24 Lm J General surfaces; timber doors 2 Sm <u>Ironmongery</u> <u>Supply and fix the following ironmongery with screws to match (Ref. is to Union Catalogue or other equal and approved)</u> K Three lever mortise lock 3 No L 100mm steel butt hinges with steel screws 5 Prs M Rubber door stopper 3 No				
	Carried to Collection				

<u>WINDOWS</u>				
<u>Supply and Install Lead lined/radio safety purpose made Glass window ; complete with all framings and all accessories; all by approved manufacture: Manufacturer to be approved before delivery.</u>				
A	Window Size 1000x1000mm high	1	No	
B	Window size 1000x500mm high	0	No	
<u>Steel Casement Window</u>				
<u>Supply, assemble and fix the following purpose made standard steel casement 25mm x 3mm thick "Z" section small pane steel windows to comply to B.S. 990, obtained from an approved manufacturer, primed with red oxide primer before delivery to site complete with hinges,handles,catches and building in lugs;as per the Architect's design.</u>				
C	Window size 2700 x 300mm high	0	No	
<u>Aluminium Casement Window</u>				
<u>Supply, assemble and fix the following purpose made standard anodized aluminium casement window before delivery to site complete with hinges,handles,catches as per the Architect's design.</u>				
D	Window size 3000 x 2200mm high	1	No	
E	Window size 2100 x 1800mm high	1	No	
F	Window size 1400 x 1800mm high	1	No	
G	Window size 950 x 1800mm high	1	No	
<u>Glazing</u>				
<u>5mm thick clear sheet glazing to metal with putty as decribed below</u>				
H	Panes over 0.1 but not exceeding 0.50 square meters	15	Sm	
<u>5mm thick Obscure sheet glazing to metal with putty as decribed below</u>				
J	Panes over 0.1 but not exceeding 0.50 square meters	51	Sm	
<u>Touch up primer, prepare and apply one undercoat and two finishing coats gloss paint on metal work</u>				
K	General surfaces; windows	3	Sm	
<u>Changing Area</u>				
<u>Curtain Rods</u>				
L	35mm Diameter approved wrought iron front and rear rod curtain rail cut to lengths complete with fixings, sliding rings, runners and end stops and screwed or plugged to wall or Ceiling supports; primed and painted to Architect's approval	3	Lm	
Carried to Collection				

Item	Description	Qty	Unit	Rate	Amount (Ksh.)
	<u>INTERNAL WALL FINISHES</u>				
	<u>13mm thick Cement Sand (1:3) plaster to:-</u>				
A	Walls trowelled smooth to concrete and masonry surfaces internally	74	Sm		
B	Approved 9mm thick Gypsum board to Windows fixed to approval.	20	Sm		
	<u>PAINTING AND DECORATING</u>				
	<u>Prepare and apply one undercoat and two finishing coats of Premium quality silk vinyl emulsion paint on</u>				
C	General surfaces; plastered walls and concrete surfaces ; internally	74	Sm		
D	General surfaces of gypsum board	20	Sm		
	<u>CEILING FINISHES</u>				
E	Approved 9mm thick Gypsum Ceiling board to ceiling laid flat and fixed to and including timber brandering and all to approval.	40	Sm		
F	100mm Wide Moulded Gypsum cornice; fixed to details.	30	Lm		
	<u>Prepare and apply one undercoat and two finishing coats of Premium quality silk vinyl emulsion paint on</u>				
G	General surfaces of ceiling board	40	Sm		
H	Surfaces of Cornice 100-200mm girth	30	Lm		
	<u>PUBLIC TOILET</u>				
J	PVC T&G ceiling laid on 50x50mm timber brandering on gables and eaves	36	Sm		
K	PVC cornice to ditto	35	Lm		
	Carried to Collection				

Item	Description	Qty	Unit	Rate	Amount (Ksh.)
	<u>THEATRE LIGHTS CEILING SUPPORT</u> <u>Structural steel work as described, wire brushed to remove rust and mill scale; primed with grey oxide before installation; after installation allow for applying one undercoat and three coats of fire-resistant paint; fixing to Engineer's approval including all labours and fasteners of hoisting and installing to position; Contractor to allow for sundry items including base plates, Gussets, Stiffeners, bolts and other connecting accessories</u>				
A	Assorted sizes as per design	300	Kg		
	Carried to Collection				
	<u>SUMMARY: NEW WORKS</u> Total Brought Forward from Page No.2 Total Brought Forward from Page No.3 Total Brought Forward from Page No.4 Total Brought Forward from Page No.5 Total Brought Forward from Page No.6 above Total Brought Forward from Page No.6 above				
	Total for New Works Carried to Summary				
<u>SUMMARY</u>					
	DEMOLITIONS AND ALTERATIONS				
	NEW WORKS				
TOTAL FOR EXISTING BLOCK CARRIED TO GRAND SUMMARY PAGE					

