REPUBLIC OF KENYA

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT.

STATE DEPARTMENT FOR PUBLIC WORKS

PROPOSED CONSTRUCTION OF KANDARA DCC OFFICES

BILL OF QUANTITIES

PROJECT MANAGER
County Works Officer,
SDPW
P.O. Box 133 - 10200
MURANGA

NOVEMBER, 2026

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SECTION NO. 1
PRELIMINARIES

Item	Description	Amount (KSh)
	BILL NO. 1	
	PARTICULAR PRELIMINARIES	
A	**PRICING ITEMS OF PRELIMINARIES** Prices SHALL BE INSERTED against items of "preliminaries" in the tenderer's priced Bills of Quantities. Where no price is inserted 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 such costs involved in complying with all the requirements for the proper execution of the whole of the works in the Contract.The contractor is advised to read and understand all preliminary items.	
B	**DESCRIPTION OF THE WORKS** The works to be carried out under this contract is: **CONSTRUCTION OF A PROPOSED KANDARA DEOUTY COUNTY COMMISSIONER'S OFFICES AT KANDARA SUBCOUNTY (MURANG'A)**	
C	**MEASUREMENTS** In the event of any discrepancies arising between the Bills of Quantities and the actual works, the site measurements shall generally take precedence. However, such discrepancies between any contract documents shall immediately be referred to the PROJECT MANAGER in accordance with Clause 13 of the General Conditions of Contract. The discrepancies shall then be treated as a variation and be dealt with in accordance with Clause 13 of the said Conditions.	
D	**LOCATION OF SITE** Th proposed site for the works is located in **KANDARA - MURANG'A 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.	
E	**SIGNING OF THE TENDER DOCUMENTS** The bidder shall append his / her signature and / or company 's rubberstamp on each and every page of tender document.	
	Carried to collection	

Item	Description	Amount (KSh)
A	**DEMOLITIONS AND ALTERATIONS** The Contractor is to allow for all temporary protection required during the works including ordinary and special dust screens, hoardings, barriers, warning signs, etc as directed by the Project Manager and as necessary for the adequate propping and protection of existing property, finishes, workmen employed on the site, employer's agents and the public. Any damage or loss incurred due to the insufficiency of such protection must be made good by the Contractor. All protective devices are to be removed on completion of the works and any necessary making good consequent upon this is to be excecuted to the satisfaction of the Project Manager 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 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. 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	
B	**CLEARING AWAY** The Contractor shall remove all temporary works, rubbish, debris and surplus materials from the site as they accumulate and upon completion of the works, remove and clear away all plant, equipment, rubbish, unused materials and stains and leave in a clean and tidy state to the reasonable satisfaction of the Project Manager 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.	
C	**CLAIMS** It shall be a condition of this contract that upon it becoming reasonably apparent to the Contractor that he has incurred losses and / or expenses due to any of the contract conditions, or by any other reason whatsoever, he shall present such a claim or intent to claim notice to the PROJECT MANAGER within the contract period. No claim shall be entertained upon the expiry of the said contact period	
D	**PAYMENTS** 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	
E	**PREVENTION OF ACCIDENT, DAMAGE OR LOSS** The Contractor is notified that these works are to be carried out on a restricted site where the client is going on with other nomal 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 beeing carried out by the Client. The Contractor shall allow in his rates any expense he deemed necessary by taking such care within the site	
	Carried to collection	

Item	Description	Amount (KSh)
A	**WORKING CONDITIONS** The Contractor shall allow in his rates for any interferance 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.	
B	**SIGNBOARD** 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.	
C	**LABOUR CAMPS** 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.	
D	**MATERIALS FROM DEMOLITIONS** Any materials arising from demolitions and not re-used shall become the property of the Client	
E	**PRICING RATES** 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.	
F	**URGENCY OF THE WORKS** The Contractor is notified that these works should be completed within the period stated in these Particular Preliminaries. 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.	
G	**PAYMENT FOR MATERIALS ON SITE** 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.	
H	**EXISTING SERVICES** Prior to the commencement of any work, the Contractor is to ascertain from the relevant authority the exact position, depth and level of all existing services in the area and he/she shall make whatever provisions may be required by the authorities concerned for the support, maintenance and protection of such services.	
J	**CONTRACT COMPLETION PERIOD** The contract completion period in accordance with condition 10 of the General Conditions of contract must be adhered to. The 'PROJECT MANAGER' shall strictly monitor the Contractors progress in relation to the progress chart and should it be found necessary the 'PROJECT MANAGER' shall inform the Contractor in writing that his actual performance on site is not satisfactory .In all such cases the Contractor shall accelerate his rate of performance production and progress by all means such as additional labour,plant, e.t.c and working overtime all at his cost.	
	Carried to collection	

Item	Description	Amount (KSh)
A	**BID SECURITY** The Tenderer shall furnish as part of its Tender, either a Tender-Securing Declaration or a Tender Security as specified in clause 19 of the Instructions to Tenderer's.	
B	**TENDER DOCUMENTS** Tender documents are as listed in Clause 11 of the Instruction to Tenderer's	
C	**DELIVERY OF TENDER** Tenders and all documents in connection therewith, as specified above must be delivered in the addressed envelope which should be properly sealed and deposited at the offices as specified in the letter accompanying these documents or as indicated in the advertisement. Brought Forward from Page No. 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.	
D	**VALUE ADDED TAX** The Contractor's attention is drawn to the Legal Notice in Finance Act part 3 Section 21(b) operative from 1st September, 1993 which requires payment of VAT on all contracts. In accordance with Government public notice No. 35 & 36 Dated 11th September 2003 operational from 1st October 2003, withholding VAT is to be levied against the contract sum by the Employer and remitted to the Commissioner of VAT through interim certificates. The contractor shall include V.A.T in the Grand Summary page as indicated herein. **PROJECT MANAGERS EXPENSES** **Project Management expenses** Disclaimer: The following items are to be expended at the discretion of the Project Manager.	
E	Allow Provisional Sum of Kenya Shillings Four Million (Kshs.4,000,000.00) for, clerk of works allowances, airtime,subsistence allowance and stationery at the government rate for the Project Management Team members for the duration of the contract.	4,000,000.00
F	Allow for taxes, profits, overheads & Attendance on Item A above ..... % **Capacity Building Levy By PPRA** The Contractor's attention is drawn to Section 24(5) d and 180of the PPAD Act, Public Procurement Capacity Building Levy Order, 2023, leal notice No. 206 of 6th Novemebr 2023, which provides that " a procuring entity is mandated to ensure that there shall be a paid levy by the supplier on all procurement contacts signed between the supplier and procuring entity at the rate of 0.03% of the value of the signed contract exclusive of applicable taxes." Allow for taxes, profits, overheads & Attendance on Item A above ..... %	
	Carried to collection	

Item	Description	Amount (KSh)
	TRANSPORT	
J	The contractor shall provide transport whenever instructed by the PM for the duration of the contract.The transport will be inform of a four wheel drive(4WD) Van vehicle to comfortably seat Fourteen(14No.) persons.The vehicle together with a licenced and a competent driver shall be available for the duration of the trip untill released. The shall ensure that the vehicle is properly licenced, comprehensively ensured and in good state of maintenance . The Project Manager may reject unsatisfactorily vehicle or driver and order acceptable replacement **Reimbursement for transport shall be as follows:-** By a rate per (1 day) trip for providing satisfactorily vehicle together with licenced ,competent and acceptable driver and his subsistence allowances,adiquate fuel for the trip as per tenderes quoted rates below Allow for providing a satisfactorily vehicle together with a licenced and competent driver adequate fuel for 1 day trip and driver allowance for the project duration Allow for profits and attendance ------- %	
	Carried to collection	

Item	Description	Amount (KSh)
	The following are the insertions to be made in the appendix to the Contract Agreement: - **Period of Final Measurement** **3** Months From Practical completion **Defects Liability Period** **6** Months from Practical completion **Date for Possession** To be agreed with the Project Manager **Date for Completion** To be agreed with Project Manger **Liquidated and Ascertained** **0.003%** of the contract price per day **Prime cost** sums for which ..... The Contractor desires to tender ..... **Period of Honouring Certificates** 30 Days **Percentage of Certified Value Retained** 10% **Limit of Retention Fund** 5%	
	Carried to collection	
	COLLECTION Brought forward from page PP/1 Brought forward from page PP/2 Brought forward from page PP/3 Brought forward from page PP/4 Brought forward from page PP/5 Brought forward from above	
	TOTAL FOR BILL NO. 1: PARTICULAR PRELIMINARIES CARRIED TO MAIN SUMMARY	

Item	Description	Amount KShs
	BILL NO. 2	
	GENERAL PRELIMINARIES	
A	**PRICING ITEMS OF PRELIMINARIES AND PREAMBLES**	
	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	**ABBREVIATIONS**	
	Throughout these Bills, units of measurement and terms are abbreviated and shall be all the requirements for the proper execution of the whole of the works in the Contract.	
	CM. Shall mean cubic metre	
	SM. Shall mean square metre	
	LM. Shall mean linear metre	
	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.I., 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.	
	Carried to collection	-

Item	Description	Amount KShs
A	**EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT** *Attendance ;* Clause B19(a) of the Standard Method of Measurement is deleted and the following clause is substituted:- Attendance on nominated Sub-Contractors shall be given as an item in each case shall be deemed to include: allowing use of standing scaffolding, mess rooms, sanitary accommodation and welfare facilities; provision of special scaffolding where necessary; providing space for office accommodation and for storage of plant and materials; providing light and water for their work: clearing away rubbish; unloading 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 *Fix Only:-* "Fix Only" shall mean take delivery at nearest railway station (Unless otherwise stated),pay all demurrage charges, load and transport to site where necessary, unload, store,unpack, assemble as necessary, distribute to position, hoist and fix only.	
B	**EMPLOYER** The "Employer" is MINISTRY OF PUBLIC SERVICE The term "Employer" and "MINISTRY OF PUBLIC SERVICE " wherever used in the contract document shall be synonymous	
C	**PROJECT MANAGER (P.M)** 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. In this contract the projetc manager is the , **COUNTY WORKS OFFICER , STATE DEPARTMENT FOR PUBLIC WORKS - MURANGA** .	
D	**ARCHITECT** The term "Architect" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is Director State Department For Public Works, Muranga .	
E	**QUANTITY SURVEYOR** The term "Quantity Surveyor" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is the State Department for Public Works, Muranga	
F	**ELECTRICAL ENGINEER** The term "Electrical Engineer" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is the State Department for Public Works, Muranga	
G	**MECHANICAL ENGINEER** The term "Mechanical Engineer" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is Works the State Department for Public Works, Muranga	
	Carried to collection	-

Item	Description	Amount KShs
A	**STRUCTURAL ENGINEER** The term "Structural Engineer" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified isthe State Department for Public Works, Muranga	
B	**FORM OF CONTRACT** The Form of Contract shall be as stipulated in the Republic of Kenya's Standard Tender Document for Procurement of Building and associated Civil Engineering Works (April, 2022 edition) included haraein particular 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 The Conditions of Contract are also included herein *Conditions of Contract* These are numbered from 1 to 20 as set out in pages *74 to 126* 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	
C	**PERFORMANCE BOND.** The Contractor shall find and submit on the Form of Performance Security the Guarantor who will be willing to be bound 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 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	
D	**PLANT, TOOLS AND VEHICLES** Allow for providing all scaffolding, plant, tools and vehicles required for the works except in so far as may be stated otherwise herein and except for such items specificallyand 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	
E	**TRANSPORT.** Allow for transport of workmen, materials, etc., to and from the site at such hours and by such routes as may be permitted by the competent authorities.	
F	**MATERIALS AND WORKMANSHIP.** All materials and workmanship used in the execution of the work shall be of the best quality and description unless otherwise stated. The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also ensure 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 KShs
A	**SIGN FOR MATERIALS SUPPLIED.** Brought Forward from Page No.	
B	**STORAGE OF MATERIALS** The Contractor shall provide at his own risk and cost where directed on the site weather proof lock-up sheds and make good damaged or disturbed surfaces upon completion to the satisfaction of the PROJECT MANAGER Nominated Sub-Contractors are to be made liable for the cost of any storage accommodation provided especially for their use.	
C	**SAMPLES** The Contractor shall furnish at his own cost any samples of materials or workmanship including concrete test cubes required for the works that may be called for by the PROJECT MANAGER for his approval until such samples are approved by the PROJECT MANAGER and the PROJECT MANAGER, may reject any materials or workmanship not in his opinion to be up to approved samples. The PROJECT MANAGER shall arrange for the testing of such materials as he may at his discretion deem desirable, but the testing shall be made at the expense of the Contractor and not at the expense of the PROJECT MANAGER. The Contractor shall pay for the testing in accordance with the current scale of testing charges laid down by the Ministry of Land, Housing and Urban Development 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.	
D	**GOVERNMENT ACTS REGARDING WORKPEOPLE ETC.** Allow for complying with all Government Acts, Orders and Regulations in connection with the employment of Labour and other matters related to the execution of the works. 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.	
	Carried to collection	

Item	Description	Amount KShs
A	**SECURITY OF WORKS ETC.** The Contractor shall be entirely responsible for the security of all the works stores, materials, plant, personnel, etc., both his own and sub-contractors' and must provide all necessary watching, lighting and other precautions as necessary to ensure security against theft, loss or damage and the protection of the public.	
B	**PUBLIC AND PRIVATE ROADS.** Maintain as required throughout the execution of the works and make good any damage to public or private roads arising from or consequent upon the execution of the works to the satisfaction of the local and other competent authority and the PROJECT MANAGER	
C	**EXISTING PROPERTY.** The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expense to the satisfaction of the PROJECT MANAGER	
D	**VISIT SITE AND EXAMINE DRAWINGS.** The Contractor is recommended to examine the drawings and visit the site the location of which is described in the Particular Preliminaries hereof. He shall be deemed to have acquainted himself therewith as to its nature, position, means of access or any other matter which, may affect his tender. No claim arising from his failure to comply with this recommendation will be considered	
E	**ACCESS TO SITE AND TEMPORARY ROADS.** Means of access to the Site shall be agreed with the PROJECT MANAGER prior to commencement of the work and Contractor must allow for building any necessary temporary access roads for the transport of the materials, plant and workmen as may be required for the complete execution of the works including the provision of temporary culverts, crossings, bridges, or any other means of gaining access to the Site. Upon completion of the works, the Contractor shall remove such temporary access roads; temporary culverts, bridges, etc., and make good and reinstate all works and surfaces disturbed to the satisfaction of the PROJECT MANAGER The Contractor should also allow for relocating existing fence (approx. 30 metres long)	
F	**AREA TO BE OCCUPIED BY THE CONTRACTOR** The area of the site which may be occupied by the Contractor for use of storage and for the purpose of erecting workshops, etc., shall be defined on site by the PROJECT MANAGER	
	Carried to collection	

Item	Description	Amount KShs
A	**OFFICE ETC. FOR THE PROJECT MANAGER** The Contractor shall provide, erect and maintain where directed on site and afterwards dismantle the site office of the standard type, 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	**WATER AND ELECTRICITY SUPPLY FOR THE WORKS** The Contractor shall provide at his own risk and cost all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters as required at his own cost and clear away when no longer required and make good on completion to the entire satisfaction of the PROJECT MANAGER . The Contractor shall pay all charges in connection herewith. No guarantee is given or implied that sufficient water will be available from mains and the Contractor must make his own arrangements for augmenting this supply at his own cost. Nominated Sub--contractors are to be made liable for the cost of any water or electric current used and for any installation provided	
C	**SANITATION OF THE WORKS** The Sanitation of the works shall be arranged and maintained by the Contractor to the satisfaction of the Government and/or Local Authorities, Labour Department and the PROJECT MANAGER	
D	**SUPERVISION AND WORKING HOURS** The works shall be executed under the direction and to the entire satisfaction in all respects of the PROJECT MANAGER who shall at all times during normal working hours have access to the works and to the yards and workshops of the Contractor and sub-Contractors or other places where work is being prepared for the contract.	
E	**PROVISIONAL SUMS.** The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7(i) of the Standard Method of Measurement. Such sums are net and no addition shall be made to them for profit.	
F	**PRIME COST (OR P.C.) SUMS.** The term "Prime Cost Sum" or "P.C. Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7 (ii) of the Standard Method of Measurement. Persons or firms nominated by the PROJECT MANAGER to execute work or to provide and fix materials or goods are described herein as Nominated Sub-Contractors. Persons or firms so nominated to supply goods or materials are described herein as Nominated Suppliers	
	Carried to collection	

Item	Description	Amount KShs
A	**PROGRESS CHART.** The Contractor shall provide within two weeks of Possession of Site and in agreement with the PROJECT MANAGER a Progress Chart for the whole of the works including the works of Nominated Sub-Contractors ; one copy to be handed to the PROJECT MANAGER and a further copy to be retained on Site. Progress to be recorded and chart to be amended as necessary as the work proceeds.	
B	**ADJUSTMENT OF P.C. SUMS.** In the final account all P.C. Sums shall be deducted and the amount properly expended upon the PROJECT MANAGER'S order in respect of each of them added to the Contract sum. The Contractor shall produce to the PROJECT MANAGER such quotations, invoices or bills, properly receipted, as may be necessary to show the actual details of the sums paid by the Contractor. Items of profit upon P.C. Sums shall be adjusted in the final account pro-rata to the amount paid. Items of "attendance"	
D	**ADJUSTMENT OF PROVISIONAL SUMS.** 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, 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.	
E	**NOMINATED SUB-CONTRACTORS** When any work is ordered by the PROJECT MANAGER to be executed by nominated sub-contractors, the Contractor shall enter into sub-contracts and shall thereafter be responsible for such sub-contractors in every respect. Unless otherwise described the	
F	**DIRECT CONTRACTS** Notwithstanding the foregoing conditions, the Government reserves the right to place a "Direct Contract" for any goods or services required in the works which are covered by a P.C. Sum in the Bills of Quantities and to pay for the same direct. In any such instances, profit relative to the P.C. Sum the priced Bills of Quantities will be adjusted as described for P.C. Sums and allowed	
	Carried to collection	

Item	Description	Amount KShs
A	**ATTENDANCE UPON OTHER TRADESMEN, ETC.** The Contractor shall allow for the attendance of trade upon trade and shall afford any tradesmen or other persons employed for the execution of any work not included in this Contract every facility for carrying out their work and also for use of his ordinary scaffolding. The Contractor, however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for and making good after the work of such tradesmen or persons as may be ordered by the PROJECT MANAGER and the work will be measured and paid for to the extent executed at rates provided in these Bills.	
B	**INSURANCE** The Contractor shall insure as required in Clause 17 of the General 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.	
C	**PROVISIONAL WORK** All work described as "Provisional" in these Bills of Quantities is subject to remeasurement in order to ascertain the actual quantity executed for which payment will be made. All "Provisional" and other work liable to adjustment under this Contract shall left uncovered for a reasonable time to allow all measurements needed for such adjustment to be taken by the PROJECT MANAGER Immediately the work is ready for measuring, the Contractor shall give notice to the PROJECT MANAGER. If the Contractor makes default in these respects he shall if the PROJECT MANAGER so directs uncover the work to enable all measurements to be taken and afterwards reinstate at his own expense.	
D	**ALTERATIONS TO BILLS, PRICING, ETC.** Any unauthorised alteration or qualification made to the text of the Bills of Quantities may cause the Tender to be disqualified and will in any case be ignored. The Contractor shall be deemed to have made allowance in his prices generally to cover any items against which no price has been inserted in the priced Bills of Quantities. All items of measured work shall be priced in detail and the Tenders containing Lump Sums to cover trades or groups of work must be broken down to show the price of each item before they will be accepted.	
E	**BLASTING OPERATIONS** Blasting will only be allowed with the express permission of the PROJECT MANAGER in writing. All blasting operations shall be carried out at the Contractor's sole risk and cost in accordance with any Government regulations in force for the time being, and any special regulations laid down by the PROJECT MANAGER governing the use and storage of explosives.	
	Carried to collection	

Item	Description	Amount KShs
A	**MATERIALS ARISING FROM EXCAVATIONS** Materials of any kind obtained from the excavations shall be the property of the Government. Unless the PROJECT MANAGER directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used in the works, in substitution of materials which the Contractor would otherwise have had to supply with the written permission of the PROJECT MANAGER Should such permission be given, the Contractor shall make due allowance for the value of the materials so used at a price to be agreed	
B	**PROTECTION OF THE WORKS.** Provide protection of the whole of the works contained in the Bills of Quantities, including casing , casing up, covering or such other means as may be necessary to avoid damage to the satisfaction of the PROJECT MANAGER and remove such protection when no longer required and make good any damage which may nevertheless have been done at completion free of cost to the Government	
C	**REMOVAL OF RUBBISH ETC.** Removal of rubbish and debris from the Buildings and site as it accumulates and at the completion of the works and remove all plant, scaffolding and unused materials at completion.	
D	**WORKS TO BE DELIVERED UP CLEAN** Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash (except where such treatment might cause damage) and clean all floors, sanitary fittings, glass inside and outside and any other parts of the works and remove all marks, blemishes, stains and defects from joinery, fittings and decorated surfaces generally, polish door furniture and bright parts of metalwork and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the PROJECT MANAGER	
E	**GENERAL SPECIFICATION.** For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Ministry of Roads, 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	
F	**TRAINING LEVY** The Contractor's attention is drawn to legal notice No. 237 of October, 1971, which requires payment by the Contractor of a Training Levy at the rate of 1/4 % of the Contract sum on all contracts of more than Kshs. 50.000.00 in value.	
G	**MATERIALS ON SITE** All materials for incorporation in the works must be stored on or adjacent to the site before payment is effected unless specifically exempted by the PROJECT MANAGER. This includes the materials of the Main Contractor, Nominated Sub-Contractors and Nominated Suppliers.	
	Carried to collection	

