



REPUBLIC OF KENYA
**Ministry of Lands, Urban Development, Public Works
& Housing**

**PROPOSED CONSTRUCTION OF
HUDUMA CENTRE AT HADADO**

BILLS OF QUANTITIES

ISSUED BY:

**AG. DIRECTOR,
PUBLIC WORKS DEPARTMENT
P.O. BOX 120
WAJIR**

JANUARY, 2025

PROPOSED HUDUMA CENTRE-HADADO SUBCOUNTY

PARTICULAR PRELIMINARIES

Item	Description	AMOUNT (KSHS)
A	<p><u>PARTICULAR PRELIMINARIES</u></p> <p>EMPLOYER</p> <p>The Employer is the State Department for Public Service- Huduma Kenya Secretariat county. The term "Employer" and "Government" wherever used in the contract document shall be synonymous.</p> <p>PROJECT MANAGER</p> <p>The term "PM" wherever used in these Bills of Quantities shall be deemed to imply the project Manager as defined in Condition 1 of the Conditions of Contract or such person or persons as may be duly authorised to represent him on behalf of the Government .</p> <p>ARCHITECT</p> <p>The term "Architect" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is Ministry of Lands, Urban development, Public work and Housing P.O Box 9, Wajir</p> <p>QUANTITY SURVEYOR</p> <p>The term "Quantity Surveyor" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is Ministry of Lands, Urban development, Public work and Housing P.O Box 9, Wajir</p> <p>ELECTRICAL ENGINEER</p> <p>The term "Electrical Engineer" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is Ministry of Lands, Urban development, Public work and Housing P.O Box 9, Wajir</p> <p>MECHANICAL ENGINEER</p> <p>The term "Mechanical Engineer" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is Ministry of Lands, Urban development, Public work and Housing P.O Box 9, Wajir.</p> <p>STRUCTURAL ENGINEER</p> <p>The term "Structural Engineer" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is Ministry of Lands, Urban development, Public work and Housing P.O Box 9, Wajir.</p>	
	<i>Carried to collection</i>	

Item	Description	AMOUNT (KSHS)
A	<p>PRICING ITEMS OF PRELIMINARIES</p> <p>Prices SHALL BE INSERTED against items of “preliminaries” in the tenderer’s priced Bills of Quantities. The contractor is advised to read and understand all preliminary items.</p>	
B	<p>SCOPE OF CONTRACT</p> <p>The works to be carried out comprises of erection and completion of Huduma Centre Hadado Subcounty and associated, Electrical and Mechanical Installations works at Hadado, Wajir County</p>	
C	<p>DESCRIPTION OF THE WORKS</p> <p>The Works consist :Construction upto completion of Two-storey office block on reinforced concrete foundations. The superstructure will be consist of concrete works and natural stone walling. The roof will consist of EPDM waterproofed slab. The external wall finish will consist of cement sand render to beams and key pointing to wall surfaces. The internal wall finish will include plaster and paint with ceramic tiles to wet areas. Floors to be finished with approved ceramic tiles on cement sand screed backing. External doors are of champaigned aluminum coated doors while internal doors include both aluminum,mahogany and solid core timber flush doors. Windows are in approved glazed Aluminum casement windows.</p> <p>Electrical works include electrical wiring of lighting and socket points,light and socket fittings, power distribution board and K.P.L.C power connection;</p> <p>Mechanical works are , testing and commissioning of sanitary fittings, internal plumbing, foul drainage and mechanical ventilation.</p>	
D	<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 documents shall immediately be referred to the PROJECT MANAGER in accordance with Clause 22 of the Conditions of Contract. The discrepancies shall then be treated as a variation and be dealt with in accordance with Clause 22 of the said Conditions.</p>	
	<p><i>Carried to collection</i></p>	

Item	Description	AMOUNT (KSHS)
A	<p>FLOOR AREAS</p> <p>Proposed Huduma Centre</p> <p>Ground Floor = 384SqM</p> <p>Roof slab = 384SqM</p> <p>Total floor area = 384 SqM</p> <p>Building wall height = 3.0 Meters</p>	
B	<p>LOCATION OF SITE</p> <p>The sites of the proposed works is Hadado, Wajir county.The Contractor is advised to visit the site, to familiarize with the nature and position of the site. No claims arising from the Contractor’s failure to do so will be entertained.</p>	
C	<p>SIGNING OF THE TENDER DOCUMENTS</p> <p>The bidder shall append his / her signature and / or company ‘s rubberstamp on each and every page of tender document.</p>	
D	<p>DEMOLITIONS AND ALTERATIONS</p> <p>The Contractor is to allow for all temporary protection required during the works including ordinary and special dust screens, hoardings, barriers, warning signs, etc as directed by the Project Manager and as necessary for the adequate propping and protection of existing property, finishes, workmen employed on the site, employer’s agents and the public. Any damage or loss incurred due to the insufficiency of such protection must be made good by the Contractor. All protective devices are to be removed on completion of the works and any necessary making good consequent upon this is to be executed to the satisfaction of the Project Manager.</p> <p>The works shall be propped, strutted and supported as necessary before any alteration or demolition work commences. Prices shall include for all cleaning and preparatory work to structure and finishes and for making good to all finishes on completion whether or not specifically described.</p> <p>Unless described as set aside for re-use all arising debris and surplus materials shall be carefully removed from building and carterd away from site.</p> <p>The Contractor shall be entirely responsible for any breakage or damage which may occur to materials required for re-use during their removal unless it is certified by the Project Manager that such damage or breakage was inevitable as a result of the condition of the item concerned.</p>	
	<p><i>Carried to collection</i></p>	

Item	Description	AMOUNT (KSHS)
A	<p>CLEARING AWAY</p> <p>The Contractor shall remove all temporary works, rubbish, debris and surplus materials from the site as they accumulate and upon completion of the works, remove and clear away all plant, equipment, rubbish, unused materials and stains and leave in a clean and tidy state to the reasonable satisfaction of the Project Manager.</p> <p>The whole of the works shall be delivered up clean, complete and in perfect condition in every respect to the satisfaction of the Project Manager.</p>	
B	<p>CLAIMS</p> <p>It shall be a condition of this contract that upon it becoming reasonably apparent to the Contractor that he has incurred losses and / or expenses due to any of the contract conditions, or by any other reason whatsoever, he shall present such a claim or intent to claim notice to the PROJECT MANAGER within the contract period. No claim shall be entertained upon the expiry of the said contract period.</p>	
C	<p>PAYMENTS</p> <p>The tenderer's attention is drawn to the fact that the GOVERNMENT DOES NOT MAKE ADVANCE PAYMENTS but pays for work done and materials delivered to sit: all in accordance with Clause 23 of the Conditions of Contract Agreement. In order to facilitate this, a list of the general component elements for the works is given at the summary page of these specifications and the tenderer is requested to break down his tender sum commensurate to the said elements.</p>	
D	<p>PREVENTION OF ACCIDENT, DAMAGE OR LOSS</p> <p>The Contractor is notified that these works are to be carried out on a restricted site where the client is going on with other normal activities. The Contractor is thus instructed to take reasonable care in the execution of the works as to prevent accidents, damage or loss and disruption of activities being carried out by the Client. The Contractor shall allow in his rates any expense he deemed necessary by taking such care within the site.</p>	
E	<p>WORKING CONDITIONS</p> <p>The Contractor shall allow in his rates for any interference that he may encounter in the course of the works for the Client may in some cases ask the Contractor not to proceed with the works until some activities within the site are completed, as the facility will be operating as usual during the course of the contract.</p>	
F	<p>SIGNBOARD</p> <p>Allow for providing, erecting, maintaining throughout the course of the Contract and afterwards clearing away a signboard as designed, specified and approved by the Project Manager.</p>	
G	<p>LABOUR CAMPS</p> <p>The Contractor shall not be allowed to house labour on site. Allow for transporting workers to and from the site during the tenure of the contract.</p>	
	<p><i>Carried to collection</i></p>	

Item	Description	AMOUNT (KSHS)
A	<p>MATERIALS FROM DEMOLITIONS</p> <p>Any materials arising from demolitions and not re-used shall become the property of the client. The Contractor shall allow in his rates the cost of disposing the demolished materials as directed.</p>	
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>SECURITY</p> <p>The Contractor shall allow for providing adequate security for the works and the workers in the course of execution of this contract. No claim will be entertained from the Contractor for not maintaining adequate security for both the works and workers.</p>	
D	<p>URGENCY OF THE WORKS</p> <p>The Contractor is notified that these “works are urgent” and should be completed within the period stated in these Particular Preliminaries.</p> <p>The Contractor shall allow in his rates for any costs he/ she deems that he/she may incur by having to complete these works within the stipulated contract period.</p>	
E	<p>PAYMENT FOR MATERIALS ON SITE</p> <p>All materials for incorporation in the works must be stored on site before payment is effected, unless specifically exempted by the Project Manager. This is to include materials of the Contractor, nominated sub-Contractors and nominated suppliers.</p>	
F	<p>EXISTING SERVICES</p> <p>Prior to the commencement of any work, the Contractor is to ascertain from the relevant authority the exact position, depth and level of all existing services in the area and he/she shall make whatever provisions may be required by the authorities concerned for the support, maintenance and protection of such services.</p>	
G	<p>CONTRACT COMPLETION PERIOD</p> <p>The contract completion period in accordance with condition 31 of the Conditions of contract must be adhered to.</p> <p>The ‘PROJECT MANAGER’ shall strictly monitor the Contractors progress in relation to the progress chart and should it be found necessary the ‘PROJECT MANAGER’ shall inform the Contractor in writing that his actual performance on site is not satisfactory .In all such cases the Contractor shall accelerate his rate of performance production and progress by all means such as additional labour,plant, e.t.c and working overtime all at his cost.</p>	
	<p><i>Carried to collection</i></p>	

