

LOT III

**PROPOSED REPLACEMENT OF LOW VOLTAGE BOARD, RISER BOARD AND ASSOCIATED WORKS AT
ELECTRICITY HOUSE KISUMU.**

	BILL No. 1	Shs.
A	<p align="center">PRELIMINARIES</p> <p><u>PRELIMINARY PARTICULARS</u></p> <p><u>NAME OF PARTIES</u></p> <p>The "Employer" is : Kenya Power & Lighting Co. Ltd P.O. Box 30099 - 00100 <u>NAIROBI</u></p> <p>The term "Employer" and "Kenya Power" and "Kenya Power & Lighting Co. Ltd" wherever used in the contract document shall be synonymous</p> <p>The "Project Manager" is : The Manager, Administration & Property, HR& Administration Kenya Power & Lighting Co. Ltd P.O. Box 30099 - 00101 <u>NAIROBI</u></p> <p>The "Project Officer" is : The Kenya Power Projects Officer Administration & Property, HR& Administration Kenya Power & Lighting Co. Ltd P.O. Box 30099 - 00101 <u>NAIROBI</u></p> <p>The "Project Quantity Surveyor" is The Kenya Power Quantity Surveyor, Administration & Property, HR& Administration Kenya Power & Lighting Co. Ltd P.O. Box 30099 - 00101 <u>NAIROBI</u></p>	
	<p><u>DESCRIPTION OF SITE</u></p> <p>The site is located within Kisumu CBD along New station road off Oginga Odinga road. All access roads are tarmacked.</p> <p>The Contractor shall visit the Site to acquaint himself with its nature and position, the nature of the ground, substructure and other local conditions, position of power and water supplies, access roads or any other limitations, and no claims for extras will be considered on account of lack of knowledge in this respect.</p> <p>The Contractor must obtain the Project Manager's approval for the siting of temporary buildings, spoils heaps and directions regarding the use of any materials found on the site.</p>	
	<p><u>ACCESS TO SITE</u></p> <p>Access to site shall be as directed by the Project Manager. The Contractor shall strictly observe National police service, NTSA and County Government of Nairobi regulations regarding traffic movement.</p>	
	<p>Preliminaries Carried to collectio KShs.</p>	

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A	<p><u>WORKING AND STORAGE SPACE</u></p> <p>Working and storage space will be confined to the area designated by the Project Manager within the site.</p>		
B	<p><u>WORKING HOURS</u></p> <p>The Work must be carried out to cause the minimum inconvenience to the occupants of the adjoining premises. In particular, no hammering, mechanical drilling or other unduly noisy work may be commenced before 8.00 a.m. or continued after 6.00 p.m. without prior approval of the Project Manager.</p>		
C	<p><u>DESCRIPTION OF THE WORKS</u></p> <p>Works shall generally consist of :-</p> <ul style="list-style-type: none"> a) Replacement of existing LV board , Riser board and associated works b) Recabling and wiring to Ganset and reset of change over. c) Tenant metering d) Supply and installation of fireman switch. e) Water pump automation f) Indoor lighting control g) Installation of out door security lights. h) KPLC LOGO repair. j) Supply , install , Test and Commissioning of DBS k) Supply and installation of clean power to Data cabinets. l) Earthing m) Builders works in connection to the electrical installation. 		
D	<p><u>APPROVAL OF THE DRAWINGS</u></p> <p>The contractor will provide proposed certified working drawings to be prepared with full site understanding as to how the existing cables will be terminated into the proposed positions of the various outgoing circuite breakers.</p> <p>The Contractor shall furnish 3 copies of the drawing within the first three weeks of site take over and before work commences to the Project Manager for his approval or rejection, Such approved drawings 2 copies shall be filed and kept on site and one copy to project managers office.</p>		
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	<u>GENERAL MATTERS</u>	
A	<u>SUFFICIENCY OF TENDER</u> The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his rates and prices stated in the Priced Bills of Quantities, which rates and prices shall cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the Works.	
B	<u>STAMP CHARGES</u> The Contractor shall allow for the payment of all Stamp Charges in connection with the Surety and Contract Agreement.	
C	<u>DEFINITIONS AND ABBREVIATIONS</u> Terms used in these Bills of Quantities shall be interpreted as follows: <p>"Approved" Shall mean approved by the Project Manager.</p> <p>"as directed" Shall mean as directed by the Project Manager.</p> <p>"B.S." Shall mean the current British Standard specifications published by the British Standards Institution, 2 Park Street, London W.I., England.</p> <p>"CM." Shall mean Cubic Metres.</p> <p>"SM." Shall mean Square Metres.</p> <p>"LM." Shall mean Linear Metres.</p> <p>"MM" Shall mean Millimetres.</p> <p>"KG." Shall mean Kilogramme.</p> <p>"NO." Shall mean Number.</p> <p>"M.S" Shall mean Measured Separately</p> <p>PRS or Prs Shall mean Pairs</p> <p>a.b.d Shall mean as before described</p> <p>Ditto or Do Shall mean the whole of the preceding description except as qualified in the description in which it occurs</p> <p>NTSA Shall mean National Transport & Safety Authority</p> <p>NPS National police service</p>	
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A	<p><u>PROGRESS SCHEDULE</u></p> <p>The Contractor shall, upon receiving instructions to proceed with the Work, draw up a time and progress Schedule setting out the order in which the Works are to be carried out with the appropriate dates thereof. This Time and Progress schedule is to be agreed with the Project Manager and no deviation from the order set out in this Schedule will be permitted without the written consent of the Project Manager. The Main Contractor will be responsible for arranging the above programme with all Sub-Contractors including the Nominated Sub-Contractors and Nominated Suppliers.</p>	
B	<p><u>FIGURED DIMENSIONS</u></p> <p>Figured dimensions are to be followed in preference to dimensions scaled from the Drawings; but wherever possible dimensions are to be taken on the Site or from the Buildings. Before any Work is commenced by Sub-Contractors or Specialist Firms, dimensions must be checked on the Site and/or buildings and agreed with the Contractor, irrespective of the comparable dimensions shown on the Drawings. The Contractor shall be responsible for the accuracy of such dimensions.</p>	
C	<p><u>PROVISIONAL WORK</u></p> <p>All "Provisional" and other work liable to adjustment under this Contract shall be left uncovered for a reasonable time to allow all measurements needed for such adjustment to be taken by the Quantity Surveyor. Immediately the work is ready for measurement, the Contractor shall give notice to the Quantity Surveyor.</p> <p>If the Contractor makes default in these respects he shall, if the Project Manager so directs, uncover the work at his own expense to enable the measurements to be taken.</p>	
D	<p><u>EXISTING SERVICES</u></p> <p>Prior to commencement of any work the Contractor is to ascertain from the relevant Authorities the exact position, depth and level of all existing electric cables, water pipes or other services in the area and he shall make whatever provisions may be required by the Authorities concerned for the support and protection of such services. Any damage or disturbance caused to any services shall be reported immediately to the Project Manager and the relevant Authority and shall be made good to their satisfaction at the Contractor's expense.</p>	
E	<p><u>TRANSPORT TO AND FROM THE SITE</u></p> <p>The Contractor shall include in his prices for the transport of materials workmen, etc., to and from the Site of the Proposed Works, at such hours and by such routes and vehicles as are permitted by the Authorities and in particular by the Transport Licensing Board and / or the National Transport & Safety Authority.</p>	
F	<p><u>PUBLIC AND PRIVATE ROADS, PAVEMENTS, ETC</u></p> <p>The Contractor will be required to make good, at his own expense any damage he may cause to the present road surfaces and pavements within or beyond the boundary of the Site, during the period of the Works. In particular, all existing trees, shrubs, plants. etc., which may be destroyed or damaged during the progress of the Works are to be made good by the Contractor to the approval of the Project Manager.</p>	
	<p>Preliminaries</p> <p>Carried to collectio</p> <p>KShs.</p>	