Item	Description	Amount KShs
A	**HOARDING** The Contractor shall enclose all the areas under construction with approved material to the satisfaction of the PROJECT MANAGER	
B	**CONTRACTOR'S SUPERINTENDENCE/SITE AGENT** The Contractor shall constantly keep on the works a literate English speaking Agent or Representative, competent and experienced in the kind of work involved who shall give his whole experience in the kind of work involved and shall give his whole time to the superintendence of the works. Such Agent or Representative shall receive on behalf of the Contractor all directions and instructions from the Project Manager and such directions shall be deemed to have been given to the Contractor in accordance with the Conditions of Contract	
	Carried to collection	
	COLLECTION 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 Brought Forward From Above	
	TOTAL FOR BILL NO.2: GENERAL PRELIMINARIES CARRIED TO GRAND SUMMARY	**1,805,000.00**

SECTION NO. 2

DCC OFFICE BLOCK (GROUND FLOOR)

ITEM	DESCRIPTION	QTY	UNIT		
	BILL NO. 1				
	GROUND FLOOR				
	ELEMENT NO.1				
	SUBSTRUCTURES - ALL PROVISIONAL **Demolitions and Alterations**				
A	N/B Allow for disposal of asbestos roofing to approved NEMA credited sites, all permits and approvals for handling and disposal , including cleaning of the site free from asbestos particles(total coverage as 500 sq.m)	1	ITEM		
B	Carefully demolish existing 1 no office blocks entirely and cart away all debris arising, set aside all salvagable materials as directed by the Architect (total coverage as 500 sq.m)	1	ITEM		
C	Allow Provisional Sum of Kenya Shillings Three Hundered and Eighty Thousand (Kshs.380,000.00) for, Enviromental Impact Assessment Consultation fee (should include public participation involving the local chief) and Nema License	1	ITEM		
	Excavations and earthworks				
D	Excavate oversite average 200mm deep to remove vegetable soil load up wheel and deposit about 100metres away and later spread and level on site where directed;	745	SM		
E	Excavate for strip foundation trenches occurring not exceeding 1.5metres deep commencing from reduced level	164	CM		
F	Excavate for column bases occurring not exceeding 1.5metres deep commencing from reduced level	938	CM		
G	Allow for keeping excavations free from mud and all water including spring and running water by pumping pailing or other approved means.		ITEM		
H	Allow for planking and strutting to sides of excavations		ITEM		
	Disposal				
I	Load surplus excavated material and cart away	524	CM		
	Filling				
J	Return fill and ram selected excavated material around foundations.	578	CM		
	Hardcore as described				
K	300mm Thick layer of imported hardcore filling including levelling and consolidating in 150mm layers	644	SM		
	Blinding				
L	50mm Thick Quarry dust blinding to the surface of hardcore;rolled smooth to receive polythene sheeting(m.s)	644	SM		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT		
	Insecticide Treatment				
A	**'TERMIDOL" or other equal and** approved chemical insecticide treatment prepared and applied according to the manufacturer's printed instructions.	644	SM		
	Damp proof membrane				
B	500 Gauge polythene or other equal and approved plastic sheet damp proof membrane laid over blinding(measured nett - allow for laps)	644	SM		
	In-situ concrete work				
	Mass concrete (1:3:6/38-38mm aggregate)				
C	50mm Thick blinding under strip foundations	109	SM		
D	50mm Thick blinding under column bases	626	SM		
	Vibrated reinforced concrete (1:1.5:3/25 - 20mm aggregate) as described in:				
E	Strip foundations	24	CM		
F	Column bases	376	CM		
G	Entry porch Steps	2	CM		
H	Columns	9	CM		
K	150 mm Thick ground floor slab	644	SM		
	Steel reinforcement				
	High tensile square twisted bars to B.S. 4461				
L	8 mm Diameter	345	KG.		
M	10 mm Diameter	1328	KG.		
N	16 mm Diameter	13498	KG.		
P	20 mm Diameter	2739	KG.		
	Mesh reinforcement				
Q	Fabric mesh reinforcement to B.S. 4483 ref: A142 including laps tyingwire and spacer blocks complete(measured Brought Forward from Page No.	644	SM		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT		
	Sawn Formwork as Described to;				
A	Vertical sides of strip foundations	66	SM		
B	Vertical sides of Column bases	424	SM		
C	Vertical sides of Columns	98	SM		
D	Edge of floor slab 75-150mm high	136	LM		
	Foundation walling				
E	200mm Thick rough chisel dressed natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoopiron in every alternate course	527	SM		
	Plinth area finishes				
F	12mm Thick cement and sand (1:3) wood float render to plinth area	62	SM		
G	Prepare and apply three coats black bitumastic paint to rendered area	62	SM		
	Carried to collection	*below*			
	COLLECTION				
	Brought Forward from Page No. BW		**1**		
	Brought Forward from Page No. BW		**2**		
	Brought Forward from Page No. BW		**Above**		
	TOTAL FOR ELEMENT NO. 1 SUBSTRUCTURES *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO.2				
	REINFORCED CONCRETE FRAME				
	(ALL PROVISIONAL) **Vibrated reinforced concrete (1:1.5:3/25 - 20mm aggregate) as described in: described in:-**				
A	Beams	34	CM		
B	Columns	20	CM		
C	Staircase	3	CM		
D	150mm thick Suspended slabs/ landings	583	SM		
	Steel reinforcement				
	Supply and fix steel bars reinforcement including bending, hooks, tying wire, cutting, spacer blocks and supporting all in position **High tensile square twisted bars to B.S. 4461 as described in ;**				
E	8 mm Diameter	1719	KG.		
F	10 mm Diameter	7156	KG.		
G	12 mm Diameter	781	KG.		
H	16 mm Diameter	1937	KG.		
J	20mm Diameter	4851	KG.		
K	25mm Diameter	2823	KG.		
	Sawn formwork as described to ;				
L	Sides and soffits of beams	404	SM		
M	Vertical sides of columns	235	SM		
N	Staircase measured generally	26	SM		
P	Soffittes of slabs and landings	583	SM		
Q	Edges of slabs 75-150mm girth high	123	LM		
	TOTAL FOR ELEMENT NO. 2 **R.C. SUPERSTRUCTURE** ***CARRIED TO SUMMARY***				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 3				
	WALLING (ALL PROVISIONAL)				
	Fine chiselled natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoop iron in alternate courses; NOTE; with horizontal keys externally; internally left plain ready for plaster (m.s)				
A	200mm Thick External wall reinforced in every third course	208	SM		
	Fine machine cut natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoopiron; internally left plain ready for plaster (m.s)				
B	200mm Thick Internal wall reinforced in every third course	341	SM		
C	150mm Thick Internal wall reinforced in every third course	48	SM		
	Horizontal damp proof course ; one layer of 3 - ply bituminous felt or other equal and approved (measured nett - allow for laps)				
D	200mm Wide levelled and bedded in cement and sand (1:3) mortar under walls	245	LM		
E	150mm Wide levelled and bedded in cement and sand (1:3) mortar under walls	17	LM		
	TOTAL FOR ELEMENT NO.3 WALLING *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 4				
	EXTERNAL WALL FINISHES				
	12mm thick cement,sand render,with wood float finish , as described to:-				
A	Masonry walls and Concrete surfaces of columns and beams	282	SM		
	Painting and decorations				
	Prepare and apply one undercoat and two finishing				
	coats "Permacoat" or equivalent exterior quality emulsion paint on:-				
B	Fair faced surfaces of concrete beams and columns	282	SM		
	TOTAL FOR ELEMENT NO. 4 EXTERNAL WALL FINISHES *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 5				
	INTERNAL WALL FINISHES				
	(ALL PROVISIONAL)				
	Internal wall finishes				
A	Hack out joints and apply 12mm thick gauged lime plaster (1:2:9) in two coats finished with steel trowel on natural stone walling and beams	1183	SM		
B	10mm Thick cement and sand (1:4) screed finished to receive glazed tiling	85	SM		
	250 x 400 x 6 mm Thick coloured glazed Ceramic wall tiles jointed and pointed with matching white cement				
C	Tiling on walls	85	SM		
	Painting and decorations **Prepare and apply one undercoat and two finishing coats plastic Vinyl matt or equivalent emulsion paint on:-**				
D	Plastered surfaces	1183	SM		
	TOTAL FOR ELEMENT NO. 5 INTERNAL WALL FINISHES *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 6				
	FLOOR FINISHES				
	Insitu cement and sand (1:3) screeded beds ,with steel trowelled finish, on concrete				
A	25 mm screed to receive ceramic tile to floor slabs (ms)	593	SM		
B	Ditto to staircase generally	26	SM		
	Supply and fix only 300x300 Ceramic floor tiles as "SAJ ceramics" to floor on prepared screed (m.s) with proprietary adhesive; jointed and pointed in matching coloured proprietary grouting: including pvc spacers and expansion joint as necessary: all to Architect's approval.				
C	To floors	593	SM		
D	Ditto to staircase generally	26	SM		
E	Ditto 100 mm high skirting to floors	353	SM		
	TOTAL FOR ELEMENT NO. 6 FLOOR FINISHES *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 7				
	CEILING FINISHES				
	(ALL PROVISIONAL)				
	12 mm thick plaster cement sand lime (1:1:6) plaster steel trowelled finish,on concrete				
A	Suspended slab soffits	583	SM		
B	Ditto; soffittes of staircase waist and landings	12	SM		
	Painting & decorations				
	Knot prime and stop and prepare and apply three coats first quality emulsiion paint				
C	Soffittes of slabs	583	SM		
D	Ditto; soffittes of staircase waist and landings	12	SM		
	TOTAL FOR ELEMENT NO. 7 CEILING FINISHES *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 8				
	WINDOWS				
	(ALL PROVISIONAL)				
A	175 x 75 mm thick precast concrete window; weathered and throated	110	LM		
	Curtain rail				
B	25 mm diameter Stainless steel curtain rail complete with fixing brackets, rings, rollers and all other necessary accessories.	95	LM		
	Steel Casement Windows				
	Purpose made steel window casements in 25 mm thick Round bars and flat bars; complete with , permanent vent with mosquito gauze and fixed to opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement and sand mortar (1:4) (Burglar proofing grilles included)				
C	Window Size 900 x 1300mm high	1	NO		
D	Window Size 1000 x 1500 mm high	5	NO		
E	Window Size 1150 x 1300mm high	1	NO		
F	Window Size 2000 x 1500mm high	1	NO		
G	Window Size 2100 x 1600mm high	4	NO		
H	Window Size 3150 x 1300mm high	2	NO		
J	Window Size 3300 x 1600mm high	15	NO		
K	Window Size 4400 x 1600mm high	4	NO		
	Clear sheet Glass				
L	4 mm thick clear and one way tinted in selected areas	142	SM		
	Obscure sheet Glass				
M	5 mm thick	23	SM		
	Prepare and apply two undercoats and one finishing coat gloss oil paint to				
N	Steel window surfaces / grilles; measured generally	165	SM		
	TOTAL FOR ELEMENT NO. 8 WINDOWS *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 9				
	DOORS				
	(ALL PROVISIONAL)				
	Steel Casement Doors				
	Standard door complete with hinges, permanent vent with mosquito gauze and sheet metal hood etc assembled and fixed to opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement and sand mortar (1:4) (Grille, 3 lever "Union" or approved equivalent steel lock and Glazing included)				
A	Door Overall size 1800 x 2500 mm high; Double door	2	NO		
	Solid core flush doors:				
B	50 mm thick single -leaf size 900 X 2400 mm overall with high quality 4 mm thick plywood facing ; complete with a 5 mm thick glazed fanlight top size 900 x 300 mm high	11	NO		
C	Ditto size 1800 x 2400- double leaf	4	NO		
	Semi solid core flush doors:				
D	50 mm thick single -leaf size 800 X 2100 mm overall with high quality 4 mm thick plywood facing	10	NO		
E	Ditto 1000 x 2100mm - Disabled door	1	NO		
	Wrot Cypress backs primed before fixing in zinc chromate wood primer:				
F	150 x 50 mm Frame once rebated	144	LM		
G	150 x 50 mm transome twice rebated	19	LM		
H	45 x 25 mm architrave with one labour	144	LM		
J	25mm quadrant	144	LM		
	Ironmongery as per "Union" or approved Catalogue				
K	Two lever mortice lock complete with quality furniture	26	NO		
L	Sliding washroom locks with indicator	7	NO		
M	100mm stainless steel butt hinges	40	Prs		
	Prepare and Apply Three Coats of Gloss Oil Paint to:-				
N	Steel door / grilles; general surfaces	18	SM		
P	Timber door general surfaces	105	SM		
Q	Ditto 200 to 300mm girth.	163	LM		
R	Ditto 100 to 200mm girth.	144	LM		
S	Ditto; not exceeding 100mm girth	144	LM		
	TOTAL FOR ELEMENT NO. 9 **DOORS** ***CARRIED TO SUMMARY***				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO 10 *JOINERRY FITTINGS* *NOTE: All blockboard, MDF boards etc in joinery works shall be lipped with hardwood lipping all round before fixing.* **Low level kitchen worktops with 600x600x20mm porcelain tiles top on 100mm thick reinforced concrete slab with A142 BRC mesh, formwork to soffits and slab edges, plater to soffits of slab, screed to top slab, 100mm thick plastered steeper walls, including 300x300x6mm thick ceramic wall tiles on both sides of the wall: 100mm plastered mass concrete plinths in concrete class 15MPa: 18mm laminated mdf sides and shelves complete with doors, shelves, drawers, cutting tiles for kitchen sink (m.s) & all necessary ironmongery; to Architect's details and approval**				
A	Low level kitchen cupboards below concrete worktop total girth grouped together 900mm high x 600 mm deep	5	LM		
	High level Kitchen cupboards **High level kitchen cupboards in 18mm laminated mdf sides & shelves complete with doors, top bottom and divions with and including all necessary ironmongery; to Architects details**				
B	600mm high x 350mm deep	4	LM		
	TOTAL FOR ELEMENT NO.10 **JOINERRY FITTINGS** ***CARRIED TO SUMMARY***				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO 11				
	BALLUSTRADING AND RAILING				
	BALUSTRADING				
A	Mild steel balustrading 900 mm high overall in 50 x 25 x 3 mm RHS framing; 25 x 25 x 3 mm RHS sections at 150 mm centres; including all the necessary welds and priming ; all to the Architect's design	10	LM		
	Prepare and Apply Three Coats of Gloss Oil Paint to:-				
B	Steel balustrading general surfaces (measured generally)	10	SM		
	TOTAL FOR ELEMENT NO.11 BALLUSTRADING AND RAILING *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	GROUND FLOOR BUILDERS WORK SUMMARY	PAGE	NO		
1	SUBSTRUCTURES	GF	3		
2	R.C SUPERSTRUCTURES	GF	4		
3	WALLING	GF	5		
4	EXTERNAL WALL FINISHES	GF	6		
5	INTERNAL WALL FINISHES	GF	7		
6	FLOOR FINISHES	GF	8		
7	CEILING FINISHES	GF	9		
8	WINDOWS	GF	10		
9	DOORS	GF	11		
10	JOINERY FITTINGS	GF	12		
11	BALLUSTRADING	GF	13		
	TOTAL FOR GROUND FLOOR BUILDERS WORK CARRIED TO GRAND SUMMARY				

SECTION NO. 3

DCC OFFICE BLOCK
(FIRST FLOOR)

ITEM	DESCRIPTION	QTY	UNIT		
	BILL NO. 2				
	FIRST FLOOR				
	ELEMENT NO.1				
	REINFORCED CONCRETE FRAME				
	(ALL PROVISIONAL)				
	Vibrated reinforced concrete (1:1.5:3/25 - 20mm aggregate) as described in: described in:-				
A	Beams	34	CM		
B	Columns	20	CM		
C	Staircase	3	CM		
D	150mm thick Suspended slabs/ landings	583	SM		
	Steel reinforcement				
	Supply and fix steel bars reinforcement including bending, hooks, tying wire, cutting, spacer blocks and supporting all in position High tensile square twisted bars to B.S. 4461 as described in ;				
E	8 mm Diameter	1719	KG.		
F	10 mm Diameter	7156	KG.		
G	12 mm Diameter	781	KG.		
H	16 mm Diameter	1937	KG.		
J	20mm Diameter	4851	KG.		
K	25mm Diameter	2823	KG.		
	Sawn formwork as described to ;				
L	Sides and soffits of beams	404	SM		
M	Vertical sides of columns	235	SM		
N	Staircase measured generally	26	SM		
P	Soffittes of slabs and landings	583	SM		
Q	Edges of slabs 75-150mm girth high	123	LM		
	TOTAL FOR ELEMENT NO. 1 R.C. SUPERSTRUCTURE *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 2				
	WALLING (ALL PROVISIONAL)				
	Fine chiselled natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoop iron in alternate courses; NOTE; with horizontal keys externally; internally left plain ready for plaster (m.s)				
A	200mm Thick External wall reinforced in every third course	216	SM		
	Fine machine cut natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and				
B	200mm Thick Internal wall reinforced in every third course	392	SM		
C	150mm Thick Internal wall reinforced in every third course	51	SM		
	Aluminium Partition				
D	Supply, manufacture and fix complete proprietary aluminium-framed partition system comprising 100 x 50 mm powder-coated/anodised extruded aluminium head, base, vertical and intermediate framing members, securely anchored to floors, ceilings and adjoining walls; infill with 25mm thick MDF panels of specified thickness, factory laminated/veneered or prepared, primed and painted with approved finish as specified; incorporating clear toughened safety glazing 10mm thick in aluminium glazing frames complete with proprietary glazing beads, EPDM/neoprene gaskets, setting blocks and approved sealants; including all necessary mullions, transoms, corner posts, junction profiles, cover trims, fixing accessories, brackets, screws, anchors, sealants and all associated components, including matching aluminium-framed MDF/glazed doors where indicated, complete with hinges, locks, handles, closers, stops and all ironmongery	18	SM		
	TOTAL FOR ELEMENT NO.2 WALLING *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 4				
	EXTERNAL WALL FINISHES				
	12mm thick cement,sand render,with wood float finish , as described to:-				
A	Masonry walls and Concrete surfaces of columns and beams	299	SM		
	Painting and decorations				
	Prepare and apply one undercoat and two finishing coats "Permacoat" or equivalent exterior quality emulsion paint on:-				
B	Brought Forward from Page No. columns	299	SM		
	TOTAL FOR ELEMENT NO. 4 EXTERNAL WALL FINISHES *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 5				
	INTERNAL WALL FINISHES				
	(ALL PROVISIONAL)				
	Internal wall finishes				
A	Hack out joints and apply 12mm thick gauged lime plaster (1:2:9) in two coats finished with steel trowel on natural stone walling and beams	1289	SM		
B	10mm Thick cement and sand (1:4) screed finished to receive glazed tiling	95	SM		
	250 x 400 x 6 mm Thick coloured glazed Ceramic wall tiles jointed and pointed with matching white cement				
C	Tiling on walls	95	SM		
	Painting and decorations				
D	Plastered surfaces	1289	SM		
	TOTAL FOR ELEMENT NO. 5 INTERNAL WALL FINISHES *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 6				
	FLOOR FINISHES				
	Insitu cement and sand (1:3) screeded beds ,with steel trowelled finish, on concrete				
A	25 mm screed to receive ceramic tile to floor slabs (ms)	523	SM		
B	Ditto to staircase generally	26	SM		
	Supply and fix only 300x300 Ceramic floor tiles as "SAJ ceramics" to floor on prepared screed (m.s) with proprietary adhesive; jointed and pointed in matching coloured proprietary grouting: including pvc spacers and expansion joint as necessary: all to Architect's approval.				
C	To floors	523	SM		
D	Ditto to staircase generally	26	SM		
E	Ditto 100 mm high skirting to floors	430	SM		
	TOTAL FOR ELEMENT NO. 6 FLOOR FINISHES *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 7				
	CEILING FINISHES				
	(ALL PROVISIONAL)				
	12 mm thick plaster cement sand lime (1:1:6) plaster steel trowelled finish,on concrete				
A	Suspended slab soffits	523	SM		
B	Ditto; soffittes of staircase waist and landings	12	SM		
	Painting & decorations				
	Knot prime and stop and prepare and apply three coats first quality emulsiion paint				
C	Soffittes of slabs	523	SM		
D	Ditto; soffittes of staircase waist and landings	12	SM		
	TOTAL FOR ELEMENT NO. 7 CEILING FINISHES *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 8				
	WINDOWS				
	(ALL PROVISIONAL)				
A	175 x 75 mm thick precast concrete window; weathered and throated	106	LM		
	Curtain rail				
B	25 mm diameter Stainless steel curtain rail complete with fixing brackets, rings, rollers and all other necessary accessories.	90	LM		
	Steel Casement Windows				
	Purpose made steel window casements in 25 mm thick Round bars and flat bars; complete with , permanent vent with mosquito gauze and fixed to opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement and sand mortar (1:4) (Burglar proofing grilles included)				
C	Window Size 1000 x 1300mm high	6	NO		
D	Window Size 1150 x 1300mm high	2	NO		
E	Window Size 3150 x 1300mm high	2	NO		
F	Window Size 2100 x 1600mm high	2	NO		
G	Window Size 3300 x 1600mm high	18	NO		
H	Window Size 4400 x 1600mm high	4	NO		
	Clear sheet Glass				
J	4 mm thick clear and one way tinted in selected areas	124	SM		
	Obscure sheet Glass				
K	5 mm thick	23	SM		
	Prepare and apply two undercoats and one finishing coat gloss oil paint to				
L	Steel window surfaces / grilles; measured generally	147	SM		
	TOTAL FOR ELEMENT NO. 8 WINDOWS *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 9				
	DOORS				
	(ALL PROVISIONAL)				
	TIMBER DOORS				
	Solid core flush doors:				
A	50 mm thick single -leaf size 900 X 2400 mm overall with high quality 4 mm thick plywood facing ; complete with a 5 mm thick glazed fanlight top size 900 x 300 mm high	18	NO		
B	Ditto size 1800 x 2400- double leaf	6	NO		
	Semi solid core flush doors:				
C	50 mm thick single -leaf size 800 X 2100 mm overall with high quality 4 mm thick plywood facing	9	NO		
D	Ditto 1000 x 2100mm - Disabled door	1	NO		
	Wrot Cypress backs primed before fixing in zinc chromate wood primer:				
E	150 x 50 mm Frame once rebated	193	LM		
F	150 x 50 mm transome twice rebated	29	LM		
G	45 x 25 mm architrave with one labour	193	LM		
H	25mm quadrant	193	LM		
	Ironmongery as per "Union" or approved Catalogue				
J	Two lever mortice lock complete with quality furniture	34	NO		
K	Sliding washroom locks with indicator	7	NO		
L	100mm stainless steel butt hinges	56	Prs		
	Prepare and Apply Three Coats of Gloss Oil Paint to:-				
M	Timber door general surfaces	110	SM		
N	Ditto 200 to 300mm girth.	222	LM		
P	Ditto 100 to 200mm girth.	193	LM		
Q	Ditto; not exceeding 100mm girth	193	LM		
	TOTAL FOR ELEMENT NO. 9 **DOORS** ***CARRIED TO SUMMARY***				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO 10 *JOINERRY FITTINGS* *NOTE: All blockboard, MDF boards etc in joinery works shall be lipped with hardwood lipping all round before fixing.* Low Level kitchen worktops with 600x600x10mm porcelain tiles top on 100mm thick reinforced concrete slab with A142 BRC mesh, formwork to soffits and slab edges, plater to soffits of slab, screed to top slab, 100mm thick plastered steeper walls, including 300x300x6mm thick ceramic wall tiles on both sides of the wall: 100mm plastered mass concrete plinths in concrete class 15MPa: 18mm laminated mdf sides and shelves complete with doors, shelves, drawers, cutting tiles for kitchen sink (m.s) & all necessary ironmongery; to Architect's details and approval				
A	Low level kitchen cupboards below concrete worktop total girth grouped together 900mm high x 600 mm deep	5	LM		
	High level Kitchen cupboards High level kitchen cupboards in 18mm laminated mdf sides & shelves complete with doors, top bottom and divions with and including all necessary ironmongery; to Architects details				
B	600mm high x 350mm deep	4	LM		
	TOTAL FOR ELEMENT NO.10 JOINERRY FITTINGS *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO 11 **BALLUSTRADING AND RAILING**				
	BALUSTRADING				
A	Mild steel balustrading 900 mm high overall in 50 x 25 x 3 mm RHS framing; 25 x 25 x 3 mm RHS sections at 150 mm centres; including all the necessary welds and priming ; all to the Architect's design	10	LM		
	Prepare and Apply Three Coats of Gloss Oil Paint to:-				
B	Steel balustrading general surfaces (measured generally)	10	SM		
	TOTAL FOR ELEMENT NO.11 **BALLUSTRADING AND RAILING** ***CARRIED TO SUMMARY***				

