CONSULTING ENGINEERS

PROPOSED WEST POKOT COUNTY ASSEMBLY, IN KAPENGURIA.

TENDER NO.WPCA/01b/2018-2019

SPECIFICATIONS & BILLS OF QUANTITIES FOR Passenger Lift Installations

SUB-CONTRACT

Architects:

Scope Design Systems
P.O. Box 10591-00100
NAIROBI

Services Engineer

Edson Engineers
P.O. Box 5647 - 00100
NAIROBI

NOVEMBER 2018

CONTENTS

PROPOSED WEST POKOT COUNTY ASSEMBLY

Passenger Lift Installations Sub-Contract

FORM OF TENDER

TENDER FOR:

PROPOSED WEST POKOT COUNTY ASSEMBLY

LIFT Installations Sub-Contract

West Pokot County Assembly
P.O.Box 222-30600
Kapenguria

Dear Sir

1. **I/We, the undersigned, offer to contract for the above sub-contract works in accordance with the attached Conditions of Sub-Contract, Specifications and Bills of Quantities for the sum of:**

KShs…….

(in words) Kenya Shillings……

……

2. **I/We agree that our tender shall remain valid for 90 days from the date of opening the Sub-contract tender and shall not be withdrawn during this period.**

3. **I/We agree that you are not responsible for any expenses incurred by me/us in submitting this tender**

4. **I/We agree that you are not bound to accept the lowest or any other tender.**

Name & Address of Tenderer:…….

Telephone:…….

Signature of Tenderer:……...

Date:……

Company Stamp:……

DEFINITION OF TERMS

The following words and expressions used in this document shall have the following meanings attached to them:

Employer : West Pokot County Assembly
P.O.Box 222-30600
Kapenguria

Architect : Scope Designs Systems
P. O. Box 10591 -00100
Nairobi

Services Engineer : Edson Engineers
P O Box 5647 - 00100
Nairobi

Main contractor : shall mean the firm or company appointed to carry out the project building Works

Sub-contractor : shall mean the firm or company appointed to carry out the sub-contract works described in this document

Works : shall mean the materials and the plant to be provided and labours to be performed by the sub-contractor in fulfillment of the terms of this document and the sub-contract made for that purpose

Contract drawings : shall mean the drawings listed in or referred to in this document and forming part of this document

m. : shall mean metre

mm : shall mean millimetres

mm^2 : shall mean square millimetres

k : shall mean kilo

DEFINITION OF TERMS

A.	: shall mean amperes
V.	: shall mean volts
W.	: shall mean watts
Hz	: shall mean Hertz or cycles per second
PVC	: shall mean polyvinyl chloride
SWA	: shall mean steel wire armoured
S.P.& N.	: shall mean single pole and neutral
T.P.& N.	: shall mean triple pole and neutral
NO. or No.	: shall mean numerical number
dia.	: shall mean diameter
rpm	: shall mean revolutions per minute
KBS	: shall mean Kenya Bureau of Standards
B.S. & B.S.C.P.	: shall mean British Standard Specification & British Standard Code of Practice
K.P.& L.	: shall mean Kenya Power & Lighting Company Limited
Ditto	: shall mean in all respects as described in a previous item in the bills of quantities
I.E.E.	: shall mean the Institution of Electrical Engineers of the United Kingdom
L.V.	: shall mean low voltage as defined by the 16th edition of the I.E.E. wiring Regulations
H.V.	: shall mean high voltage as defined by the 16th edition of the I.E.E. wiring Regulations

NOTES FOR TENDERERS

1. DOCUMENT CHECK

Before submitting his tender, the tenderer is required to:

a) check that no page/s of this document is/are missing or illegible and to have this rectified
b) ensure that all ambiguities, doubts or obscure points in this document are cleared with the engineer.

No claims for alleged deficiencies in the information given in this document shall be considered at a later date.

2. ALTERATION TO THIS DOCUMENT

Unauthorized alteration or qualification made to the text of this document by the tenderer shall disqualify the tenderer.

3. CORRECTION OF TENDERS

Arithmetic errors in the tenders will be corrected by the engineer in the following manner:

a) ***Errors in Extensions***

If a total extension figure is entered, the extended total shall be a product of the tendered unit rate and the quantity of the item, and the product shall be added to the tender sum.

If the total extension entered in the bill of quantities is less than the product of the tendered unit rate and the quantity of the item, a corrected unit rate shall be obtained by dividing the extension total and the quantity of the item. The tender sum shall thus not be amended.

If the total extension entered in the bill of quantities is greater than the product of the tendered unit rate and the quantity of the item, the extension total shall be reduced to the correct product of the tendered unit rate and the quantity of the item, and the tender sum shall be reduced correspondingly.

b) ***Omission of Unit Rates:***

If an extension total is entered in the bill of quantities but no unit rate is entered therein, the unit rate shall be calculated as the extension total divided by the quantity of the item.

c) ***Omission of Extension Rate & Extension Total:***

If no unit rate and extension total is entered against any item in the bills of quantities, it will be assumed that the cost of the item is fully and completely covered elsewhere in the bills of quantities.

d) ***Errors in Addition****:*

All errors in addition, irrespective of where they occur in the bills of quantities shall be corrected and the tender sum amended correspondingly.

4. **DISCOUNTS**

No lump sum discounts shall be made in the tender and if such a discount does appear in the tender, it shall be disregarded and the tender sum will be considered to be the total of the bills of quantities.