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A	<p><u>POLICE REGULATIONS</u></p> <p>The Contractor is to allow for complying with all instructions and regulations of the police Authorities.</p>	
B	<p><u>ENVIRONMENTAL REGULATIONS</u></p> <p>The Contractor shall observe all the requirements of the National Environment Management Authority (NEMA) and especially those conditions given in the Project's Environmental Impact Assessment Report Approval by NEMA. The shall collaborate with the Environmental Impact Assessment (EIA) expert to ensure that , proposed mitigation measures are adhered to during construction phase and where necessary appropriate mending up activities undertaken and the same reported back to NEMA as required.</p> <p>In particular the Contractor shall give special emphasis to control dust. The contractor shall provide all necessary dust screens to prevent dust from the construction works affecting neighbouring property. The dust screens shall be approved by the Project mgr and be acceptable to NEMA officials. The Contractor shall also control dust on site by appropriate watering of the sources of dust.</p> <p>The Contractor shall put emphasis on controlling noise, vibrations and occupational hazards. The provisions of the Occupational Safety and Health Act No. 15 of 2007 must be strictly observed.</p>	
C	<p><u>CONTRACTORS' SUPERINTENDENCE</u></p> <p>The Contractor shall constantly keep on the Works a literate English-speaking Agent or Representative, competent, NCA accredited and experienced in the kind of work involved, who shall give his whole time to the superintendence of the Works. Such Agent or Representative shall receive on behalf of the Contractor, directions and instructions from the Project Manager and such directions and instructions shall be deemed given to the Contractor in accordance with the conditions of the Contract. The Agent shall not be replaced without the specific approval of the Project Manager.</p> <p>It is to be a specific condition of this Contract that the successful Tenderer shall provide on Site throughout the period of construction until the Date for Practical completion a suitably qualified, experienced and competent person to ensure that the works are carried out to the standard required by the specification and detailed on the Drawings; and shall ensure that upon any termination of employment a suitable replacement is found.</p> <p>Such site superrintendent shall have a National Construction Authority's accreditation.</p> <p>Before the Tenderer's offer is accepted the Project Manager may personally interview the Contractor's proposed Representative.</p> <p>A curriculum vitae of past experience and qualifications must be provided for the Project Manager's scrutiny.</p> <p>The Project Manager's decision will be final regarding the suitability of the proposed Representative.</p>	
D	<p><u>WATER</u></p> <p>All water shall be fresh, clean and pure, free from earthy, vegetable or organic mater, acid or alkaline substances in solution or suspension.</p> <p>The Contractor shall provide at his own risk and cost all water for use in connection with the Works (including the work of Sub-Contractors). The Contractor shall provide at his own expense all temporary distribution pipes, storage tanks, metres, etc., and he shall clear away same upon completion of the Works.</p>	
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A	<p><u>LIGHTING AND POWER</u></p> <p>The Contractor shall provide at his own risk and cost all artificial lighting and power for use on the Works, including all Sub-Contractors' and Specialists' requirements and including all temporary connections, wiring, fittings, etc., and clearing away on completion. The Contractor shall pay all fees and obtain all permits in connection therewith.</p>	
B	<p><u>SAFETY</u></p> <p>The Contractor shall comply at all times with the requirements of the Factory Act (Cap 514), Building Construction Rules, Supplement 18, Legal Notice No.40 dated April, 1984 and ensure that the safety of his workpeople and authorised visitors to the Site is protected at all times. In particular there shall be proper provision of planked footways and guard-rails to scaffolding, etc., protection against falling materials and tools and the Site shall be tidy and clear of dangerous rubbish.</p> <p>The Contractor shall appoint a safety officer as required by the Factory Act and notify the Factory Inspector of his name. the safety Officer shall be on Site at all times and all directions given by the Project Manager to the Safety Officer shall be deemed to be Project Manager's Instructions, and shall be complied with promptly without additional cost to the contract.</p> <p>Occupational Safety and Health Act no. 15 of 2007 must also be complied with.</p> <p>The Project Manager shall be empowered to suspend work on the Site should he consider these conditions are not being observed, and no claim arising from such suspension will be allowed.</p>	
C	<p><u>PROTECTIVE CLOTHING</u></p> <p>The Contractor shall provide all protective or any other special clothing or equipment for his employees that may be necessary.</p> <p>This shall include, inter-alia, safety helmets, gloves, goggles, earmuffs, gumboots, overalls, etc., according to the type of work. The Contractor shall ensure that safety helmets are worn by all staff at all times.</p>	
D	<p><u>PROVISIONAL SUMS</u></p> <p>The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A Item A7(i) of the Standard Method of measurements. Such sums are net and no addition shall be made to them for profit.</p>	
E	<p><u>ADJUSTMENT OF PROVISIONAL SUMS</u></p> <p>In the final account all provisional sums shall be deducted and the value of the work properly executed in respect of them upon the Project Manager's order added to the contract sum. Such work shall be valued as described for variations in variation clause of the conditions of contract, but should any articles for the work be executed by a Nominated Sub-Contractor, or any articles for the work be supplied by a Nominated Supplier, the Value of such work or articles shall be treated as a P.C. sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added.</p>	
F	<p><u>PRIME COST (OR P.C.) SUMS</u></p> <p>The term "Prime Cost Sum" or "P.C. Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7(ii) of the Standard Method of Measurements.</p> <p>Persons or firms Nominated to execute the work or to provide and fix materials or goods as stated in the Conditions of Contract are described herein as Nominated Sub-Contractors. Persons or firms so nominated to supply goods or materials are described as Nominated suppliers.</p>	
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A	<p><u>ADJUSTMENT OF P.C. SUMS</u></p> <p>In the final account all P.C. sums shall be deducted and the amount properly expended upon the Project Manager's order in respect of each of them added to the contract sum. The Contractor shall produce to the Project Manager such quotation, invoices or bills properly receipted as may be necessary to show the actual details of the sums paid by the contractor.</p> <p>Items of profit upon P.C. sums shall be adjusted in the final account prorata to the amount paid.</p> <p>Items of Attendance following P.C. Sums shall be adjusted prorata to the physical extent of the work executed (not prorata to the amount paid) and this shall apply though the Contractor's Bills shows a percentage in the rate column in respect of them.</p> <p>Should the Contractor be permitted to tender and his tender be accepted for any work which a P.C. sum is included in these Bills of Quantities, profit and attendance will be allowed at the same rate as it would if the work were executed by a Nominated Sub-Contractor.</p>	
B	<p><u>NOMINATED SUB-CONTRACTORS</u></p> <p>When any work is ordered by the PROJECT MANAGER to be executed by nominated sub-contractors, the Contractor shall enter into subcontracts and shall thereafter be responsible for such sub-contractors in every respect. Unless otherwise described the Contractor is to provide for such Sub-Contractors any or all of the facilities described in these Preliminaries. The Contractor should price for these with the nominated Sub-contract Contractor's work concerned in the P.C. Sums under the description "add for Attendance</p> <p><u>MATERIALS AND WORKMANSHIP</u></p>	
C	<p><u>GENERALLY</u></p> <p>All materials shall be new unless otherwise directed or permitted by the Project Manager and in all cases where the quality of goods or materials is not described or otherwise specified, is to be the best quality obtainable in the ordinary meaning of the word "best" and not merely a trade signification of that word.</p> <p>All materials and workmanship shall, unless otherwise specified or described, conform to the appropriate British Standard Institution specification current at the date of tender.</p> <p>The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that such materials are on Site when required for use in the Works.</p> <p>The Contractor shall be responsible for and shall replace or make good at his own expense any materials lost or damaged.</p> <p>The Works throughout shall be executed by skilled workmen well versed in their respective trades.</p>	
D	<p><u>REJECTED WORKMANSHIP OR MATERIALS</u></p> <p>Any workmanship or materials not complying with the specific requirements or approved samples or which have been damaged, contaminated or have deteriorated, must immediately be removed from the Site and replaced at the Contractor's expense, as required.</p>	
	<p>Preliminaries</p> <p>Carried to collectio</p> <p>KShs.</p>	