ITEM	DESCRIPTION	QTY	UNIT		
	FIRST FLOOR BUILDERS WORK SUMMARY	PAGE	NO		
1	R.C SUPERSTRUCTURES	FF	1		
2	WALLING	FF	2		
3	EXTERNAL WALL FINISHES	FF	3		
4	INTERNAL WALL FINISHES	FF	4		
5	FLOOR FINISHES	FF	5		
6	CEILING FINISHES	FF	6		
7	WINDOWS	FF	7		
8	DOORS	FF	8		
9	JOINERY FITTINGS	FF	9		
10	BALLUSTRADING	FF	10		
	TOTAL FOR FIRST FLOOR BUILDERS WORK CARRIED TO GRAND SUMMARY				

SECTION NO. 4

DCC OFFICE BLOCK (SECOND FLOOR)

ITEM	DESCRIPTION	QTY	UNIT		
	BILL NO. 3				
	SECOND FLOOR				
	ELEMENT NO.1				
	REINFORCED CONCRETE FRAME				
	(ALL PROVISIONAL)				
	Vibrated reinforced concrete (1:1.5:3/25 - 20mm aggregate) as described in: described in:-				
A	Beams	34	CM		
B	Columns	20	CM		
C	Staircase	3	CM		
D	150mm thick Suspended slabs/ landings	583	SM		
E	Ditto entry porch cover slab	38	SM		
	Steel reinforcement				
F	8 mm Diameter	1719	KG.		
G	10 mm Diameter	7601	KG.		
H	12 mm Diameter	781	KG.		
J	16 mm Diameter	1937	KG.		
K	20mm Diameter	4851	KG.		
L	25mm Diameter	2823	KG.		
	Sawn formwork as described to ;				
M	Sides and soffits of beams	404	SM		
N	Vertical sides of columns	235	SM		
P	Staircase measured generally	26	SM		
Q	Soffittes of slabs and landings	621	SM		
R	Edges of slabs 75-150mm girth high	123	LM		
	TOTAL FOR ELEMENT NO. 1 R.C. SUPERSTRUCTURE				
	CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 2				
	WALLING (ALL PROVISIONAL)				
	Fine chiselled natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoop iron in alternate courses; NOTE; with horizontal keys externally; internally left plain ready for plaster (m.s)				
A	200mm Thick External wall reinforced in every third course	216	SM		
	Fine machine cut natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoopiron; internally left plain ready for plaster (m.s)				
B	200mm Thick Internal wall reinforced in every third course	338	SM		
C	150mm Thick Internal wall reinforced in every third course	51	SM		
	Aluminium Partition				
D	Supply, manufacture and fix complete proprietary aluminium-framed partition system comprising 100 x 50 mm powder-coated/anodised extruded aluminium head, base, vertical and intermediate framing members, securely anchored to floors, ceilings and adjoining walls; infill with 25mm thick MDF panels of specified thickness, factory laminated/veneered or prepared, primed and painted with approved finish as specified; incorporating clear toughened safety glazing 10mm thick in aluminium glazing frames complete with proprietary glazing beads, EPDM/neoprene gaskets, setting blocks and approved sealants; including all necessary mullions, transoms, corner posts, junction profiles, cover trims, fixing accessories, brackets, screws, anchors, sealants and all associated components, including matching aluminium-framed MDF/glazed doors where indicated, complete with hinges, locks, handles, closers, stops and all ironmongery	37	SM		
	TOTAL FOR ELEMENT NO.2 WALLING *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 4				
	EXTERNAL WALL FINISHES				
	12mm thick cement,sand render,with wood float finish , as described to:-				
A	Masonry walls and Concrete surfaces of columns and beams	299	SM		
	Painting and decorations				
	Prepare and apply one undercoat and two finishing coats "Permacoat" or equivalent exterior quality emulsion paint on:-				
B	Fair faced surfaces of concrete beams and columns	299	SM		
	TOTAL FOR ELEMENT NO. 4 EXTERNAL WALL FINISHES *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 5				
	INTERNAL WALL FINISHES				
	(ALL PROVISIONAL)				
	Internal wall finishes				
A	Hack out joints and apply 12mm thick gauged lime plaster (1:2:9) in two coats finished with steel trowel on natural stone walling and beams	1181	SM		
B	10mm Thick cement and sand (1:4) screed finished to receive glazed tiling	95	SM		
	250 x 400 x 6 mm Thick coloured glazed Ceramic wall tiles jointed and pointed with matching white cement				
C	Tiling on walls	95	SM		
	Painting and decorations **Prepare and apply one undercoat and two finishing coats plastic Vinyl matt or equivalent emulsion paint on:-**				
	Plastered surfaces	1181			
	TOTAL FOR ELEMENT NO. 5 INTERNAL WALL FINISHES *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 6				
	FLOOR FINISHES				
	Insitu cement and sand (1:3) screeded beds ,with steel trowelled finish, on concrete				
A	25 mm screed to receive ceramic tile to floor slabs (ms)	528	SM		
B	Ditto to staircase generally	26	SM		
	Supply and fix only 300x300 Ceramic floor tiles as "SAJ ceramics" to floor on prepared screed (m.s) with proprietary adhesive; jointed and pointed in matching coloured proprietary grouting: including pvc spacers and expansion joint as necessary: all to Architect's approval.				
C	To floors	528	SM		
D	Ditto to staircase generally	26	SM		
E	Ditto 100 mm high skirting to floors	388	SM		
	TOTAL FOR ELEMENT NO. 6 FLOOR FINISHES *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 7				
	CEILING FINISHES				
	(ALL PROVISIONAL)				
	12 mm thick plaster cement sand lime (1:1:6) plaster steel trowelled finish,on concrete				
A	Suspended slab soffits	528	SM		
B	Ditto; soffittes of staircase waist and landings	12	SM		
C	Ditto; soffittes of entry porch slab cover	38	SM		
	Painting & decorations				
	Knot prime and stop and prepare and apply three coats first quality emulsiion paint				
D	Soffittes of slabs	528	SM		
E	Ditto; soffittes of staircase waist and landings	12	SM		
F	Ditto; soffittes of entry porch slab cover	38	SM		
	TOTAL FOR ELEMENT NO. 7 CEILING FINISHES *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 8				
	WINDOWS				
	(ALL PROVISIONAL)				
A	175 x 75 mm thick precast concrete window; weathered and throated	106	LM		
	Curtain rail				
B	25 mm diameter Stainless steel curtain rail complete with fixing brackets, rings, rollers and all other necessary accessories.	90	LM		
	Steel Casement Windows				
	Purpose made steel window casements in 25 mm thick Round bars and flat bars; complete with , permanent vent with mosquito gauze and fixed to opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement and sand mortar (1:4) (Burglar proofing grilles included)				
C	Window Size 1000 x 1300mm high	6	NO		
D	Window Size 1150 x 1300mm high	2	NO		
E	Window Size 3150 x 1300mm high	2	NO		
F	Window Size 2100 x 1600mm high	2	NO		
G	Window Size 3300 x 1600mm high	18	NO		
H	Window Size 4400 x 1600mm high	4	NO		
	Clear sheet Glass				
L	4 mm thick clear and one way tinted in selected areas	124	SM		
	Obscure sheet Glass				
M	5 mm thick	23	SM		
	Prepare and apply two undercoats and one finishing coat gloss oil paint to				
N	Steel window surfaces / grilles; measured generally	147	SM		
	TOTAL FOR ELEMENT NO. 8 WINDOWS *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 9				
	DOORS				
	(ALL PROVISIONAL)				
	TIMBER DOORS				
	Solid core flush doors:				
A	50 mm thick single -leaf size 900 X 2400 mm overall with high quality 4 mm thick plywood facing ; complete with a 5 mm thick glazed fanlight top size 900 x 300 mm high	14	NO		
B	Ditto size 1800 x 2400- double leaf	6	NO		
	Semi solid core flush doors:				
C	50 mm thick single -leaf size 800 X 2100 mm overall with high quality 4 mm thick plywood facing	9	NO		
D	Ditto 1000 x 2100mm - Disabled door	1	NO		
	Wrot Cypress backs primed before fixing in zinc chromate wood primer:				
E	150 x 50 mm Frame once rebated	170	LM		
F	150 x 50 mm transome twice rebated	23	LM		
G	45 x 25 mm architrave with one labour	170	LM		
H	25mm quadrant	170	LM		
	Ironmongery as per "Union" or approved Catalogue				
J	Two lever mortice lock complete with quality furniture	30	NO		
K	Sliding washroom locks with indicator	7	NO		
L	100mm stainless steel butt hinges	50	Prs		
	Prepare and Apply Three Coats of Gloss Oil Paint to:-				
M	Timber door general surfaces	133	SM		
N	Ditto 200 to 300mm girth.	193	LM		
P	Ditto 100 to 200mm girth.	170	LM		
Q	Ditto; not exceeding 100mm girth	170	LM		
	TOTAL FOR ELEMENT NO. 9 **DOORS** ***CARRIED TO SUMMARY***				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO 10 *JOINERRY FITTINGS* *NOTE: All blockboard, MDF boards etc in joinery works shall be lipped with hardwood lipping all round before fixing.* **Low Level kitchen worktops with 600x600x10mm porcelain tiles top on 100mm thick reinforced concrete slab with A142 BRC mesh, formwork to soffits and slab edges, plater to soffits of slab, screed to top slab, 100mm thick plastered steeper walls, including 300x300x6mm thick ceramic wall tiles on both sides of the wall: 100mm plastered mass concrete plinths in concrete class 15MPa: 18mm laminated mdf sides and shelves complete with doors, shelves, drawers, cutting tiles for kitchen sink (m.s) & all necessary ironmongery; to Architect's details and approval**				
A	Low level kitchen cupboards below concrete worktop total girth grouped together 900mm high x 600 mm deep	5	LM		
	High level Kitchen cupboards **High level kitchen cupboards in 18mm laminated mdf sides & shelves complete with doors, top bottom and divions with and including all necessary ironmongery; to Architects details**				
B	600mm high x 350mm deep	4	LM		
	TOTAL FOR ELEMENT NO.10 **JOINERRY FITTINGS** ***CARRIED TO SUMMARY***				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO 11 **BALLUSTRADING AND RAILING**				
	BALUSTRADING				
A	Mild steel balustrading 900 mm high overall in 50 x 25 x 3 mm RHS framing; 25 x 25 x 3 mm RHS sections at 150 mm centres; including all the necessary welds and priming ; all to the Architect's design	10	LM		
	Prepare and Apply Three Coats of Gloss Oil Paint to:-				
B	Steel balustrading general surfaces (measured generally)	10	SM		
	TOTAL FOR ELEMENT NO.11 **BALLUSTRADING AND RAILING** ***CARRIED TO SUMMARY***				

ITEM	DESCRIPTION	QTY	UNIT		
	SECOND FLOOR BUILDERS WORK SUMMARY	PAGE	NO		
1	R.C SUPERSTRUCTURES	SF	1		
2	WALLING	SF	2		
3	EXTERNAL WALL FINISHES	SF	3		
4	INTERNAL WALL FINISHES	SF	4		
5	FLOOR FINISHES	SF	5		
6	CEILING FINISHES	SF	6		
7	WINDOWS	SF	7		
8	DOORS	SF	8		
9	JOINERY FITTINGS	SF	9		
10	BALLUSTRADING	SF	10		
	TOTAL FOR SECOND FLOOR BUILDERS WORK CARRIED TO GRAND SUMMARY				

SECTION NO. 5

DCC OFFICE BLOCK (THIRD FLOOR)

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	BILL NO. 4				
	THIRD FLOOR				
	ELEMENT NO.1				
	REINFORCED CONCRETE FRAME				
	(ALL PROVISIONAL)				
	Vibrated reinforced concrete (1:1.5:3/25 - 20mm aggregate) as described in: described in:-				
A	Beams/ Ring beams	22	CM		
B	Columns	19	CM		
C	Concrete gutter	9	CM		
D	150mm thick Suspended slabs/ landings	157	SM		
	Steel reinforcement				
	Supply and fix steel bars reinforcement including bending, hooks, tying wire, cutting, spacer blocks and supporting all in position High tensile square twisted bars to B.S. 4461 as described in ;				
E	8 mm Diameter	1333	KG.		
F	10 mm Diameter	2796	KG.		
G	12 mm Diameter	719	KG.		
H	16 mm Diameter	1611	KG.		
J	20mm Diameter	1106	KG.		
	Sawn formwork as described to ;				
L	Sides and soffits of beams	304	SM		
M	Vertical sides of columns	227	SM		
N	Concrete gutter measured generally	44	SM		
P	Soffittes of slabs and landings	157	SM		
Q	Edges of slabs 75-150mm girth high	74	LM		
	TOTAL FOR ELEMENT NO. 1 R.C. SUPERSTRUCTURE *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	ELEMENT NO. 2				
	WALLING (ALL PROVISIONAL)				
	Fine chiselled natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoop iron in alternate courses; NOTE; with horizontal keys externally; internally left plain ready for plaster (m.s)				
A	200mm Thick External wall reinforced in every third course ; including gable ends	245	SM		
B	Ditto parapet walling	148	SM		
	Fine machine cut natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and				
C	200mm Thick Internal wall reinforced in every third course	338	SM		
D	150mm Thick Internal wall reinforced in every third course	51	SM		
	Aluminium Partition				
E	Supply, manufacture and fix complete proprietary aluminium-framed partition system comprising 100 x 50 mm powder-coated/anodised extruded aluminium head, base, vertical and intermediate framing members, securely anchored to floors, ceilings and adjoining walls; infill with 25mm thick MDF panels of specified thickness, factory laminated/veneered or prepared, primed and painted with approved finish as specified; incorporating clear toughened safety glazing 10mm thick in aluminium glazing frames complete with proprietary glazing beads, EPDM/neoprene gaskets, setting blocks and approved sealants; including all necessary mullions, transoms, corner posts, junction profiles, cover trims, fixing accessories, brackets, screws, anchors, sealants and all associated components, including matching aluminium-framed MDF/glazed doors where indicated, complete with hinges, locks, handles, closers, stops and all ironmongery	83	SM		
	Precast Concrete products				
F	250 X 25mm thick precast coping laid over parapet walling, twice weathered and throtted	148	LM		
	TOTAL FOR ELEMENT NO.2 WALLING *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	ELEMENT NO 3				
	ROOFING AND RAIN WATER GOODS				
	(ALL PROVISIONAL)				
	The following in triangular steel girder trusses; fabricated from Standard RHS sections; including all drillings, weldings, bolts, threads, fixing plates, and joint accessories; smooth ground joints; priming and painting in 3 coats gloss oil paint; and hoisting approximately 4500mm from ground level; Contractor to prepare shop drawings and fabrication details and have them approved by the Project Manager before fabrication:				
A	75X 50 x 3 mm (5.75Kg / Lm) RHS trussed rafter, Tie beams and the like	1943	Kg		
B	50x 50 x 2mm (3.01Kg / Lm) SHS Struts / ties	661	Kg		
C	16 mm diameter (1.58 Kg / Lm) Anti- sag rods	123	Kg		
D	150 x 50.x 2mm (4.44kg/m) "Z" Purlins	2985	Kg		
	Brought Forward from Page No.				
	Covering				
	Supply and fix approved IT5 G28 boxed profile roofing sheets				
E	Laid in approved pattern; including raking cutting,including gable ends	559	SM		
F	Matching ridge cap/valleys	57	LM		
	Rain water Disposal				
G	100 diameter Prepainted Aluzinic Downpipe fixed to natural stone walling with and including mild steel brackets 600mm centres	77	LM		
H	Fulbora outlets	6	NO		
J	Rain water shoe	6	NO		
	TOTAL FOR ELEMENT NO.3 ROOFING *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	ELEMENT NO. 4				
	EXTERNAL WALL FINISHES				
	12mm thick cement,sand render,with wood float finish , as described to:-				
A	Masonry walls and Concrete surfaces of columns and beams	435	SM		
	Painting and decorations				
	Prepare and apply one undercoat and two finishing coats "Permacoat" or equivalent exterior quality emulsion paint on:-				
B	Fair faced surfaces of concrete beams and columns	435	SM		
	TOTAL FOR ELEMENT NO. 4 EXTERNAL WALL FINISHES *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	ELEMENT NO. 5				
	INTERNAL WALL FINISHES **(ALL PROVISIONAL)**				
	Internal wall finishes				
A	Hack out joints and apply 12mm thick gauged lime plaster (1:2:9) in two coats finished with steel trowel on natural stone walling and beams	1199	SM		
B	10mm Thick cement and sand (1:4) screed finished to receive glazed tiling	95	SM		
	250 x 400 x 6 mm Thick coloured glazed Ceramic wall tiles jointed and pointed with matching white cement				
C	Tiling on walls	95	SM		
	Painting and decorations **Prepare and apply one undercoat and two finishing coats plastic Vinyl matt or equivalent emulsion paint on:-**				
D	Plastered surfaces	1199	SM		
	TOTAL FOR ELEMENT NO. 5 **INTERNAL WALL FINISHES** ***CARRIED TO SUMMARY***				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	ELEMENT NO. 6				
	FLOOR FINISHES				
	Insitu cement and sand (1:3) screeded beds ,with steel trowelled finish, on concrete				
A	25 mm screed to receive ceramic tile to floor slabs (ms)	531	SM		
B	Ditto to concrete gutter surfaces to receive waterproofing	44	SM		
C	Ditto to roof top slabs	157	SM		
	Supply and fix only 300x300 Ceramic floor tiles as "SAJ ceramics" to floor on prepared screed (m.s) with proprietary adhesive; jointed and pointed in matching coloured proprietary grouting: including pvc spacers and expansion joint as necessary: all to Architect's approval.				
D	To floors	531	SM		
E	Ditto 100 mm high skirting to floors	367	SM		
	Waterproofing				
	5 mm thick APP membrane; laid in accordance to the Manufacturer's printed instructions and to the approval of the Architect to :				
F	To concrete gutter surfaces	44	SM		
G	Ditto; Roof top slabs	157	SM		
	TOTAL FOR ELEMENT NO. 6 FLOOR FINISHES *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	ELEMENT NO. 7				
	CEILING FINISHES				
	(ALL PROVISIONAL)				
	12 mm thick plaster cement sand lime (1:1:6) plaster steel trowelled finish,on concrete				
A	Suspended slab soffits	157	SM		
B	Ditto; soffittes of concrete gutter	44	SM		
	Painting & decorations				
	Knot prime and stop and prepare and apply three coats first quality emulsiion paint				
C	Soffittes of slabs	157	SM		
D	Ditto; soffittes of concrete gutter	44	SM		
	Gypsum Ceiling boards				
E	Gypsum board ceiling screwed to and including approved gauge 50 x 50 mm galvanized iron channels and studs as appropriate at 600 mm centers both ways; Allow for approved gypsum jointing tape between boards and all the necessary sanding and surface preparation in readiness for painting (m.s)	527	SM		
	Approved Cornice				
F	100 x 50 mm moulded cornice with 4 labours	408	LM		
	Knot prime and stop and prepare and apply three coats first quality Vinyl matt or equivalent emulsion paint to :				
G	Gypsum ceiling surfaces	527	SM		
H	Cornice surfaces not exceeding 100mm girth	408	LM		
	TOTAL FOR ELEMENT NO. 7 CEILING FINISHES *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	ELEMENT NO. 8				
	WINDOWS				
	(ALL PROVISIONAL)				
A	175 x 75 mm thick precast concrete window; weathered and throated	106	LM		
	Curtain rail				
B	25 mm diameter Stainless steel curtain rail complete with fixing brackets, rings, rollers and all other necessary accessories.	90	LM		
	Steel Casement Windows				
	Purpose made steel window casements in 25 mm thick Round bars and flat bars; complete with , permanent vent with mosquito gauze and fixed to opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement and sand mortar (1:4) (Burglar proofing grilles included)				
C	Window Size 1000 x 1300mm high	6	NO		
D	Window Size 1150 x 1300mm high	2	NO		
E	Window Size 3150 x 1300mm high	2	NO		
F	Window Size 2100 x 1600mm high	2	NO		
G	Window Size 3300 x 1600mm high	18	NO		
H	Window Size 4400 x 1600mm high	4	NO		
	Clear sheet Glass				
L	4 mm thick clear and one way tinted in selected areas	124	SM		
	Obscure sheet Glass				
M	5 mm thick	23	SM		
	Prepare and apply two undercoats and one finishing coat gloss oil paint to				
N	Steel window surfaces / grilles; measured generally	147	SM		
	TOTAL FOR ELEMENT NO. 8 WINDOWS *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	ELEMENT NO. 9				
	DOORS				
	(ALL PROVISIONAL)				
	TIMBER DOORS				
	Solid core flush doors:				
A	50 mm thick single -leaf size 900 X 2400 mm overall with high quality 4 mm thick plywood facing ; complete with a 5 mm thick glazed fanlight top size 900 x 300 mm high	14	NO		
B	Ditto size 1800 x 2400- double leaf	6	NO		
	Semi solid core flush doors:				
C	50 mm thick single -leaf size 800 X 2100 mm overall with high quality 4 mm thick plywood facing	9	NO		
D	Ditto 1000 x 2100mm - Disabled door	1	NO		
	Wrot Cypress backs primed before fixing in zinc chromate wood primer:				
E	150 x 50 mm Frame once rebated	170	LM		
F	150 x 50 mm transome twice rebated	23	LM		
G	45 x 25 mm architrave with one labour	170	LM		
H	25mm quadrant	170	LM		
	Ironmongery as per "Union" or approved Catalogue				
J	Two lever mortice lock complete with quality furniture	30	NO		
K	Sliding washroom locks with indicator	7	NO		
L	100mm stainless steel butt hinges	50	Prs		
	Prepare and Apply Three Coats of Gloss Oil Paint to:-				
M	Timber door general surfaces	133	SM		
N	Ditto 200 to 300mm girth.	193	LM		
P	Ditto 100 to 200mm girth.	170	LM		
Q	Ditto; not exceeding 100mm girth	170	LM		
	TOTAL FOR ELEMENT NO. 9 **DOORS** ***CARRIED TO SUMMARY***				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	ELEMENT NO 10 *JOINERRY FITTINGS* *NOTE: All blockboard, MDF boards etc in joinery works shall be lipped with hardwood lipping all round before fixing.* Low Level kitchen worktops with 600x600x10mm porcelain tiles top on 100mm thick reinforced concrete slab with A142 BRC mesh, formwork to soffits and slab edges, plater to soffits of slab, screed to top slab, 100mm thick plastered steeper walls, including 300x300x6mm thick ceramic wall tiles on both sides of the wall: 100mm plastered mass concrete plinths in concrete class 15MPa: 18mm laminated mdf sides and shelves complete with doors, shelves, drawers, cutting tiles for kitchen sink (m.s) & all necessary ironmongery; to Architect's details and approval				
A	Low level kitchen cupboards below concrete worktop total girth grouped together 900mm high x 600 mm deep	5	LM		
	High level Kitchen cupboards High level kitchen cupboards in 18mm laminated mdf sides & shelves complete with doors, top bottom and divions with and including all necessary ironmongery; to Architects details				
B	600mm high x 350mm deep	4	LM		
	TOTAL FOR ELEMENT NO.10 JOINERRY FITTINGS *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	THIRD FLOOR BUILDERS WORK SUMMARY	PAGE	NO		
1	R.C SUPERSTRUCTURES	TF	1		
2	WALLING	TF	2		
3	ROOFING AND RAIN WATER GOODS	TF	3		
3	EXTERNAL WALL FINISHES	TF	4		
4	INTERNAL WALL FINISHES	TF	5		
5	FLOOR FINISHES	TF	6		
6	CEILING FINISHES	TF	7		
7	WINDOWS	TF	8		
8	DOORS	TF	9		
9	JOINERY FITTINGS	TF	10		
	TOTAL FOR THIRD FLOOR BUILDERS WORK CARRIED TO GRAND SUMMARY				