Item	Description	AMOUNT (KSHS)
A	<p>PERFORMANCE BOND</p> <p>A bond of 5% of the contract sum will be required in accordance with clause 6.00 (as amended) on award of contract of the Instructions to Tenderer's. No payment on account for the works executed will be made to the contractor until he has submitted the Performance Bond to the Project Manager duly signed, sealed and stamped from an approved Bank or insurance company approved by PPRA.</p>	
B	<p>TENDER DOCUMENTS</p> <p>Tender documents are as listed in Clause 2.1 of the Instruction to Tenderer's Page STD/9</p>	
C	<p>DELIVERY OF TENDER</p> <p>Tenders and all documents in connection therewith, as specified above must be delivered in the addressed envelope which should be properly sealed and deposited at the offices as specified in the letter accompanying these documents or as indicated in the advertisement.</p> <p>Tenders will be opened at the time specified in the letter accompanying these Tender Documents or as indicated in the advertisement. Tenders delivered/received later than the above time will not be opened.</p>	
D	<p>VALUE ADDED TAX</p> <p>The Contractor's attention is drawn to the Legal Notice in the Finance Act part 3 Section 21(b) operative from 1st September, 1993 which requires payment of VAT on all contracts. The Contractor should therefore include allowance in his rates and prices for prices for VAT and any other Government taxes currently in force.</p> <p>The tenderer is advised that in accordance with Government public notice No. 35 & 36 Dated 11th September 2003 operational from 1st October 2003, VAT will be deducted against the contract sum at the prevailing rate by the Employer and remitted directly to the Commissioner of VAT through all interim certificates. It should however be noted that this is not additional tax but a new mode of payment for VAT, any excess payment will be refundable once the Contractor has submitted monthly returns to the Commissioner of VAT who will do the refunds when satisfied that the VAT regulations have been complied with.</p> <p>NB: The Contractor should therefore include the VAT tax within the rates.</p>	
E	<p>EXISTING BUILDING MATERIALS</p> <p>NOTE: Any materials found usable for the works shall be given to the contractor on credit with the approval of the client</p>	
	<p><i>Carried to collection</i></p>	

Item	Description	AMOUNT (KSHS)
	<p>PROJECT MANAGERS EXPENSES</p> <p>A Provide a provisional sum of Kenya Shillings OneHundred and Fifty Thousand (Kshs 150,000.00) only for Clerk of works expenses</p> <p>Allow for Contractor's profit and overheads (-----%)</p> <p>B Provide a Provisional Sum of Kenya Shillings Four Hundred and Fifty Thousand (Ksh450,000.00) only for Project Manager's Expenses</p> <p>Allow for Contractor's profit and overheads (-----%)</p> <p>C</p> <p>Provide sum of Kenya Shillings Fifty thousand (Kshs 50,000.00) only for stationery</p> <p>Allow for Contractor's profit and overheads (-----%)</p> <p>D</p> <p>1No. Laptop computer HP SPECTRE X360 15.6" 10th generation i9 with 32GB RAM/1TB+32 SSD storage, 4GB Graphics complete with windows 10</p> <p>Allow for Contractor's profit and overheads (-----%)</p> <p>E Provide a Provisional Sum Of Kenya Shillings One Hundred and Fifty Thousand for Project Manager's Office which includes provision of furniture, sanitary facilities and electricity as may be directed by the project Manager</p> <p>Allow for Contractor's profit and overheads (-----%)</p>	
	<p><i>Carried to collection</i></p> <p><i>PP/7</i></p>	

Item	Description	AMOUNT (KSHS)
	<p><u>PARTICULARS OF INSERTIONS TO BE MADE IN APPENDIX TO CONTRACT AGREEMENT</u></p> <p>The following are the insertions to be made in the appendix to the Contract Agreement: -</p> <p>Period of Final Measurement 5 Months From Practical completion</p> <p>Defects Liability Period 6 Months from Practical completion</p> <p>Date for Possession To be agreed with the Project Manager</p> <p>Date for Completion Weeks from date of Possession</p> <p>Liquidated and Ascertained At the rate of Kshs.. per week or part thereof:</p> <p>Prime cost sums for which The Contractor desires to tender</p> <p>Period of Interim Certificates Monthly</p> <p>Period of Honouring Certificates 30 days</p> <p>Percentage of Certified Value Retained 10%</p> <p>Limit of Retention Fund 10%</p>	
	<i>Carried to collection</i>	

Item	Description	AMOUNT (KSHS)
	<p><u>COLLECTION</u></p> <p>Brought forward from page PP/1</p> <p>Brought forward from page PP/2</p> <p>Brought forward from page PP/3</p> <p>Brought forward from page PP/4</p> <p>Brought forward from page PP/5</p> <p>Brought forward from page PP/6</p> <p>Brought forward from page PP/7</p> <p>Brought forward from page PP/8</p>	
	TOTAL FOR PARTICULAR PRELIMINARIES CARRIED TO GRAND SUMMARY	

GENERAL PRELIMINARIES

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

Item	Description	AMOUNT (KSHS)
A.	<p>EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT</p> <p><i>Attendance</i> ; Clause B19(a) of the Standard Method of Measurement is deleted and the following clause is substituted:-</p> <p>Attendance on nominated Sub-Contractors shall be given as an item in each case shall be deemed to include: allowing use of standing scaffolding, mess rooms, sanitary accommodation and welfare facilities; provision of special scaffolding where necessary; providing space for office accommodation and for storage of plant and materials; providing light and water for their work: clearing away rubbish; unloading checking and hoisting: providing electric power and removing and replacing duct covers, pipe casings and the like necessary for the execution and testing of Sub- Contractors' work and being responsible for the accuracy of the same.</p> <p><i>Fix Only:-</i></p> <p>"Fix Only" shall mean take delivery at nearest railway station (Unless otherwise stated), pay all demurrage charges, load and transport to site where necessary, unload, store, unpack, assemble as necessary, distribute to position, hoist and fix only.</p>	
B	<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 (2006 Edition) included herein:</p> <p>The Conditions of Contract are also included herein</p> <p><i>Conditions of Contract</i></p> <p>These are numbered from 1 to 37 as set out in pages <i>18 to 37</i> of these tender documents. Particulars of insertions to be made in the Appendix to the Contract Agreement will be found in the Particular Preliminaries part of these Bills of Quantities</p>	
C	<p>PLANT, TOOLS AND VEHICLES</p> <p>Allow for providing all scaffolding, plant, tools and vehicles required for the works except in so far as may be stated otherwise herein and except for such items specifically and only required for the use of nominated Sub-Contractors as described herein. No timber used for scaffolding, formwork or temporary works of any kind shall be used afterwards in the permanent work.</p>	
D	<p>TRANSPORT.</p> <p>Allow for transport of workmen, materials, etc., to and from the site at such hours and by such routes as may be permitted by the competent authorities.</p>	
	<p><i>Carried to collection</i></p>	

GP/2

Item	Description	AMOUNT (KSHS)
A	<p>MATERIALS AND WORKMANSHIP.</p> <p>All materials and workmanship used in the execution of the work shall be of the best quality and description unless otherwise stated. The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that they are onsite when required for use in the works. The Bills of Quantities shall not be used for the purpose of ordering materials.</p>	
B	<p>SIGN FOR MATERIALS SUPPLIED.</p> <p>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>	
C	<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>	
D	<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 Public Works.</p> <p>The procedure for submitting samples of materials for testing and the method of marking for identification shall be as laid down by the PROJECT MANAGER The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub-contractors' work.</p>	
	<p><i>Carried to collection</i></p>	

Item	Description	AMOUNT (KSHS)
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 work people.</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 the Contractor, before tendering, shall obtain from the relevant Authority the fullest information regarding all such regulations and/or restrictions which may affect the organisation of the works, supply and control of labour, etc., and allow accordingly in his tender. No claim in respect of want of knowledge in this connection will be entertained.</p>	
C	<p>PUBLIC AND PRIVATE ROADS.</p> <p>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>	
D	<p>EXISTING PROPERTY.</p> <p>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>	
E	<p>VISIT SITE AND EXAMINE DRAWINGS.</p> <p>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>	
	<p><i>Carried to collection</i></p>	

Item	Description	AMOUNT (KSHS)
A	<p>ACCESS TO SITE AND TEMPORARY ROADS.</p> <p>Means of access to the Site shall be agreed with the PROJECT MANAGER prior to commencement of the work and Contractor must allow for building any necessary temporary access roads (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>	
B	<p>AREA TO BE OCCUPIED BY THE CONTRACTOR</p> <p>The area of the site which may be occupied by the Contractor for use of storage and for the purpose of erecting workshops, etc., shall be defined on site by the PROJECT MANAGER</p>	
C	<p>OFFICE ETC. FOR THE PROJECT MANAGER</p> <p>The Contractor shall provide, erect and maintain where directed on site a properly ventilated lockable office for the consultants, having a minimum floor area of 40 Square Metres complete with furniture (Tables, chairs e.t.c). Provision shall be made for artificial lighting and cleaning facilities for the duration of the works. Upon completion the Contractor shall dismantle and clear away the office. 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>	
D	<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>	
	<p><i>Carried to collection</i></p>	