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A	<p><u>PROGRAM OF WORKS</u></p> <p>The Contractor shall allow in his programme for the following 11 public holidays per calendar year in Kenya.</p> <ol style="list-style-type: none"> 1. New Year's Day (1st January) 2. Good Friday 3. Easter Monday 4. Labour Day (1st May) 5. Madaraka Day (1st June) 6. Idd Ul Fitr 7. "Utamaduni" Day (10th October) 8. Mashujaa Day (20th October) 9. Jamhuri day (12th December) 10. Christmas Day (25th December) 11. Boxing Day (26th December) <p>The Contractor should also allow per calendar year for a further 2 unspecified public holidays which may be announced by the Government of Kenya with no prior notification.</p>	
B	<p><u>MINISTRY OF HEALTH REGULATIONS</u></p> <p>The Contractor shall adhere to the interim guidelines and protocols for SARS-CoV 2 and COVID 19 which were developed in response to the new Coronavirus Disease 2019. The adherence to these guidelines shall include any periodical updated guidelines by the said MoH - Kenya.</p>	
	<p><u>TEMPORARY WORKS</u></p>	
C	<p><u>OFFICE AND SHEDS</u></p> <p>The Contractor shall erect and maintain temporary office accommodation for his own use, and ample temporary watertight sheds for the proper storage and protection of materials and for the use of artisans and remove when ordered. Floors of sheds shall be at least 150mm above ground level.</p>	
C	<p><u>SANITATION</u></p> <p>The Contractor shall provide the necessary sanitation for his staff and workmen to the requirements and satisfaction of the Health Authorities and maintain the same in a thoroughly clean and sanitary condition and pay all conservancy fees during the period of the Works and remove when no longer required.</p>	
D	<p><u>SECURITY</u></p> <p>The Contractor shall be responsible for the security of the works in every respect and in particular it shall be the Contractor's responsibility to ensure that each of his workers security is guaranteed while working on the site and in such manner as is acceptable by KPLC.</p> <p>The Contractor shall also accept liability for and bear the cost of failure to provide security for the works and workers as per the conditions of this contract once entered into.</p>	
	<p>Preliminaries</p>	
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A	<p><u>ALTERATIONS TO BILLS, PRICING, ETC.</u></p> <p>Any unauthorised alteration or qualification made to the text of the Bills of Quantities may cause the Tender to be disqualified and will in any case be ignored. The Contractor shall be deemed to have made allowance in his prices generally to cover any items against which no price has been inserted in the priced Bills of Quantities. All items of measured work shall be priced in detail and the Tenders containing Lump Sums to cover trades or groups of work must be broken down to show the price of each item before they will be accepted.</p>	
B	<p><u>PLANT, TOOLS AND SCAFFOLDING</u></p> <p>The Contractor shall provide all necessary hoists, tackle, plant, vehicles, tools and appliances of every description for the due and satisfactory completion of the works and shall remove same on completion.</p> <p>The Contractor shall provide, erect and maintain all temporary scaffolding, sufficiently strong and efficient for the due performance of the Works, including Sub-Contract works, provide special scaffolding as and when required during the Works and remove on completion and make good.</p> <p>Such scaffolding shall be constructed of tubular steel or timber of sufficient scantlings and be provided with planked footways and guard-rails to approval.</p> <p>All such plant, tools and scaffolding shall comply with all regulations whether general or local, in force throughout the period of the contract and shall be altered or adapted during the Contract as may be necessary to comply with any amendments in or additions to such regulations.</p> <p>Scaffolding is not measured hereinafter, and the Contractor must allow here.</p>	
C	<p><u>EXISTING AND ADJACENT PROPERTY</u></p> <p>The Contractor must take all steps necessary to safeguard existing and adjacent property, make good at his own expense any damage to persons or property caused thereon, and hold the Employer indemnified against any such claim arising.</p> <p>The Contractor will be held fully responsible for the safety of the existing and adjacent buildings and for any damage caused in consequence of these Works. He must reinstate all damage at his own expense and indemnify the Employer against any loss.</p> <p>The Contractor must take such steps and exercise such care and diligence as to minimise nuisance from dust, noise or any other cause to the occupiers of the existing and adjacent property.</p>	
D	<p><u>LABOUR CAMPS</u></p> <p>No labour camps, with the exception of watchmen may be housed on the site and the Contractor shall allow for all transport and other charges in moving labour to and from site at such hours and by such routes as are permitted by the Authorities.</p> <p>The Contractor shall provide, erect and maintain satisfactory housing for the watchmen and shall remove same on completion of the works.</p>	
	<p>Preliminaries</p> <p>Carried to collection</p> <p>KShs.</p>	