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	SUBSTRUCTURES (ALL PROVISIONAL) CTD Concrete 50mm thick mass concrete class Q (1:3:6) to bottoms of foundation	10	sm	-	
B	Insitu concrete; reinforced; class 20 / (20mm); vibrated Foundations in trenches and bases	2	cm	-	
C	150mm Thick bed Reinforcement Deformed Bars; including bends, hooks, tying wire and distance blocks	16	sm	-	
D	Assorted sizes	160	kg	-	
E	Fabric; B.S. 4483 Reference A142 mesh 200 x 200 mm , weight 2.22 kgs per square Sawn formwork to insitu concrete as described:-	16	sm	-	
F	To sides; vertical or battering of strip foundations.	3	sm	-	
G	Edges of ground floor slab; 75 to 150mm wide	16	lm	-	
H	Walling 200mm Thick approved local natural stone; roughly squared to foundation walling; bedding and jointing in cement sand (1:3) mortar	24	sm	-	
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Damp proofing</u>				
A	Polythene; 1000 gauge, 150mm laps (no allowance made to laps), horizontal; 1 no. layer laid on murrum blinding	16	SM	-	
B	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	16	lm	-	
	<u>In situ finishings</u>				
C	14mm Thick 2 No. coatwork cement sand (1:3) render; wood floated to concrete or blockwork base to walls; external	24	sm		
	<u>Prepare and apply three coats black bituminous paint on:-</u>				
D	Rendered plinths, externally.	24	sm		
	Carried to collection				
	<u>COLLECTION</u>				
1	From page INC/1				
2	From page INC/2				
3	From page INC/3				
	TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 2</u>				
	<u>ROOFING</u>				
	<u>Steel Structures</u>				
	<u>The following in purpose fabricated structural steel truss roof members, assembled and welded together, factory primed with red oxide primer including cutting and pining fixing lugs to steel framework and hoisting and fixing in position 4500mm above finished ground floor level</u>				
A	75 x 50 x 4mm RHS in external/internal truss girder members	10	LM		
B	50 x 50 x 4mm SHS in external/internal truss girder members	20	LM		
C	25 x 25 x 3mm SHS in external/internal truss girder members	20	LM		
	<u>Roof Finishes</u>				
	<u>Pre-painted IT5 profile roofing sheet fixed, with and including 100mm long galvanised hook bolts /100mm long galvanised roofing nails c/w washers on steel / timber purlins (ms) with one and a half corrugation side lap and 150mm end laps</u>				
D	28 Gauge roof covering not exceeding 45 degrees from horizontal including all necessary fixtures	22	SM	-	
E	200x150x100mm box gutter	5	LM		
	<u>Plain sheet</u>				
F	2.5mm thick plain sheet as fascia; 100mm wide	14	LM		
	TOTAL FOR ROOFING CARRIED TO SUMMARY				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 5 DOORS Steel Casement <u>Fabricate, deliver and install the following purpose made steel casement doors (to Arch detail) to comply to B.S.990,obtained from an approved manufacturer, primed with red oxide primer before delivery to site complete with, hinges, handles, catches and including a 3 lever mortice lock and any other necessary iron mongery</u>				
A	Door size 1200 x 2300 mm high <u>Painting and decorations</u> <u>Prepare and apply three coats of first quality gloss oil paint to: -</u>	1	No.		
B	Metal surfaces	6	sm	-	
Total for door Carried to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 7</u>				
	<u>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	18	sm	-	
B	Extra over horizontal pointing in 10mm thick rod in cement and sand (1:3) mortar to external wall	18	sm	-	
	<u>Prepare and apply three coats of first quality permaplast paint to: -</u>				
	wall master finish	18	sm		
C	Plastered surfaces	18	sm	-	
	<u>Floor finishes</u>				
	<u>Beds and backings, cement and sand (1:3) mortar</u>				
D	32 mm Thick backings; wood floated to receive concrete tiles	16	sm		
E	Diito to concete bench	5	sm		
F	15mm thick terrazzo layer	16	SM		
G	Diito to concete bench	5	sm		
H	Ditto; to walls	18	SM		
	<u>Concrete bench</u>				
J	Construct concrete bench 4000x600x900mm high comprising 150mm thick VRC suspended slab with 2No. 200mm thick masonry wall support including formwork.	1	NO		
Total Finishes carried to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>WAITING BAY</u>				
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURES (ALL PROVISIONAL)</u>				
	<u>Site clearance</u>				
A	Clear the site off grass, shrubs and all vegetation; cart away as directed	25	sm		
B	Excavate vegetable soil average 200mm deep and cart away as directed	25	sm		
	<u>Excavation</u>				
C	Excavate oversite to reduce levels commencing from stripped level average 300mm deep and spread on site av. 10 meters away	13	cm		
D	Return, fill-in and rum selected excavated material	16	cm		
E	Remove and cart away from site surplus excavated material as directed	44	cm		
	<u>Filling</u>				
F	Hardcore filling in making up levels 300mm thick, depositing and compacting in layers of 150mm maximum thickness	8	cm		
G	50mm thick murrum blinding to surfaces of fill	25	sm		
	<u>Antitermite treatment</u>				
H	TERMIDOR' or other equal and approved insecticide with a ten-years guarantee to surfaces of fill and tops of foundations	25	sm		
J	Insitu concrete; reinforced; class 20 / (20mm); vibrated 150mm thick bed	25	sm		
	<u>Fabric; B.S. 4483</u>				
K	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	25	sm		
	<u>Sawn formwork to insitu concrete as described:-</u>				
L	Edges of ground floor slab; 75 to 150mm wide	20	lm		
	TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 2</u>				
	Structural Steel & Roofing				
A	75mm diameter x 3000mm high CHS columns	4	No		
B	50 x25 x 3mm Thick internal bracings	12	LM		
C	Steel grill to detail	9	SM		
	<u>Galvanized corrugated Sheet roofing; 28 gauge;Pre-painted</u>				
D	Roof covering not exceeding 45° from horizontal;fixing to timber structure (m/s) with roofing nails and neoprene washers J bolts nuts neoprene washers and caps.	26	sm		
	<u>Structural Steelwork</u> <u>The following in structural steel (Grade 43) work complete with and including all welded (6mm fillet weld) and bolted connections; delivery to site and erection with and including one shop coat of red oxide zinc chromate primer or similar and two finishing coats including hoisting and fixing approximate 8m above the ground level. Allow for flat Sections gusset plates, connections, bolts etc. All works to be painted with three coats of gloss oil paint</u>				
E	75 x 50 x 3mm Thick external members	10	LM		
F	50 x 50 x 3mm Thick internal bracings		LM		
G	40 x 40 x 3mm Thick internal bracings & purlins	62	LM		
H	25x25x3mm ditto	51	LM		
	<u>Plain sheet</u>				
J	25mm thick plain sheet as fascia	15	SM		
K	200x150x100mm box gutter	7	LM		
	<u>Painting and Decorations</u> <u>On Metal work</u> <u>Prepare and apply one approved etching primer, one undercoat and two coats of approved super gloss oil paint to:-</u>				
L	General surfaces of plain sheet	8	SM		
M	Ditto gutter	3	SM		
	TOTAL FOR ROOFING CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.5</u>				
	<u>FINISHES</u>				
	<u>Floor finishes</u>				
A	PCC slabs laid on and including sand bed	25	sm		
	<u>Benches</u>				
J	Provide a provisional sum of Kshs 150,000 as per architects details		Item		
	TOTAL FOR FINISHES CARRIED TO SUMMARY				
ELE		PAGE NO.			K.SHS.
1	SUBSTRUCTURE (ALL PROVISIONAL)		4		
2	STRUCTURAL STEEL		9		
3	FINISHES		14		
	TOTAL CARRIED TO MAIN SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>PERIMETER WALL FINISHES</u>				
	<u>Demolitions</u>				
A	Demolish wall to create opening for the gate (approx. 19sm)		ITEM		
	<u>Wall Finishes</u>				
	<u>12mm Cement and sand (1:3) render on stone or concrete work</u>				
A	Masonry and concrete surfaces	369	SM		
	<u>Prepare and apply one undercoat and two finishing coats exterior emulsion paint on rendered surface</u>				
B	Rendered surfaces	2255	SM		
	<u>STEEL METAL GATE</u>				
	Provide purpose made steel metal gate double leaf gate overall size 6000 x 2000mm high, red oxide primed frame consisting of 100x50x3mm RHS as main frame with 2No horizontal intermediate railing in 50x50x1.5mm SHS including intermediate vertical rails at 200mm c/c in 50x25x1.5mm SHS including 1.5mm MS plate, 600mm high, welded to the steel members and fix steel frame lugs to concrete column including locking bolts and all other necessary accessories		No		
C	Provide purpose made steel metal gate double leaf gate overall size 6000 x 2400mm high	1	No		
	<u>Painting and decoration</u>				
D	Touch up primer, prepare and apply one undercoat and two finishing coats gloss paint on metal frame of gates (both sides measured)	29	SM		
	Carried to Summary			KSHS	-