Item	Description	AMOUNT (KSHS)
A	<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>	
B	<p>SUPERVISION AND WORKING HOURS</p> <p>The works shall be executed under the direction and to the entire satisfaction in all respects of the PROJECT MANAGER who shall at all times during normal working hours have access to the works and to the yards and workshops of the Contractor and sub-Contractors or other places where work is being prepared for the contract.</p> <p>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>	
C	<p>PRIME COST (OR P.C.) SUMS.</p> <p>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>	
D	<p>PROGRESS CHART.</p> <p>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>	
E	<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. 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 prorata 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 SubContractor.</p>	
	<p><i>Carried to collection</i></p>	

GP/6

Item	Description	AMOUNT (KSHS)
A	<p>NOMINATED SUB-CONTRACTORS</p> <p>When any work is ordered by the PROJECT MANAGER to be executed by nominated subcontractors, the Contractor shall enter into sub-contracts as described in Condition No. 20 of the Conditions of Contract and shall thereafter be responsible for such subcontractors in every respect. Unless otherwise described the Contractor is to provide for such SubContractors 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</p> <p>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.</p> <p>The Contractor shall allow for the attendance of trade upon trade and shall afford any tradesmen or other persons employed for the execution of any work not included in this Contract every facility for carrying out their work and also for use of his ordinary scaffolding. The Contractor, however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for and making good after the work of such tradesmen or persons as may be ordered by the PROJECT MANAGER and the work will be measured and paid for to the extent executed at rates provided in these Bills.</p>	
D	<p>REMOVAL OF RUBBISH</p> <p>Removal of rubbish and debris from the Building and the site as it accumulates and at he completion of the works and removal all plant, scaffolding and unused materials at completion.</p>	
E	<p>INSURANCE</p> <p>The Contractor shall insure as required in Conditions No 30 of the Conditions of Contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the PROJECT MANAGER either by production of an Insurance Policy or and Insurance Certificate that the provision of the foregoing Insurance Clauses have been complied with in all respects. Thereafter the PROJECT MANAGER shall from time to time ascertain that premiums are duly paid up by the Contractor who shall if called upon to do so, produce the receipted premium renewals for the PROJECT MANAGER's inspection.</p>	
F	<p>PROVISIONAL WORK</p> <p>All work described as "Provisional" in these Bills of Quantities is subject to remeasurement in order to ascertain the actual quantity executed for which payment will be made. All "Provisional" and other work liable to adjustment under this Contract shall left uncovered for a reasonable time to allow all measurements needed for such adjustment to be taken by the PROJECT MANAGER Immediately the work is ready for measuring, the Contractor shall give notice to the PROJECT MANAGER so directs uncover the work to enable all measurements to be taken and afterwards reinstate at his own expense.</p>	

	<i>Carried to collection</i>	
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GP/7

Item	Description	AMOUNT (KSHS)
A	<p>ALTERATIONS TO BILLS, PRICING, ETC.</p> <p>Any unauthorised alteration or qualification made to the text of the Bills of Quantities may cause the Tender to be disqualified and will in any case be ignored. The Contractor shall be deemed to have made allowance in his prices generally to cover any items against which no price has been inserted in the priced Bills of Quantities. All items of measured work shall be priced in detail and the Tenders containing Lump Sums to cover trades or groups of work must be broken down to show the price of each item before they will be accepted.</p>	
B	<p>BLASTING OPERATIONS</p> <p>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</p> <p>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>	
D	<p>PROTECTION OF THE WORKS.</p> <p>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>	
E	<p>WORKS TO BE DELIVERED UP CLEAN</p> <p>Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash (except where such treatment might cause damage) and clean all floors, sanitary fittings, glass inside and outside and any other parts of the works and remove all marks, blemishes, stains and defects from joinery, fittings and decorated surfaces generally, polish door furniture and bright parts of metalwork and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the PROJECT MANAGER.</p>	
F	<p>GENERAL SPECIFICATION.</p> <p>For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Ministry of Roads and Public Works and Housing General Specification dated 1976 or any subsequent revision thereof which is issued as a separate document, and which shall be allowed in all respects unless it conflicts with the General Preliminaries, Trade Preambles or other items in these Bills of Quantities.</p>	
	<i>Carried to collection</i>	

GP/8

Item	Description	AMOUNT (KSHS)
A	<p>TRAINING LEVY</p> <p>The Contractor's attention is drawn to the legal notice which requires payment by the Contractor of a Training Levy at the rate of 1/4 % of the Contract sum on all contracts of more than KShs. 1,000,000.00 in value.</p>	
B	<p>MATERIALS ON SITE</p> <p>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>	
C	<p>HOARDING</p> <p>The Contractor shall enclose the site or part of the works under construction with a hoarding 2400 mm high consisting of iron sheets on 100 x 50 mm timber posts firmly secured at 1800 mm centres with two 75 x 50 mm timber rails. 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>	
D	<p>CONTRACTOR'S SUPERINTENDENCE/SITE AGENT</p> <p>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>	
E	<p>BOND</p> <p>The contractor shall find and submit on the Form of Tender an approved bank who will be willing to be bond to 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 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 Governmet.</p>	
	<p><i>Carried to collection</i></p>	

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

Item	Description	AMOUNT (KSHS)
	<u>COLLECTION</u>	
	Brought Forward From Page GP/1	
	Brought Forward From Page GP/2	
	Brought Forward From Page GP/3	
	Brought Forward From Page GP/4	
	Brought Forward From Page GP/5	
	Brought Forward From Page GP/6	
	Brought Forward From Page GP/7	
	Brought Forward From Page GP/8	
	Brought Forward From Page GP/9	
	TOTAL FOR GENERAL PRELIMINARIES CARRIED TO GRAND SUMMARY	

PREAMBLES AND PRICING NOTES

PREAMBLES AND PRICING NOTES

A. GENERALLY

All work to be carried out in accordance with the Ministry of Public Works General Specifications for Building Works issued in 1976 or as qualified or amended below.

Where manufacturers' names and catalogue references are given for guidance to quality and standard only. Alternative manufacturer of equal quality will be accepted at the discretion of the

C. WALLING

All precast concrete blocks shall be manufactured by the methods and to the sizes specified in the Ministry of Public Works "Specification for Metric Sized Concrete Blocks for Building

Walling of 100 mm thickness or under shall be reinforced with hoop iron every alternate course.

Prices for walling must allow for all costs in preparing, packing and sending sample blocks for

D. CARPENTRY

The grading rules for cypress shall be the same for podocarpus and all timber used for structural

All structural timber must conform to the minimum requirements for moisture content and preservative treatment and timber prices must allow for preparing, packing and sending samples

Prices must also include for all nails and fasteners.

E. JOINERY

Cypress for joinery shall be second grade in accordance with the latest grading rules of the

Where Mahogany is specified, this refers to prime grade only. The Contractor may with the approval of the Project Manager; use either Msharagi or Mvuli in lieu of Mahogany but such

Plugging shall be carried out by drilling walling or concrete with masonry drill and filling with propriety plugs of the correct sizes. Cutting with hammer and chisel will not be allowed.

Prices for joinery must include for pencil rounded arises, protection against damage, nails,

Sizes given for joinery items are nominal sizes and exact dimensions of doors, etc, must be

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

A. IRONMONGERY

Ironmongery shall be specified in the Bills of Quantities or equal and approved.

Prices must include for removing and re-fixing during and after painting, labeling all keys, and

Catalogue references given for ironmongery are for purposes of indicating quality and size of item(s). Should the Contractor wish to substitute the specified item(s) with others of equal

B. STRUCTURAL STEELWORK

All structural steelwork shall comply with the Ministry of Public Works "Structural Steelwork Specification (1973) and shall be executed by an approved Sub-contractor.

C. PLASTERWORK AND OTHER FINISHES

All finishing shall be as described in the general specifications and in these Bills of Quantities.

Prices for paving are to include for brushing concrete clean, wetting and coating with cement

Rates for glazed wall tiling are to include for a 12 mm cement and sand (1:4) backing screed

D. GLAZING

Where polished plate glass is specified, this refers to general glazing quality.

Prices for glazing shall include for priming of rebates before placing putty.

The Contractor will be responsible for replacing any broken or scratched glass and handing over

E. PAINTING

Painting shall be applied in accordance with the manufacturers' instructions.

Prices for painting are to include for scaffolding, preparatory work, priming coats, protection of other works and for cleaning up on completion. Prices for painting on galvanized metal are to

PN/24

BUILDER'S WORKS

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	ELEMENT NO 1:SUBSTRUCTURE (ALL PROVISIONAL)				
	<u>Site Clearance</u>				
A	Clear the site of all bushes and small trees n.e 3000mm girth and burn the arising debris <u>Excavation and earthworks</u>	SM	496		
B	Strip the top soil to remove vegetable soil average depth 150mm deep and remove from site	SM	496		
C	Excavate to reduced levels commencing from stripped level average 150 mm	SM	496		
D	Excavate for bulk excavation to achieve levels	CM	744		
E	Excavate foundation trenches starting from reduced level n.e 1.5m deep	CM	216		
F	Excavate for column bases starting from reduced level n.e 1.5m deep	CM	43		
G	Load and cart away excavated material as instructed by project manager	CM	110		
H	Return fill and rum selected excavated material as instructed by project manager	CM	62		
	<u>Fillings</u>				
H	Compacted hardcore in stages of 150mm thick to engineer's satisfaction	CM	744		
I	50mm thick murrum blinding to well compacted hardcore	SM	384		
	<u>Anti-termite treatment</u>				
J	Treatment of murrum surfaces with insecticide make of gladiator or equal and approved to architect's approval	SM	384		
TOTAL CARRIED TO COLLECTION					-