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A	<p><u>INSURANCE</u></p> <p>The Contractor shall insure as required in the Conditions of Contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the PROJECT MANAGER either by production of an Insurance Policy or and Insurance Certificate that the provision of the foregoing Insurance Clauses have been complied with in all respects. Thereafter the PROJECT MANAGER shall from time to time ascertain that premiums are duly paid up by the Contractor who shall if called upon to do so, produce the receipted premium renewals for the PROJECT MANAGER's inspection.</p>	Shs.
B	<p><u>HOARDING</u></p> <p>The contractor shall enclose the site either wholly or in parts with a holding 2.40 metres high with openings and gates as required, constructed of substantial timbers to approval and covered with new Galvanised iron corrugated sheeting painted to approval.</p>	
C	<p><u>TEMPORARY ROADS</u></p> <p>The Contractor shall provide where directed all temporary access roads, tracks and paths necessary for the execution of the Works, including making good when no longer in use.</p>	
D	<p><u>SIGNBOARD</u></p> <p>The Signboard and lettering on same for the display of the General and Sub-Contractor's names shall be of an approved size with the Employer's name painted there on.</p> <p>The Project Manager's name shall be printed in letters not exceeding 100mm in height all to the Project Manager's design. No other signboard or advertising will be permitted.</p>	
	<p>Preliminaries</p> <p>Carried to collectio</p> <p>KShs.</p>	

	<p><u>NOMINATED SUB-CONTRACTORS AND SUPPLIERS</u></p> <p><u>NOMINATED SUB-CONTRACTORS</u></p> <p>The Contractor shall be responsible for Nominated Sub-Contractors in every respect and in particular it shall be the contractor 's responsibility to ensure that each Sub- Contractor commences and completes the works in such manner and is ready on the Site with his materials , labour and special plant at such times so as to conform with the progress Schedule, as specified previously, and so ensure satisfactory progress.</p> <p>The Contractor shall also accept liability for and bear the cost of General Attendance on Nominated Sub- Contractors which shall be deemed to for:</p> <p>Allowing the use of standing scaffolding, maintenance and alteration of all scaffolding, retention of all scaffolding until such times as all relevant Sub Contractors' works are complete and removal of all scaffolding on completion. Providing space for office accommodation, and for storage of plant and materials; allowing use of sanitary accommodation; the supply of all necessary water, and lighting; and clearing away all rubbish.</p> <p>The items for "General Attendance" given herein-after following P.C. Sums in respect of Sub-Contractors' work shall be deemed to include all the above.</p> <p>The Contractor shall also accept liability for and bear the cost of Special Attendance on Nominated Sub-Contractors which shall include for one or more of the following:</p> <p>Unloading, storing, hoisting, placing in position, providing power, provision of special scaffolding.</p> <p>The items of "Special Attendance" given herein-after following P.C. Sums shall include any one or more of the above items as set out in the particular reference.</p> <p>Cutting away for and making good after the work of Sub-Contractors as may be required will be measured and valued separately by the Surveyor.</p> <p><u>NOMINATED SUPPLIERS</u></p> <p>Cost or Provisional Sums shall include for taking delivery where directed, checking with invoices or indents, reporting and claiming damages for shortages and damaged goods, defraying demurrage signing for as having been received in good order, transporting, unloading, storing, covering and protecting until the time of fixing, unpacking, replacing anything lost or damaged, sorting, assembling, hoisting to required levels and fixing as described.</p> <p>Before placing any orders with Nominated Sub-Contractors or Nominated Suppliers the Contractors must ascertain that the terms and conditions of the quotations and the dates of delivery of materials or execution of works comply with the terms of Contract and the Progress Schedule.</p>	<p>Shs.</p>
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	<p>Preliminaries</p> <p>Carried to collectio</p> <p>KShs.</p>	