PART A

GENERAL CONDITIONS FOR LIFT INSTALLATIONS

SUB-CONTRACT

GENERAL CONDITIONS OF SUB-CONTRACT

1.01 SUB-CONTRACT AGREEMENT

The sub-contractor shall be required to enter into a sub-contract agreement with the main contractor. The form of sub-contract agreement shall be the latest edition of the Agreement and Schedule of Conditions of Building Sub-Contract, published by The Kenya Association of Building and Civil Engineering Contractors.

The tenderer shall be deemed to have examined, fully understood and accepted the requirements of all clauses in the above document.

1.02 PRELIMINARIES

It shall be deemed that the tenderer in pricing the "Preliminaries" item in the Summary of Tender contained in this document, has priced for all items in this section of the document and in the Agreement & Schedule of Conditions of Building Sub-Contract, which have financial implications.

1.03 FIRM PRICE CONTRACT

This is a firm price contract and the tenderer must allow in his pricing of this tender for any increases in the cost of labour and materials during the currency of the sub-contract. No claims for increased cost will be allowed.

1.04 SITE

The site of the proposed works is situated at **West Pokot County.**

The tenderer is recommended to visit the site and will be deemed to have satisfied himself with regard to access to the site, the conditions under which the sub-contract works will have to be carried out, the supply of and conditions affecting labour and facilities for obtaining materials and equipment referred in this document.

1.05 EXISTING PROPERTY

The sub-contractor shall take every precaution to avoid damage to all existing property and he shall be held responsible for all damages arising from the execution of this sub-contract and he shall make good all such damage at his own expense to the satisfaction of the architect.

1.06 CONSTRUCTION PROGRAMME

The tenderer shall be deemed to have: (a) been informed about the duration of the main contract before submitting their tender and (b) allowed for in his tender all necessary costs to enable him to execute and complete the sub-contract works within the main contractor's construction programme.

GENERAL CONDITIONS OF SUB-CONTRACT

1.07 SITE MEETINGS

The sub-contractor shall be required to attend all site meetings and contractor's meetings.

1.08 SERVICES AND ATTENDANCE

Services and attendance shall be provided by the main contractor in accordance with the provisions in the main contract agreement.

The above will be limited to the builder's work in connection with this sub-contract, use of temporary water supply and electrical power and main contractor's scaffolding.

Except for drilling holes, forming concrete bases, chasing, cutting and making good the building fabric will be done by the main contractor. The sub-contractor shall mark out in advance and shall be responsible for the accuracy of the sizes of and positions of the bases, chases and holes required for his works.

The sub-contractor shall be responsible for providing any special internal and/or external scaffolding, trestle, etc specifically required for carrying out the sub-contract works. The tenderer is deemed to have allowed in his prices for the above requirement.

1.09 PROGRAMME OF WORKS

The sub-contract works will commence immediately upon the appointment of the sub-contractor. The sub-contractor shall be required to phase his works in accordance with the main contractor's programme of works.

The sub-contractor shall prepare such Critical Path Programmes or Progress Chart as the main contractor considers necessary to assist him in the preparation of and maintenance of his overall Programmes and Charts.

Copies of the sub-contractor's programmes shall be submitted to the main contractor, architect and engineer.

1.10 MATERIALS AND WORKMANSHIP

The sub-contractor shall be responsible for the provision of all materials, special scaffolding, tools and tradesmen required for the execution of the sub-contract works.

Plant, equipment and materials to be used in the execution of the sub-contract works shall be of sound condition to ensure they shall be serviceable for the duration of the sub-contract and that they do not pose any danger to those employed on the project.

GENERAL CONDITIONS OF SUB-CONTRACT

1.10 Materials and Workmanship ……./continued

The tenderer shall allow for in prices for hoisting all items of equipment and materials for the sub-contract to be installed in the locations and heights shown on the sub-contract drawings or noted in this document.

1.11 MEASURED WORKS

The Bill of Quantities contained in this document has been prepared in accordance with the Standard Method of Measurement of Building Works for Republic of Kenya: Metric Edition.

All “provisional” and other work liable to adjustment under this sub-contract shall be left uncovered for a reasonable time to allow any measurements needed to be taken by the engineer. The sub-contractor shall inform the engineer when the work is ready for measurement.

If the sub-contractor defaults in the above requirement, he shall uncover the works for measurement to be taken and reinstate afterwards, all at his expense.

1.12 PROVISIONAL SUMS

Quantities given as “Provisional” in this document shall not be held to gauge, or 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 shall be added to the sub-contract sum as provided by the sub-contract agreement.

1.13 VARIATIONS

Except in emergency or for reasons over which the sub-contractor has no control, works likely to involve a claim for extra payment shall not be initiated without the written instruction from the engineer.

Addition to or reduction from the sub-contract in respect of extra work, alteration or omission authorised by the engineer shall be agreed and confirmed in writing at the time such variations are decided and shall not affect the validity of the sub-contract.

No allowance shall be made for loss of profit on omitted works.

Any claim involving additional work on site, must be accompanied by authorised site instruction signed by the engineer or his representative.

The sub-contractor shall submit to the engineer claim/s for any work or circumstances on account of which he may want extra payment within seven days

GENERAL CONDITIONS OF SUB-CONTRACT

1.13 Variations ……../Continued.

from the time of the commencement of such work or circumstances. Any such claim must be in writing with full particulars of such claim/s.