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. : LANDSCAPING</u>				
A	Cart away black cotton soil stacked on site <u>Supply, plant,water,weed and tend to all plants and grass including watering, ferlization, weeding, mowing till full establishment</u>	2716	CM		
B	Filling in redsoil free from weeds, roots and debri and spread and slope in all planting areas 300mm deep	5358	SM		
	<u>Soil preparation</u>				
C	Raking to a fine tilth on soil surface to approval of the L. Architect	5358	SM		
D	Provide farm yard goat manure for dressing all lawn areas and planting areas, apply and rake as directed by the L. Architect average 200mm deep <u>Plant installations to include digging the soil to a depth of 300mm, removing all roots and weeds and mixing farmyard manure and red soil (1:3), raking to a fine tilth and all necessary preparation</u> <u>Installation of grass</u>	5358	SM		
E	<i>Paspalum</i> planted at 100mm centre both ways including rolling to even bumps, 1-2 weeks after installation	5130	SM		
F	Allow for making good damaged landscaped area <u>Installation of shrubs</u>	125	SM		
G	Plant assorted 0.6m hardy shrubs of diameter 0.8-1.0m wide, massed (as per Planting Plan)	20	SM		
H	Ditto; but succulent shrubs	30	SM		
	<u>Installation of ground covers</u>				
J	Plant assorted ground covers of diameter 0.3 - 0.6m wide, with approved nursery size/height massed <u>Installation of trees; supply, store in approved condition and plant mature 6ft trees average 50mm diameter</u>	100	SM		
K	Shade trees	60	No		
L	Palm trees	30	No		
M	Fruit trees	25	No		
	<u>Water points</u>				
N	Excavate and lay 25mm PPR pipe laid on ground depth of 0-1500mm deep as directed by Architect	320	LM		
P	Ditto 20mm PPR pipe	175	LM		
Q	25mm GI tap stand complete with tap as 'Peglar' or other equal and approved include all other necessary accessories	25	No		
	Total Carried to Collection				