SECTION NO. 6

(SEPTIC TANK)

ITEM	DESCRIPTION	QTY	UNIT		
	BILL NO 5 **40,000 LITRES CAPACITY SEPTIC TANK FOR 100 PERSONS AND ASSOCIATED SOAKAGE AREA** **(SIZE 6.0 x 3.4 x 2 Metres Deep)** **Excavation** **Excavate in pit for septic tank starting from ground level**				
A	Depth not exceeding (n.e) 1.5m.	42	CM		
B	Ditto; depth not limited to 3.0m	25	CM		
C	Extra over for excavation in rock class II	2	CM		
	Concrete class 15 (mix 1:3:6)				
D	Mix and place 50mm concrete blinding.	21	SM		
	Vibrated reinforced class 20/20 (mix 1:2:4)				
E	Mix and place 200mm thick concrete in base slab.	4	CM		
F	Ditto; but in 200mm thick wall.	8	CM		
G	Ditto; but in 150mm thick scum baffle wall.	1	CM		
H	Ditto; but in 200mm thick suspended cover slab.	21	SM		
	Mild steel reinforcement to B.S 4449				
J	8mm diameter bars.	127	KG		
K	10mm diameter	396	KG		
L	12mm diameter bars.	390	KG		
	BRC Mesh reinforcement to B.S. 1483				
N	BRC mesh No. A142	21	SM		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT		
	Formwork				
	Sawn formwork to:-				
A	Sides of concrete walls	88	SM		
B	Soffit of suspended slab.	21	SM		
C	Sides of suspended slab, 150mm- 225mm wide.	19	LM		
D	Boxing in formwork to form opening in cover slab for 600 x 450mm manhole cover and frame, 150-225mm wide.	5	LM		
	Water proof cement Rendering				
E	12mm thick sulphate resisting cement sand (mix 1:3) to base slab.	21	SM		
F	Ditto; to sides of vertical walls- both faces	88	SM		
	SOAKPITS				
H	Excavate a soak pit 2,000mm diameter and 3,000mm deep. Construct circular honeycomb masonry walls in cement-sand mortar to allow effluent infiltration into the surrounding soil, founded on a suitable granular base. Provide a reinforced concrete cover slab with suitable access manhole and cover, and connect to the septic tank outlet using appropriately sized uPVC pipes laid to the required gradient.	1	ITEM		
	Manhole covers				
J	Provide and fix 600 x 450mm medium duty C.I manhole cover and frame to **B.S 497.**	4	NO		
	Carried to collection	**below**			
	COLLECTION				
	Brought Forward from Page No. S/T		**1**		
	Brought Forward from Page No. S/T		**2**		
	TOTAL FOR SEPTIC TANK CARRIED TO SUMMARY				

SECTION NO. 7

BOUNDARY WALL

ITEM	DESCRIPTION	QTY	UNIT		
	332 METRES PERIMETER WALL				
	ELEMENT NO.1				
	SUBSTRUCTURES				
	ALL PROVISONAL				
	Excavations and earthworks				
A	Excavate for column pits commencing from ground level and not exceeding 1.5m deep.	166	CM		
B	Excavate for strip foundation trenches commencing from ground level and not exceeding 1.5m deep.	199	CM		
C	Allow for keeping the excavations free from mud and all water including spring and running water by pumping, bailing or other approved means.		ITEM		
D	Allow for planking and strutting to sides of excavations		ITEM		
E	Load surplus excavated material and cart away from site approximately 20m away from site	182	CM		
	Filling				
F	Return fill and ram selected excavated material around foundations	182	CM		
	In-situ concrete work				
	Mass concrete (1:3:6/ 38-38mm aggregate)				
G	50mm thick blinding under strip foundations.	133	SM		
H	50mm thick blinding under column bases.	110	SM		
	Vibrated Reinforced Concrete (1:2 :4 /20-20mm aggregate) as described in:				
I	Strip foundations	27	CM		
J	Column bases	22	CM		
K	Columns	10	CM		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT		
	Bar reinforcement				
	Supply and fix bars reinforcement including bending,hooks,tying wires and cutting spacers and supporting all in position as described:				
	High tensile square twisted bars to B.S 4461				
A	8 mm Diameter	390	KG.		
B	10 mm Diameter	822	KG.		
C	12 mm Diameter	1760	KG.		
	Sawn formwork as described to:				
D	Vertical sides of column bases	88	SM		
E	Vertical sides of columns	132	SM		
	Foundation walling				
F	200mm thick rough chisel dressed natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg×25mm wide hoop iron in every alternate course	332	SM		
	Carried to Collections	*below*			
	COLLECTIONS				
	Brought Forward From Page No. B .W	**1**			
	Brought Forward From Page No. B.W	**2**			
	TOTAL FOR ELEMENT NO. 1 SUBSTRUCTURES ***CARRIED TO SUMMARY***				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO 2				
	SUPERSTRUCTURES				
	ALL PROVISONAL				
	Vibrated Reinforced Concrete (1:1.5:3/25-20mm aggregate) as described in:				
A	Columns	20	CM		
	Bar reinforcement				
	Supply and fix bars reinforcement including bending,hooks,tying wires and cutting spacers and supporting all in position as described:				
	Brought Forward from Page No.				
	High tensile square twisted bars to B.S 4461				
B	8mm Diameter	696	KG		
C	12mm Diameter	1176	KG		
	Formwork.				
	Sawn formwork as described to:				
D	Vertical sides of columns	341	SM		
	200mm thick rough chisel dressed natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg×25mm wide hoop iron in every alternate course				
E	Dwarf 200m thick reinforced in every other course.	163	SM		
	Precast Concrete Units				
F	450×450×200mm once weathered and twice throated precast concrete coping laid and jointed in cement and sand (1:3) mortar above columns.	110	No.		
H	250×25mm once weathered and twice throated precast concrete coping laid and jointed in cement and sand (1:3) mortar above walls.	326	LM		
	Weep Holes				
J	75mm diameter weep holes with and including cutting holes in masonry,PVC pipe and dressing all around	150	NO		
	TOTAL FOR ELEMENT NO. 2 SUPERSTRUCTURES *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO 3				
	FINISHES				
	Wall finishesfinishes				
A	25 mm Thick cement and sand (1:3) wood float render to concrete surfaces	204	SM		
B	Ditto; to walls	326	SM		
	Painting and decorations **Prepare and apply one undercoat and two finish coats "Permacoat" or equivalent exterior quality emulsion paint on:-**				
C	Wall surfaces	326	SM		
D	Ditto columns	204	SM		
	Mild steel Grill				
	diameter round steel bars (R10), arranged diagonally in	652			
	Gate				
	TOTAL FOR ELEMENT NO. 3 FINISHES *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	SUMMARY	PAGE	NO		
1	SUBSTRUCTURES	P.W	2		
2	SUPERSTRUCTURES	P.W	3		
3	FINISHES	P.W	4		
	Total for Perimeter wall carried to Grand Summary.				

SECTION NO. 8

GATE HOUSE

ITEM	DESCRIPTION	QTY	UNIT		
	BILL NO 2				
	SENTRY BOX				
	ELEMENT NO.1				
	SUBSTRUCTURES				
	Excavations and earthworks				
A	Clear the site of all bush scrub undergrowth and small trees grub up roots and cart away or burn all arising (**approx. area 29sq. sm**)	29	SM		
B	Excavate for strip foundation trenches occurring not exceeding 1.5metres deep commencing from reduced level	24	CM		
C	Ditto; column bases	7	CM		
D	Allow for keeping excavations free from mud and all water including spring and running water by pumping pailing or other approved means.		ITEM		
E	Allow for planking and strutting to sides of excavations		ITEM		
	Disposal				
F	Load surplus excavated material and store in spoil heaps; later spread on site as directed	16	CM		
	Filling				
G	Return fill and ram selected excavated material around foundations.	15	CM		
	Hardcore as described				
H	300mm Thick layer of imported hardcore filling including levelling and consolidating in 150mm layers	29	SM		
	Blinding				
J	50mm Thick Quarry dust blinding to the surface of hardcore;rolled smooth to receive polythene sheeting(m.s)	29	SM		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT		
	Insecticide treatment				
A	**'TERMIDOL" or other equal and** approved chemical insecticide treatment prepared and applied according to the manufacturer's printed instructions.	29	SM		
	Damp proof membrane				
B	1000 Gauge polythene or other equal and approved plastic sheet damp proof membrane laid over blinding(measured nett - allow for laps)	29	SM		
	In-situ concrete work Mass concrete (1:3:6/38-38mm aggregate)				
C	50mm Thick blinding under strip foundations	20	SM		
D	Ditto' column bases	6	SM		
	Vibrated reinforced concrete				
E	Strip foundations	4	CM		
F	150mm thick ground floor bed	29	SM		
G	Column bases	1	CM		
H	Foundation columns	1	CM		
	Steel reinforcement				
J	Assorted reinforcemen bars	300	KG.		
	Mesh reinforcement				
K	Fabric mesh reinforcement to B.S. 4483 ref: A142 including laps tyingwire and spacer blocks complete(measured nett-allow for laps)	29	SM		
	Sawn formwork as described to:				
L	Edge of floor slab 75-150mm high	21	LM		
M	Vertical sides of columns	7	SM		
N	sides of column bases	5	SM		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT		
	COLLECTION Brought Forward from Page No. Brought Forward from Page No.				
	TOTAL FOR ELEMENT NO. 1 **SUBSTRUCTURES** *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO.2				
	R.C SUPERSTRUCTURES				
	Vibrated reinforced concrete Class 25				
A.	Beams	2	CM		
B	Columns	2	CM		
C	150mm thick Suspended slab	29	SM		
	High tensile square twisted bars to B.S. 4461 as described in ;				
D	Assorted reinforceemnt bars	743	KG.		
	Sawn formwork as described to ;				
E	Sides and soffits of beam	21	SM		
F	Sides of columns	19	SM		
G	Soffittes of suspended slab	29	SM		
H	Edges of suspended slab	22	LM		
	Precast Concrete				
J	400 x 50 mm throated slanted precast concrete coping laid and jointed in cement and sand (1:3) mortar above walls; reinforced as necessary	22	LM		
	Walling				
	Fine chiselled natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoop iron in alternate courses; NOTE; with horizontal keys externally; internally left plain ready for plaster (m.s)				
K	200mm thick external walls ; including parapets	47	SM		
L	Ditto; internal walls	26	SM		
	DPM Membrane				
M	200mm wide dpm membrane under walls	28	LM		
	TOTAL FOR ELEMENT NO 2 R.C. SUPERSTRUCTURE ***CARRIED TO SUMMARY***				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 3				
	FINISHES				
	wall Finishes				
A	12mm thick cement;sand render;with wood float fiish to external wall surfaces	68	SM		
B	Prepare and apply one undercoat and two finishing coats of approved quality	68	SM		
	Wall tiles				
C	400 x 250mm ceramic wall tiles with matching grout and plaster backing	40	SM		
	Floor Finishes				
D	25 mm screed to receive Ceramic tiles to Floors (ms)	29	SM		
E	300 x 300 x 6mm Thick floor approved ceramic floor tiles as "Saj" or equal and approved manufacturer jointed and pointed with matching white cement:	29	SM		
	Ceiling Finishes				
F	Hack out joints and apply 12mm thick gauged lime plaster (1:2:9) in two coats finished with steel trowel on ceiling surfaces	29	SM		
G	Prepare and apply one undercoat and two finishing coats plastic Vinyl matt or equivalent emulsion paint on plastered ceiling surfaces	29	SM		
	Roof slab Finishes				
H	25 mm thick to receive APP membrane	29	SM		
	5 mm thick APP membrane; laid in accordance to the Manufacturer's printed instructions and to the approval of the Architect to :				
J	Canopy slab roof	29	SM		
	TOTAL FOR ELEMENT NO. 3 FINISHES *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO 4				
	WINDOWS				
	(ALL PROVISIONAL)				
A	175 x 75mm thick precast concrete window cill ; weathered and throated	7	LM		
	Steel Windows				
	~~Purpose made steel window casements in 25 mm~~ thick z - sections, T-sections and flat bars; complete with hinges, stays, fasteners, permanent vent with mosquito gauze and sheet metal hood etc assembled and fixed to opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement and sand mortar (1:4) (Burglar proofing grilles included)				
B	Window Size 900 x 900 mm high	4	NO		
C	Ditto size 1500 x 1500mm high	2	NO		
	GLASS & GLAZING TO METAL WITH PUTTY				
	Clear sheet Glass				
D	4 mm thick	5	SM		
	Obscure sheet Glass				
E	6mm thick	3	SM		
	Prepare and apply two undercoats and one finishing coat gloss oil paint to				
F	Steel window surfaces; Measured generally	8	SM		
	TOTAL FOR ELEMENT NO. 4 WINDOWS *CARRIED TO SUMMARY*				

ITEM	DESCRIPTION	QTY	UNIT		
	ELEMENT NO. 5				
	DOORS				
	Steel Casement Doors				
	Standard door complete with hinges, permanent vent with mosquito gauze and sheet metal hood etc assembled and fixed to opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement and sand mortar (1:4) (Grille, 3 lever "Union" or approved equivalent steel lock and Glazing included)				
A	Door Overall size 900x 2400 mm high;	2	NO		
	Semi solid core flush doors:				
B	50 mm thick single -leaf size 800 X 2100 mm overall with high quality 4 mm thick plywood facing	4	NO		
	Wrot Cypress backs primed before fixing in zinc chromate wood primer:				
C	150 x 50 mm Frame once rebated	23	LM		
D	45 x 25 mm architrave with one labour	23	LM		
E	25mm quadrant	23	LM		
	Ironmongery as per "Union" or approved Catalogue				
G	Sliding washroom locks with indicator	4	NO		
H	100mm stainless steel butt hinges	6	Prs		
	Prepare and Apply Three Coats of Gloss Oil Paint to:-				
J	Timber door general surfaces	15	SM		
K	Ditto 200 to 300mm girth.	23	LM		
L	Ditto 100 to 200mm girth.	23	LM		
M	Ditto; not exceeding 100mm girth	23	LM		
	TOTAL FOR ELEMENT NO. 5 **DOORS** ***CARRIED TO SUMMARY***				

ITEM	DESCRIPTION	QTY	UNIT		
	GATE HOUSE SUMMARY	PAGE	NO		
1	SUBSTRUCTURES	BW	3		
2	R.C SUPERSTRUCTURES	BW	4		
3	FINISHES	BW	5		
4	WINDOWS	BW	6		
5	DOORS	BW	7		
	TOTAL FOR GATE HOUSE CARRIED TO GRAND SUMMARY				