1.14 MATERIALS ORDERS

The sub-contractor shall order and/or procure all materials and equipment for the sub-contract within two weeks after his appointment. Documentary evidence of all orders and purchases shall be submitted to the engineer within the above time.

No claims for extra payment shall be considered, if the sub-contractor does not comply with the above requirement.

1.15 DUTIES, TAXES, ETC.

The tenderer shall include in his prices all mandatory Government duties, taxes and levies; Supply to site, insurances, storage, fix in position, testing, commissioning and all other obligations under this sub-contract.

1.16 DEFECTS LIABILITY

The complete sub-contract works shall be guaranteed for a period of six months from the date of the architect's certificate of completion. Under this guarantee the sub-contractor shall make good at his own cost all defects in materials, equipment or workmanship which may develop in that period. The sub-contractor shall also make good any damage caused to other works, equipment and materials due to defects in the sub-contract works.

This clause shall not in any way invalidate manufacturer's guarantee on equipment, which may extend for periods longer than six months.

1.17 STORAGE ON SITE

Space on site or certain areas of partially completed building, when available, may be allocated to the sub-contractor for storing his material and equipment for the sub-contract.

The main contractor will be responsible for making the storage area waterproof but the sub-contractor shall be responsible for his own lock-up facilities and sheds.

The sub-contractor shall, when reasonably called upon at any time by the main contractor, move his material or plant elsewhere notwithstanding his having previously been allocated that space.

GENERAL CONDITIONS OF SUB-CONTRACT

1.18 CONTRACT DRAWINGS

The sub-contract drawings are intended to indicate the intent and extent of the sub-contract works. The sub-contract drawings and this document are meant to explain each other and shall be read together.

Measures with dimensions shown on the contract drawings and measures noted in this document are to be followed in preference to dimensions scaled from the contract drawings; but whenever possible, dimensions are to be taken on the site or from the buildings.

Before any work is commenced, dimensions shall be checked on the site and/or the buildings and discrepancies reported to the engineer. The sub-contractor shall be responsible for ensuring the accuracy of such dimensions.

One copy of all the sub-contract drawings and a copy of this document, issued to the sub-contractor, shall be retained on site at all times and be available for reference by the engineer and the architect.

1.19 SITE REPRESENTATIVE

It is a specific requirement of this sub-contract that the successful tenderer shall provide on site, throughout the project construction period, a literate, suitably qualified and competent person to represent him and to ensure that the sub-contract works are carried out to the standard required by this document.

Instructions and directions given by the architect and/or the engineer to the sub-contractor's site representative shall be deemed to have been given to the sub-contractor.

1.20 INSPECTION

The engineer shall be allowed all facilities for inspecting materials and workmanship on site during the execution of the contract.

A similar reservation for inspecting at the manufacturer's works shall be included in all orders for specifically manufactured equipment issued by the sub-contractor. In such cases notice shall be given to the engineer that equipment has been manufactured and is ready for inspection and testing, so that this may be carried out before the equipment is packed for shipping.

1.21 SAMPLES

The sub-contractor shall, when required, provide at no extra cost, samples of materials or workmanship forming part of the works. Such samples when approved shall be retained on the site and shall form the standard required for the works.

Any condemned material as unfit for use in the works shall be immediately removed from the site without any recompense to the sub-contractor.

GENERAL CONDITIONS OF SUB-CONTRACT

1.22 FAULTY WORKS

The engineer shall have the right to reject any material or workmanship, which in his opinion does not comply with the requirements of the specifications or is not satisfactory.

The sub-contractor shall replace such rejected materials or rectify such bad workmanship forthwith, at his own expense. In event of undue delay on the part of the sub-contractor to rectify the rejections, the engineer will have the right to employ others to supply suitable materials and re-execute the works and deduct the cost thereof from the value of the sub-contract.

1.23 PROTECTION

The sub-contractor shall be responsible for casing up or otherwise protecting all parts of the sub-contract works liable to damage or injury and for removing such protection and making good on completion.

1.24 CLEARING OF SITE

The sub-contractor shall ensure that the areas where his works are being carried out are, at all times, and kept clear of all debris and surplus materials.

PART B

TECHNICAL SPECIFICATION

FOR

PASSENGER LIFTS INSTALLATION

SUB-CONTRACT

2.1 Extent of work

This sub-contract shall include for the supply of lift equipment, transport to site, off loading, labour installation, fixing, connecting, commissioning and delivering up clean and in working order in every detail the following lift installation.

Passenger Lifts shall be provided where shown on the drawings, and shall be supplied and installed as described herein and shown on the drawings, and in accordance with BS 2655 and BS EN 81-1 or other equal and approved standards and in conformity with current good practice.

Installation shall include all fixings, machinery and car supports, guides and counter weights, wire ropes, motors and drives, controls and safety devices, hydraulic buffers, openings, trims, and handrails, doors, jambs and tread plates, internal shaft safety fascia plates and other items, necessary for the erection and setting to work of the equipment, all in accordance with this Specification and the Drawings herewith, and rendering the passenger lifts fully operational to the complete satisfaction of the Engineer.

2.2 Drawings

The work carried out under this contract shall be in accordance with all Drawings issued herewith.

The contractor shall provide two copies of his own working drawings for approval prior to commencing installation of the equipment. The drawings shall show the builders' work required.