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A	<p><u>PRIME COST RATES</u></p> <p>Where description of items include a P.C. rate per unit this rate is to cover the nett supply of the unit only. The Contractor's price must include for the cost of the unit at the rate stated, plus waste, taking delivery, storage, fixing in position, profit and overheads.</p> <p>The actual nett cost per unit will be adjusted within the Final Account</p>	
B	<p><u>PROTECTION</u></p> <p>The Contractor shall cover up and protect from damage, including damage from inclement weather, all finished work existing power equipment and unfixed materials, including that of Sub-Contractors, etc., to the satisfaction of the Project Manager until the completion of the Contract, and carefully preserve all trees or bushes on or near the Site.</p>	
C	<p><u>CLEANING</u></p> <p>The Contractor shall, upon completing of the Works, at his own expense, remove and clear away all surplus excavated materials, plant, rubbish and unused materials and shall leave the whole of the Site and Works in a clean and tidy state to the satisfaction of the Project Manager, including clearing away and making good all traces of temporary access roads, offices, sheds camps, etc. Particular care shall be taken to leave clean all floors and windows and to remove all rubbish and dirt as it accumulates. The Contractor is to find his own dump and shall pay all charges in connection therewith.</p>	
D	<p><u>TRAINING LEVY</u></p> <p>The Contractor's attention is drawn to legal Notice No. 237 of October, 1971, which requires payment by the Contractor of Training Levy on all Contracts of more than 50,000/- in value and his Tender must include for all costs arising therefrom.</p>	
E	<p><u>STANDARD LEVY (STANDARDS ACT- CAP 496)</u></p> <p>The Contractor's attention is drawn to legal Notice No. 267 of 2nd June, 1990 which requires payment by the Contractor of the Standards Levy at a rate of 0.2% of the contract sum less allocation for prime cost sums and provisional sums, subject to a ceiling of KShs. 400,000.00 per annum. The Contractor must therefore include for all costs (if any) arising or resulting therefrom.</p>	
F	<p><u>NATIONAL CONSTRUCTION AUTHORITY LEVY (NCA)</u></p> <p>The contractor shall comply with all necessary National Construction Authority Act requirements including NCA levy. No claims for failure to comply with the NCA act will be entertained.</p>	
G	<p><u>DEVELOPMENT APPROVALS</u></p> <p>The contractor shall allow for all necessary county government permits & approvals with regard to these works. No claim for failure to comply with county governments requirements shall be entertained.</p>	
H	<p>Allow for all necessary permits/approvals by the County Government of Kisumu.</p> <p><u>VALUE ADDED TAX</u></p> <p>The Contractor's attention is drawn to the Finance Act 1993 and subsequent amendments thereof which requires payment by the Contractor of Value Added Tax (VAT) on construction services rendered. Whether VAT is added at the grand summary page or inclusive in the rates, The tender sum as stated in the form of tender shall be deemed to be inclusive of VAT.</p>	
J	<p><u>BILL OF QUANTITIES SITE COPY</u></p> <p>It shall be a requirement under this contract for the contractor to keep a true and complete copy of the unpriced tender document on site at all times. The contractor shall also be expected to keep in his possession a true and complete copy of the priced tender document.</p>	
	<p>Preliminaries Carried to collectio KShs.</p>	

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<u>COLLECTION</u>		
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"	"	P/13
<u>PRELIMINARIES</u>	<u>TO SUMMARY</u>	<u>KSHS.</u>
Preliminaries	<u>AT END OF BILL</u>	

B09 LOT III

**PROPOSED REPLACEMENT OF LOW VOLTAGE BOARD RISER DISTRIBUTION
BOARDS AND ASSOCIATED BUILDING REPAIRS FOR ELECTRICITY HOUSE
KISUMU.**

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	BILL No. 3 <u>BUILDERS WORKS- PROPOSED BUILDING REPAIR WORKS</u> <u>ELEMENT 1</u> <u>DEMOLITIONS AND ALTERATIONS (All Provisional)</u> <u>The items of demolitions and removal shall include making good disturbed areas to match existing and loading and carting away debris unless otherwise</u>				
A	Carefully remove existing metal door size 1200x2100 mm and preserve the door leaf on site for re-use MS.	1	No		
B	Carefully demolish existing masonry in c/s (1:3) mortar , make good the disturbed works and cart away arising debris.	11	No		
C	Cut and chase the existing reinforced floor slab for provision of cable ducts size 500x400mm (Wxd).	1	cm		
D	Hack the floor surfaces and make good to receive 38mm thick terrazzo finish MS.	25	sm		
E	Carefully remove cable duct wooden flush door leaves size 900x2750mm and allow for transportation to factory lamination and refitting as necessary measured seperately	4	No		
F	E.o cutting an opening 350x350x250mm to block or concrete work for drainage boxing.	2	No		
	TOTAL FOR DEMOLITION AND ALTERATIONS CARRIED TO SUMMARY				