SECTION NO. 9

POWER HOUSE

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS CTS
	POWER HOUSE				
	ELEMENT NO. 1				
	SUBSTRUCTURES				
	(All provisional)				
	Site Preparation				
A	Clear site of all bushes, shrubs and grub up roots and remove from site	58	SM	50	2,900.00
	Excavations & Earthworks				
B	Excavate oversite soil average 150 mm deep and cart away from site	42	SM	200	8,400.00
C	Bulk excavation in soils depth not exceeding 1.5 M	63	CM	350	22,050.00
D	Ditto to column bases	6	CM	350	2,100.00
E	Ditto for strip footing	5	CM	350	1,750.00
	Carried to Collection				37,200.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS CTS
	Excavations & Earthworks *(Cont'd)*				
	Disposal of excavated material				
A	Return,fill and ram the sellected excavated materials around foundations internally and externally	46	CM	200	9,200.00
B	Remove surplus spoil from site to an authorized dumping site	35	CM	300	10,500.00
	Planking and strutting				
C	Planking and strutting to sides of all excavations: keep excavations free from all falling materials		ITEM		20,000.00
	Disposal of Water				
D	Keep excavations free from all water including spring, underground and running water.		ITEM		20,000.00
	Hardcore Filling				
E	300mm thick hardcore fillings in making up levels: levelled and compacted in 150 mm layers	63	CM	1,500	94,500.00
	Murram				
F	50mm Thick murram blinding to surfaces of hardcore	42	SM	100	4,200.00
	Insecticide treatment				
	'Premise 200CC" insecticide treatment on top of hardcore filling and over foundation walls applied as per manufacturer's instruction with a 10 year guarantee				
G	To murram surface	42	SM	250	10,500.00
	Carried to Collection				168,900.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS CTS
	Concrete Work				
	Insitu concrete mix (1:3:6): in				
A	50 mm thick blinding under walls foundations	13	SM	600	7,800.00
B	Ditto to column bases	10	SM	600	6,000.00
	Insitu reinforced concrete: class 25/20 vibrated in:-				
C	Strip footing	3	CM	14,000	42,000.00
D	Column bases	5	CM	14,000	70,000.00
E	Column.	2	CM	14,000	28,000.00
F	Floor bed 150 mm thick	42	SM	2,100	88,200.00
G	Ramp;slope not exceeding 15	18	SM	2,100	37,800.00
H	Cable trench 150mm thick	12	SM	2,100	25,200.00
J	Raised plinths;generator room and oil tank storage	10	SM	2,100	21,000.00
	Carried to Collection				326,000.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS CTS
	Reinforcement (Provisional)				
	Supply and fix steel bar reinforcement including bending, hooking, tying wire, cutting, spacers and supporting all in position				
	High tension ribbedl bars reinforcement to BS 4449 in structural concrete work (Provisional)				
A	Assorted sizes	1820	KG	190	345,800.00
B	BRC Fabric mesh reinforcement Ref. A142 with 200 mm laps (measured net ; no allowances made for laps) to basement floor bed	42	SM	550	23,100.00
	Sawn timber formwork: to				
C	Vertical: sides of columns	16	SM	600	9,600.00
D	Vertical: sides of columns bases	5	SM	600	3,000.00
E	Edges: slab not exceeding 150 mm girth	28	LM	200	5,600.00
F	Sides of foundation	15	SM	600	9,000.00
G	Sides of 400 x 400mm trench	9	SM	600	5,400.00
H	Sides of duct vent	4	SM	600	2,400.00
	Carried to Collection				403,900.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS CTS
	Walling				
	Natural stone walling in cement and sand (1:3) mortar and including reinforcing with 20 x 3mm thick hoop iron in every alternate course.				
A	200mm Thick walling	72	SM	1,800	129,600.00
	Insitu Finishings				
B	14mm thick 2 No. coatwork cement sand (1:3) render; wood floated to concrete or blockwork base to walls; external	15	SM	400	6,000.00
	Painting and Decorations				
	Prepare and apply three coats bituminous paint to:				
C	Wood floated rendered plinths over 300mm girth	15	SM	400	6,000.00
	Carried to Collection				141,600.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS CTS
	COLLECTION				
	SUBSTRUCTURES				
	Brought Forward From Page PH/1				37,200.00
	Brought Forward From Page PH/2				168,900.00
	Brought Forward From Page PH/3				326,000.00
	Brought Forward From Page PH /4				403,900.00
	Brought Forward From Page PH /5				141,600.00
	TOTAL SUBSTRUCTURE CARRIED TO SUMMARY				1,077,600.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS CTS
	ELEMENT NO.2				
	REINFORCED CONCRETE SUPERSTRUCTURES				
	Insitu reinforced concrete: grade 25/20 : vibrated in:-				
A	Beams	6	CM	14,000	84,000.00
B	Column	3	CM	14,000	42,000.00
	Reinforcement (Provisional)				
	Supply and fix steel bar reinforcement including bending, hooking, tying wire, cutting, spacers and supporting all in position				
	High tension ribbed bars reinforcement to BS 4449 in structural concrete work (Provisional)				
C	Assorted sizes	1238	KG	190	235,220.00
	Sawn timber formwork: to				
D	Sides: Beams .	38	SM	600	22,800.00
E	Sides of columns	29	SM	600	17,400.00
	TOTAL REINFORCED CONCRETE SUPERSTRUCTURES CARRIED TO SUMMARY				401,420.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS CTS
	ELEMENT NO. 3				
	WALLING				
	EXTERNAL WALLING				
	Approved local stone of the approved colour; squared ; hand dressed one side to Zero joint; bedding, jointing in cement and sand mortar (1:4);including reinforcing with hoop iron in every alternative course				
A	Walls 200 mm thick	52	SM	1,800	93,600.00
	Pre-Cast Concrete Louvred Blocks Walling				
B	225mm thick precast concrete louvre block walling bedded and jointed in cement ans sand (1;4) mortar and reinforced with and including 20mm square bars vertical joints (New rate)	23	SM	2,500	57,500.00
	Damp Proof Course				
	Damp proof course : bituminous felt : bedded in cement and sand mortar (1:3) : 300 mm laps (measured net-no allowance for laps)				
C	Horizontal: 200 mm wide	21	LM	150	3,150.00
D	200 mm eaves filling, 200mm high including dressing between rafters	28	LM	450	12,600.00
	INTERNAL WALLING				
	Approved local stone; squared ; machine dressed one side; bedding, jointing in cement and sand mortar (1:4);including reinforcing with hoop iron in every alternative course				
E	Walls 200 mm thick	11	SM	1800	19,800.00
	Damp Proof Course				
	Damp proof course : bituminous felt : bedded in cement and sand mortar (1:3) : 300 mm laps (measured net-no allowance for laps)				
F	Horizontal: 200 mm wide	5	LM	200	1,000.00
	TOTAL EXTERNAL WALLING CARRIED TO SUMMARY				187,650.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS CTS
	ELEMENT NO. 4				
	ROOFING CONSTRUCTION, COVERING AND RAIN WATER DISPOSAL				
	Roof coverings				
A	28 Gauge pre-painted IT4 resincot corrugated iron sheets fixed to steel purlins (m/s)	59	SM	1650	97,350.00
B	Standard ridge capping	11	LM	500	5,500.00
	Grade II pressure impregnated sawn cypress in;				
C	150 x 50 mm Rafters	109	LM	350	38,150.00
D	150 x 50 mm King post	14	LM	350	4,900.00
E	150 x 50 mm Tie beam	76	LM	350	26,600.00
F	75 X50mm Purlins	98	LM	200	19,600.00
G	150 x 50 mm Struts or ties	86	LM	350	30,100.00
H	100 x 50 mm Wall plate fixed with and including 200mm long x 12 mm diameter anchor bolts cast into beam at 1800mm centres, provide for all necessary drilling, threading, nuts and washers	28	LM	300	8,400.00
J	225 x 25 mm thick wrot cypress fascia /barge boards fixed to end of rafters	20	LM	270	5,400.00
	Carried to Collection				236,000.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS CTS
	RAINWATER DISPOSAL				
	24g Galvanised mild steel sheeting; all welds ground smooth				
A	200 x 200mm box gutter including soldered joints in the running length fixed to fascia board with and including brackets at approved centers	20	LM	800	16,000.00
B	Extra; 100mm dia.outlet 100mm long	4	No	600	2,400.00
C	100mm dia. rainwater downpipe fixed with and including mild steel straps at 900mm centres, plugged and screwed to wall	13	LM	600	7,800.00
D	Extra; swanneck bend with 1135mm projection	4	No	1500	6,000.00
E	Extra; horse shoe bend	4	No	750	3,000.00
	Painting and Decorations				
	On Woodwork				
	Prepare and apply one zinc plumbate primer and three coats of 'CROWN SOLO' or other equal and approved super gloss oil paint to:-				
F	Fascias; 200 to 300mm girth; external	20	LM	80	1,600.00
	On Metal work				
G	Down pipes	13	LM	12	156.00
	Carried to Collection				36,956.00
	COLLECTION				
	Brought Forward From Page PH /9				236,000.00
	Brought Forward From Above				36,956.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS CTS
	TOTAL FOR ROOF CONSTRUCTION SUMMARY.				272,956.00
	ELEMENT NO. 5				
	DOORS				
	METAL WORK - PURPOSE - MADE UNITS				
	Doors and gates				
	Mild steel casement louvered doors; 100 x 50 x 3mm thick rebated frame plugged to concrete or blockwork with 100mm long fishtailed 25 x 25 x 2mm thick angle section, 50 x 50 x 3mm thick angle section frames at 300mm centres both sides, angles cut, mitred and welded; panels infilled with steel plates, one coat manufacturer's primer, complete with all necessary ironmongery; all welding ground to smooth				
A	Ditto, but size 1800x3150mm high door	2	No.	64,260	128,520.00
	Prepare and apply one coat etching primer, one undercoat and two coats gloss oil paint to Crown Solo or other equal and approved to: -				
B	General surfaces of metal doors; over 300mm girth	12	SM	400	4,800.00
	TOTAL FOR DOORS CARRIED TO SUMMARY				133,320.00
	ELEMENT NO. 6				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS CTS
	FINISHES				
	WALL FINISHES				
	Insitu finishes				
	Render; 20mm thick, 1 No. coatwork of cement and sand (1:3); wood floated to concrete or blockwork base generally to: -				
A	Beams and columns; external	40	SM	400	16,000.00
	Plaster; 20mm thick, 2 No. coatwork, 15mm first coat of cement sand (1:3); 3mm second coat of cement and lime putty (1:9); steel trowelled to concrete or blockwork base generally to: -				
B	Walls, beams and columns; internal	115	SM	400	46,000.00
	Horizontal key joints				
C	Extra over horizontal key pointing in 10mm thick rod in cement and sand (1:3)mortar to external wall	54	SM	400	21,600.00
	Prepare and apply one undercoat and two finishing coats of 1st quality silk vinyl paint to:-				
D	General plastered surfaces of walls and concrete surfaces	78	SM	400	31,200.00
	FLOOR FINISHES				
	Screed; cement and sand (1:3); Hardened				
E	40mm thick screed to concrete or blockwork base generally to floors level; internal	42	SM	400	16,800.00
F	Diito to Ramp; external	9	SM	400	3,600.00
	Grating				
G	Supply and fix 400 mm wide grating comprising of 50x50x4mm thick angle line and 16mm deformed bars welded to angle line at an internal space of 25mml all welding to smooth finish	9	LM	2500	22,500.00
	TOTAL FOR FINISHES CARRIED TO SUMMARY				**157,700.00**
	SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS CTS
ELEMENT NO.	TITLE		PAGE NO.		K.SHS.
1	SUBSTRUCTURE (ALL PROVISIONAL)		PH / 6		1,077,600.00
2	FRAME		PH/ 7		401,420.00
3	WALLING		PH/ 8		187,650.00
4	ROOF CONSTRUCTION.		PH / 10		272,956.00
5	DOORS		PH / 11		133,320.00
7	FINISHES		PH / 13		157,700.00
	TOTAL FOR POWER HOUSE CARRIED TO GRAND SUMMARY				2,230,646.00

SECTION NO. 10

ELECTRICAL WORKS

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 1: SUB-CONTRACT PRELIMINARIES

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
1.01	Discrepancies clause - Sub-contractor shall include all work either shown on the Contract Drawings or detailed in the specification. No claim or extra cost shall be considered for works which has been shown on the drawings or in the specification alone	1	Item		
1.02	Samples and materials generally clause - The Sub- contractor shall, when required, provide for approval at no extra cost, samples of all materials to be incorporated in the works. Such samples, when approved, shall be retained by the Engineer and shall form the standard for all such materials incorporated.	1	Item		
1.03	Bills of quantities clause - All the Quantities are based on the Contract Drawings and are provisional and they shall not be held to gauge or to limit the amount or description of the work to be executed by the Sub- contractor but the value thereof shall be deducted from the Sub-contract Sum and the value of the work ordered by the Engineer and executed there under shall be measured and valued by the Engineer in accordance with the contract. All work liable to adjustment under this Sub-contract shall be left uncovered for a reasonable time to allow measurements needed for such adjustment to be taken by the Engineer. Immediately the work is ready for measuring the Sub-contractor shall give notice to the Engineer to carry out measurements before covering up. If the Sub- contractor shall make default in these respects he shall, if the Architect so directs, uncover the work to enable the necessary measurements to be taken and afterwards reinstate at his own expense.	1	Item		
1.04	Setting to work and regulating system clause- No testing or commissioning shall be undertaken except in the presence of and to the satisfaction of the Engineer unless otherwise stated by him (Sub-contractor's own preliminary and proving tests exempted). It will be deemed that the Sub-contractor has included in the Sub-contract Sum for the costs of all fuel, power, water and the like, for testing and commissioning as required.	1	Item		
	SUB TOTAL C/F TO THE NEXT PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 1: SUB-CONTRACT PRELIMINARIES (CONT'D)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
1.05	Identification of plant components clause - Sub-contractor shall supply and fix identification labels to all plant, starters, switches and items of control equipment etc with white traffolyte or equal labels engraved in red lettering denoting its name, function and section controlled.	1	Item		
1.06	Working drawings clause - Sub-contractor shall prepare such Working Drawings as may be necessary. The Working Drawings shall be complete in such detail not only that the Sub-contract Works can be executed on site but also that the Engineer can approve the Sub-contractor's proposals, detailed designs and intentions in the execution of the Sub-contract Works.	1	Item		
1.07	Records Drawings (As Installed) and instructions clause - Record Drawings, will be subject to the approval of the Engineer, include approved Working Drawings adjusted as necessary and certified by the Sub-contractor as a correct record of the installation of the Sub-contract Works.	1	Item		
1.08	Maintenance Manual clause - Upon Practical Completion of the Sub-contract Works, the Sub- contractor shall furnish the Engineer four copies of a Maintenance Manual relating to the installation forming part of all of the Sub-contract Works.	1	Item		
1.09	Insurance Company Fees				
1.10	Hand over clause - The Sub-contract Works shall be considered complete and the Maintenance and Defects Liability Period shall commence only when the Sub-contract Works and supporting services have been tested, and operated to the satisfaction of the Engineer and officially approved and accepted by the Employer, provided always that the handing over of the Sub-contract Works shall be coincident with the handing over of the Main Contract Works.	1	Item		
	SUB TOTAL C/F TO THE NEXT PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 1: SUB-CONTRACT PRELIMINARIES (CONT'D)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
1.11	Supervision by Engineer and site meetings clause - A competent Project Engineer appointed by the Chief Engineer as his representative shall supervise the Contract works. The Project Engineer shall be responsible for issuing all the site instructions in any variations to the works. Any instructions given verbal shall be confirmed in writing. The Sub Contractor shall in his tender allow for the provision of management meetings and site inspections, as instructed by the Engineer, and also profit and attendance on these funds. The funds shall be expended according to Project Manager's instructions to the Contractor.	1	Item		
1.12	Allow for Taxes, Profit and Attendance for the Item above	1	Item		
1.13	Testing and inspection - manufactured plant clause - The Engineer reserves the right to inspect and test or witness of all manufactured plant equipment and materials. The right of the Engineer relating to the inspection, examination and testing of plant during manufacture. Sub-contractor shall give two weeks' notice to the Engineer of his intention to carry out any inspection or tests and the Engineer or his representative shall be entitled to witness such tests and inspection	1	Item		
1.14	Initial Maintenance Clause - The sub-contractor shall make routine maintenance once a month during the liability for the Defects Period and shall carry out all necessary adjustments and repairs, cleaning and oiling of moving parts. A monthly report of the inspection and any works done upon the installation shall be supplied to the Engineer. Shall allow in the sub-contract Sum of the initial maintenance, inspection and break-down service.	1	Item		
1.15	Temporary Works clause - The contractor shall include for the cost of and make necessary arrangements with the Project Manager for such temporary works.	1	Item		
	TOTAL FOR PRELIMINARIES C/F TO ELECTRICAL SUMMARY				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 2: ELECTRICAL SERVICES SCHEDULE No. 1: - GROUND FLOOR ELECTRICAL INSTALLATION WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
A	**LIGHTING POINTS**				
1.01	Lighting points wired in 3x1.5mm2 PVC SC Copper Cables drawn in concealed 20mm Diameter HG PVC conduits complete with all necessary accessories but excluding switches for:-				
	a) One way switching	78	No.		
	b) Two way switching	44	No.		
B	**SWITCHES**				
1.02	10A moulded ivory switch plates as Crabtree or approved equivalent as follows:				
	i) One gang one way switch	16	No.		
	ii) One gang two way switch	8	No.		
	iii) Three gang one way switch	1	No.		
	iv) Two gang two way switch	5	No.		
C	**LIGHTING FITTINGS**				
1.03	Light fittings complete with all accessories and lamps as				
	a) 40W, 600mm x 600mm, LED Lighting fitting as Phillips	60	No.		
	b) 22W LED downlighter as Phillips CoreLine SlimDownlight or equal and approved equivalent	12	No.		
	c) Dustproof 15W Club Circular Surface LED Light fitting with OpalGlass diffuser and Polished Chrome finish as PHILLIPS or Approved Equivalent	15	No.		
	d) 10W 1200mm LED Mirror Light as Phillips or equal and approved equivalent	2	No.		
	e) Self-contained double sided EXIT sign with 8W LED lamp for non-maintained emergency lighting for 3 hour duration as Sapphire or equal and approved equivalent	4	No.		
	f) Occupancy Sensors (Infrared Motion Sensor)	2	No.		
	g) 15W Outdoor LED Bulkhead Light IP65, 6500k Daylight Oval Wall Mount Outdoor Security Light High Brightness.	13	No.		
	h) 24W, 1200mm, LED, 2200lm, 6500K, surface mounted waterproof luminaire as Thorn AquaForce or approved equivalent.	16	No.		
1.04	a) 5A (fused) photocell unit as Thorn for the external lighting	2	No.		
	b) 30A SP/N contactor (as Telemecanique) for the external lighting	2	No.		
	c) 10A DP manual by-pass switch across the contactor above, complete with a mounting box	2	No.		
	SUB TOTAL C/F TO THE NEXT PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 2: ELECTRICAL SERVICES SCHEDULE No. 1: - GROUND FLOOR ELECTRICAL INSTALLATION WORKS (CONT'D)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
D	**SOCKET OUTLETS AND OTHER POWER POINTS**				
1.05	i) Socket outlet power point comprising wiring in 3 x 2.5mm2 PVC/SC CU cables drawn in 25mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates	50	No.		
	ii) 13A switched white moulded socket outlet plates with neon indicator as Schneider Electric or an approved equivalent.	50	No.		
1.06	Floor Distribution Systems: Floor recessed/mounted power outlet station complete with 2 No. 13A twin standard switched socket outlets for raw power, 2 No. dual data cable outlet plates and wiring in 3 x 2.5mm2 SC-PVC-CU cables. To be constructed from high quality 14SWG pre-galvanised steel sheets and stainless steel cover	5	No.		
1.07	Toilet Extract Fan (1-Φ) Power Point, wired in 3x 2.5sq mm PVC SC copper cables drawn in concealed 25mm Dia. HG PVC conduits complete with all accessories but excluding the D.P switch.	4	No.		
1.08	20A DP Control Switch marked 'As Per Application' with neon light and cord outlet for item above as Clipsal or approved equivalent.	4	No.		
1.09	Hand Drier's Power Point, wired in 3x 2.5sq mm PVC SC copper cables drawn in concealed 25mm Dia. HG PVC conduits complete with all accessories but excluding the D.P switch.	4	No.		
1.10	20A DP Control Switch marked 'As Per Application' with neon light and cord outlet for item above as Clipsal or approved equivalent.	4	No.		
1.11	Air Conditioning Power Point, wired in 3x 2.5sq mm PVC SC copper cables drawn in concealed 25mm Dia. HG PVC conduits complete with all accessories but excluding the D.P switch.	2	No.		
1.12	20A DP Control Switch marked 'As Per Application' with neon light and cord outlet for item above as Clipsal or approved equivalent.	2	No.		
1.13	Booster Pump Power Point, wired in 3x 4.0sq mm PVC SC copper cables drawn in concealed 25mm Dia. HG PVC conduits complete with all accessories but excluding the D.P switch.	2	No.		
	SUB TOTAL C/F TO THE NEXT PAGE				