A	1HP pressurizing water pump	1	NO		
B	Allow for tank connection including all accessories		ITEM		
	<u>EXTERNAL WALKWAYS AND FOOTPATHS</u>				
	<u>Excavations including maintaining and supporting sides and keeping free from water, mud and fallen material</u>				
C	Excavate to reduce levels not exceeding 1.5m deep starting from ground level	52	m3		
	<u>Disposal</u>				
D	Load and cart away surplus excavated material as necessary	26	m3		
	<u>Surface treatment</u>				
E	Roll and compact subgrade to achieve 98% modified proctors MDD including grading to falls and crossfalls	86	m2		
	<u>Sub-base and base courses</u>				
F	150mm Thick natural gravel or murram base compacted to 100% compaction at optimum moisture content	86	m2		
G	Prepare and apply total persistent herbicide to surfaces of sub-base	86	m2		
	<u>Precast concrete paving slabs laid and jointed in cement and sand (1:3) mortar</u>				
H	600 x 600 x 50mm Thick precast concrete paving slabs laid on and including 50mm thick quarry dust bed pointed in cement and sand mortar with neat V-joints	86	m2		
	Carried to Collection			KSHS	
	LANDSCAPING				
	<u>COLLECTION</u>				
		Page No			
	Total Brought Forward from page no	2			
	Total Brought Forward from page no	3			
	Total for Landscaping Carried to Summary				

<u>CULVERTS & HEADWALLS</u>					
<u>Headwalls</u>					
A	Excavate trench for 200mm width headwall starting from ground level to depth not exceeding 1.0m	20	CM		
B	Provide all materials, mix and place 50mm thick concrete grade C10 (1:4:8) as blinding for headwall base	5	SM		
C	Provide all materials, mix and place 150mm concrete grade C20 (1:2:4) as foundation for headwalls.	1	CM		
D	Provide all materials, mix and place 250mm thick Concrete grade C20/20 (1:2:4) as Headwall and Wingwalls	2	CM		
<u>CULVERTS</u>					
<u>Excavation</u>					
E	Excavate trench in normal soil for and 600/450/300mmØ precast concrete pipe and cart away surplus material as directed by the Engineer depth n.e. 1.5m.	19	CM		
<u>Concrete Blinding</u>					
F	Provide, mix and place 50mm thick concrete grade C10 (1:4:8) as blinding for culvert pipe.	13	SM		
<u>Concrete Bedding</u>					
G	Provide, mix and place concrete grade C20 (1:2:4) to construct 150mm thick bed for culvert pipe.	13	SM		
<u>Pre-cast Concrete Piping</u>					
H	Provide, lay and joint 600mm dia. precast concrete pipes on concrete bedding to correct fall.	10	LM		
J	Ditto 450mm dia.	12	LM		
K	Ditto 300mm dia.	4	LM		
L	Provide, mix and place concrete grade C20 (1:2:4) as concrete haunch and surround around pipes. Including all the necessary formwork.	40	SM		
M	Backfill and compact after laying, jointing and surrounding of the pipes.	19	CM		
N	Load and cart away surplus excavated material from site.	30	CM		
Carried to Summary					
<u>COLLECTION</u>					
	From page	1			Amount
	From page	2			
Carried Forward to Summary				KSHS	