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BW/ 1

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>NEW WORKS</u>				
	<u>ELEMENT No. 2</u>				
	<u>DOORS</u>				
	<u>Mild steel doors</u>				
A	Supply and fix Mild steel door frame 100x50x4mm thick RHS Sections including assembling and fixing to opening cutting and pinning lugs to concrete or block work , one coat metal primer and bedding frame in	7	lm		
B	Take delivery 50mm thick mild steel door double leaf size 1200x2100mm and refix to metal frame item A above as necessary including all matching ironmongery	1	No		
	<u>Wooden doors</u>				
C	Take delivery on site the recovered 25mm thick duct flash doors size 900x2750, factory laminate with water proof material bench in colour (formica or equivalent) internally including; re- lipping, 3No batt hinges M/s and fixing in position to project manager's approval.	4	No		
	<u>Plastic Boxing</u>				
D	Supply, Fabricate, assemble and fix 300mm dia. plastic duct to existing sewer pipes 150mm dia. laid in falls to ceiling soffits including 300mm dia. Saddle clips @ 600mm c/c.	6	lm		
	<u>FINISHES</u>				
	Wall Finish				
	In-situ Finishes				
	Plaster and Render				
D	15mm thick two coats cement sand (1:4) plaster troweled smooth and comprising 12mm thick backing and 3mm finishing coat internally.	6	sm		
E	Ditto ceiling soffit	2	sm		
	Floor Finish				
	In-situ Finishes				
F	38mm thick(24mm thick cement sand (1:3) backing & 15mm thick terrazzo layer polished.	25	sm		
G	20x100mm wide skirting	21			
H	15mm thick two coats cement sand (1:4) plaster troweled smooth and comprising 12mm thick backing and 3mm finishing coat to cable duct.	12	sm		
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>METAL WORKS.</u> <u>PURPOSE - MADE UNITS</u> <u>Mild steel grating assembled and fixed to including</u> <u>cutting and pinning lugs to concrete or block work</u> <u>souround and bedding frame in cement and mortar (1.4)</u> <u>steel gritting comprising 25x25x3mm Angle Line</u> <u>framing and bearing bars @550mm c/c , 25mm dia. High</u> <u>yield steel cross rods @32mm c/c all primed with grey</u> <u>oxide</u>				
A	1000 x550mm (LxW) Mild steel grating in 25x25x3mm Angle sections framing.	5	No		
	<u>PAINTING AND DECORATIONS</u> <u>On Metal work</u> <u>Prepare and apply one under coat (metal primer) and</u> <u>two coats finishing coats (super gloss) to Crown Solo or</u> <u>other equal and approved to: -</u>				
B	General surfaces of metal grating over 300mm girth; both surfaces.	6	sm		
C	Ditto door	20	sm		
D	Ditt to general surfaces n.e 100mm girth grating frames	12	lm		
	<u>On plastered surfaces</u> <u>Prepare and apply one under coat (matt) and two coats</u> <u>finishing coats (silk vinyl) to Crown Solo or other equal</u> <u>and approved to: -</u>				
E	To Plastered wall surfaces internally.	218	sm		
F	Matt vinyl paint to ceiling soffits.	196	sm		
	Carried to collection				
	<u>COLLECTION</u> From page BD WRKS./2 From above				
	TOTAL FOR METAL WORKS CARRIED TO SUMMARY				

SUMMARY PAGE.

ELEMENT	DESCRIPTION		PAGE NO.	K.SHS.
1	DEMOLITIONS AND ALTERATIONS		BD WRKS/ 1	
2	NEW WORKS		BD WRKS/ 3	
TOTAL FOR BUILDERS WORKS IN CONNECTION WITH SPECIALISED WORKS CARRIED TO PRIME COST SUM AND PROVISIONAL SUM PAGE 2.				

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BW/ 4

PRIME COSTS & PROVISIONAL SUMS

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PC/1

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMNT
A	<u>Allow the following PROVISIONAL SUM to be expended in whole or in part upon the directions of the PM</u> Contingences Kenya Shillings NINE HUNDRED TWENTY THOUSANDS, SIX HUNDRED THIRTY THREE (KShs. 920,633) only for contingencies. <u>PRIME COST SUMS</u> <u>Allow for the following PRIME COST SUMS for works to be executed by a nominated sub-contractor</u>	1	ITEM	920,633	920,632.50
B	Builders works Kenya Shillings. From builders works carried forward from page BW/4.	1	ITEM		
C	Allow for Attendance	1	ITEM		
D	Allow for profits and over heads		%		
TOTAL FOR PROVISIONAL COST AND PRIME COST CARRIED TO GRAND SUMMARY					

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21/05/2024

PC/2

**PROPOSED REPLACEMENT OF LV BOARD AND RISERS DISTRIBUTION BOARDS AT
ELECTRICITY HOUSE KISUMU**

GRAND SUMMARY

BILL NO.	DESCRIPTION	Page No.	K.SHS.	CTS.
A	Preliminaries	PRELIM/14		
B	Electrical works	E.W/8		
C	Prime cost & Provisional Sum.	PC/2		
D	Sub-Total VAT exclusive			
	ADD 16% VAT			
GRAND TOTAL TENDER SUM (VAT INCLUSIVE)				
<p><u>Amount In Words:</u></p> <p>Kenya Shillings:.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>Name of Contractor:.....</p> <p>Signature:.....</p> <p>Date:.....</p>				

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21/5/2024



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GS/1

BILL No 2

ELECTRICAL WORKS

PRICE SCHEDULE-ELECTRICAL WORKS

CATEGORY B-ELECTRICITY HOUSE KISUMU

ITEM	DESCRIPTION	UNIT	QTY	WARRANTY / DELIVERY SCHEDULE	UNIT PRICE DDP VAT EXCLUSIVE	TOTAL PRICE DDP VAT EXCLUSIVE
LOT 3	SUPPLY & INSTALLATION OF NEW LV BOARD					
A	GENERAL ITEMS					
A/1	Allow for the inspection of the existing LV and meter boards, decommissioning, disconnection of the existing boards and services and handing over to the client with signed delivery note, modifications and replacement of any accessories such as cable glands and lugs etc.	Lot	1			
A/2	Allow for the preparation of all "As Built" drawings after testing and commissioning	Set	3			
A/3	The Tenderer is to describe hereunder inserting any relevant clause number, any other works, obligations or items that may be referred to in the Conditions of Contract, Specification, Drawings or Data Schedule in respect of the works for which he desires to enter a separate charge (this charge is to be entered in the Amount column). If no charge is entered hereunder, rates and amounts elsewhere in the schedule of prices shall be deemed to cover all expenses for such works, obligations or items.	Lot	1			
TOTAL FOR GENERAL ITEMS CARRIED TO SUMMARY						