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
1.14	20A DP Control Switch marked 'As Per Application' with neon light and cord outlet for item above as Clipsal or approved equivalent.	2	No.		
1.15	Data/Telephone/WAP outlet points comprising 25mmØ concealed HG PVC conduits complete with draw wire.	17	No.		
1.16	CCTV points approximately 30m for each point from the communication room done in 25mmsq. Size conduits concealed inside ceiling	12	No.		
1.17	Access control system points comprising draw wire in concealed 25mm Ø HG PVC Conduits all emanating from the security office	1	No.		
1.18	TRUNKING & DUCTING				
	i) 150x50mm two compartment powder coated steel trunking manufactured in 14 swg galvanized mild steel sheet and finished in cream powder coating to details shown complete with covers, bends, cable tie slots and all fixing accessories. Allow for colour change to Architect's detail.	300	LM		
	ii) Factory made powder coated corner bends for the above trunking.	8	No.		
	iii) Factory made powder coated end covers for the above	8	No.		
	iv) Powder coated twin punched outlet plate for fixing twin socket outlets.	57	No.		
	v) Ditto for Data Outlet Points	57	No.		
	vi) Carry out bonding throughout the entire length of the	1	No.		
1.19	Lay HG/PVC conduiting of size 2x32mm diameter HG/PVC	50	LM		
1.20	Lay HG/PVC conduiting of size 2x50mm diameter HG/PVC ducts from the electrical service duct to the metal trunkings	50	LM		
1.21	300mmx300mmx150mm, 14SWG, powder coated steel adaptible box to approval.	4	No.		
E	**DISTRIBUTION BOARDS/ CONSUMER UNITS**				
1.22	6 Way TPN+E, flush mounted Distribution Board complete with	3	No.		
	SUB TOTAL C/F TO THE NEXT PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-
ELECTRICAL INSTALLATION WORKS
BILL No. 2: ELECTRICAL SERVICES SCHEDULE No. 1: - GROUND FLOOR ELECTRICAL INSTALLATION WORKS (CONT'D)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
1.23	MCB's for item above as SCHNEIDER ELECTRIC or an approved equivalent				
	i) 10A SP	5	No.		
	ii) 20A SP	4	No.		
	iii) 32A SP	7	No.		
	iv) 45A SP	1	No.		
	v) SP Blanking Plate	6	No.		
1.24	4Core 10mm2 PVC/SWA/PVC armoured copper cables in 38mmØ concealed HG PVC conduits c/w all installation accessories for the 2No. Distribution Boards from the MLV Boards	50	LM		
1.25	4-Way SPN flush mounted Consumer Unit complete with 100A integral isolator as SCHNEIDER ELECTRIC or an approved equivalent complete with all accessories but excluding MCBs for clean power distribution.	1	No.		
1.26	MCB's for item above as SCHNEIDER ELECTRIC or an approved equivalent				
	i) 10A SP	1	No.		
	ii) 20A SP	1	No.		
	iii) 32A SP	1	No.		
	iv) SP Blanking Plate	1	No.		
1.27	2Core 6mm2 PVC/SWA/PVC armoured copper cables in 25mmØ concealed HG PVC conduits c/w all installation accessories	70	LM		
	SUB TOTAL C/F TO THE NEXT PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 2: ELECTRICAL SERVICES SCHEDULE No. 1: - GROUND FLOOR ELECTRICAL INSTALLATION WORKS (CONT'D)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
F	**FIRE DETECTION AND ALARM SYSTEM**				
1.28	Supply, deliver, install and commission a complete Fire Detection and Alarm system, addressable type and in accordance with BS 5839 :2000, P2 and L2				
	i) Outlet for Fire Alarm Panel's concealed 20mm HG PVC conduit, wiring in 3 x 2.5mm2 "firetuff" cables and all accessories, including 5A fused unswitched connection unit with neon light.	1	No.		
	ii) Outlet for fire alarm manual call point/smoke/heat detector comprising box, concealed 20mm HG PVC conduit, wiring in 2 x 2.5mm2 "firetuff" cables and all accessories.	24	No.		
	iii) Addressable Manual Fire break glass call point unit as MENVIER or approved equivalent complete with a packet of 5 spare glasses, a packet of 5 spare test keys, a spare back box and a hinged cover to be installed recessed in building fabric.	3	No.		
	iv) Addressable Electronic Fire Alarm Sounder complete with Red Flashing Beacon Light and all accessories as MENVIER or approved equivalent.	1	No.		
	v) Addressable optical Smoke Detector all accessories as MENVIER or equal and approved.	18	No.		
	vi) Addressable Rate of Heat Rise Detector all accessories as MENVIER or equal and approved.	1	No.		
	vii) Addressable 2 Loop Fire alarm control panel complete with 72hrs autonomous time emergency batteries all accessories as MENVIER or equal and approved.	1	No.		
	SUB TOTAL C/F TO THE SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

COLLECTION PAGE FOR GROUND FLOOR ELECTRICAL INSTALLATION WORKS

ITEM	DESCRIPTION				AMOUNT (KShs.)
A	Sub total B/F from - LIGHTING POINTS				
B	Sub total B/F from - SWITCHES				
C	Sub total B/F from - LIGHTING FITTINGS				
D	Sub total B/F from - SOCKET OUTLETS AND OTHER POWER				
E	Sub total B/F from - DISTRIBUTION BOARDS/ CONSUMER UNITS				
F	Sub total B/F from - FIRE DETECTION AND ALARM SYSTEM				
	TOTAL CARRIED TO ELECTRICAL SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 2: ELECTRICAL SERVICES SCHEDULE No. 2: - FIRST FLOOR ELECTRICAL INSTALLATION WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
A	**LIGHTING POINTS**				
2.01	Lighting points wired in 3x1.5mm2 PVC SC Copper Cables				
	a) One way switching	66	No.		
	b) Two way switching	23	No.		
B	**SWITCHES**				
2.02	10A moulded ivory switch plates as Crabtree or approved				
	i) One gang one way switch	24	No.		
	ii) One gang two way switch	5	No.		
	iii) Three gang one way switch	1	No.		
	iv) Two gang two way switch	2	No.		
C	**LIGHTING FITTINGS**				
2.03	Light fittings complete with all accessories and lamps as				
	a) 40W, 600mm x 600mm, LED Lighting fitting as Phillips	48	No.		
	b) 22W LED downlighter as Phillips CoreLine SlimDownlight or equal and approved equivalent	6	No.		
	c) Dustproof 15W Club Circular Surface LED Light fitting with OpalGlass diffuser and Polished Chrome finish as PHILLIPS or Approved Equivalent	15	No.		
	d) 10W 1200mm LED Mirror Light as Phillips or equal and approved equivalent	2	No.		
	e) Self-contained double sided EXIT sign with 8W LED lamp for	3	No.		
	f) Occupancy Sensors (Infrared Motion Sensor)	2	No.		
	g) 15W Outdoor LED Bulkhead Light IP65, 6500k Daylight Oval Wall Mount Outdoor Security Light High Brightness.	2	No.		
	h) 24W, 1200mm, LED, 2200lm, 6500K, surface mounted waterproof luminaire as Thorn AquaForce or approved equivalent.	13	No.		
	SUB TOTAL C/F TO THE NEXT PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 2: ELECTRICAL SERVICES SCHEDULE No. 2: - FIRST FLOOR ELECTRICAL INSTALLATION WORKS (CONT'D)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
D	**SOCKET OUTLETS AND OTHER POWER POINTS**				
2.04	i) Socket outlet power point comprising wiring in 3 x 2.5mm2 PVC/SC CU cables drawn in 25mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates	55	No.		
	ii) 13A switched white moulded socket outlet plates with neon	55	No.		
2.05	Floor Distribution Systems: Floor recessed/mounted power outlet station complete with 2 No. 13A twin standard switched socket outlets for raw power, 2 No. dual data cable outlet plates and wiring in 3 x 2.5mm2 SC-PVC-CU cables. To be constructed from high quality 14SWG pre-galvanised steel sheets and stainless steel cover	6	No.		
2.06	Toilet Extract Fan (1-Φ) Power Point, wired in 3x 2.5sq mm PVC SC copper cables drawn in concealed 25mm Dia. HG PVC conduits complete with all accessories but excluding the D.P switch.	4	No.		
2.07	20A DP Control Switch marked 'As Per Application' with neon light and cord outlet for item above as Clipsal or approved equivalent.	4	No.		
2.08	Hand Drier's Power Point, wired in 3x 2.5sq mm PVC SC copper cables drawn in concealed 25mm Dia. HG PVC conduits complete with all accessories but excluding the D.P switch.	4	No.		
2.09	20A DP Control Switch marked 'As Per Application' with neon light and cord outlet for item above as Clipsal or approved equivalent.	4	No.		
2.10	Data/Telephone/WAP outlet points comprising 25mmØ concealed HG PVC conduits complete with draw wire.	15	No.		
2.11	CCTV points approximately 30m for each point from the communication room done in 25mmsq. Size conduits concealed inside ceiling	4	No.		
2.12	Access control system points comprising draw wire in concealed 25mm Ø HG PVC Conduits all emanating from the security office	4	No.		
	SUB TOTAL C/F TO THE NEXT PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 2: ELECTRICAL SERVICES SCHEDULE No. 2: - FIRST FLOOR ELECTRICAL INSTALLATION WORKS (CONT'D)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
2.13	TRUNKING & DUCTING				
	i) 150x50mm two compartment powder coated steel trunking	300	LM		
	ii) Factory made powder coated corner bends for the above	8	No.		
	iii) Factory made powder coated end covers for the above	8	No.		
	iv) Powder coated twin punched outlet plate for fixing twin socket outlets.	55	No.		
	v) Ditto for Data Outlet Points	55	No.		
	vi) Carry out bonding throughout the entire length of the	1	No.		
2.14	Lay HG/PVC conduiting of size 2x32mm diameter HG/PVC	20	LM		
2.15	Lay HG/PVC conduiting of size 2x50mm diameter HG/PVC ducts from the electrical service duct to the metal trunkings for ICT services.	20	LM		
2.16	300mmx300mmx150mm, 14SWG, powder coated steel adaptible box to approval.	2	No.		
E	**DISTRIBUTION BOARDS/ CONSUMER UNITS**				
2.17	6 Way TPN+E, flush mounted Distribution Board complete with 150A integral isolator as SCHNEIDER ELECTRIC or an approved equivalent complete with all accessories but excluding MCBs.	2	No.		
2.18	MCB's for item above as SCHNEIDER ELECTRIC or an approved				
	i) 10A SP	5	No.		
	ii) 20A SP	4	No.		
	iii) 32A SP	4	No.		
	iv) 45A SP	1	No.		
	v) SP Blanking Plate	6	No.		
2.19	4Core 10mm2 PVC/SWA/PVC armoured copper cables in 38mmØ concealed HG PVC conduits c/w all installation accessories for the 2No. Distribution Boards from the MLV Boards	70	LM		
	SUB TOTAL C/F TO THE NEXT PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 2: ELECTRICAL SERVICES SCHEDULE No. 2: - FIRST FLOOR ELECTRICAL INSTALLATION WORKS (CONT'D)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
F	**FIRE DETECTION AND ALARM SYSTEM**				
2.20	Supply, deliver, install and commission a complete Fire Detection and Alarm system, addressable type and in accordance with BS 5839 :2000, P2 and L2				
	i) Outlet for fire alarm manual call point/smoke/heat detector comprising box, concealed 20mm HG PVC conduit, wiring in 2 x 2.5mm2 "firetuff" cables and all accessories.	24	No.		
	ii) Addressable Manual Fire break glass call point unit as MENVIER or approved equivalent complete with a packet of 5 spare glasses, a packet of 5 spare test keys, a spare back box and a hinged cover to be installed recessed in building fabric.	3	No.		
	iii) Addressable Electronic Fire Alarm Sounder complete with	1	No.		
	iv) Addressable optical Smoke Detector all accessories as MENVIER or equal and approved.	18	No.		
	v) Addressable Rate of Heat Rise Detector all accessories as MENVIER or equal and approved.	1	No.		
	SUB TOTAL C/F TO THE SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS COLLECTION PAGE FOR FIRST FLOOR ELECTRICAL INSTALLATION WORKS					
ITEM	**DESCRIPTION**				**AMOUNT (KShs.)**
A	Sub total B/F from - LIGHTING POINTS				
B	Sub total B/F from - SWITCHES				
C	Sub total B/F from - LIGHTING FITTINGS				
D	Sub total B/F from - SOCKET OUTLETS AND OTHER POWER				
E	Sub total B/F from - DISTRIBUTION BOARDS/ CONSUMER UNITS				
F	Sub total B/F from - FIRE DETECTION AND ALARM SYSTEM				
	TOTAL CARRIED TO ELECTRICAL SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 2: ELECTRICAL SERVICES SCHEDULE No. 3: - SECOND FLOOR ELECTRICAL INSTALLATION WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
A	**LIGHTING POINTS**				
3.01	Lighting points wired in 3x1.5mm2 PVC SC Copper Cables				
	a) One way switching	66	No.		
	b) Two way switching	23	No.		
B	**SWITCHES**				
3.02	10A moulded ivory switch plates as Crabtree or approved				
	i) One gang one way switch	24	No.		
	ii) One gang two way switch	5	No.		
	iii) Three gang one way switch	1	No.		
	iv) Two gang two way switch	2	No.		
C	**LIGHTING FITTINGS**				
3.03	Light fittings complete with all accessories and lamps as				
	a) 40W, 600mm x 600mm, LED Lighting fitting as Phillips	48	No.		
	b) 22W LED downlighter as Phillips CoreLine SlimDownlight or	6	No.		
	c) Dustproof 15W Club Circular Surface LED Light fitting with	15	No.		
	d) 10W 1200mm LED Mirror Light as Phillips or equal and	2	No.		
	e) Self-contained double sided EXIT sign with 8W LED lamp for	3	No.		
	f) Occupancy Sensors (Infrared Motion Sensor)	2	No.		
	g) 15W Outdoor LED Bulkhead Light IP65, 6500k Daylight Oval	2	No.		
	h) 24W, 1200mm, LED, 2200lm, 6500K, surface mounted	13	No.		
	SUB TOTAL C/F TO THE NEXT PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 2: ELECTRICAL SERVICES SCHEDULE No. 3: - SECOND FLOOR ELECTRICAL INSTALLATION WORKS (CONT'D)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
D	**SOCKET OUTLETS AND OTHER POWER POINTS**				
3.04	i) Socket outlet power point comprising wiring in 3 x 2.5mm2 PVC/SC CU cables drawn in 25mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates	55	No.		
	ii) 13A switched white moulded socket outlet plates with neon indicator as Schneider Electric or an approved equivalent.	55	No.		
3.05	Floor Distribution Systems: Floor recessed/mounted power outlet station complete with 2 No. 13A twin standard switched socket outlets for raw power, 2 No. dual data cable outlet plates and wiring in 3 x 2.5mm2 SC-PVC-CU cables. To be constructed from high quality 14SWG pre-galvanised steel sheets and stainless steel cover	6	No.		
3.06	Toilet Extract Fan (1-Φ) Power Point, wired in 3x 2.5sq mm PVC SC copper cables drawn in concealed 25mm Dia. HG PVC conduits complete with all accessories but excluding the D.P switch.	4	No.		
3.07	20A DP Control Switch marked 'As Per Application' with neon light and cord outlet for item above as Clipsal or approved equivalent.	4	No.		
3.08	Hand Drier's Power Point, wired in 3x 2.5sq mm PVC SC copper cables drawn in concealed 25mm Dia. HG PVC conduits complete with all accessories but excluding the D.P switch	4	No.		
3.09	20A DP Control Switch marked 'As Per Application' with neon light and cord outlet for item above as Clipsal or approved equivalent.	4	No.		
3.10	Data/Telephone/WAP outlet points comprising 25mmØ concealed HG PVC conduits complete with draw wire.	15	No.		
3.11	CCTV points approximately 30m for each point from the communication room done in 25mmsq. Size conduits concealed inside ceiling	4	No.		
3.12	Access control system points comprising draw wire in concealed 25mm Ø HG PVC Conduits all emanating from the security office	4	No.		
	SUB TOTAL C/F TO THE NEXT PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-
ELECTRICAL INSTALLATION WORKS
BILL No. 2: ELECTRICAL SERVICES SCHEDULE No. 3: - SECOND FLOOR ELECTRICAL INSTALLATION WORKS (CONT'D)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
3.13	TRUNKING & DUCTING				
	i) 150x50mm two compartment powder coated steel trunking manufactured in 14 swg galvanized mild steel sheet and finished in cream powder coating to details shown complete with covers, bends, cable tie slots and all fixing accessories. Allow for colour change to Architect's detail.	300	LM		
	ii) Factory made powder coated corner bends for the above	8	No.		
	iii) Factory made powder coated end covers for the above trunking.	8	No.		
	iv) Powder coated twin punched outlet plate for fixing twin	55	No.		
	v) Ditto for Data Outlet Points	55	No.		
	vi) Carry out bonding throughout the entire length of the above trunking and connect to earthing.	1	No.		
3.14	Lay HG/PVC conduiting of size 2x32mm diameter HG/PVC ducts from the electrical service duct to the metal trunkings for internal power reticulation.	20	LM		
3.15	Lay HG/PVC conduiting of size 2x50mm diameter HG/PVC ducts from the electrical service duct to the metal trunkings for ICT services.	20	LM		
3.16	300mmx300mmx150mm, 14SWG, powder coated steel adaptible box to approval.	2	No.		
E	**DISTRIBUTION BOARDS/ CONSUMER UNITS**				
3.17	6 Way TPN+E, flush mounted Distribution Board complete with	2	No.		
3.18	MCB's for item above as SCHNEIDER ELECTRIC or an approved				
	i) 10A SP	5	No.		
	ii) 20A SP	4	No.		
	iii) 32A SP	4	No.		
	iv) 45A SP	1	No.		
	v) SP Blanking Plate	6	No.		
3.19	4Core 10mm2 PVC/SWA/PVC armoured copper cables in	90	LM		
	SUB TOTAL C/F TO THE NEXT PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 2: ELECTRICAL SERVICES SCHEDULE No. 3: - SECOND FLOOR ELECTRICAL INSTALLATION WORKS (CONT'D)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
F	**FIRE DETECTION AND ALARM SYSTEM**				
3.20	Supply, deliver, install and commission a complete Fire				
	i) Outlet for fire alarm manual call point/smoke/heat detector comprising box, concealed 20mm HG PVC conduit, wiring in 2 x 2.5mm2 "firetuff" cables and all accessories.	24	No.		
	ii) Addressable Manual Fire break glass call point unit as MENVIER or approved equivalent complete with a packet of 5 spare glasses, a packet of 5 spare test keys, a spare back box and a hinged cover to be installed recessed in building fabric.	3	No.		
	iii) Addressable Electronic Fire Alarm Sounder complete with Red Flashing Beacon Light and all accessories as MENVIER or approved equivalent.	1	No.		
	iv) Addressable optical Smoke Detector all accessories as MENVIER or equal and approved.	18	No.		
	v) Addressable Rate of Heat Rise Detector all accessories as MENVIER or equal and approved.	1	No.		
	SUB TOTAL C/F TO THE SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

COLLECTION PAGE FOR SECOND FLOOR ELECTRICAL INSTALLATION WORKS

ITEM	DESCRIPTION				AMOUNT (KShs.)
A	Sub total B/F from - LIGHTING POINTS				
B	Sub total B/F from - SWITCHES				
C	Sub total B/F from - LIGHTING FITTINGS				
D	Sub total B/F from - SOCKET OUTLETS AND OTHER POWER				
E	Sub total B/F from - DISTRIBUTION BOARDS/ CONSUMER UNITS				
F	Sub total B/F from - FIRE DETECTION AND ALARM SYSTEM				
	TOTAL CARRIED TO ELECTRICAL SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 2: ELECTRICAL SERVICES SCHEDULE No. 4: - THIRD FLOOR ELECTRICAL INSTALLATION WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
A	**LIGHTING POINTS**				
4.01	Lighting points wired in 3x1.5mm2 PVC SC Copper Cables				
	a) One way switching	66	No.		
	b) Two way switching	23	No.		
B	**SWITCHES**				
4.02	10A moulded ivory switch plates as Crabtree or approved				
	i) One gang one way switch	24	No.		
	ii) One gang two way switch	5	No.		
	iii) Three gang one way switch	1	No.		
	iv) Two gang two way switch	2	No.		
C	**LIGHTING FITTINGS**				
4.03	Light fittings complete with all accessories and lamps as				
	a) 40W, 600mm x 600mm, LED Lighting fitting as Phillips	48	No.		
	b) 22W LED downlighter as Phillips CoreLine SlimDownlight or	6	No.		
	c) Dustproof 15W Club Circular Surface LED Light fitting with	15	No.		
	d) 10W 1200mm LED Mirror Light as Phillips or equal and	2	No.		
	e) Self-contained double sided EXIT sign with 8W LED lamp for	3	No.		
	f) Occupancy Sensors (Infrared Motion Sensor)	2	No.		
	g) 15W Outdoor LED Bulkhead Light IP65, 6500k Daylight Oval	2	No.		
	h) 24W, 1200mm, LED, 2200lm, 6500K, surface mounted	13	No.		
	SUB TOTAL C/F TO THE NEXT PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 2: ELECTRICAL SERVICES SCHEDULE No. 4: - THIRD FLOOR ELECTRICAL INSTALLATION WORKS (CONT'D)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
D	**SOCKET OUTLETS AND OTHER POWER POINTS**				
4.04	i) Socket outlet power point comprising wiring in 3 x 2.5mm2	55	No.		
	ii) 13A switched white moulded socket outlet plates with neon	55	No.		
4.05	Toilet Extract Fan (1-Φ) Power Point, wired in 3x 2.5sq mm	4	No.		
4.06	20A DP Control Switch marked 'As Per Application' with neon	4	No.		
4.07	Hand Drier's Power Point, wired in 3x 2.5sq mm PVC SC copper	4	No.		
4.08	20A DP Control Switch marked 'As Per Application' with neon	4	No.		
4.09	Data/Telephone/WAP outlet points comprising 25mmØ	15	No.		
4.10	CCTV points approximately 30m for each point from the	4	No.		
4.11	Access control system points comprising draw wire in	4	No.		
	SUB TOTAL C/F TO THE NEXT PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 2: ELECTRICAL SERVICES SCHEDULE No. 4: - THIRD FLOOR ELECTRICAL INSTALLATION WORKS (CONT'D)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
4.12	TRUNKING & DUCTING				
	i) 150x50mm two compartment powder coated steel trunking	300	LM		
	ii) Factory made powder coated corner bends for the above	8	No.		
	iii) Factory made powder coated end covers for the above	8	No.		
	iv) Powder coated twin punched outlet plate for fixing twin	55	No.		
	v) Ditto for Data Outlet Points	55	No.		
	vi) Carry out bonding throughout the entire length of the	1	No.		
4.13	Lay HG/PVC conduiting of size 2x32mm diameter HG/PVC	20	LM		
4.14	Lay HG/PVC conduiting of size 2x50mm diameter HG/PVC	20	LM		
4.15	300mmx300mmx150mm, 14SWG, powder coated steel	2	No.		
E	**DISTRIBUTION BOARDS/ CONSUMER UNITS**				
4.16	6 Way TPN+E, flush mounted Distribution Board complete with	2	No.		
4.17	MCB's for item above as SCHNEIDER ELECTRIC or an approved				
	i) 10A SP	5	No.		
	ii) 20A SP	4	No.		
	iii) 32A SP	4	No.		
	iv) 45A SP	1	No.		
	v) SP Blanking Plate	6	No.		
4.18	4Core 10mm2 PVC/SWA/PVC armoured copper cables in	90	LM		
	SUB TOTAL C/F TO THE NEXT PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 2: ELECTRICAL SERVICES SCHEDULE No. 4: - THIRD FLOOR ELECTRICAL INSTALLATION WORKS (CONT'D)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
F	**FIRE DETECTION AND ALARM SYSTEM**				
4.19	Supply, deliver, install and commission a complete Fire				
	i) Outlet for fire alarm manual call point/smoke/heat detector	24	No.		
	ii) Addressable Manual Fire break glass call point unit as	3	No.		
	iii) Addressable Electronic Fire Alarm Sounder complete with	1	No.		
	iv) Addressable optical Smoke Detector all accessories as	18	No.		
	v) Addressable Rate of Heat Rise Detector all accessories as	1	No.		
	SUB TOTAL C/F TO THE SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