2.3 Traffic Analysis

The contractor shall provide together with his tender a traffic analysis for the Proposed Development with an approximate population of 400 persons.

2.4 Passenger lifts general requirements

The lift shall be electrically operated and shall serve the floors as stated below. The building shall not necessarily be provided with an emergency generator power. In the event of mains failure, the stops, cancel all calls and then using the stored battery power supply, the cars proceed, one at a time, to the next landing, stop and the doors remain open. Thereafter the lift would be in service alone until power is restored.

The finished appearance of all equipment and components exposed to public view is required to be of a high architectural standard, and all panels, covers, trims, materials and finishes shall be included and provided accordingly, to the satisfaction of the Engineer. In particular, screw fixings to cover panels and the like shall be avoided unless specifically approved in each case.

Basic Data for Passenger Lifts	
No of lifts	1
Lift Type	1 No. Passenger Lifts. Machine room less system
Nominal Capacity	1 No. 800kg (Passenger)
Speed	1.0 Meters per second
Number of stops	7 stops.
Floors served	Basement, Ground, First, Second, Third, Fourth and Fifth
Travel	21 Meters *(approximately)*
Motor Room Position	Machine roomless
Power Supply	415V, 3-phase, 50Hz
Number of openings	Same as No. of stops, openings in line
Operation	Single selective
Special operation	Key operated priority Intercom communication for emergency, use automatic re-leveling of lift car, independent service, fireman service and stand-by power operation.
Control system	Fully software based Microprocessor programmable control system
Drive	Gear less with AC Variable voltage, variable frequency drive (VVVF) system
Platform size	1375mm Width x 1400mm Depth
Buffers	Rubber
Landing Doors	Double panel automatic center openings
Car Doors	Double panel automatic center openings
Door Operation	High speed, heavy duty variable frequency driven door operator
Signals	Call acknowledging lights and gong, waiting passenger lanterns, at all openings
Car Operating Panel	One lift digital LED display control panel per lift cab

2.5 Lift wells and openings

Details of lift wells, machine rooms, and openings are provisional as shown on the drawings. Final sizes as per manufacturer requirement for the lift.

Shaft Size: 1900mm Width x 1700mm Depth: no back to shaft

Height above the highest level served (headroom): 1700mm or as per manufacturer requirement for the all lifts

Pit Depth: 1600mm or as per manufacturer requirement for the all lifts

The Contractor shall ensure that his equipment will fit the spaces provided, or in the event that he is unable to meet this requirement, shall clearly indicate what alterations are necessary, the cost of which is to be included in his Tender Price.

The Contractor shall ensure that all rough openings in the lift wells are constructed of dimensions suitable to accept his plant and equipment, and shall provide and fit all trims, doors, jambs and other items accordingly. Additionally, he shall supply and install all guide rails, clamps, structural supports, spacers, guards, tread plates, sight guards, internal shaft safety fascia plates and other items necessary for the complete installation and setting to work of his equipment.

2.6 Machinery space

Spaces for the lift machinery are shown on the Drawings. The Sub Contractor shall layout and install his equipment in the spaces provided, having proper regard for ease of access for maintenance and inspection, and for the safety of maintenance staff. He shall ensure that adequate ventilation is provided to his plant, and shall co-ordinate with work being carried out by the electrical sub-contractor in terms of location of lighting fittings in relation to his equipment, and any other such items.

All doors or panels provided to give access to machinery and equipment spaces for normal maintenance purposes shall be secured against unauthorised access. Opening, or removal, of such doors or panels shall expose a permanent notice reading: **DANGER, UNAUTHORISED ACCESS PROHIBITED.**

The characters shall not be less than 13mm high. The notice shall not be affixed to the back of the door or panel.

The following information with respect to the machinery must accompany the tender:-

Make
kW Rating
Size
Voltage
Power consumption at full load, kW
Revolutions per minute, r.p.m.
Full load current
Starting Current
Duration of Starting Current
Power Factor, cos -φ
Acceleration time, sec
Retardation time, sec.

The motor must be provided with overload and phase failure cutout devices. The machine shall be provided with a manually operate turning device for lowering the car to the nearest landing in case of power failure. The system must prevent engaging of the turning devices, until the power supply for the motor is switched off.

The motor, when not in operation, has to start automatically by the registration of a call. The machinery and controllers shall be placed on vibration dampers in the lift shaft. Any steel structures or supporting beams for machinery are to be included in this contract.

If the sub-contractor finds it necessary to place the machinery on special concrete foundations, the main contractor must be advised by the sub-contractor before casting of the relevant slabs

The total lift motor and drive mechanism must be dimensioned for the full load in continuous operation and for a temporary overload of 10%.The sub-contractor must provide information on the highest permissible temperature in the lift shaft, and provide information about the heat produced by the entire installation.

A danger notice with the words "**DANGER, LIFT MACHINERY, UNAUTHORISED ACCESS PROHIBITED"** shall be fitted on the lift drive by the sub-contractor.

2.7 Belts and sheaves

The lifts shall be provided with NEW car and counterweight flat belts, which shall be of suitable size, construction and number to ensure proper operation of the lift and give satisfactory wearing qualities.

Sheaves to be made of best stainless steel, turned true and grooved for the belts.

The sheaves shall be of ample diameter for the belts used, and should have a ratio of sheave/belt diameter of not less than 40:1. Sheaves shall be fixed by means of iron beams, which are supplied and installed by the sub-contractor.