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<u>Concrete works</u>				
	<u>Mass concrete class 15 (1:4:8) in;</u>				
A	50mm thick blinding to foundation trenches	SM	144		
B	Ditto but to column bases	SM	26		
	<u>Vibrated reinforced concrete class 25, mix (1:1.5:3) with minimum cube strength of 17N/mm² at 7days and 25N/mm² at 28days with 20mm maximum aggregate size;</u>				
E	Strip footing	CM	40		
F	Column bases	CM	8		
G	Starter columns	CM	3		
K	150mm thick ground floor slab	SM	384		
	<u>Sawn Cypress Formwork to;</u>				
L	Sides/battering of starter columns	SM	41		
N	Edges of slab girth 75-150mm	LM	99		
	<u>Reinforcement</u>				
	<u>Steel reinforcement as described including cutting to length, bending and fixing including all necessary tying wires and spacing blocks (all provisional)</u>				
K	Assorted bars	KG	6120		
	<u>Damp proofing</u>				
N	500 gauge damp proof membrane;1 no laid on compacted quarry dust blinding	SM	384		
TOTAL CARRIED TO COLLECTION					-

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
A	<p><u>Mesh fabric reinforcement to B.S 4483 and setting in concrete with 300mm side and end laps</u></p> <p>No. A 142 fabric weighing 2.22Kg/sm fixed in bed</p>	SM	384		
B	<p><u>Natural coral foundation stone walling with a minimum crushing resistance of 7KN/M2 bedded and jointed in cement sand 1:3 with 25*3mm hoop iron in every alternate course</u></p> <p>200mm thick</p> <p><u>Plinth</u></p>	SM	240		
C	20mm thick cement sand (1:3) render to plinth	SM	54		
D	Mazeras cladding	SM	54		
TOTAL CARRIED TO COLLECTION					-
<p><u>COLLECTION</u></p> <p><i>Total brought forward from page 1</i></p> <p><i>Total brought forward from page 2</i></p> <p><i>Total brought forward from above</i></p>					
TOTAL SUBSTRUCTURE CARRIED TO SUMMARY				Ksh	

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<u>ELEMENT 2:RC SUPERSTRUCTURE</u>				
	<u>Formwork</u>				
	<u>Sawn Cypress Formwork to:</u>				
A	Sides/battering of columns	SM	138		
B	Edges/sides and soffites of beams	SM	211		
C	Soffites of suspended slabs	SM	384		
D	Edges of suspended slabs (150-225mm)	LM	122		
	<u>Concrete works</u>				
	<u>Vibrated reinforced concrete class 25, mix (1:1.5:3) with minimum cube strength of 17N/mm2 at 7days and 25N/mm2 at 28days with 20mm maximum aggregate size in;</u>				
E	Columns	CM	15		
F	Beams	CM	12		
G	150mm suspended slab	SM	384		
	<u>Reinforcement</u>				
	<u>Steel reinforcement as described including cutting to length, bending and fixing including all necessary tying wires and spacing blocks;</u>				
H	Assorted bars	KG	10152		
	TOTAL RC SUPERSTRUCTURE CARRIED TO SUMMARY				-

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	ELEMENT 4: ROOF AND RAINWATER GOODS (All Provisional)				
	<u>Coping</u>				
A	450x150mm av.thick precast concrete coping twice weathered and throated and bedded in c/s 1:3 mortar	LM	109		
	<u>Roof Bed finishes</u>				
	<u>Screeds;28mm thick 1No coat work; cement sand (1:3) to hacked concrete or blockwork base;</u>				
B	To floors laid to fall on suspended slab bed including 150mm girth rain water channel	SM	384		
C	3 layer bituminous compound as EPDM rubber or equal and approved to roofing laid on screed ms	SM	384		
D	3 layers bituminous felt on vertical skirting av. 100mm high	LM	109		
	<u>Parapet walling</u>				
	<u>Insitu finishes</u>				
	<u>Plaster;15mm thick 2No coat work ,12mm first coat of cement sand (1:3) ; 3mm second coat cement and lime putty (1:9) steel trowelled plaster to concrete or blockwork base to receive painting</u>				
E	To parapet walling	SM	130		
F	50 x 50 mm asphalt angle fillet in 3 coats including making groove for asphalt	LM	109		
G	32mm galvanised mild steel flashing two bent and built to masonry parapet wall including grooving	LM	109		
TOTAL CARRIED TO COLLECTION					-

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	Rainwater goods				
	<u>Supply,install and fix the following</u>				
A	Cut hole through 200mm masonry wall for a 100mm heavy gauge ,PVC rain water down pipe	NO	8		
B	Ditto but for 100 mm diameter outlet	NO	8		
	Downpipe				
C	100 mm diameter Class B, PVC downpipe fixed to wall with and including holder butts at 1000mm centres	LM	48		
E	Extra over horse shoe 300 mm long	NO	8		
TOTAL CARRIED TO COLLECTION					

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<p>COLLECTION</p> <p><i>Total brought forward from page 1</i></p> <p><i>Total brought forward from page 2</i></p>				
	TOTAL ROOFING CARRIED TO SUMMARY PAGE				

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	ELEMENT NO 4: WALLING				
	<u>Damp proof course</u>				
A	200 mm wide damp proofing course including levelling	LM	153		
B	Ditto 150mm thick	LM	17		
	<u>Natural coral natural stone walling with a minimum crushing resistance of 7KN/M2 bedded and jointed in cement sand 1:3 with 25*3mm hoop iron in every alternate course</u>				
C	200mm thick;external walling	SM	233		
D	200mm thick;internal	SM	102		
E	150mm thick;internal	SM	48		
	Permanent ventilation				
F	Decorative burnt brick vent blocks size 200x200x200mm bedded and jointed in cement sand 1:3 as per specifications	SM	41		
	TOTAL WALLING CARRIED TO SUMMARY				-

PPROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	ELEMENT NO 5:				
	<u>WINDOWS</u>				
	<u>Window cill</u>				
	<u>Bull-nosed burnt clay, finishing fair on all exposed surfaces and hoisting and placing in position, bedding, jointing and pointing in pigmented cement and sand (1:3) 150 x 25mm thick clay window sill</u>	LM	43		
	<u>Supply and fix purpose made, in approved colour, powdered coated aluminium windows in standard aluminium sections approval consisting of a plugged 100mm x 50mm powder coated aluminium frame all round the leaf glazed with and including 6mm thick laminated sheet glass complete with rubber glazing, butt hinges, approved handle and all necessary iron mongery</u>				
B	Window(W1), overall size 600x2150mm high	NO	4		
C	Ditto(W2), overall size 2600x2000mm high	NO	1		
D	Ditto (W3) overall size 3000x1200mm high	NO	4		
E	Window(W4), overall size 4000x1200mm high	NO	2		
F	Ditto (W5) overall size 2300x1200mm high	NO	1		
G	Window(W6), overall size 2450x1200mm high	NO	3		
H	Ditto(W7)overall size 2800x1200mm high	NO	1		
J	Window(W8)overall size 2800x2650mm high	NO	1		
K	Ditto(W9)overall size 1200x1200mm high	NO	1		
L	Ditto(W10)overall size 1500x1200mm high	NO	1		
	<u>Window board</u>				
M	150x25mm sawn cypress planed window board fixed to wall internally	LM	31		
	TOTAL CARRIED TO COLLECTION				

PPROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
A	<p>Window Barglur Proofing</p> <p><u>Mild steel casement Windows ;60x60x2.5mm frame plugged to concrete or blockwork with 100mm long fishtailed 25x25x2mm thick angle section, 25x25x5mm thick Square Hollow section frames at 175mm centres both sides as "Magnador" or any approved by the Architect, S.H.S cut and welded; one coat manufacturer`s primer, complete with all necessary ironmongery ; all welding ground to smooth finish</u></p> <p>Overall area</p> <p><u>Painting and Decorations</u></p> <p><u>Prepare and apply one coat etching primer,one undercoat and 2 coats gloss oil paint to Crown Solo or other equal and approved to steel doors surfaces:-</u></p>	SM	60		
B	Internally	SM	60		
C	Externally	SM	60		
D	<p><u>Supply and fix venetian window blinds or equal and approved to specifications in:-</u></p> <p>General casement window surfaces</p>	SM	90		
TOTAL CARRIED TO COLLECTION					

	<u>COLLECTION</u> <i>Total brought forward from page 1</i> <i>Total brought forward from page 2</i>				
	TOTAL WINDOWS CARRIED TO SUMMARY				

WIN/2

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<u>ELEMENT NO 6: DOORS</u>				
	Aluminum doors				
	Supply and fix approved colour powdered coated aluminium Single swing doors in standard aluminium sections approval consisting of a plugged 100mm x 50mm powder coated aluminium frame all round the leaf glazed with and including 6mm thick laminated glass complete with rubber glazing,approved handle and all necessary ironmongery				
A	Door Size 800x 2650mm high WO1	NO	1		
B	Ditto 925X2050mm high WO3	NO	1		
C	Ditto but 900x2050mm high;louvred D1	NO	2		
	<u>Pannel doors</u>				
	Frames and framings ; prime grade				
	<u>Wrot mahogany or any other equal and approved;-</u>				
D	150x50mm rebated with two labours plugged door frame	LM	88		
E	45x38mm architrave with 2 labours	LM	176		
F	25mm quadrant	LM	176		
G	15x15mm beading	LM	176		
	<u>45mm thick hardwood solid panel door infilled with 300x400x45mm panelsick hardword comprising of 150x50mm framings all round;-as per architects specifications</u>				
H	Double leaf door (W12) size 1600x2100mm high complete as in specifications and drawings	NO	1		
J	Single leafdoor 1000mmx2650mm high (W10) Ditto	NO	1		
K	Ditto 1000mmx2150mm high (WO8)	NO	1		
L	Ditto 1000mmx2550mm high (WO9)	NO	6		
M	Ditto 850x2050mm high (WO2)	NO	5		
N	Ditto 900x2550mm high (WO4)	NO	1		
TOTAL CARRIED TO COLLECTION					