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>FOUL WATER DRAINAGE (All Provisional)</u>				
	<u>Excavations</u>				
A	Excavate for trench for 200mm diameter pipe not exceeding 1.50M deep part return fill and ram and part cart away.	5	CM		
B	Ditto 1.5 - 3.0m deep	2	CM		
D	Well consolidated and compacted murram in 150mm layers bed and surround	4	CM		
	<u>UPVC golden brown Class 41 sewer pipe</u>				
E	Provide, lay and joint in trench dia 200mm diameter pipe with flexible rubber rings to detail	10	LM		
F	Extra over for 100mm Thick concrete surround to UPVC pipe at depth not exceeding 1500mm	10	LM		
	<u>Manhole / Inspection Chambers</u>				
G	Excavate for, provide all materials and construct 200mm thick masonry manholes size 600mm x 600mm (internal dimensions) x 600mm (average) to invert, 50mm concrete class 15 blinding, 150mm thick average concrete class 15 benching, frame anchored to masonry walling, with and including 12mm thick water proof plaster to walls and slabs, formwork and building in pipes and cart away of surplus materials; All as per drawings.	4	NO		
H	Ditto: depth 1500mm deep	1	No		
K	Provide and install heavy duty, single seal solid chequered, rectangular manhole 600 x 600mm cover with hand holes to BS 497	5	NO		
	<u>Testing and connection</u>				
L	Allow for testing of sewer line as per specifications and to the satisfaction of the Engineer		ITEM		
	Total for Foul Water Drainage Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>STORM WATER DRAINAGE (ALL PROVISIONAL)</u>				
	<u>OPEN STORM DRAIN</u>				
	Excavations include maintaining and supporting sides of all excavations and keeping same free from all fallen materials, mud and water by pumping, bailing or otherwise				
A	Excavate for precast invert block drain 300mm Diameter, depth not exceeding 1.50 metres average depth 800mm and shape for the drain and cart away surplus material from site	75	CM		
	<u>Drain</u>				
B	Provide, lay and compact approved murram bedding 100mm thick to Engineer's approval	165	LM		
C	50mm Thick concrete blinding 1:3:6 to base	83	SM		
D	Provide, lay and joint with 1:3 mortar precast invert block drain size 600 x 450 x 250mm	115	LM		
E	Demolitions to IBD (approx. 40LM)		ITEM		
F	Provide, lay and joint with 1:3 mortar two coarses of precast side slope slabs size 75 x 225 x 600mm to approval	104	SM		
G	Shallow drain	40	LM		
	Total for Storm Water Drainage Carried Forward to Summary			KSHS	

MECHANICAL WORKS

**PROPOSED OPERATIONALIZATION OF KAHAWA SUKARI LEVEL III HOSPITAL IN KIAMBU COUNTY
MECHANICAL WORKS ((PHASE III))**

	Description	Unit	Qty	Rate (Kshs.)	BQ Amount (Ksh.)
	SANITARY FITTINGS Supply, deliver, install and fix the following sanitary fittings including all materials and jointing to supply, waste/soil and overflow pipes. Duravit products are specified only as indication of quality. Equal and approved appliances may be supplied. Where trade names are mentioned, the Ref. no is intended only as a guide to the type of quality of fittings.				
A	Wash Hand Basin Pedestal wash hand basin size 575 x 500mm with two tap hole, 32mm diameter chrome chain waste, chain stay hole, chrome plated non-conclusive time delay press, action pillar tap as COBRA model and heavy duty chrome plated bottle trap (32mm 'P' trap) with 75mm seal. All fittings to be approved.	No.	6		
B	Soap Dispenser Soap dispenser, capacity 1.136 litres complete with plastic rawl plugs, fixing screws, lock and key complete initial fill of soap gel. All fittings to be approved.	No.	6		
C	6mm thick polished plate glass, silver backed mirror with bevelled edge size 610x497mm plugged and screwed to wall with 4No. Chrome plated.	No.	6		
D	Paper Dispenser wall mounted complete with a fixing screws. All fitting to be approved	No.	6		
E	Split Air Conditioning Units Supply & Installation of Split Wall Mounted Units of aproximately 120,000 BTU with all necessary accecories, electrical components and mechanical components.	Lot.	4		
F	Shower fittings Shower fittings comprising of stop cock concealed riser pipe and bib tap	No	1		
G	Soap Dish wall mounted soap dish, frosted glass in approved colour of size 140mmx119mm. All fittings to be approved.	No.	1		
H	Robe Hook Single chrome robe hooks complete with fixing plates, wall flanges and screws, All fittings to be approved.	No.	3		
I	Water Closet Closed Couple WC Suite in Vitereous China and approved colour comprising of WC bowl, 'P' or 'S' trap connector, heavy duty matching seat and cover with metal fixed chrome plated hinges and chrome plated push button with all other necessary accessories. All fittings to be approved.	No.	2		
J	Toilet roll holder Toilet roll holder in vitreous china to BS 3402 in white colour of size 165x165mm and recessed into wall. Toilet roll holder to be as Twyford's "SEMI RECESSED & ORNAMENTAL" accessories	No.	2		
Total C/F to collection page 4					-