Beams must be sound insulated from structural parts.

2.8 Shaft installations

New guide rails for cars and counterweights shall be provided. The Contractor shall ensure that the rails are placed accurately and fixed firmly to the shaft walls with sufficient spacing between brackets.

The fixing of rails and connection between two or more sections of rail must be in such a manner that the straight and vertical position is not influenced by changes in temperature or ordinary settlement of the structure.

The rubber buffers shall be installed to bring the car and counterweight to rest at the extreme limits of travel, should the car for any reason pass the limit switches.

2.9 Lift machinery and associated equipment

These shall be completely NEW and shall be of the variable frequency, variable voltage (VVVF), and single selective operation.

Lift machines shall be entirely suitable for the application and designed to operate on the electricity supply provided, i.e. 415/240 volt 50 Hz, AC

Various parts of BS 5655 shall be strictly adhered to. In particular attention shall be applied to motors, gear reduction units (if any), brakes, emergency lowering, lift guides, counterweights, buffers, safety gear, lifting ropes, leveling and clearances, limit switches and all safety considerations.

The lift Sub-contractor is to supply and install all necessary safety equipment for the safe operation of the lifts, including all lift shaft internal safety fascia plates, fixed so that a passenger cannot trap any part of his body should the lift doors be opened between floors.

2.10 Lift drive system

The NEW lifts drive system shall be of the gearless type designed to operate at 1 metre/sec with a duty load of 3000Kg. The lifts shall have the variable voltage, variable frequency, and microprocessor motor control.

The main motors shall be rated for 250 starts/hour and shall operate without vibration, overheating or noise.

Control of the motors shall be provided by a fully closed loop microprocessor system that shall include the following: -

1. A high resolution optical speed encoder, mounted directly onto the motor with a resolution of one pulse/mm of car travel.

2. An electronic load transducer located under the car capable of detecting load changes of 20 kg.

3. An optical position encoder connected directly to the car and capable of measuring 0.4mm movement.

4. A solid state car mounted transducer to verify final floor level position to within 6mm.

5. An alternating current, variable voltage, variable frequency gearless drive system.

The system shall continually monitor car speed, and position and compare its results with a software based flight reference. Any error between reference and actual speed shall be corrected, within 2 milliseconds. Flight reference shall be fully programmable.

Acceleration rates shall be adjustable but when set at 1.2 m/s^2 shall provide the following minimum performance;

Jerk, to be less than 2.5 meter/sec/sec Leveling ±3mm

3 meter flight time brake to brake 4 secs;

The following features must also be provided:

1. Main motor over speed and current protection.
2. Drive over-current protection.
3. Drive over temperature protection.
4. Self Diagnostics.
5. Ability to know car position at all times even during temporary loss OF MAINS POWER

2.11 Controllers

NEW lift controllers shall be of the totally enclosed, heavy duty sheet steel cubicle type so mounted in the lift car to give free access to front and rear wiring connections.

An earthing terminal shall be provided on each controller, fitted with a removable link or other easy means of disconnecting. This terminal shall be clearly labelled EARTH.

Provision shall be made for operating the lifts from the lift but such provisions shall be inoperative unless all landing and car doors are closed. Push buttons shall be provided on each controller for this purpose and a changeover switch incorporated to render the car interior and landing buttons inoperative when a lift is being operated from the motor room.

An overriding SAFETY control switch shall be provided on the top of each lift car, and with provision for operating the lift car from on top of the car.

The controller shall be fitted with a phase failure and phase reversal relay control. Each controller shall be complete with all equipment and protective devices necessary for the control and operation of the lifts as specified herein.

Each lift shall have its Alarm System. An alarm siren will be fitted within 2 metres of the lift shaft main landing. The system shall be complete with batteries and fed by a trickle charger.

2.12 Control system

The Sub-Contractor shall provide a NEW fully micro-processor based lift control system capable of operating one lift.

Each lift shall have its own controller housed within a sheet steel purpose made cabinet.

The cabinet shall be designed for front access only via lockable doors.

The cabinets shall be ventilated via louvres in the doors. These shall have dust filters provided to ensure only clean air enters. Within the cabinet a fan shall be fitted to ensure good air circulation.

Cabinets shall be spray finished in the manufacturer’s standard colours.

All fuses shall be of the cartridge type. Transformers shall be floor mounted and earthed. Relays and contactors shall be AC3 or AC4 category as applicable and adequately rated for this purpose. Wire terminations shall be of the plug in or screw type with easy access for testing.

Micro-processor and input-output cards shall be rack mounted and self locking through insertion.

Short circuit, over temperature, phase failure and rope slippage detection shall all be included.

The controller shall have the following operation control modes in its basic form. Full operation and independent service.

Each controller shall have full calculation capabilities so that operation relies upon single controller.

During operation calls placed in the system shall be allocated to the car capable of answering them in the shortest time. To do this each lift controller shall consider the following each time a call is entered. It's car position, car calls registered, car calls allocated, distance from call, and drive status (stopped or running) coincident calls and load in the car.

The system shall be capable of learning building traffic patterns throughout the day and use this information within the call allocation program to ensure optimum service at all times.

Communications between controllers, control to car and hoist way equipment shall be by serial link, with the exception of the safety items. The control system shall be fully re-programmable via a plug in test tool. It shall be possible by use of the tool to check all lift operations including group and safety circuits.