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

D/1

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	Flush Doors				
	<u>Wrot cypress framed frames and framings</u>				
A	100x50mm rebated plugged door frame	LM	27		
B	50x20mm architrave with 2 labours	LM	23		
C	20mm quadrant	LM	23		
D	15x15mm beading	LM	2		
	<u>45mm thick solid core flush door to BS459; part 2 ;laminated both sides and lipped on all edges with wrot mahogany.</u>				
E	Double leaf door(W12) size 1750x2500mm high with waterproof plastic laminate on both sides and 20mm thick wrot hardwood lipping all round	NO	1		
F	Single swing door (W07) 900x2500mm high Ditto	NO	1		
G	Ditto (WO5) 900x 2650mm high	NO	1		
	<u>Iron mongery</u>				
	<u>Supply and fix: 'UNION' as supplied by Assa Abloy or other equal approved ironmongery: matching screws: locks to include a set of 2 keys: available from their authorised local dealers; brass finish to architects approval</u>				
I	100mm pressed brass butt hinges	PRS	30		
J	3 lever mortise lock and set furniture Ref Union 2295	NO	15		
K	2 lever mortise lock and set furniture Ref Union 2295	NO	3		
L	Indicator lock complete with all set furniture	NO	8		
M	Tower bolt lock to approval	NO	8		
N	40mm diameter rubber door stopper	NO	20		
TOTAL CARRIED TO COLLECTION					

D/2

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<u>Painting and decorations</u>				
	<i><u>Knot prime and stop;Aluminium primer or other equal and approved wood primer before fixing with and including 2 finishing coats of gloss oil paint to wood surfaces</u></i>				
A	General wood surfaces	SM	19		
B	Wood surfaces girth 100-200mm	LM	27		
C	Ditto but girth 0-100mm	LM	48		
	<i><u>Knot prime and stop,prepare and apply 3 coats polyurethane vanish to;</u></i>				
D	General wood surfaces	SM	80		
E	Wood surfaces girth 100-200mm	LM	122		
F	Ditto but girth 0-100mm	LM	211		
TOTAL CARRIED TO COLLECTION					
	<u>COLLECTION</u>				
	<i>Total brought forward from page 1</i>				
	<i>Total brought forward from page 2</i>				
	<i>Total brought forward from page 3</i>				
TOTAL DOORS CARRIED TO SUMMARY					

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<u>ELEMENT NO:7</u>				
	DEMOUNTABLE PARTITIONS				
	<u>Birch laminated Medium Density Fibreboards (MDF)</u>				
A	20mm thick plain linings; fixed to to timber framing	SM	31		
	<u>Approved sawn softwood</u>				
B	150x50mm Timber bearer ;plugged to floor	LM	38		
	METAL WORK				
	Aluminium partitions (All provisional)				
	<u>Powder coated aluminium standard hollow sections; frames mitred at corners including reinforcing;-</u>				
C	76 x 45 x 2 mm thick aluminium hollow sections (horizontal bottom members) screwed to timber (m/s) and screwed to receive MDF boarding.	LM	34		
D	76 x 45 x 2 mm thick aluminium hollow sections (horizontal middle members) screwed to timber (m/s) and grooved to approval at both top and bottom to receive glazing and MDF boarding respectively (m/s)	LM	28		
E	Ditto grooved to approval at bottom to receive glazing (m/s)	LM	12		
F	Ditto horizontal top piece grooved to approval at bottom to receive glazing (m/s)	LM	12		
	TOTAL CARRIED TO COLLECTION				-

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	Demountable partitions cont'd				
A	Ditto vertical piece grooved to approval at both sides to receive MDF (m/s) fixed to skirting and middle piece (m/s).	LM	45		
B	76 x 45 x 2 mm thick aluminium hollow sections vertical corner and entrance piece to approval.	LM	30		
	Aluminium skirting				
C	3mm Thick x 75mm high skirting screwed to 75x50mm thick base member (m/s) with and including screw	LM	52		
	Aluminium beading				
D	43x19x1.6 mm thick beading member riveted to aluminium framing	LM	163		
E	27.5x17.25x1.5mm thick beading to Glazing or MDF boards (m/s)	LM	163		
F	38x38x3.5mm thick angle section beading to MDF board	LM	35		
	Rubber Gasket				
G	25x12mm Thick approved rubber lining to aluminium framing (m/s)	LM	163		
	GLAZING				
	<u>6mm Thick glass with decorative film to aluminium frames (m/s) with rubber gaskets (m/s)</u>				
H	Panes 0.5 to 1.0 sqm	SM	55		
TOTAL CARRIED TO COLLECTION					-

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
Demountable partitions cont'd					
A	Vents 18mm thick Decorative Pvc vents fixed to aluminium frames to architects approval	SM	10		
B	Sundries 45x25mm silicon filler applied as directed and to the approval of the architect at the joints between existing concrete ceiling and aluminium top rail	LM	39		
C	Filming Branded Decorative film to glazings (m/s) With approved colours and Logo as per the Architects'/Clients' specifications	SM	18		
TOTAL CARRIED TO COLLECTION					
COLLECTION <i>Total brought forward from page 1</i> <i>Total brought forward from page 2</i> <i>Total brought forward from above</i>					
TOTAL DEMOUNTABLE PARTITIONING CARRIED TO SUMMARY					

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<u>ELEMENT NO 7:FINISHES</u>				
	<u>External finishes</u>				
	<u>Wall finish</u>				
	<u>Render; 15mm thick, 1 No. coatwork of cement and sand (1:3); wood floated to concrete or blockwork base generally to:</u>				
A	Surfaces of beams	SM	49		
B	External walls	SM	327		
	<u>Painting and decorating :-</u>				
	<u>Prepare and apply one undercoat and three coats of first quality long lasting, weather resistant exterior "Wallmaster" paint to the following :-</u>				
C	Surfaces of beams	SM	49		
D	External walls	SM	327		
	<u>Branding</u>				
E	Apply branding to external wall surface as may be directed by the Project Manager/ Interior Designers	SM	233		
TOTAL CARRIED TO COLLECTION					-

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<p>Internal finishes</p> <p><u>Internal ceiling</u></p> <p><i><u>Plaster;15mm thick 2No coat work ,12mm first coat of cement sand (1:3) ; 3mm second coat cement and lime putty (1:9) steel trowelled plaster to concrete or blockwork base to receive painting</u></i></p> <p>A Soffits of suspended slab</p> <p><u>Painting and decorating</u></p> <p><i><u>Prepare and apply one undercoat and two finishing coats of first grade silk vinyl paint on;-</u></i></p> <p>B Plastered soffites</p>	SM	408		
TOTAL CARRIED TO COLLECTION					-

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
A	<p><u>Internal walls</u></p> <p>Insitu finishes <u>Plaster;15mm thick 2No coat work ,12mm first coat of cement sand (1:3) ; 3mm second coat cement and lime putty (1:9) steel trowelled plaster to concrete or blockwork base to receive painting</u></p> <p>Walls and ring beam,internal</p>	SM	504		
B	<p><u>Beds or Backings</u></p> <p><u>Render; cement and sand (1:3) 14mm thick one coat backings; wood floated to receive ceramic tiles (m/s) to concrete or blockwork base;</u></p> <p>Walls;internal</p>	SM	45		
C	<p><u>Approved ceramic tiles to B.S. 1281; local; coloured glazed wall tiles to regular or approved other pattern; bedding and jointing in cement sand (1:4) mortar, grouting with white cement; including corner strips, spacers etc to Architect's details;-</u></p> <p>300x300x8mm thick; butt joints straight both ways; to cement sand</p>	SM	45		
D	<p><u>Painting and decorations;-</u> <u>Prepare and apply one undercoat and two finishing coats of first grade silk vinyl paint on;</u></p> <p>Plastered walls;internal</p>	SM	504		
E	<p><u>Branding</u></p> <p>Apply branding to external wall surface as may be directed by the Project Manager/ Interior Designers</p>	SM	504		
TOTAL CARRIED TO COLLECTION					

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
A	<p>Internal floor finishes</p> <p><u>Beds or backings;</u></p> <p><u>Screeds;28mm thick 1No coat work; cement sand (1:3) to hacked concrete or blockwork base;</u></p> <p>Ditto to receive ceramic tiling</p>	SM	384		
B	<p><u>Approved ceramic tiles to B.S. 1281; local; coloured glazed floor tiles to regular or approved other pattern; bedding and jointing in cement sand (1:4) mortar, grouting with white cement; including corner strips, spacers etc to Architect's details;-</u></p>	SM	384		
C	<p>Ditto skirting 75mm high</p>	LM	148		
TOTAL CARRIED TO COLLECTION					

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<u>COLLECTION</u>				
	<i>Total brought forward from page 1</i>				
	<i>Total brought forward from page 2</i>				
	<i>Total brought forward from page 3</i>				
	<i>Total brought forward from page 4</i>				
TOTAL FINISHES CARRIED TO SUMMARY					

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

<u>SUMMARY OF BUILDERS WORK</u>					
A	SUBSTRUCTURE				
B	RC SUPERSTRUCTURE				
C	ROOFING				
D	WALLING				
E	DOORS				
F	WINDOWS				
G	DEMOUNTABLE PARTITION				
H	FINISHES				
TOTAL CARRIED TO GRAND SUMMARY				Ksh	