	Description	Unit	Qty	Rate (Kshs.)	BQ Amount (Ksh.)
	INTERNAL PLUMBING WORKS				
	Supply, deliver and install pipes, tubing and fittings as described and shown on drawings. The pipes shall PPR pipes where exposed to adverse weather conditions and all conforming to the current European standards for PPR installations and to the Engineers approval, pipe jointing shall be by polyfusion or use of electric coupling. rates must allow for all metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves sockets, sliding and fixed joints etc. as required in the running lengths of pipe work and also where necessary, for pipe fixing clips, holder bats plugged and screwed for proper and satisfactory functioning of the system. The pipes will be pressure tested before the plastering of wall commences and as per the manufacturers recommended testing pressure.				
	PPR				
A	50mm -ditto-	Lm	40		
B	32mm -ditto-	Lm	40		
C	25mm -ditto-	Lm	40		
D	20mm -ditto-	Lm	40		
	Bends				
E	25mm Diameter Bend	No.	20		
F	32mm Diameter Bend	No.	20		
G	50mm -ditto-	Lm	20		
	Tees				
H	32 equal tee	No.	20		
I	25 -ditto-	No.	20		
J	50mm -ditto-	Lm	20		
	Reducers				
K	40x32 -ditto-	No.	10		
L	32x25 -ditto-	No.	10		
M	25x20 -ditto-	No.	10		
	Threaded Fittings				
N	20mm diameter male/female threaded 90° elbow	No.	10		
	Valves				
O	32mm Approved medium pressure screw down full way non-rising stem wedge gate valve to BS 5154 or series b rating, with wheel and head joints to steel tubing and complete with male threaded transition fittings. The gate valve to be as "Pegler" or approved equivalent	No.	4		
P	25mm -ditto-	No.	5		
	Unions				
Q	32mm diameter union	No	8		
R	25mm ditto	No	10		
S	Pressure testing and commissioning the internal drainage installations	Item	1		
Total C/F to collection page 4					-

	Description	Unit	Qty	Rate (Kshs.)	BQ Amount (Ksh.)
	INTERNAL FOUL DRAINAGE				
	Supply, deliver and install the following UPVC, MUPVC, soil and waste system respectively to B.S 5255 with fittings fixed to manufacturers 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 allow for connection to the nearest manholes and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system.				
	UPVC and MUPVC Soil and Waste				
A	100mm diameter Heavy gauge golden brown UPVC pipe	Lm	20		
B	50mm -ditto-	Lm	20		
C	40mm -ditto-	Lm	20		
D	32mm -ditto-	Lm	20		
	Bends				
E	50mm diameter sweep bend	No.	5		
F	40mm diameter sweep bend	No.	5		
G	32mm diameter sweep bend	No.	5		
	Reducing Socket				
H	40 x 32 reducing socket	No.	5		
	Traps				
I	100 x 50mm diameter four way floor trap and grating	No.	5		
J	Standard 300 x 300 x 450mm masonry gully trap complete with 125mm reinforced concrete cover	No.	4		
K	Inspection channel complete with heavy duty cover (600 x 450 mm)	No.	4		
M	Testing and commissioning the internal drainage installations	Item	1		
Total C/F to collection page 4					-

COLLECTION PAGE FOR SANITARY FITTINGS, PLUMBING & DRAINAGE

Item	Description	BQ Amount (Ksh)
1	Total Carried Forward from Page 1	
2	Total Carried Forward from Page 2	
3	Total Carried Forward from Page 3	
4	Allow Kshs. 200,000 for Contingency to be used as directed by P.M/ PME	
	Total for Sanitary Fittings, Plumbing & Drainage	-

ELECTRICAL WORKS

BILL NO. 1: SUPPLY AND INSTALLATION OF 1No. 100 KVA GENERATOR SET

Item	Description	Qty	Unit	Rate	Amount
1.00	Supply, installation, testing and commissioning of 30Kva prime rated generator set				
1.01	Supply, deliver to site, install, test and commission a prime rated 100KVA generator set, 415V/240V, 3ph, 50hz, 1500 rpm, Sound proofed (Sound attenuated canopy -Max 60dBA at 1m) . (Site rating, to be achieved in Kiambu)-Supplier to state the actual generator parameters and ratings as per the 'Information to be Supplied by Tenderers' form in the tender document. The generator should be equipped with daily service diesel tank capable of running 8 hours and control panel with Over voltage/Undervoltage relays, phase sequence	1	Item		
1.02	Allow for transportation of the 100KVA generator set from the contractors premises, including lifting services, pushing and positioning the generator into the concrete plinth including anti-vibration mountings (NB: The concrete plinth works are done by others)	1	item		
	EARTHING OF THE SET				
1.03	1500mm x 1500mm copper earth mat made from 25mm x 3mm copper tape at 300mm spacing, buried at permanent moisture level and complete with all clamps etc.	1	item		
1.04	Concrete inspection earth pit to engineer's satisfaction with manhole cover clearly labelled 'EARTH'	1	item		
	TOTAL FOR GENERATOR SUPPLY C/F TO THE GENERATOR SUMMARY PAGE				