The system shall also have a self-diagnostic facility to speed fault location.

An RS 422A or RS 232 communications port shall be provided for future connection to a lift management system linked to a remote elevator monitoring system for remote monitoring of the operations of the lifts by the manufacturers and automatic sending of alarm to the manufacturers in the event of a failure.

The control system shall be designed to EN81, BS 5655, and be fully tested before delivery and during commissioning.

2.13 Lift car and landing doors

The car and landing doors shall be new to meet the following specifications. The entrance to the lift cars to be provided with one panel automatic side opening metal sliding doors guided at the bottom by non-metallic shoes sliding in suitable grooves. Lift doors shall be installed both in the car and floor landings.

The lift car must be stopped and prevented from moving should a door be forced open. The car doors and the landing doors must open automatically when leveling; the opening to start as the car is approximately 250mm from the landing.

All doors to the goods lifts shall be solid type of metal construction. The landing and car doors to the lifts shall be similar and of approved design, and shall be hung on overhead runner bars and guided by self cleaning tracks in cast or fabricated metal landing and car sills, all arranged to ensure easy running for automatic power operation. The design should have been fire tested in accordance with BS 476 and designed for a two hour fire classification.

A safety shoe is to be fixed to each door, the operation of which will reverse the movement of the car and landing doors to the fully open position. In the event of failure of the power operating mechanism, it shall be possible to manually open the car and landing doors at any landing at which the car is standing, by the use of an emergency opening key.

Goods and passenger protection shall be provided by the use of an electronic proximity detector mounted on the leading edge of the car doors. This shall provide a three-dimensional zone of detection in advance of the car doors and detection of an object within the zone shall cause the doors to immediately re-open.

Car and landing doors for goods and passenger lifts shall be power operated for automatic opening and closing by means of an approved motorised operating gear fixed to the top of the car. It shall provide high speed operation of the doors and shall have variable speed control. The door operating gear should be capable of opening the lift doors in 1.20 seconds and closing the doors in 2.50 seconds, totally 3.70 seconds for both operations. Smooth operation of the doors shall be achieved.

The controls shall be so arranged that the car and landing doors work in unison, and all doors must be closed before the lift can move. The parking condition shall be with the doors closed.

Electrical and pre-locking mechanical door locks shall be fitted to the landing doors, such that it is impossible for the lift to start until the lock lever has fallen into the mechanically locked position. The car doors, or car gate, shall be fitted with an electrical interlock such that it is impossible to operate the lift until the door or gate is closed. Notice shall be affixed to the car gates to this effect.

All Electro-mechanical switches and locks shall be arranged for gravity release of switch arms in the event of breakage of any release springs.

It shall also be impossible under normal conditions to open any of the landing doors, other than that at the landing where the car is stationary .For the purposes of maintenance, however, facilities shall be provided for authorised persons to open any of the landing doors or car doors irrespective of the position of the car in the lift shaft, and such facilities shall be concealed and or locked.

An emergency release mechanism should be included with the interlock. In the event of an emergency (or for maintenance) the landing door should be capable of being opened from the landing with an emergency release key. The landing doors should also be capable of being opened manually from inside the lift car, when within the door zone area.

Noise levels produced by the operation of the doors when measured one metre from the landing side shall not exceed 48 dBA.

The complete entrance and operator should comply with the recommendations of BS 5655.

The Contractor shall provide new car doors complete with operators, interlocks, safety devices and sight guards, and all landing doors similarly and including frames, architraves, jambs and other items complete. Door joints shall be heavy gauge pressed type of approved section and material.

Car and door designs are described separately herein-

Landing Doors	Power Operated 2-panel centre opening 800mm wide by 2000mm high Stainless steel to meet the Architects requirements
Door Surround	Box section architraves at all levels constructed of stainless Steel, to Architects requirements
Landing Sills	Stainless Steel together with supports and toe guards at each entrance.

Landing Indicators	Directional micro-movement buttons at each landing in two risers. The buttons when pressed will indicate by Light Emitting Diode (LED) that the call is accepted Illuminating up and down direction arrows with gong will pre-announce the arrival of each car and be fitted above each entrance at all levels.

2.14 Lift cars

The Sub-Contractor shall supply and install all lift cars complete. The car frame, which supports the car platform and enclosure, shall be made of solid structural steel with welded, bolted or riveted joints. Bolts used must be positioned for easy adjustment. Where practicable, car dimensions should conform to the recommended standards set out in BS 5655. The cars shall be rigidly constructed and affixed to the car frame.

Car body shall be constructed of solid 25 mm seasoned timber or other approved materials, and the car body work of not less than 15mm waterproof ply. The whole car shall be sustained by a rigid metal framework. The car roof shall be provided with the necessary working platforms, complete with light and switch, isolating switch for lift power, and electrically interlocked access hatch from within the car.

Ventilation shall be provided to the car, by means of a silently operating fan in the car roof of not less than 250mm diameter, with on-off key switch control on the car panel, and arranged to operate continually except when the car is parked.

A telephone recess shall be provided, complete with fixed and trailing cabling from the telephone point to be provided in the lift motor room, and ready for connection to the handset supplied under another contract. Recess shall be neatly trimmed and finished and fitted with a door, spring, latch, clear glass or Perspex vision panel, and instruction notice in suitable permanent material to future detail.