FENCE

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>EXTERNAL WORKS</u>				
	<u>CHAIN LINK FENCE</u>				
A	Galvanised chain link fencing comprising 50 mm mesh fixed with six lines of galvanised straining wire and eye bolts, six strand 2.5 mm galvanised barbed wire with 2mm points at 70 mm centers over cranked precast concrete posts 150 x 150 mm at 2600 mm centres set in and including concrete 1:3:6 to 40 mm gauge aggregate bases size 300 x 300 x 600 mm in holes size 300 x 300 x 750 mm including excavations, etc, mesh height 2400 mm.	180	M		
B	Extra for straining post with two struts each 2500 mm long, set diagonally in and including 1:3:6 40 mm gauge bases, size 300 x 300 x 300 mm including excavations , etc.	27	No		
C	Steel gate overall size 4500mm x2400mm high (extreme) in 2no equal leaves ,comprising of 25x25x3mmRHSvertical members at 100mm centres welded to 25mm x25mm horizontal members at 400mm centres complete with gate posts ,wheels and guiding rail, all finished in one coat etch primer,all to architects details	1	NO		
TOTAL COST OF CHAIN LINK FENCE					-

EW/1

ELECTRICAL WORKS

1 ELECTRICAL BILL OF QUANTITIES - GROUND FLOOR

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Supply, install, test and commission the following:				
1	Lighting points wired in 3x1.5mm ² SC PVC/CU cables drawn in 20mm Dia HG PVC conduits for: (a) One way switching	65	No		
2	10A lighting switches MK range or approved equivalent				
	(a) 1 gang 1 way	12	No		
	(b) 2 gang 1 way	6	No		
3	Lighting fittings including lamps of appropriate wattage as follows:				
a)	250mm diameter Circular LED Ceiling with 40W rating	60	No		
b)	14W LED Spherical ball fitting	10	No.		
4 a)	Ceiling fan points wired in 3x1.5mm ² SC PVC/CU cables drawn in 20mm Dia HG PVC conduits.	20	No		
b)	10A ceiling fan regulator switch	20	No.		
5 a)	Power points for sockets drawn in 25mm Dia PVC with 3x25mm CU cables HG conduits complete with blanking plates .	50	No		
b)	13A twin Socket plates	50	No.		
6 a)	Provide Kshs. one hundred thousand (100,000) for Engineers CPD training programmes	1	item		
b)	Allow for 30% profit on the above item	1	item		
7	Submain cables Sub-mains cables comprising 4 x 16mm ² MC PVC/SWA/PVC Copper cables in concealed 38mm diameter HG PVC conduits all accessories included	100	M		
8	Distribution Boards 12 Ways 200A TPN distribution board havel, chint or approved equivalent	1	No		
9	6 Ways 100A SPN Consumer Unit as Crabtree or approved equivalent	2	No		
10	The following MCBS as Crabtree or approved equivalent				
	(a) 10A SP MCB	10	No		
	(b) 20A SP MCB	8	No		
	(c) 30A SP MCB	3	No		
	(d) Blanking Cover	2	No		
Total Carried Forward to Next Page					-

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
					-
Total Carried Forward from previous Page					
	Fire alarm system				
11	Addressable Fire alarm panel as Menvier complete with manual and operational guide.				
a)	Firealarm outlet point comprising wiring in 2x1.5mm ² PVC-SC-Cu fire resistant cables in concealed in 20mm diameter HG conduits.	1	No.		
b)	(approximately 150m) Smoke detector	26	No.		
c)	Break glass point	10	No.		
d)	Alarm sounder	3	No.		
e)	Flashing beacon	2	No.		
f)		2	No.		
12 a)	Provide Kshs. two hundred thousand (100,000) for Engineers stationery				
b)	Allow for 30% profit on the above item	1	item		
	Provision for Data Points	1	item		
12	Data points in 38mm conduits concealed in the wall/slab/ceiling to be used by other contractors in phase II.				
a)					
b)	200mm by 50mm heavy gauge PVC trunking (200mm provisional length, actual length to be determined)	300	lm		
		300	m		
Total for Electrical carried to collection page					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
PROVISIONAL SUMS					
1	Provide Kshs. Three Hundred Thousand (Kshs.300,000.00) for contingency to be used at the discretion of the Project Manager in consultation with the client.		Kshs.		300,000.00
2	Provide a Sum of Five Hundred (Kshs.500,000) for Electricity power connection and Metering.		Kshs.		500,000.00
3	Provide Kshs. Three Hundred Thousand (Kshs.300,000.00) for Project Management and supervision expenses (Transport and airtime).		Kshs.		300,000.00
Total for Provisional Sums					1,100,000.00

Electrical Collection Page

ITEM	DESCRIPTION				AMOUNT
1	Total for Electrical				
2	Provisional Sums				
	Total for Electrical Works Carried Forward to Main Summary Page				

MECHANICAL WORKS

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	<p><u>SCHEDULE No. 1: Sanitary Fittings,Internal Plumbing and Drainage and External Water Reticulation</u></p> <p>Sanitary Fittings Supply, deliver, install, test and commission the following sanitary appliances complete with all the accessories including all connections to the services, waste, jointing to water supply, overflows, supports and all plugging and screwing to walls and floors. Note: (i) All sanitary fittings shall be in approved colour. (ii) The Model and Ref No. indicated is only a guide to the type and quality of fittings. (iii) Equivalent and Approved models may be acceptable.</p> <p>Water Closets - Pans</p>				
A	White vitreous china low level washdown action with open flushing rim W.C. pan. As "Duravit" Classic with horizontal outlet, fixing screws and mastic.	3	No		
B	Water Closet- Squating type pan Squatting water closet pan in vitreous china comprising of water closet bowl with top plate, integral foot threads, S-trap connector and inlet connector. All to be as "Duravit" or approved equivalent.	2	No.		
C	WC flush Valve - Concealed 1 1/4" (32mm) toilet flush valve - Concealed back entry type, rough brass with integral vacuum breaker, nonreturn valve and control stop, with pushfork and chrome plated push button assembly comprising the following elements:- 1 No. Flushvalve, brass coated 1No. Push button assembly, chrome plated As "Cobra Watertech" Model	5	No		
D	Wash hand basin (WHB)-Counter Top Countertop wash hand basin size 635 x 500mm with one tap hole, 32mm diameter chrome plated chain waste, chain stay hole, chrome plated non-conculsive time delay press action pillar tap as Cobra model and heavy duty plastic bottle trap (32mm 'P' trap) with 75mm seal. To be of Tywfords "CAPRICORN 635" countertops washhand basin or equal and approved.	4	No		
E	Urinal Bowls 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.	2	No		
	Sub-Total Carried Forward to Next Page				

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
A	Sub-Total Brought Forward from Previous Page				
	Urinal Bowl Flush Valves 25mm urinal bowl flush valve for the above urinal bowls complete with, back entry with integral vacuum breaker, non-hold-open features and non-return valve, inlet control stop and wall plate comprising flush valve, bent chrome plated flush pipe and rubber pipe connector. The flush valve to be push button type. The fittings shall be as Docol or equal and approved.	2	No		-
B	Urinal Bowl Divisions 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.	1	No		
C	Robe Hook Robe hook in Satin Aluminium to be mounted by concealed screws to wall wedges. To be as Twyfords Spectrum 2000 accessories or equal and approved.	5	No		
D	Toilet Brush and Holder Wall mounted toilet brush holder and brush of approved colour as Ideal Standard or approved equivalent.	5	No		
E	Toilet Roll Holder Fully recessed toilet roll holder in Vitreous China of size 165 x 165mm in approved colour as Twyfords or equal and approved.	5	No		
F	Mirror 6mm thick polished plate glass silver backed mirror with bevelled edges, size 1500 x 610mm, Plugged and screwed to wall with 4 No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam.	4	No		
G	Kitchen Sink Single Bowl Single Drainer, (SBSD) stainless steel sink, size 1500x600mm, bowl size 430x420mm complete with overflow, waste fittings, plugs, chain stays and 40mm diameter plastic bottle trap with 75mm deep seal complete with a chrome plated mixer.	1	No		
H	Cleaner Sink Heavy duty sink size 465 x 410 x 285mm deep in enamelled fireclay complete with hardwood pad on the front edge and fitted bucket stainless steel grating and 20mm chrome plated wall mounted inclined bricon tap, chrome plate chain and rubber stopper and heavy gauge 40mm chrome plated bottle trap, stainless steel legs and bearers and 32mm grid waste fitting. All as Twyford "cleaners sink" or approved equivalent.	1	No		
	Sub-Total Carried Forward to Next Page				-

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Sub-Total Brought Forward from Previous Page				-
A	Disabled Persons Water Closet and Wash Hand Basin Facility				
	Wheel chair accessible W.C facility Comprising of the following:- i)Close coupled W.C with 7.5 litre cistern with bottom inlet and overflow.The bowl shall be of size 375x560x420mm high..The unit shall be complete with valveless cistern fittings including syphon, 1 /2" side inlet ballvalve, 3 /4" side overflow, plastics flushbend, inlet connector and reversible metallic chrome plated cistern lever.There shall also be a heavy duty seat(25mmhigh) and cover with chrome plated metal hinges, toilet roll holder, 610 x 610 x 6mm thick mirror and robe hook.				
	ii)Semi pedestal wall mounted W.H.B of size 600x500x545mm high with flexible connectors to waste and taps..It shall have one L/H tap hole with 1/2" chrome plated lever action pillar tap, chrome plated waste with height adjustable trap, pedestal and wall fixing bolts.				
	iii) Hinged support rail with toilet roll holder 770mm long manufactured in nylon coated aluminium and mounted on a wall fixing plate plate size 230x100 mm, 4No 600mm grab rails with covered wall plates. The set shall be as Twyford's DOC.M wheelchair accessible W.C. facility or approved equivalent.	2	set		
	Sub-Total Carried Forward to Next Page				-