Item	Description	Qty	Unit	Rate	Amount
2.00	AMF PANEL AND SCHEDULING PANEL				
2.01	Supply an Automatic Mains Failure (AMF) panel rated at 100A. The panel should have a 100A TPN manual by-pass system, complete with MCCB's. The panel should have an audible alarm for failure. Manufactured by SCHNEIDER or approved equivalent. Enclosure should be in 12 gauge galvanized steel, and finished in stove enameled coloured paint, mounting rails and sufficient space for cable termination and mounting of switches	1	item		
2.02	Manual bypass switch with clearly labeled NORMAL-OFF-BYPASS positions and shall such be wired that when the switch is on either OFF or BYPASS position the generator shall receive no signal to start.	1	item		
2.03	Supply of 35mm sq. 4 core XPLE/SWA/XLPE copper cables to connect the generator set to the main switch board (3 runs)	15	Lm		
2.04	2.5mm ² , 4 core armoured, signal copper cable	5	Lm		
2.05	Allow for Pre supply testing (No load test, medium load test and full load test using approved load bank) at the suppliers workshop before delivery in the presence of PEE and Client representative to engineer's satisfaction	No	1		
	TOTAL FOR AMF AND CABLING PANEL C/F TO THE GENERATOR SUMMARY PAGE				

Item	Description	Qty	Unit	Rate	Amount
3.00	EXHAUST SYSTEM				
3.01	Supply, deliver to site and install a steel exhaust pipe of not less than 14 SWG and of adequate diameter running from the generating set to the outside of the building	5	LM		
3.02	Connect the exhaust pipes above using steel pipes of adequate diameter, and flexible piping off engine exhaust manifold	1	item		
3.03	Supply and install a fabricated hot air duct made of galvanised sheet 18g for the two gen sets to engineer's satisfaction (Actual dimensions and extent to be discussed on site)	1	item		
4.01	FUEL STORAGE SYSTEM				
a)	Supply, deliver to site and install to the approval of the Engineer, and connect to the daily service tanks, an auxiliary fuel tank with level indicator capacity of 1500 Litres .The tank is to be complete with stand and all interconnecting G.I pipe work as manufactured by an approved fabricator	1	item		
b)	Supply and install a manual fuel transfer pump plus the necessary piping to interconnect the storage tank to the daily service tanks. (Distance of appro.5m)	1	item		
c)	Allow for testing and commissioning including filling the base belly tank with Diesel fuel supplied by either SHELL or TOTAL petroleum companies(200 litres)	1	item		
	TOTAL FOR EXHAUST AND FUEL STORAGE SYSTEM C/F TO THE GENERATOR SUMMARY PAGE				

SUMMARY PAGE FOR GENERATOR SET

Item		Amount
A	Generator set	
B	AMF and Cabling Panel	
C	Exhaust System and Fuel Storage	
	TOTAL FOR GENERATOR INSTALLATIONS CARRIED TO SUMMARY PAGE	

BILL NO. 2 ELECTRICAL WORKS

Item	Description	Qty	Unit	Rate	Amount
	<i>Supply, install, test, commission and set to work the following.</i>				
	All lighting fittings to be complete with lamp and control gear as applicable.				
1.1	<u>LIGHTING</u>				
	Lighting points wired in 3 X 1.5mm ² PVC SC copper cables in heavy gauge super high impact PVC conduits in walls and slabs, complete with switch boxes being;				
1.1.1a	Lighting point 1-way switched.	10	NO.		
1.1.1b	Lighting point 2-way switched.	8	NO.		
1.1.1c	Lighting point 2-way switched with intermediate switch.	0	NO.		
1.1.1.2	5 A white moulded switch plates as MK or approved equivalent: -				
	(a) 1-gang 1-way	4	NO.		
	(b) 1-gang 2-way	2	NO.		
	(c) 2-gang 1-way	2	NO.		
	(d) 2-gang 2-way	0	NO.		
	(e) intermediate	0	NO.		
1.1.1.3	Lighting fittings, complete with lamps of specified wattage and appropriate colour rendering: -				
1.1.1.3a	1 x 18W HPF fluorescent batten fitting as Thorn or approved equivalent.	5	NO.		
1.1.1.3b	1 x 36W HPF fluorescent batten fitting with diffuser as Thorn or approved equivalent.	13	NO.		
1.1.1.3c	21W 2D Shallow opal surface mounted light fitting as THORN Cat No.2DXN21.	0	NO.		
1.1.1.3d	2 x 18W fully recessed fluorescent fitting with highly polished reflectors and louvred or approved equivalent.	0	NO.		
1.1.1.3e	100W fully recessed Tungsten bulkhead fitting as Thorn Cat. No. OLG 1100, or approved equivalent, complete with a PL 26 "White" lamp.	0	NO.		
	Total C/F to Collection Page.ELE 3				