Car lighting shall be provided to the extent of not less than 2 x 18 watts low energy lamps of suitable colour and temperature, key switch controlled, and in addition an emergency incandescent battery light shall be provided, and fitted to approval in a position above the car control panel

2.15 Car and door finishes

Internal Dimensions (800 kg)	Width 1375mm Depth 1400mm Height 2135mm
Ceiling	Sheet Steel finished in high grade textured short velvet. Colour to be approved by Architect from standard range-
Lighting	Recessed Low voltage lighting and fluorescent lighting shall be provided.
Handrail	A Polished SS circular handrail shall be furnished and installed on two side panels and on the rear panel.It shall be at a height of 900mm from car floor
Rear Glass wall	Wall to be full height tinted and reflective Glass as per Architects approval
Side walls	One Third (1/3) of wall to be glass Remainder of wall to be SS panels to be approved by Architect.
Front return and transom	Clad in satin finished stainless steel.
Car doors, material and finish	Power operated by a quality variable speed D.C. motor and shall have positive-control over the door movement for smooth operation. Doors to be double panel centre opening: 800mm wide by 2000mm. Stainless steel interior surface and visible edge, with good quality finish to be approved by Architect.
Landing doors, material & finish	Stainless steel to match car doors, exterior surface and visible edge, to be good standard of finish to meet Architect's approval.

Floor finish	Resimix tiles to approval of the Architect. The floor shall be fitted with a 150mm high skirting of stainless steel.

All details of colour and type of finishing shall be approved by the Architect before commencing furbishment. Fan is required supplying fresh air to car.

2.16 Car operating panels

Each car shall be provided with one NEW flush control panel of approved design and construction, located adjacent to the side of the car door.

The panel shall accommodate a press-button for every floor served, a red emergency stop button, an alarm button, and key switches for car lights and fan.

A suitable matching car position and direction of travel indicator of the illuminated type shall be flush mounted at each landing above the landing door.

The car-operating panel shall be flush mounted on the outside side of the car.

Enclosure: The individual modular units to be mounted within a satin finished Stainless steel panel and suitable for ease of operation by handicapped persons.

The car operating panel shall contain the following:-

i. Full set of micro movement buttons to correspond to the number of landing levels served, with RED indication of call
ii. Emergency Stop Switch
iii. Alarm Button
iv. Door Open Button
v. Door Close Button
vi. Switch for Fan
vii. Emergency Lighting Unit
viii. Digital car position indicator
ix. Key-Operated switch for independent service
x. Car direction indicator
xi. Overload display
xii. Interphone Unit

All details shall be agreed with the Engineer/Architect prior to manufacture of equipment

2.17 Operation and control of lifts

The two lifts shall be automatic push button controlled from outside of the car. The operation of a button shall initiate door closing, travel of the lift to the floor selected, and the automatic door opening.

Landing call panels shall be provided accordingly, with up and down buttons and out of service notice of the type, which is visible when illuminated. Panels shall be of approved layout and design.

Appropriate time delays shall be fitted to these functions as necessary, and the empty car, after standing for a selected waiting period, shall assume the parked position with the door closed.

2.18 Buttons

The car and landing call buttons shall be of the touch/micro-motion mechanical type and utilise solid state electronics with Light Emitting Diode (LED) illumination arranged as a halo around the button. The halo should illuminate in red/green.

Service buttons shall be of the micro-motion type and be identical in appearance to the car and landing call buttons.

2.19 Car button indicators

The car position indicators shall be red, 16 segment LED's 50mm high and capable of a full alphanumeric display. The LED's shall be protected by a high impact resistant polycarbonate lens.

2.20 Hall position indicator

Hall position indicators shall be provided at ground floor only and consist of 16 segment LED's protected by an impact resistant polycarbonate lens.

2.21 Hall lanterns

Hall lanterns shall be provided at all floors above the lobby to advise waiting passengers of the travelling direction of the approaching lifts.

The lanterns shall be red on the first floor, green at the ground floor.

The light source shall be a matrix of high intensity LED's which illuminate sequentially to give the illusion of motion in the direction of travel.

The lanterns shall have a wide field of view and have an illumination test facility.

A digitally recorded chime facility shall be provided within the lantern and shall have an adjustable volume control.

The hall lantern shall be framed with a satin finish stainless steel and protected with a high impact resistant polycarbonate lens.

Floor / level indicators to be included.

2.22 Lift switchboards and electrical installation

Three phase 415/240 volt 50 Hz electricity supply is to be provided to the lift switchboard position in each case by the electrical sub-contractor. The Lift Contractor shall supply and install the NEW lift switchboards complete with main isolators, circuit protection, and other items as necessary, carry out all further wiring in connection with the lift installations, and set to work.

All motors and switchgear shall be rated for operation at 240V/415V 50Hz. Relays and components must be tropicalised.

The installation must comply with the IEE wiring Regulations. All wiring shall be carried out in a neat and orderly manner. Cables run on walls or ceilings to be in a straight line and right angle bends enclosed in steel ducting.

Connections to equipment more than 400mm from walls shall be run from the wall in conduit cast in the floor to a connector box fixed upright adjacent to the equipment and through flexible conduit to the equipment.

All electrical switchgear must be clearly labeled.

All fixed wiring shall be installed in screwed steel conduit, and all equipment, main isolators, controls, and other items provided as specified herein. All trailing cables shall be to BS EN 50214 (1998) and properly supported, fixed and terminated.