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Sub-Total Brought Forward from Previous Page					-
Internal Plumbing					
CPVC pipes					
A	20mm diameter pipework	200	Lm		
B	25mm diameter pipework	150	Lm		
C	32mm diameter pipework	100	Lm		
D	40mm diameter pipework	50	Lm		
Bends					
E	20mm diameter bend	30	No.		
F	25mm diameter bend	20	No.		
G	32mm diameter bend	15	No.		
H	40mm diameter bend	15	No.		
Tees					
I	20mm equal tee	12	No.		
J	25mm equal tee	15	No.		
K	32mm equal tee	5	No.		
L	40mm equal tee	10	No.		
Flexible Tubing					
M	15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve for connecting the sanitary fitting to water supply. To be as Cobra or equal and approved.	12	No		
Valves					
N	25mm diameter approved medium pressure screw down full way nonrising stem wedge gate valve to BS 5154 PN 20 for series B rating, with wheel and head joints to steel tubing and complete with round male threaded transition fittings. The gate valve to be as PEGLER or approved equivalent.	4	No.		
O	40mm diameter ditto	3	No.		
Reducer					
P	25x20mm diameter reducer	24	No.		
Q	32x25 mm Ditto	12	No.		
R	40x32 mm Ditto	12	No.		
Water Storage Tank					
S	Rectangular plastic moulded tank of capacity 2,000 litres. The tank to be assembled complete with cover and having screwed connections for inlet, outlet, overflow, medium pressure ball valve, drain pipes and any other necessary item for its proper functioning. The tank shall be mounted on a platform on the roof slab and shall be as ROTO Model or approved equivalent.	4	No		
Sub-Total Carried Forward to Next Page					-

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Sub-Total Brought Forward from Previous Page					-
Internal Drainage					
MuPVC and uPVC Waste and Soil pipework					
A	100mm diameter heavy gauge grey UPVC pipe	100	Lm		
B	100mm diameter WC connector	14	No.		
C	50mm diameter waste pipe	100	Lm		
D	40mm diameter waste pipe	180	Lm		
E	32mm diameter waste pipe	120	Lm		
Bends					
F	100mm diameter sweep bend	36	No.		
G	50mm diameter sweep bend	36	No.		
H	40mm diameter sweep bend	36	No.		
I	32mm diameter sweep bend	36	No.		
Tees					
J	100mm diameter sweep tee	36	No.		
K	50mm diameter sweep tee	42	No.		
L	40mm diameter sweep tee	42	No.		
M	32mm diameter sweep tee	24	No.		
Access cap					
N	100mm access cap	30	No.		
O	50mm ditto	36	No.		
P	40mm ditto	42	No.		
Q	32mm ditto	42	No.		
Weathering Slates and Vent Cowls					
R	100mm diameter vent cowl	2	No.		
S	100mm diameter weathering slate	2	No.		
Floor Trap					
T	100 x 50mm diameter floor trap and grating	14	No		
Gully Trap					
U	Gully trap chamber size 250x250mm, approximately 400mm deep in 150mm block work with cement mortar joints, on 150mm thick mass concrete slab,plastered inside, 100mm trap and hopper. 40mm thick, 250x250mm p.c.c. cover to gully trap chamber and provided with 40mm ventilating hole	5	No.		
Sub-Total Carried Forward to Next Page					-

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Sub-Total Brought Forward from Previous Page					-
EXTERNAL WATER RETICULATION					
A	Excavate trench in hard soil/murram 600mm wide and depth not exceeding 1000mm deep and average 750mm deep, prepare bed with red soil/marram of particle size not more than 20 mm to a depth of 750mm. Bed shall be approved by Engineer before laying of pipes. Fill with same material as above and compact in layers of 75 mm. Cart away surplus soil.	50	LM		
Pipe work (HDPE)					
B	50mm	50	LM		
C	50mm bend	4	No		
D	50mm diameter tee	4	No		
E	100x50mm diameter reducer	2	No		
Valves					
F	50mm diameter high pressure gate valve	2	No		
G	50mm dia. flanged non-return valve	2	No		
Unions					
H	50mm diameter pipe union	4	No		
Ground level Water storage tanks					
I	Supply and install circular tank of capacity 10,000 litres made from plastic as Roto Tank or approved equivalent. The tank shall be complete with inlet, outlet, overflow, drain connection and 25mm diameter medium pressure ball valve with silencer pipe, bronze lever and copper float all as "Glenfield" or approved equivalent.	4	No		
J	Allow for erection of masonry base platform with RC slab for the tanks above to structural engineer's approval.	Sum	Item		
Booster Pumps					
K	Supply, deliver and install electrically driven self priming booster pump equipped with a diaphragm type pressure vessel and pressure control to provide fully automatic operation as DAYLIFF DDP65A model or equal and approved to be installed on an anti-vibration mounted platform	1	set		
L	Allow for electrical works wiring and fitting to pumps, control panel and float switches from Isolator provided by others.	Sum	Item		
Total for schedule No. 1 carried forward to Collection page					-

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
SCHEDULE No. 2; Mechanical ventilation and Air Conditioning Works					
Ceiling sweep fan					
A	Supply, deliver, install, test and commission the following ceiling sweep fan; Three blade ceiling fan with a sweep of 1.2 metres. The fan should be equipped with power saving inverter motor technology. The unit to be complete with all the necessary accessories and as ORIENT ELECTRIC Model or equal and approved.	30	No		
SPLIT AIR CONDITIONING SYSTEM					
Supply, deliver, install, test and commission the following split type AC system. The indoor unit shall be FLOOR STANDING or HIGH WALL type air-cooling unit. The air conditioning unit shall be supplied complete with room thermometer, room thermostat controls, Drainage pump and wireless remote control device. It shall be charged with R410A refrigerant or any other non ozone depleting refrigerant. The outdoor unit shall have matching capacity with the indoor unit. The unit shall be "LG" Model or equal and approved. The units shall have the following capacity:					
B	Single Split Air Conditioner of capacity: (18,000 Btu) with high wall indoor unit and equivalent outdoor unit as 'LG, or equal and approved. The rates include copper piping and pvc drainage pipe to a maximum length of 25m each.	2	No.		
C	Single Split Air Conditioner of capacity: (18,000 Btu) with Floor Standing indoor unit and equivalent outdoor unit as 'LG, or equal and approved. The rates include copper piping and pvc drainage pipe to a maximum length of 25m each.	2	No		
Training					
D	Allow for training of three client personnel and two project engineers on the operation and maintenance of the air conditioning installation. The training to be structured such that the personnel will undergo a course on the working of the machines, operations, settings, trouble shooting and maintenance of the machines. This may include visits to the factory/supplier.	Sum	Item		
E	Allow for testing and commissioning of the air conditioning installations to the satisfaction of the Engineer.	1	Item		
Total for Shedule-No. 2 Carried Forward to Collection Page					-

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	<p><u>STATIONERY</u> <u>Tenderers shall price for the following stationery requirements.</u> <u>These shall then be delivered, upon their first demand to the Regional Works Officer immediately after the award to the successful tenderer.</u></p>				
A	Photocopy paper, size A4, 80g/cm ³ , White, 500 sheets	20	Ream		
B	Letter head quality paper, size A4, 80g/cm ³ , Green, 500 sheets	5	Ream		
C	Letter head quality paper, Blue, 500 Sheets as Classic or Conqueror or approved equivalent.	10	Ream		
D	Laptop computer HP SPECTRE X360 15.6" 10th generation i9 with 32GB RAM/1TB+32 SSD storage, 4GB Graphics complete with windows 10	1	No		
Total for Stationary carried forward to collection page					-

COLLECTION PAGE

Item	Description	Amount (Kshs)
	1) Sub-Total for Sanitary Fittings, Internal Plumbing & Drainage, External Water	-
	2) Sub-Total for Mechanical Ventillation (schedule No. 2)	-
	3) Sub-Total for stationary	-
	Sub-Total Cost for Mechanical works	-

SUMMARY PAGE FOR MECHANICAL WORKS

Item	Description	Amount (Ksh)
1	Total for Mechanical Works brought forward from collection page	-
2	Contingency sum to be used at the directions of the Project Mech. Engineer	300,000.00
3	Project supervision sum to be used at the directions of the Project Mech. Engineer	300,000.00
Total for Mechanical Works carried forward to Grand-Summary page		

CIVILL WORKS

PROPOSED HUDUMA CENTRE HADADO SUB COUNTY

BILL 1. STORM WATER DRAINAGE AROUND BUILDING

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
					SHS
	<u>PAVING SLABS AROUND THE BUILDING</u>				
A	Excavate vegetable soil average depth 500mm and cart away as directed by the Engineer.	CM	150		
B	Provide, lay and compact selected approved fill material in layers not exceeding 150mm thick.	CM	600		
C	Provide, lay and compact 100mm thick murram bed.	SM	300		
D	Treat surface of formation with approved herbicide.	SM	300		
E	Provide, lay and joint 600x600x50mm precast concrete paving slabs including 50mm thick sand bed to M.O.P.W specifications.	SM	300		
F	Provide, lay and joint 125x100mm precast concrete channel along the edge of the paving slabs including 100mm thick concrete bed and haunch, mix 1:3:6, any necessary excavation, formwork and disposal of surplus material.	LM	150		
	TOTAL CARRIED TO SUMMARY PAGE				