Item	Description	Qty	Unit	Rate	Amount
1.2	<u>POWER POINTS</u>				
	Supply, install, set to work and commission power points wired in 3 X 2.5mm ² PVC SC CU cables in heavy gauge super high impact PVC conduits in walls and slabs, complete with socket outlet	24	NO.		
1.2.1	Twin 13A standard socket outlets, with safety shutters on both live and neutral and with neon light as MK or equal and approved.	12	NO.		
1.2.1 a	Twin 13A waterproof socket outlets, with safety shutters on both live and neutral and with neon light as MK or equal and approved.	12	NO.		
1.2.1 b	Outlet for fire alarm points comprising concealed PVC conduit, box, wiring in 3 x 1.5mm ² screened fire-proof cable as FIREPIX or approved equivalent, and all accessories.	8	NO.		
1.2.1 c	Smoke detector points comprising concealed PVC conduit, box, wiring in screened fire-proof cable as FIREPIX or approved equivalent, and all accessories.	8	NO.		
1.2.2	IP based PABX syatemwith inbound, outbound calling capabilities for a minimum of 20 no. units complete with Strcured caling in trunking, configuration, testing and commissioning. System to include 10 no. IP desktop telephone	0	item		
1.2.3	Three core 4mm Sq Armored cable	125	LM		
Total C/F to collection Page .ELE 3					

Item	Description	Qty	Unit	Rate	Amount
1.3	POWER SUPPLY				
1.3.1	a) 8-way Distribution board complete with 100A integral switch and all accessories including lockable cover as Multi-9, or approved equivalent.	1	NO.		
	b) 6-way Consumer unit complete with 63A DP switch and all accessories including lockable cover as Multi-9, or approved equivalent.	1	NO.		
1.3.2	Circuit breakers as 6A,32A for above mentioned boards (3,6)	10	NO.		
1.3.3	Submain cable as 3C 6mm ² PVC/SWA/PVC cable, copper from the main metre board to CUs (Provisional)	60	LM		
1.4	Earthing for the boards above	1	Item		
1.4.1	Trunking being 50x50 mm powder coated and wall mounted for cabling in Xray department	60	LM		
1.4.3	Trunking being 150x50 mm two compartment powder coated wall mounted complete with cover for data cabling & power	120	LM		
1.4.3	Inner and outer bends for above 150x50 mm trunking	10	No		
1.4.4	Power poits and data points punchout plates	8	No		
	Audio intercom system for xray room	1	No		
Total C/F TO COLLECTION BELOW					

	COLLECTION				
A	TOTAL FOR PAGE . ELE 1				
B	TOTAL FOR PAGE . ELE 2				
C	TOTAL FOR PAGE ABOVE				
Total C/F to SUMMARY PAGE					

SUMMARY PAGE

Item		Amount
1.00	PRELIMINARY	
2.00	GENERATOR	
3.00	ELECTRICAL WORK	
4.00	PROVIDE A CONTINGENCY SUM OF KSH 150,000.00	
	TOTAL ELECTRICAL WORKS	

Total amount in words

.....

Signed by the tenderer.....

PIN.....VAT.....

REG NO.....

Address.....

Date..... Bidders official stamp.....

Bill	Description	Amount	
	PROPOSED ADDITIONAL WORKS AT KAHAWA SUKARI LEVEL III HOSPITAL (PHASE III) <u>GRAND SUMMARY</u>		Amount (Official Use Only)
1	Particular Preliminaries		
2	General Preliminaries		
3	Builders Works		
	a) Male ward block		
	b) Alterations to existing block		
	c) Waste collection shed		
	d) Waiting bay		
4	Civil Works		
	a) Earthworks and levelling		
	b) Landscaping works		
	c) Parking and driveway		
	d) Stormwater drainage		
	e) Foul water drainage		
	f) Perimeter wall finishes & access gate		
5	Mechanical Works		
6	Electrical Works		
7	Provisional Sums from PC/1		
	a) Project Implementation		
	b) Service charter		
	c) Notice Board		
	d) Branding and Signage		
	e) Contingencies		
	Total Carried to Form of Tender		