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21/5/2024

E/W/1

ITEM	DESCRIPTION	UNIT	QTY	WARRANTY / DELIVERY SCHEDULE	UNIT PRICE DDP VAT EXCLUSIVE	TOTAL PRICE DDP VAT EXCLUSIVE
B	ELECTRICAL DISTRIBUTION:					
	Supply, install, test, commission and set to work the following at Basement: -					
B/1	SECTION 1 — SUPPLY TX	PANEL	1			
B/1.1	1000 A TPN draw out type MCCB main incomer (630KVA transformers)	No	1			
B/1.2	415V three-phase surge Protection Device	No	1			
B/1.3	1200A TPN insulated copper bus bars	No	1			
B/1.4	1000A MCCB	No	1			
B/1.5	Set of neon/LED phase presence indicator lamps - All indicators	No	1			
B/1.6	TPN stabilizer bypass switchgear(for 630Kva)	No	1			
B/1.7	Space for 1 No. KPLC TPN cut-out	No	1			
B/1.8	Space for 1 No CT Chambers	No	1			
B/1.9	Space for 1 No. KPLC TPN Meter	No	1			
B/1.10	The spaces to be provided with punched studs for installing Kenya Power's seals.	No	1			
B/1.11	Sufficient cable ways and 20% spare space for any future additions	Lot	1			
TOTAL FOR ELECTRICAL DISTRIBUTION CARRIED TO SUMMARY						

21/5/2024

ITEM	DESCRIPTION	UNIT	QTY	WARRANTY / DELIVERY SCHEDULE	UNIT PRICE DDP VAT EXCLUSIVE	TOTAL PRICE DDP VAT EXCLUSIVE
B/2	SECTION 2 — GENSET	PANEL	1			
B/2.1	1000 A TPN MCCB	No	1			
B/2.2	Digital check meter for Genset	No	1			
B/2.3	Supply three phase CTs	No	1			
B/2.4	Space for 1No. check meter	No	1			
B/2.5	Space for 1 No CT Chambers	No	1			
B/2.6	Set of neon phase presence indicator lamps - All indicators	No	1			
B/3	SECTION 3 — CHANGE OVER (The bidder should ensure compatibility with the existing generator)	PANEL	1			
B/3.1	1000 A 3P Motorized ACB (with Key interlock) refer GTP	No	2			
B/3.2	Automatic Change Over switch (refer GTP)	No	1			
B/3.3	Set of neon phase presence indicator lamps - All indicators	No	1			

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E/W/3

ITEM	DESCRIPTION	UNIT	QTY	WARRANTY /DELIVERY SCHEDULE	UNIT PRICE DDP VAT EXCLUSIVE	TOTAL PRICE DDP VAT EXCLUSIVE
B/4	SECTION 4 — LOAD & PFCU	PANEL	1			
B/4.1	1000Amp MCCB	No	1			
B/4.2	Set of Neon/LED phase presence indicator lamps - All indicators	No	1			
B/4.3	1000Amp TPN insulated copper bus bars	No	1			
B/4.4	200A TPN MCCB, (adjustable in 100 – 250A range)	No	5			
B/4.5	100A TPN MCCB, (adjustable in 80 – 125A range)	No	9			
B/4.6	100A TP change-over for (allow sprinkler board during fire emergencies)	No	1			
B/4.7	Supply and install of 150 kVAR power factor correction capacitor bank in LV Switchboard	Lot	1			
B/4.8	Sufficient cable ways and supply of 1 No. 250 A MCCB and 2 No. 100A MCCBs	No	1			
TOTAL FOR GENSET, CHANGE OVER, LOAD AND PFCU CARRIED TO SUMMARY						

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ITEM	DESCRIPTION	UNIT	QTY	WARRANTY / DELIVERY SCHEDULE	UNIT PRICE DDP VAT EXCLUSIVE	TOTAL PRICE DDP VAT EXCLUSIVE
B/5	SECTION 5: TENANT SUPPLY	PANEL	1			
B/5.1	400 A TPN Busbars	No	2			
B/5.2	400 A TPN MCCB, (adjustable in 250 — 400A range)	No	2			
B/5.3	100 A TPN MCCB, (adjustable in 80 — 100A range)	No	18			
B/5.4	Automatic Change-over Contactor Unit	No	6			
B/5.5	3P digital check meter	No	6			
B/5.6	CTs 3P digital check meter	No	6			
B/5.7	Space for 4No. check meter	No	1			
B/5.8	Space for 6No. KPLC TPN Meter	Lot	1			
B/5.9	Space for 6No. KPLC cut outs	Lot	1			
B/5.10	Space for 6No. KPLC CT Chambers	Lot	1			
B/6	Carry out load balancing on all phases.	Lot	1			
B/7	Supply and install complete all earthing requirements for the above boards including, inspection pits, rods, tapes etc. all as per the requirements of the technical specifications.	Lot	1			
B/8	Allow for the transfer of all existing circuits to the new main Switchboard. This will involve supply and installation of all necessary cables. Please study the existing arrangement first before pricing this item.	Lot	1			

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ITEM	DESCRIPTION	UNIT	QTY	WARRANTY /DELIVERY SCHEDULE	UNIT PRICE DDP VAT EXCLUSIVE	TOTAL PRICE DDP VAT EXCLUSIVE
	Bidders to do site inspection to ascertain cable requirement before quoting this section.					
B/9	GSM/GPRS module incorporated to send SMS alerts.	Lot	1			
	• Power monitoring (using branch circuit monitor)					
	• Genset low fuel alerts					
	• Operation of changeover					
	• High Temperature alerts					
	• Faults					
	NOTE: You will be required to carry out the configuration to achieve the above					
B/10	Supply and installation of Fireman Switch		1			
	As per drawing or appropriately design to ensure overall safety.					
TOTAL FOR TENANT SUPPLY CARRIED TO SUMMARY						