COLLECTION PAGE FOR THIRD FLOOR ELECTRICAL INSTALLATION WORKS

ITEM	DESCRIPTION				AMOUNT (KShs.)
A	Sub total B/F from - LIGHTING POINTS				
B	Sub total B/F from - SWITCHES				
C	Sub total B/F from - LIGHTING FITTINGS				
D	Sub total B/F from - SOCKET OUTLETS AND OTHER POWER				
E	Sub total B/F from - DISTRIBUTION BOARDS/ CONSUMER UNITS				
F	Sub total B/F from - FIRE DETECTION AND ALARM SYSTEM				
	TOTAL CARRIED TO ELECTRICAL SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 2: ELECTRICAL SERVICES SCHEDULE No. 5: - MAINS POWER DISTRIBUTION INSTALLATION WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
A	**MAIN DISTRIBUTION BOARD**				
5.01	Free-standing purpose made front access main switchboard a) Digital multimeter capable of measuring voltage in the b) 250A TP MCCB for Main Incomer c) 300A TPN insulated copper bus bar system d) 1 No. 63A TPN MCCB Outgoer for Mechanical Loads e) 8 No. 63A TPN MCCB Outgoer f) 1 No. 63A SPN MCB Outgoer g) 4No. Spareways h) Sealable studs for all cover plate screws and all necessary i) 6mm perspex viewing window for each section j) Heavy duty rubber lining for all the perspex viewing windows k) 415V three-phase surge diverter as Furse ESP 415, fully	1	Item		
	4 Core 95 mm2 XLPE/SWA/PVC armoured Copper cable in cable	60	LM		
5.02	Provide earthing, in 1500mm long 12mm diameter pure electrolytic copper earth rod deep driven to permanent moisture level, copper clamp. All to KPLC's requirements, IET regulations, the government Electrical Installations regulations and other statutory requirements to achieve <1ohm earth resistance to be measured in presence of the Electrical Engineer	1	Item		
B	**POWER RETICULATION AND EARTHING**				
5.03	600x600x600mm Power manhole, PMH complete with E.A.F.W heavy duty steel cover engraved POWER- DANGER	5	No.		
	SUB TOTAL C/F TO THE NEXT PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-
ELECTRICAL INSTALLATION WORKS
BILL No. 2: ELECTRICAL SERVICES SCHEDULE No. 5: - MAINS POWER DISTRIBUTION INSTALLATION WORKS (CONT'D)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
5.04	Excavate trenches for the above duct average depth 600mm, remove soft earth, lay duct, cover with "DANGER-HATARI" tape, back-fill with soil and compact to natural ground level and to KPLC approved design layout.	50	LM		
5.05	2 x 100mm diameter heavy gauge pvc ducts laid in above excavated trench in l00mm concrete for Main Incomer and Fibre Optic Incomer	50	LM		
C	**CABLE TRAYS**				
5.06	150 x 50 mm heavy-duty metal cable tray, complete with all required supports (at intervals of 1m), fixings, cable ties, bends, tees, reducers and accessories, manufactured from 14-gauge galvanised steel, including installation, proper alignment, bonding, and making good all disturbed surfaces	50	LM		
	SUB TOTAL C/F TO THE SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 2: ELECTRICAL SERVICES SCHEDULE No. 6: - LIGHTNING PROTECTION INSTALLATION WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
A	**LIGHTNING PROTECTION**				
6.01	25x3mm copper tape down conductor supported at intervals of	150	LM		
6.02	Galvanized steel conduit 32mm diameter at ground floor for	4	No.		
6.03	Earthing chamber 300x300mm masonry type complete with	4	No.		
6.04	16mm x 1500mm pure copper earth rod complete with clamp	4	No.		
6.05	Air termination (600mm long pure copper with spikes) mounted	4	No.		
6.06	Bonding of above system	1	Item		
	SUB TOTAL C/F TO THE SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

COLLECTION PAGE FOR MAINS POWER DISTRIBUTION & LIGHTNING PROTECTION

ITEM	DESCRIPTION				AMOUNT (KShs.)
1.00	Total brought forward from Mains Power Distribution				
1.01	Total brought forward from Lightning Protection				
	TOTAL CARRIED TO ELECTRICAL SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS
BILL No. 2: ELECTRICAL SERVICES SCHEDULE No. 7: - EXTERNAL LIGHTING INSTALLATION WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
A	**EXTERNAL AREA LIGHTING**				
7.01	100W, 6000K, Solar street light with Lithium Ferro Phosphate battery (replaceable), solar panel, charger and PIR sensor built into the luminaire, pressure die cast aluminium for pole mounting c/w bracket allowing different tilt angles, lateral and pole top mounting, MPPT charge controller for maximum efficiency, factory set dimming profile as Philips or equal and approved equivalent	16	No.		
7.02	6 Metres outdoor lighting pole made from 100mm 6mm thick tapered galvanized steel round column for top mounting entry painted with rust proof aluminum paint complete secured on 600mm x 600mm x 25mm thick base plate and bolted in class 25 concrete foundation constructed on firm ground.	16	No.		
	SUB TOTAL C/F TO THE SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

COLLECTION PAGE FOR EXTERNAL LIGHTING INSTALLATION WORKS

ITEM	DESCRIPTION				AMOUNT (KShs.)
1.00	Total brought forward from External Lighting				
	TOTAL CARRIED TO ELECTRICAL SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 3: ICT SERVICES SCHEDULE No. 1: - STRUCTURED CABLING INSTALLATION WORKS (GROUND FLOOR)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
A	**HORIZONTAL CABLING**				
1.01	Cat 6A, STP 4-pair cable as Siemon or its equal and approved	10	Roll		
1.02	3M, RJ45-RJ45 Cat 6A, UTP factory terminated patch cords as	57	No.		
1.03	1M, RJ45-RJ45 Cat 6A, UTP factory terminated patch cords as Siemon or its equal and approved equivalent to be used in cabinet.	57	No.		
1.04	RJ45 Cat 6A, UTP (Dual) Data and Voice outlets complete with	57	No.		
B	**BACKBONE CABLING AND GENERAL REQUIREMENTS**				
1.05	1000Base-SX Multicore SFP fibre modules as CISCO or approved	150	LM		
1.06	Dual Fibre optic patch leads.	2	No.		
1.07	100 x 50 mm heavy-duty metal cable tray, complete with all	50	LM		
C	**CABINETS**				
1.08	42U Free standing equipment and server cabinet with lockable	1	No.		
1.09	48 Port RJ45 Cat 6A, Data/Voice Patch Panel for UTP	2	No.		
1.10	2U Cable Manager/Organizers as Siemon or its equal and	3	No.		
	SUB TOTAL C/F TO THE NEXT PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 3: ICT SERVICES SCHEDULE No. 1: - STRUCTURED CABLING INSTALLATION WORKS (GROUND FLOOR) (CONT'D)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
1.11	Backbone Core Switch complete with the chasis, power supply	1	No.		
1.12	48 Port Edge Switch as Cisco Business Switch with 4No. 10G	2	No.		
1.13	Wall mounted Wireless Indoor Cisco Catalyst C9105AXI-E Access	2	No.		
1.14	240V, 50Hz, 2000VA, Rack Mountable APC Smart-UPS RM SMT	1	No.		
1.15	Provisional Sum for Internet connectivity Charges	1	Item		
	SUB TOTAL C/F TO THE SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

COLLECTION PAGE FOR STRUCTURED CABLING - GROUND FLOOR

ITEM	DESCRIPTION				AMOUNT (KShs.)
A	Sub total B/F from - HORIZONTAL CABLING				
B	Sub total B/F from - BACKBONE CABLING AND GENERAL				
C	Sub total B/F from - CABINETS				
	TOTAL CARRIED TO ELECTRICAL SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 3: ICT SERVICES SCHEDULE No. 2: - STRUCTURED CABLING INSTALLATION WORKS (FIRST FLOOR)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
A	**HORIZONTAL CABLING**				
2.01	Cat 6A, STP 4-pair cable as Siemon or its equal and approved	10	Roll		
2.02	3M, RJ45-RJ45 Cat 6A, UTP factory terminated patch cords as	55	No.		
2.03	1M, RJ45-RJ45 Cat 6A, UTP factory terminated patch cords as	55	No.		
2.04	RJ45 Cat 6A, UTP (Dual) Data and Voice outlets complete with	55	No.		
B	**BACKBONE CABLING AND GENERAL REQUIREMENTS**				
2.05	1000Base-SX Multicore SFP fibre modules as CISCO or approved	10	LM		
2.06	Dual Fibre optic patch leads.	2	No.		
2.07	100 x 50 mm heavy-duty metal cable tray, complete with all	20	LM		
C	**CABINETS**				
2.08	22U Free standing equipment and server cabinet with lockable	1	No.		
2.09	48 Port RJ45 Cat 6A, Data/Voice Patch Panel for UTP	2	No.		
2.10	2U Cable Manager/Organizers as Siemon or its equal and	2	No.		
2.11	48 Port Edge Switch as Cisco Business Switch with 4No. 10G	2	No.		
	SUB TOTAL C/F TO THE NEXT PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 3: ICT SERVICES SCHEDULE No. 2: - STRUCTURED CABLING INSTALLATION WORKS (FIRST FLOOR) (CONT'D)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
2.12	Wall mounted Wireless Indoor Cisco Catalyst C9105AXI-E Access	4	No.		
2.13	240V, 50Hz, 1000VA, Rack Mountable APC Smart-UPS RM SMT	1	No.		
	SUB TOTAL C/F TO THE SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

COLLECTION PAGE FOR STRUCTURED CABLING - FIRST FLOOR

ITEM	DESCRIPTION				AMOUNT (KShs.)
A	Sub total B/F from - HORIZONTAL CABLING				
B	Sub total B/F from - BACKBONE CABLING AND GENERAL				
C	Sub total B/F from - CABINETS				
	TOTAL CARRIED TO ELECTRICAL SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 3: ICT SERVICES SCHEDULE No. 3: - STRUCTURED CABLING INSTALLATION WORKS (SECOND FLOOR)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
A	**HORIZONTAL CABLING**				
3.01	Cat 6A, STP 4-pair cable as Siemon or its equal and approved	10	Roll		
3.02	3M, RJ45-RJ45 Cat 6A, UTP factory terminated patch cords as	55	No.		
3.03	1M, RJ45-RJ45 Cat 6A, UTP factory terminated patch cords as	55	No.		
3.04	RJ45 Cat 6A, UTP (Dual) Data and Voice outlets complete with	55	No.		
B	**BACKBONE CABLING AND GENERAL REQUIREMENTS**				
3.05	1000Base-SX Multicore SFP fibre modules as CISCO or approved	10	LM		
3.06	Dual Fibre optic patch leads.	2	No.		
3.07	100 x 50 mm heavy-duty metal cable tray, complete with all	20	LM		
C	**CABINETS**				
3.08	22U Free standing equipment and server cabinet with lockable	1	No.		
3.09	48 Port RJ45 Cat 6A, Data/Voice Patch Panel for UTP	2	No.		
3.10	2U Cable Manager/Organizers as Siemon or its equal and	2	No.		
3.11	48 Port Edge Switch as Cisco Business Switch with 4No. 10G	2	No.		
	SUB TOTAL C/F TO THE NEXT PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 3: ICT SERVICES SCHEDULE No. 3: - STRUCTURED CABLING INSTALLATION WORKS (SECOND FLOOR) (CONT'D)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
3.12	Wall mounted Wireless Indoor Cisco Catalyst C9105AXI-E Access	4	No.		
3.13	240V, 50Hz, 1000VA, Rack Mountable APC Smart-UPS RM SMT	1	No.		
	SUB TOTAL C/F TO THE SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

COLLECTION PAGE FOR STRUCTURED CABLING - SECOND FLOOR

ITEM	DESCRIPTION				AMOUNT (KShs.)
A	Sub total B/F from - HORIZONTAL CABLING				
B	Sub total B/F from - BACKBONE CABLING AND GENERAL				
C	Sub total B/F from - CABINETS				
	TOTAL CARRIED TO ELECTRICAL SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 3: ICT SERVICES SCHEDULE No. 4: - STRUCTURED CABLING INSTALLATION WORKS (THIRD FLOOR)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
A	**HORIZONTAL CABLING**				
4.01	Cat 6A, STP 4-pair cable as Siemon or its equal and approved	10	Roll		
4.02	3M, RJ45-RJ45 Cat 6A, UTP factory terminated patch cords as	55	No.		
4.03	1M, RJ45-RJ45 Cat 6A, UTP factory terminated patch cords as	55	No.		
4.04	RJ45 Cat 6A, UTP (Dual) Data and Voice outlets complete with	55	No.		
B	**BACKBONE CABLING AND GENERAL REQUIREMENTS**				
4.05	1000Base-SX Multicore SFP fibre modules as CISCO or approved	10	LM		
4.06	Dual Fibre optic patch leads.	2	No.		
4.07	100 x 50 mm heavy-duty metal cable tray, complete with all	20	LM		
C	**CABINETS**				
4.08	22U Free standing equipment and server cabinet with lockable	1	No.		
4.09	48 Port RJ45 Cat 6A, Data/Voice Patch Panel for UTP	2	No.		
4.10	2U Cable Manager/Organizers as Siemon or its equal and	2	No.		
4.11	48 Port Edge Switch as Cisco Business Switch with 4No. 10G	2	No.		
	SUB TOTAL C/F TO THE NEXT PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 3: ICT SERVICES SCHEDULE No. 4: - STRUCTURED CABLING INSTALLATION WORKS (THIRD FLOOR) (CONT'D)

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
4.12	Wall mounted Wireless Indoor Cisco Catalyst C9105AXI-E Access	4	No.		
4.13	240V, 50Hz, 1000VA, Rack Mountable APC Smart-UPS RM SMT	1	No.		
	SUB TOTAL C/F TO THE SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

COLLECTION PAGE FOR STRUCTURED CABLING - THIRD FLOOR

ITEM	DESCRIPTION				AMOUNT (KShs.)
A	Sub total B/F from - HORIZONTAL CABLING				
B	Sub total B/F from - BACKBONE CABLING AND GENERAL				
C	Sub total B/F from - CABINETS				
	TOTAL CARRIED TO ELECTRICAL SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 3: ICT SERVICES SCHEDULE No. 5: - IP-PABX SYSTEM INSTALLATION WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
A	**IP-PABX SYSTEM**				
5.01	IP-PABX equipped with 50 extensions ports expandable to 200,	1	No.		
B	**TELEPHONE INSTRUMENTS**				
5.02	IP Enhanced Standard Telephone Instrument Sets complete	70	No.		
5.03	IP Executive Telephone Instrument Sets complete with	10	No.		
	SUB TOTAL C/F TO THE SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

COLLECTION PAGE FOR IP-PABX SYSTEM INSTALLATION WORKS

ITEM	DESCRIPTION				AMOUNT (KShs.)
1.00	Total brought forward from IP-PABX System				
	TOTAL CARRIED TO ELECTRICAL SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS
BILL No. 3: ICT SERVICES SCHEDULE No. 6: - CCTV SYSTEM INSTALLATION WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
A	**CAMERAS**				
6.01	4MP Indoor IP POE Dome Camera with installation Accessories	64	No.		
6.02	4MP Outdoor IP POE, Vandal resistant Dome camera with	10	No.		
6.03	Cat 6A, 4 pair STP terminated in RJ 45 as appropriate and	22	Roll		
6.04	1m, RJ45- RJ45 cat 6 UTP factory terminated patch cord as	26	No.		
6.05	1000Base-SX Multicore SFP fibre modules as CISCO or approved	20	LM		
B	**ACTIVE EQUIPMENT AND RECORDING DEVICES**				
6.06	48Port Edge Switch as Cisco Business Switch with 4No. 10G	2	No.		
6.07	32-Channel IP Network Video Recorder RACK MOUNT as	3	No.		
6.08	IP Surveillance Central Management software for viewing and	1	Item		
6.09	LCD LED panel display 43",4K Resolution, 2xHDMI input,	3	No.		
6.10	10TB SATA Hard Disk, 6GBps 128MB Cache SATA Hard Drive as	7	No.		
6.11	45A High voltage surge protector as Sollateck or approved	1	No.		
6.12	Operator workstation hardware/Desktop computer complete	1	Item		
	SUB TOTAL C/F TO THE SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

COLLECTION PAGE FOR CCTV SYSTEM INSTALLATION WORKS

ITEM	DESCRIPTION				AMOUNT (KShs.)
1.00	Total brought forward from CCTV System				
	TOTAL CARRIED TO ELECTRICAL SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 3: ICT SERVICES SCHEDULE No. 7: - ACCESS CONTROL INSTALLATION WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
A	**CONTROL PANEL**				
7.01	Access Control Module complete with Integrated Power Supply	1	No.		
7.02	Door Controller Module as Impro Weigand Reader Module	5	No.		
B	**READERS**				
7.03	Multi-Discipline Reader, 125kHz & 13.56MHZ Reader, Wiegand	10	No.		
7.04	Door Exit switch	10	No.		
7.05	Emergency Break Glass	10	No.		
C	**ELECTROMAGNETIC LOCK**				
7.06	An Electromagnetic Lock of 600Kg Force complete with	10	No.		
7.07	Override Key switch	10	No.		
D	**CARDS AND CABLES**				
7.08	Proximity Cards with the individual employee's name	200	No.		
7.09	Mylar cable for access control system (approximately 70m).	700	LM		
7.10	1 sq. mm cable for wiring door exit switches	70	LM		
7.11	Programming, testing and commissioning.	1	Item		
	SUB TOTAL C/F TO THE SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

COLLECTION PAGE FOR ACCESS CONTROL INSTALLATION WORKS

ITEM	DESCRIPTION				AMOUNT (KShs.)
1.00	Total brought forward from Access Control System				
	TOTAL CARRIED TO ELECTRICAL SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 3: ICT SERVICES SCHEDULE No. 8: - AUDIO VISUAL INSTALLATION WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
A	**FIRST FLOOR - BOARDROOM AUDIO VISUAL SYSTEM**				
8.30	Boardroom audio visual system comprising of the following				
	a) 86 inch 4K commercial display as SAMSUNG or approved	1	No.		
	b) Heavy-duty wall mount or mobile trolley for display	1	No.		
	c) All-in-one video conferencing bar (camera, microphones,	1	No.		
	d) Wireless presentation gateway as BARCO ClickShare or	1	No.		
	e) 6 inch 100V line ceiling speaker	6	No.		
	f) 4-zone 120W 100V line amplifier	1	No.		
	g) Table connectivity plate (HDMI, USB-C, power) in table	4	No.		
	h) 4K active HDMI cable 15 m	4	No.		
	i) Speaker cable 2 x 1.5 mm2 LSZH	90	LM		
	k) Automatic Voltage Switcher 13A (AVS 13)	1	No.		
B	**SECOND FLOOR - BOARDROOM AUDIO VISUAL SYSTEM**				
8.32	Boardroom audio visual system comprising of the following				
	a) 86 inch 4K commercial display as SAMSUNG or approved	1	No.		
	b) Heavy-duty wall mount or mobile trolley for display	1	No.		
	c) All-in-one video conferencing bar (camera, microphones,	1	No.		
	d) Wireless presentation gateway as BARCO ClickShare or	1	No.		
	e) 6 inch 100V line ceiling speaker	6	No.		
	f) 4-zone 120W 100V line amplifier	1	No.		
	g) Table connectivity plate (HDMI, USB-C, power) in table	4	No.		
	h) 4K active HDMI cable 15 m	4	No.		
	i) Speaker cable 2 x 1.5 mm2 LSZH	90	LM		
	SUB TOTAL C/F TO THE NEXT PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