**PROPOSED HUDUMA CENTRE HADADO SUB COUNTY
BILL 2. FOUL DRAINAGE**

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
					SHS
<u>SEWER LINE EXCAVATIONS</u>					
A	Excavate trench for diameter 160mm dia sewer pipe starting from ground level not exceeding 1.5m deep backfill after laying pipe and dispose excess materials as directed by the Engineer average depth 1.25m	LM	25		
B	Ditto but average depth 1.5m	LM	25		
C	Ditto but average depth 1.75m	LM	25		
D	Ditto but average depth 2.0m	LM	25		
E	Ditto but average depth 2.5m	LM	25		
F	Allow fo plunking and strutting to all excavations during construction		ITEM		
G	Allow for keeping all excavations free from general waters		ITEM		
<u>PIPE LAYING</u>					
H	Provide lay and joint in trench dia 160mm Upvc golden brown class 41Upvc pipe in flexible rubber ring joints	LM	50		
J	Provide lay and joint in trench dia 200mm Upvc golden brown class 41Upvc pipe in flexible rubber ring joints	LM	75		
K	Provide lay & compact 100mm thick approved compacted murrum bed to sewer line	SM	63		
L	Provide lay and compact conc. (1:3:6) haunching to pipe include all necessary formwork	CM	10		
<u>MANHOLES</u>					
M	Excavate pit for standard manhole depth not exceeding 1.5m av. Depth 1.0m	CM	8		
N	Ditto av. Depth 1.5m	CM	8		
P	Ditto av. Depth 2.0m	CM	8		
Q	Ditto av. Depth 2.5m	CM	3		
R	Allow fo plunking and strutting to all excavations during construction		ITEM		
S	Allow for keeping all excavations free from general waters		ITEM		
TOTAL CARRIED TO COLLECTION PAGE CIV 10					

**PROPOSED HUDUMA CENTRE HADADO SUB COUNTY
BILL 2. FOUL DRAINAGE**

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
					SHS
	<u>MANHOLES CONT'D</u>				
A	Provide material and construct manhole type B to detail (50)5301	NO	5		
B	Ditto but manhole type 'C' to detail (50)5302	NO	4		
C	Ditto but manhole type 'D' to detail (50)5303	NO	2		
D	Ditto but manhole type 'E' to detail (50)5304	NO	1		
E	Provide and fix medium duty rectangular manhole cover and frames include greasing the covers in clean sand	NO	12		
F	Provide and fix bitumen coated step irons in manholes at 300mm c/c. All to detail 50(5309)	NO	70		
G	Allow for testing of the entire drainage system after completion to leave it in sound working order to the satisfaction of the Engineer.		ITEM		
	<u>22,500 L (100 PERSONS) SEPTIC TANK</u>				
H	Excavation pit for septic tank n.e. 1.5m deep)	CM	106		
J	Ditto between 1.5m and 3.0m deep)	CM	98		
K	Ditto between 3.0m and 4.5m deep)	CM	59		
L	Return fill and ram	CM	144		
M	Cart away surplus material	CM	94		
N	Planking & strutting to sides of excavations	ITEM			
P	Keep excavations free from general waters	ITEM			
Q	Provide lay & vibrated conc. 1:2:4 to base	CM	25		
R	Provide lay & vibrate conc. 1:1.5:3 to base slab, walls, cover slab,buffer & dividing walls	CM	26		
S	Provide formwork to soffit of suspended slab exceeding 1.5 m high	SM	56		
T	Ditto to soffit of beam	SM	3		
V	Ditto to soffit of slab over 3m high	SM	47		
W	Ditto to edge 150-225mm high	LM	10		
X	Ditto to sides of walls	SM	65		

**PROPOSED HUDUMA CENTRE HADADO SUB COUNTY
BILL 2. FOUL DRAINAGE**

	TOTAL CARRIED TO COLLECTION PAGE CIV 10				
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CIV/3

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
					SHS
	<u>SEPTIC TANK CONT'D</u>				
A	Make or leave dia. 160mm hole & build in dia 200mm pipe	NO	1		
B	Provide & apply 12mm thick water proof plaster	SM	130		
C	Provide apply 25mm thick screed to floor slab	SM	26		
D	Provide & fix 600x450mm MD MH cover & frame	NO	1		
E	Build in dia. 200mm pipe	NO	1		
F	Provide cut bend & fix T16 reinforcing bar	KG	1,500		
G	Ditto T12 reinforcing bar	KG	474		
H	Provide cut bend & fix T10 reinforcing bar	KG	135		
J	Ditto T8 reinforcing bar	KG	3		
K	Provide & fix in conc. BRC mesh type A142	SM	9		
L	Planking & strutting to sides of excavations	ITEM			
M	Keep excavations free from general waters	ITEM			
N	Provide and fix bitumen coated step irons in manholes at 300mm c/c. All to detail 50(5309)	NO	6		
	<u>DISTRIBUTION MANHOLES (1NO.)</u>				
P	Excavate pit for standard manhole depth not exceeding 1.5m av. Depth 1.5m	CM	21		
Q	Extra over excavation in rock class 1	CM	1		
R	Return fill & ram	CM	13		
S	Cart away surplus material	CM	9		
T	Provide material and construct distribution MH to detail (50)5351	NO	1		

**PROPOSED HUDUMA CENTRE HADADO SUB COUNTY
BILL 2. FOUL DRAINAGE**

	TOTAL CARRIED TO COLLECTION PAGE CIV 10				
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CIV/4

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
					SHS
	<u>SOAK PIT (50)5345 2NO.</u>				
A	Excavation pit for sak pit n.e. 1.5m deep	CM	12		
B	Ditto between 1.5m and 3.0m deep	CM	1.5		
C	Ditto between 3.0m and 4.5m deep	CM	1.5		
D	Ditto between 4.5m and 6.m deep	CM	1.5		
E	Return fill and rum	CM	10		
F	Cart away away surplus material	CM	6		
G	Provide materials & erect 150mm thick circular masonry wall in cement motar 1:4	SM	6		
H					
J	Provide lay & vibrate conc. 1:3:6 to 150mm thick base	CM	0.75		
K	Provide lay & vibrate conc. 1:2:4 to cover slab 150mm thick	CM	0.75		
	Provide & fix 600x450mm MD MH cover & frame	NO	2		
L	Provide formwork to soffit of slab	SM	0.75		
M	Ditto to curved edge 150-225mm high	LM	4		
N					
	Provide cut bend & fix in wall dia. 8mm HT reinforcing bar	KG	20		
P	Provide approved hardcore fill to soak pit	CM	6		
Q	Make or leave rebated opening 600x450mm	NO	2		
R	Keep excavations free from general waters		ITEM		
	TOTAL CARRIED TO COLLECTION PAGE CIV 10				

CIV/6

PROPOSED HUDUMA CENTRE HADADO SUB COUNTY

BILL 2. FOUL DRAINAGE

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
					SHS
A	Allow a provisional sum of One Hundred Fifty Thousand for project supervision and management	SUM	1		
B	Allow a provisional sum of Ksh One hundred Fifty Thousand (Kshs 150,000.00) for any additional foul drainage works to be used at the discretion of the Engineer.	SUM	1		
TOTAL CARRIED TO COLLECTION PAGE BELOW					
<u>COLLECTION</u>					
1	TOTAL CARRIED FROM CIV 6				
2	TOTAL CARRIED FROM CIV 7				
3	TOTAL CARRIED FROM CIV 8				
4	TOTAL CARRIED FROM CIV 9				
5	TOTAL CARRIED FROM CIV 10 Above				
TOTAL CARRIED SUMMARY PAGE					

PROPOSED HUDUMA CENTRE HADADO SUB COUNTY

BILL 3. PROVISIONAL SUMS

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
					SHS
	<u>PROVISIONAL SUMS</u>				
A	Allow a provisional sum of Kshs. Three Hundred Thousand as Contingency for Civil Works	SUM	1		
	TOTAL CARRIED SUMMARY PAGE				

**PROPOSED HUDUMA CENTRE HADADO SUB COUNTY
BILL 3. SUMMARY**

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
					SHS
	<u>SUMMARY</u>				
1	STORM WATER DRAINAGE AROUND BUILDING				
2	FOUL DRAINAGE				
3	PROVISIONAL SUMS				
	SUB-TOTAL (VAT INCLUSIVE)				
	TOTAL FOR CIVIL WORKS CARRIED TO GRAND SUMMARY PAGE				

PROVISIONAL SUMS

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
A	<u>PROVISIONAL SUMS</u> Allow a provisional sum of Ksh. Five Hundred Thousand (Kshs 500,000.00) only for Contingencies to be spent in whole of in part as directed by the Client				500,000.00
TOTAL PC AND PROVISIONAL SUMS CARRIED TO GRAND					500,000.00

GRAND SUMMARY

GS/77

PROPOSED HUDUMA CENTRE- HADADO SUBCOUNTY

<u>GRAND SUMMARY</u>			
ITEM	DESCRIPTION		Page No.
			K.SHS.
A	PARTICULAR PRELIMINARIES	From Page	PP/1
B	GENERAL PRELIMINARIES	From Page	GP/1
C	BUILDER'S WORKS	From Page	GS/1
D	FENCE	From Page	EW/1
E	ELECTRICAL WORKS	From Page	E/5
F	MECHANICAL WORKS	From Page	M/10
G	CIVIL WORKS	From Page	CIV/8
H	PROVISIONAL SUMS & PC SUMS	From Page	PS/1
			500,000.00
TOTAL (VAT INCLUSIVE) CARRIED TO FORM OF TENDER			

Amount in words.....

Tenderers signature and stamp.....

Address.....

Date.....

Witness Name.....

Signature.....
Address.....

Date.....