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21.10.24

E.W/6

ITEM	DESCRIPTION	UNIT	QTY	WARRANTY / DELIVERY SCHEDULE	UNIT PRICE DDP VAT EXCLUSIVE	TOTAL PRICE DDP VAT EXCLUSIVE
C	OTHER WORKS					
C/1	All cables to be secured on appropriate cable trays	Lot	1			
C/2	Supply and install Evacuators fans/units in the LV Switchroom, transformer room and Repair of Woods Industrial Fan (replacing with equivalent motor and fans mechanism), all to have a temperature sensor	Lot	1			
C/3	Label of rooms with KPLC logo's. Carry out comprehensive labelling of all the bus bars, circuit breakers etc. of the board above, indicating the areas served, outgoing cable sizes etc.	Lot	1			
C/4	Comprehensive protective multiple earthing of the LV board, Genset and AVR to achieve expected earthing values	Lot	1			
C/5	KPLC LOGO Repair Diagonise, service, repair, test and commission company LOGO by replacing faulty controls, wiring, LEDs lighting system Supply 2.5mm T/E cable from DB and associated accessories	lot	1			
C/6	Outdoor Security Lights Supply and install mounting brackets, cabling and photocells to achieve centralized control system. Switching through 20Amps Photocell Cable should be 2.5 mm sq 3core sheathed flex copper- Aprox. 250 mtrs Provision of necessary conduits/trunking and joint boxes Lighting fittings to be client supplied.	Lot	6			
TOTAL FOR OTHER WORKS						

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21/5/2024

E.W/7

ITEM	DESCRIPTION	UNIT	QTY	WARRANTY / DELIVERY SCHEDULE	UNIT PRICE DDP VAT EXCLUSIVE	TOTAL PRICE DDP VAT EXCLUSIVE
D	RISERS DISTRIBUTION BOARDS REFURBISHMENT					
D/1	Decommissioning of existing Distribution boards, Fuses and tidying the risers, Painting	Lot	1			
D/2	Tracing of line and ensuring retouch of existing circuits and labelling to detail.	Lot	1			
D/3	Making good all electrical wiring and electrical fittings, . Labelling and marking of all circuits . Replacement of cable/up ratings . Provide new supply cables to each floor . Carry out painting in the riser boards. . Carry out cable management on the risers and making good of risers . Provide cable tray and covers along the risers.	Lot	1			
D/4	Supply and installation of DBs to floors					
D/4.1	24way fully populated TPN DBs 100A 4P Isolators at 415Vac, 50Hz; each comprising of: 32A 1P MCBs 32 A 3P MCBs 60A 3P MCBs 10A 1P MCBs	Qty No. No. No. No.	4 18 20 1 8			
D/4.2	8-way fully populated TPN DBs 80A 4P Isolators at 415Vac, 50Hz; each comprising of: 32A 1P MCBs 10A 1P MCBs	No. Lot Lot	3 1 1			

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21/1/2024

E.W/8

ITEM	DESCRIPTION	UNIT	QTY	WARRANTY / DELIVERY SCHEDULE	UNIT PRICE DDP VAT EXCLUSIVE	TOTAL PRICE DDP VAT EXCLUSIVE
D/4.3	DATA CENTRE 4way fully populated TPN DBs 100A 4P Isolators at 415Vac, 50Hz;	No.	2			
D/4.4	4 way fully populated TPN consumer unit 100A 4P Isolators at 415Vac, 50Hz;	No.	2			
TOTAL FOR RISER DISTRIBUTION BOARDS REFURBISHMENT AND DATA CENTRE CARRIED TO SUMMARY						

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2/5/2024

E.W/9

ITEM	DESCRIPTION	UNIT	QTY	WARRANTY / DELIVERY SCHEDULE	UNIT PRICE DDP VAT EXCLUSIVE	TOTAL PRICE DDP VAT EXCLUSIVE
D/5	Supply and installation of Water pumps					
D/ 5.1	2No x High capacity pumps C/W all piping and fittings (basement) and control panel	No.	2			
D/ 5.2	1No x Fire pump C/W all piping and fittings (top floor), pressure tank, and MCB and switch.	No.	1			
D/6	Allow for (provisional) 25mm sq cable (4 core copper) to supply loads. Bidders to do site inspection to ascertain cable requirement before quoting this section.	Metres	100			
D/7	Allow for (provisional) 16mm sq cable (single core copper) to be used on the risers. Note: Bidders to do site inspection to ascertain cable requirement before quoting this section.	metres	20			
E	Allow for Training, Testing and Commissioning of all the installations					
E/1	Testing and Commissioning of all the installations	Item	1			
E/2	Manufacturers Training (including Factory Acceptance Tests) for 3no technical persons	Item	1			
E/3	Testing and Commissioning Kit (laptop & Necessary accessories)	Item	1			
TOTAL FOR WATER PUMPS , TESTING AND COMMISSIONING CARRIED TO SUMMARY						

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E.W/10

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2024

SUMMARY PAGE

ELEMENT NO.	DESCRIPTION	PAGE NO.	TOTAL PRICE DDP VAT EXCLUSIVE
1	GENERAL ITEMS	E.W / 1	K.SHS.
2	ELECTRICAL DISTRIBUTION	E.W / 2	
3	GENSET, CHANGE OVER, LOAD AND PFCU	E.W / 4	
4	TENANT SUPPLY	E.W / 6	
5	OTHERS WORKS	E.W / 7	
6	RISER DISTRIBUTION BOARD REFURBISHMENT AND DATA CENTRE	E.W / 9	
7	WATER PUMP, TESTING AND COMMISSIONING	E.W / 10	
TOTAL FOR ELECTRICAL WORKS CARRIED TO GRAND SUMMARY			

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E.W/11