BILL No. 3: ICT SERVICES SCHEDULE No. 8: - AUDIO VISUAL INSTALLATION WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE (KShs.)	AMOUNT (KShs.)
	Supply, install, test and commission the following :-				
	SUB TOTAL B/F FROM THE PREVIOUS PAGE				
8.33	a)Programming, testing and commissioning of the audio visual system.	1	Item		
	b)Automatic Voltage Switcher 13A (AVS 13)	1	No.		
C	**TV POINTS AND AERIAL SYSTEM**				
	TV points only - Ground floor 4 No., First floor 3 No., Second				
8.34	TV outlet points wired with 75 Ohm RG6 coaxial cable drawn in	24	No.		
8.35	Flat TV/coax single ivory socket plate as MK or approved	24	No.		
8.36	Satellite dish (DSTV) complete with mounting and LNB.	1	No.		
8.37	16 SWG (300 x 300 x 300) mm3 galvanised steel draw box for	4	No.		
8.38	RG6 coaxial cable for the aerial trunk and riser distribution.	120	LM		
8.39	Testing and commissioning of the TV distribution system.	1	Item		
	SUB TOTAL C/F TO THE SUMMARY PAGE				

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

COLLECTION PAGE FOR AUDIO VISUAL, TV POINTS

ITEM	DESCRIPTION				AMOUNT (KShs.)
A	Sub total B/F from - FIRST FLOOR - BOARDROOM AUDIO VISUAL				
B	Sub total B/F from - SECOND FLOOR - BOARDROOM AUDIO				
C	Sub total B/F from - TV POINTS AND AERIAL SYSTEM				
	TOTAL CARRIED TO ELECTRICAL SUMMARY PAGE				

ELECTRICAL SUMMARY PAGE

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A-ELECTRICAL INSTALLATION WORKS

ITEM	DESCRIPTION	AMOUNT (Kshs.)
A	BILL NO. 1 : SUB-CONTRACT PRELIMINARIES	
B	BILL NO. 2: SCHEDULE 1: GROUND FLOOR ELECTRICAL	
C	BILL NO. 2: SCHEDULE 2: FIRST FLOOR ELECTRICAL	
D	BILL NO. 2: SCHEDULE 3: SECOND FLOOR ELECTRICAL	
E	BILL NO. 2: SCHEDULE 4: THIRD FLOOR ELECTRICAL	
F	BILL NO. 2: SCHEDULE 5 & 6: MAINS POWER DISTRIBUTION,	
G	BILL NO. 2: SCHEDULE 7: EXTERNAL LIGHTING INSTALLATION	
H	BILL NO. 3: SCHEDULE 1: STRUCTURED CABLING INSTALLATION	
I	BILL NO. 3: SCHEDULE 2: STRUCTURED CABLING INSTALLATION	
J	BILL NO. 3: SCHEDULE 3: STRUCTURED CABLING INSTALLATION	
K	BILL NO. 3: SCHEDULE 4: STRUCTURED CABLING INSTALLATION	
L	BILL NO. 3: SCHEDULE 5: IP-PABX SYSTEM INSTALLATION	
M	BILL NO. 3: SCHEDULE 6: CCTV SYSTEM INSTALLATION WORKS	
N	BILL NO. 3: SCHEDULE 7: ACCESS CONTROL INSTALLATION	
O	BILL NO. 3: SCHEDULE 8: AUDIO VISUAL INSTALLATION WORKS	
P	CONTINGENCY SUM	
	TOTAL FOR ELECTRICAL INSTALLATIONS ESTIMATES	

Amount of Tender in Words:

.....

.....

Tenderer's Name and Stamp .....

Postal Address: .....

Date .....

Signature: ……..Date: ……

Witness: ……... Date: ……..

Signature: ……... Address: …….

SECTION NO. 11

MECHANICAL WORKS

MECHANICAL INSTALLATION WORKS

PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A)-MECHANICAL INSTALLATION WORKS					
S SECTION					
SANITARY FITTINGS,PLUMBING AND DRAINAGE, EXTERNAL WATER RETICULATION AND WATER TANKS					
Item	**Description**	**Qty**	**Unit**	**Rate (KShs)**	**Amount (KShs)**
	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.				
A	**Water closet asian type**				
	Complete set ceramic squat pan toilet flushing tank odor Resistant.The suite be as "Ideal Standard" or approved equivalent.	16	No.		
B	**Water Closet (WC) Suite**				
	Close-coupled WC suite ('S' or 'P'-trap) in approved colour complete with horizontal outlet to BS 3402 with 7.5 litre valveless low level ceramic cistern and fittings including siphon,	30	No.		
C	**Wash hand basin (WHB)**				
	Countertop wash hand basin size 550 x450mm with single centre tap hole, 32mm diameter chrome plated chain waste, chain stay hole, chrome plated non-conculsive time delay press action pillar tap As Cobra or Equivalent heavy duty plastic bottle trap (32mm 'P' trap) with 75mm seal. All to be as Twyfords Refresh or equal and approved.	50	No.		
	Sub-Total c/f to Next Page				

	PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A)-MECHANICAL INSTALLATION WORKS				
Item	**Description**	**Qty**	**Unit**	Rate (KShs)	**Amount (KShs)**
	Sub-Total b/f from Previous Page				
A	**Three Bowl Urinal System** Urinal Bowl System consisting of: 3 No Urinal Bowls White Ceramic,Wall mounted to BS 3402 - 3No stainless steel entry spreaders - 3No-40mm heavy duty plastic bottle trap -40mm diameter chrome plated drain strainer - 6 litre white ceramic automatic flush cistern -2No Urinal divider to be as White Ceramic to be fastened to the wall with stainless steel fasteners . The fittings shall be as ideal standard or equal approved	8	No		
B	**Shower Fittings** Shower fittings, shower tray, shower rose and mixer tap. Exposed shower fitting consisting of 15mm chrome plated riser pipe to connect the exposed single lever shower mixer for hot and cold water to a 400mm diameter swivel/ adjustable shower rose, chrome plated handles and stop corks. Include other necessary fittings and accessories.	2	No		
C	**Hand drier** Automatic hand drier in white colour, operating on an infra-red automatic sensing system with heating element safety cut-out complete with a 30 seconds safety timer, plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 2.1kw and performance flow rate of 135cfm (3.82m3/min) and to be of size 270x264x143mm deep It shall have a noise level below 72.5 dBA at 1.5m. It shall be as Mediclinic or approved equivalent.	18	No		
D	**Soap dispenser** Touch-free wall-mounted liquid soap dispenser of 1.2 L capacity, manufactured in high impact ABS plastic. Prefered dimensions 236 x 144 x 106 mm. Dispenser to be as "Mediclinics DJ0050A" or approved equivalent	12	No		
	Sub-Total c/f to Next Page				

	PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A)-MECHANICAL INSTALLATION WORKS				
Item	**Description**	**Qty**	**Unit**	**Rate (KShs)**	**Amount (KShs)**
	Sub-Total b/f from the 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 bowl and cistern shall be manufactured from vitreous china complying with B.S 3402 .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.The basin shall be manufactured from vitreous china complying with B.S 3402.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 Twyfords DOC.M wheelchair accessible W.C. facility or approved equivalent. .	4	Item		
	Kitchen sink				
B	Double Bowl Double Drainer sink size 1800x600mm with bowl size 420x355x150mm deep made out of 18/8 stainless steel complete with: 2No. mixers with overarm swivel outlet, 2No. sink wastes with 70mm diameter flanges 45mm shanks with brackets, plugs and chains including 2No. P-traps. Sink shall be as "FRANKE stainless steel sink" or approved equivalent	4	No.		
C	**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.	24	No.		
	Sub-Total c/f to Next Page				

	PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A)-MECHANICAL INSTALLATION WORKS				
Item	**Description**	**Qty**	**Unit**	**Rate (KShs)**	**Amount (KShs)**
	Sub-Total b/f from the previous Page				
A	**Toilet Brush and Holder**				
	Wall mounted toilet brush holder and brush of approved colour as Ideal Standard or approved equivalent.	24	No.		
B	**Mirror**				
	6mm thick polished plate glass silver backed mirror with bevelled edges, size 610 x 610mm, Plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam	28	No		
C	**Soap Dish**				
	Semi recessed built in soap tray in vitreous china of size: 150 x 150mm in approved colour as Ideal Standard Model Cassara Cat No.109.000.09 or equal and approved.	3	No		
D	**Shower head**				
	Chrome plated shower arm for overhead shower. To be as tapis or approved equivalent.	3	No.		
E	**Towel Rail**				
	Fully recessed toilet roll holder in Vitreous China of size 165 x 165mm in approved colour as **Twyfords** or equal and approved.	3	No.		
F	**Bip Tap**				
	25mm cross head bib tap with a back inlet and basin tap flow regulator of 6 litres/minute. Tap to have chrome plated finish. To be as Dali accessories/Duravit, Durastyle	8	No		
G	**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.	3	No.		
	Sub-Total c/f to Next Page				

	PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A)-MECHANICAL INSTALLATION WORKS				
Item	**Description**	**Qty**	**Unit**	**Rate (Kshs)**	**Amount (Kshs)**
	Sub-Total b/f from Previous Page				
	INTERNAL PLUMBING				
	Supply, deliver and install Polypropylene Random (PP-R) 20 pipework to DIN 8077 with joints, couplings, reducers, tees, adaptors, pipe fixing clips etc all to DIN 16962 and DIN 16928 .Pipe jointing shall be by polyfusion or use of electric coupling. Where pipework is not chased proper anchoring using approved fixtures shall be done. No pipework shall be left exposed to the sun. Rates must allow for all Metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, support raceways, isolating sheaths, elastic materials, expansion arms and bends, crossovers, couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory				
	PPR PIPES				
A	25mm dia. Pipe cased in walls/floors and in duct	50	Lm		
B	32mm Ditto	30	Lm		
C	40mm Ditto	30	Lm		
D	50mm Ditto	50	Lm		
	Extra-over				
	90° Bend				
E	25mm diameter bend	25	No.		
F	32mm Ditto	15	No.		
G	40mm Ditto	10	No.		
H	50mm Ditto	10	No.		
	Equal Tees				
I	25mm diameter equal tee	25	No.		
J	32mm Ditto	15	No.		
K	40mm Ditto	10	No.		
L	50mm Ditto	10	No.		
M	25x1/2" male threaded tee	20	No.		
N	25mm diameter medium pressure screw down full way non rising stem wedge gate valve with wheel and head joint to steel tubing,as' Pegler' or approved equivalent.	12	No.		
O	40mm ditto	3	No.		
P	32mm ditto	2	No.		
Q	50mmditto	6	No.		
	Sub-Total c/f to Next Page				

	PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A)-MECHANICAL INSTALLATION WORKS				
Item	**Description**	**Qty**	**Unit**	**Rate (Kshs)**	**Amount (Kshs)**
	Sub-Total b/f from previous Page				
	INTERNAL DRAINAGE				
	Supply, deliver and fix the following uPVC soil andwaste systems to BS4514 and 5225 with fittings fixed in accordance to the manufactureres printed instructions and BS 5572 and manufactured by 'KEY TERRAIN' as described. Pipe work shall be Medium grade (Class D). All UPVC brances, Tees,reducers etc are to be formed in accordance to the manufacturers printed instuction. The installationsto have the various sizes of connectors, adaptors,sockets, reducers holdbats, clips etc as required for satisfactory functions.Prices for pipework shall include the cost for couplings, connectors and jointing to fittings appliances etc				
	UPVC and muPVC pipe work				
A	100mm heavy duty golden brown pipe class D				
B	150mm heavy duty grey pipe class D				
B	100mm heavy duty grey pipe class D				
C	50mm ditto				
D	40mm ditto				
E	32mm ditto				
F	Extra over UPVC and muPVC pipework				
	Bends				
J	50mm diameter sweep bend				
K	40mm Ditto				
L	32mm Ditto				
M	50mm 45˚ Bend				
N	40mm 45˚ Bend				
O	32mm Ditto				
	Sub-Total c/f to Next Page				

	PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A)-MECHANICAL INSTALLATION WORKS				
Item	**Description**	**Qty**	**Unit**	**Rate (Kshs)**	**Amount (Kshs)**
	Sub-Total b/f from Previous Page				
A	W.C. connector Bend				
	Inspection Chamber				
B	Standard 600 x 450 x (600-1000)mm inspection chamber complete with Heavy duty cover as made by FIBERITE or Equivalent.				
	Reducers				
C	40x32mm diameter reducer				
D	50x40mm Ditto.				
	Tees				
E	50mm diameter sweep tees				
F	40mm Ditto.				
G	32mm Ditto.				
	Access cap				
H	50mm ditto				
I	40mm ditto				
J	32mm ditto				
	Weathering Slates and Vent Cowls				
K	100mm diameter vent cowl				
L	100mm diameter weathering slate				
	Gully Trap				
N	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				
	Floor Trap				
O	100 x 50mm diameter floor trap and grating				
	Total for sanitary,plumbing,and Drainage c/f to Collection page				

	PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A)-MECHANICAL INSTALLATION WORKS				
Item	**Description**	**Qty**	**Unit**	**Rate (Kshs)**	**Amount (Kshs)**
	FIRE PROTECTION				
	Portable Fire Extinguishers				
	Supply, deliver, install, test and commission the following portable fire extinguishers and conforming to BS EN 3 / BS 1449.				
A	9 litres water portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.				
B	5 Kg carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.				
C	6kg dry chemical podwer portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.				
D	9" (225mm) manual operated alarm bell (Gong)				
	Fire Blanket				
E	Fire blanket made of cloth woven with pre-asbestos yarn or any other fire proof material and to measure 1800 x 1210 mm. It shall be fitted with special tapes folded so as to offer instantaneous single action to release blanket from storing jacket to BS 1721				
	Fire Notices				
F	Allow for fire signage and fire instructions as directed by the Project Engineer.				
G	Fire exit signs				
H	Allow a sum of KShs 150,000 for Factory visit, inspection and supervision costs related to Mechanical installation works.				
	Total for fire protection c/f to collection Page				

	PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A)-MECHANICAL INSTALLATION WORKS				
Item	**Description**	**Qty**	**Unit**	**Rate (Kshs)**	**Amount (Kshs)**
	Water reticulation and Storage tanks				
	High level water tanks				
A	Supply, deliver and install vertical close end plastic moulded tank of capacity 10,000 litrres and diameter 2550mm x 2450mm high. The tank to be assembled complete with cover and having screwed connections for inlet, outlet, overflow, high pressure ball valve, drain pipes and any other necessary item for its proper functioning. The tank shall be as ROTO Model or approved equivalent.				
B	**TOWER** Design,fabricate and erect 15m high galvanised steel tower suitable to support 2No. 10000 litres water tank ,complete with columns,bracings,walkway platform around the tanks,handdrails,bolts and all materials labor tools and equipment necessary to complete the works				
	Low Level Water Tank				
C	Supply, deliver and install vertical close end plastic moulded tank of capacity 16,000 litrres and diameter 2900mm x 2800mm high.				
	Sub-Total c/f to next page				

	PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A)-MECHANICAL INSTALLATION WORKS				
Item	**Description**	**Qty**	**Unit**	**Rate (Kshs)**	**Amount (Kshs)**
	Sub-Total b/f from Previous Page				**0.00**
A	**Water Booster Pumpset** Automatic electrically driven twin booster pumps with a flow of 3 Cubic meters per hour against a head of 25metres. The pump shall be complete with a pressure vessel and all accessories required for proper and satisfactory operation. the pump to be as "pedrollo model" or approved equivalent. The pumps to be mounted and installed on anti-vibraton platform. Control shall be effected via a pressure switch through a pre-wired control panel which shall give automatic change-over from duty to standby pump within 5 seconds should the duty pump fail to deliver for any reason. The pumpset shall include all non-returns valves, timer, isolating valves and pipe connections. Control panel for the above pumps with contactors, over voltage and under voltage protection relays, MCBs, start/stop push buttons and indicators lights. The controls shall also include a float switch or flow switch for prevention against dry running complete with its cable				
B	Allow a sum of Kshs 140,000 with following specifications: IntelR Core TM i7-1355U, Processor [2], 1TB Solid State Drive [3] 16GB on-board DDR4 SDRAM, No Optical Drive Windows 11 [67], Touchscreen, Multi-touch enabled, 3-cell, 43 Wh [63], 14.0″ FHD IPS LED Display (250 nits) [4]				
C	Allow for setting to work, testing and commissioning of the whole system to the satisfaction of the Engineer.				
D	Allow a sum of Kshs 50,000. for generation of design drawings, working drawings, as build drawings				
	Total for external water recticulation c/f to collection Page				

	PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A)-MECHANICAL INSTALLATION WORKS				
Item	**Description**	**Qty**	**Unit**	**Rate (Kshs)**	**Amount (Kshs)**
	AIR CONDITIONING SPLIT AC SYSTEM				
A	Supply , Installation, testing and commissioning, upon approval of working drawings, of the following items. NB: Outdoor units shall be mounted on external walls.The indoor unit shall be High Wall type air-cooling unit of capacity 7.1KW (24,000 Btu/hr). The air conditioning unit shall be supplied complete with room thermometer, room thermostat controls and remote control device. It shall charged with R410A refrigerant or any other non ozone depleting refrigerant. The unit shall be such that if the power supply goes off, it will start automatically after power is restored with three minute delay. The outdoor unit shall have matching	No			
	Refrigeration Pipework				
B	Refrigeration liquid line pipework including 25mm Amaflex insulation.	LM			
C	Refrigeration gas line pipework including 25mm Amaflex insulation.	LM			
	Refrigerant				
D	Allow R410A refrigerant for charging air conditioning system.	Item			
	Drain				
E	25mm PVC condensate drainage pipework, class D, including bends, clips, joints and tees in the running lengths of the pipe.	LM			
	Surge Protector				
F	Power surge protector as Solatek to suite or equal and approved.	No			
	Sub-Total c/f to next page				

	PROPOSED ADMINISTRATION BLOCKS FOR DEPUTY COUNTY COMMISSIONER'S OFFICE KANDARA SUBCOUNTY (MURANG'A)-MECHANICAL INSTALLATION WORKS				
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Sub-Total b/f from Previous Page				-
	Mounting Bracket				
B	Mounting bracket for the outdoor unit complete with a cage and provided with purpose-made protective steel iron angle frame and all other anchoring accessories including rawl bolts and anti-vibration rubber mountings to engineer's approval	Item			
	Wall Mounted Wired Remote Controller				
C	Fully wired wall mounted remote controller panel, wiring and conduit works including but not limited to interconnecting cable between the outdoor and indoor units.	No			
	Trunking				
D	75x50mm approved PVC trunking for concealing the refrigerant pipework.	No			
	Total for air conditioning c/f to collection Page				

	COLLECTION PAGE	
Item	**Description**	**Amount(Ksh)**
1	**Total for sanitary,plumbing,and Drainage**	
2	**Fire protection**	
3	**Total for external water recticulation**	
4	**Total for air conditioning**	
5	**Allow a sum of KShs 800,000 as a contingency for Mechanical works**	
Total Cost for Mechanical works carried foward to the Grand Summary Summary Page		

Amount of Tender in Words: .....
.....

Tenderer's Signature: ..... Date: .....

Postal Address: .....

Date .....

Witness: ..... Date: .....

Signature: ..... Address: .....

SECTION NO. 12

PROVISIONAL SUMS

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	PROVISIONAL SUMS				
A	Allow a Provisional sum for Contingencies to be Expended at the Project Manager's Discretion		ITEM		
B	Allow a provisional sum for branding and other artistic works		ITEM		
C	Allow a provisional sum for soft landscaping works (Flower beds , Grass cover and small trees)		ITEM		
D	Allow a provisional sum for civil works (Drive ways and storm water drainage)		ITEM		
	PROVISIONAL SUMS CARRIED TO GRAND SUMMARY				

SECTION NO. 13

GRAND SUMMARY

PROPOSED KANDARA DCC OFFICE BLOCK AT KANDARA SUBCOUNTY HEADQUARTERS

ITEM	DESCRIPTION	PAGE	TENDER AMOUNT (KSH)	FOR OFFICIAL USE ONLY
1	**PRELIMINARIES**			
1.1	PARTICULAR PRELIMINARIES	PP/6		
1.2	GENERAL PRELIMINARIES	GP/10		
2	**BUILDERS WORKS**			
2.1	GROUND FLOOR	GF/14		
2.2	FIRST FLOOR	F.F/11		
2.2	SECOND FLOOR	SF/11		
2.3	THIRD FLOOR	TF/11		
3	**EXTERNAL WORKS**			
3.1	SEPTIC TANK	ST/2		
3.2	BOUNDARY WALL	PW/5		
3.3	GATE HOUSE	G/H/8		
3.4	POWER HOUSE	PH/13		
4	**BUILDING SERVICES**			
4.1	ELECTRICAL WORKS	EW/52		
4.2	MECHANICAL WORKS	MW/13		
5	**PRIME COST & PROVISIONAL SUMS**			
5.1	PROVISIONAL SUMS	P.C/1		
	GRAND TOTAL CARRIED TO FORM OF TENDER (V.A.T. inclusive)	**KSH**		

Amount of tender in words:

……

……...

Tenderer's signature and stamp……

Address……..……..

Date……

Witness: …… Date: ……

Signature: …… Address: ……