Contactors and their components shall be rated for frequent duty, and shall be amply sized in terms of current rating.

All electrical apparatus must be adequately suppressed in order to prevent interference with radio, television, radar and other similar equipment to the satisfaction of the Engineer.

The entire installation shall in each case be effectively bonded and earthed.

2.23 Silence of operation

The Contractor shall guarantee the lift installation, gear and moving parts to operate in a smooth and silent manner without vibration or jerks to the satisfaction of the Engineer. All lift supports shall be of suitable dimensions to carry lift gear and shall be of sufficient strength to withstand rigidly the operational stresses. All supports and gear shall be fixed with suitable anti-vibration and sound insulation material.

The Contractor shall include in his tender for the supply and installation of all necessary anti-vibration material, which shall be of an approved make.

2.24 Tests

The lifts will be subject to tests during erection and on completion by the Engineer, and will not be accepted unless they comply with all the conditions and specifications.

The whole or part of the equipment may be inspected by the Engineer at the maker's Workshop before delivery and the lift manufacturer shall provide all facilities to facilitate for such an inspection. . It shall be deemed that the sub-contractor has included in his prices all costs associated with the Engineer’s inspection.

After erection the following tests shall be included in the series of tests which shall be carried out in the presence of the Engineer or his duly appointed representative:-

a) that speeds comply with the specification
b) the cars to be loaded to 10% over specified full load and each lift operated for complete travel
c) both up and down directions
d) determine that all safety devices comply with conditions and specifications, and that all electrical and mechanical braking equipment comply with the specifications
e) determine suitability of switch gear and wiring
f) determine that current consumption complies with that quoted in the Tender

The contractor will be required to provide all necessary instruments for carrying out tests including insulation resistance of the wiring.

2.25 Schedules

The Tenderer shall complete the schedules provided herewith, and shall submit such further information as is required or as may be necessary in order to fully describe his equipment and installations.

2.26 Certificates upon completion

Upon completion of the lifts and after commissioning to the Engineer's satisfaction it is the responsibility of the lift contractor to provide a full set of lift test and inspection certificates in accordance with BS 5655 (EN 81-2).

In addition a full set of certificates completed in full and signed and approved by the Kenya Government Factory Safety Inspector is to be provided. It will be Sub-contractor's responsibility to get the lifts approved by the Factory Safety Inspector. It shall be deemed that the Sub-Contractor has included in his prices all costs associated with the statutory approvals.

2.27 Spare parts

The Sub-Contractor shall guarantee to hold complete stock of spare parts at all times and provide qualified staff trained in maintenance of the type of lifts used, to maintain the lift equipment in good working order. Should any spare part not be available locally or local technicians not be able to rectify faults, the Sub-Contractor shall provide an undertaking from their principals to supply the necessary spare parts and send technicians within seven days of such occurrence, at their own cost. A written undertaking by the principals shall be included as Appendix A to this Contract, and shall form part of this Contract.

2.28 Maintenance agreement

The Sub-Contractor shall submit a detailed proposal for a **five-year maintenance contrac**t after expiry of the initial 12-month maintenance period, which, after agreement with the Employer, shall constitute a part of this Contract.

2.29 Lift not in immediate use

When conditions do not permit a lift to be taken into normal service immediately following completion and acceptance, it should be immobilised. The Main Contractor should take effective precautions against damage, especially damage to equipment from dampness and builders' debris, until such time as the lift is made operational. A separate service contract shall be made with the lift contractor to make regular visits during this period, to inspect, lubricate and report on the condition of the lift. As this is a sub-contract, such necessary service contract shall be made with the Main Contractor. During the inspection it is desirable that the lift shall be moved under power. A date should be agreed with the lift Sub-Contractor from which the guarantee period will commence.

2.30 Temporary use of lifts

If the Sub-Contractor intends to permit temporary use of a lift by some other party such as the Main Contractor, before taking it into normal service, so that it is not immobilized, then the responsibilities of those concerned should be clearly defined and agreed. In addition to the precautions noted in Clause 2.39 above, it may be necessary to arrange temporary insurance cover.

EVALUATION CRITERIA

Table 1: Pre- qualification checklist for Completeness and responsiveness

S/No.	Completeness and Responsiveness Criteria	Requirement
1.	Form of Bid	- Amount must be indicated - Properly fill and sign
2.	Bid Security	- Bid Security required
3.	Confidential Business Questionnaire	-Properly fill and sign -Provide all required information
4.	Tax Compliance Certificate	- Valid
5.	Registration with National Construction Authority	- Attached
6.	Certificate of Incorporation	-Attached
7.	Priced Bill of Quantities	- Fill rates as necessary, prices and amounts
8.	Eligibility	- Copies of National ID or passport for at least two directors
9.	Conflict of interest	- Properly fill and sign
10.	Debarment	- Properly fill and sign
11.	Litigation History	- Fill in information and sign
12.	Schedule of Key Personnel	- Properly fill and sign

13.	Works Completed Satisfactorily	- Properly fill and sign
14.	Schedule of Ongoing Projects	- Properly fill and sign
15.	Schedule of other Supplementary Information / Financial Standings	- Properly fill and sign
16.	Copy of Bid Document	- Replica of the original
17.	Original Bid Document	- All information requested fully filled/signed
18.	Signatures	-All signatures should be the ones in the Power of Attorney
REMARKS		

Key: QC – Qualification Criteria

Table 2: Post- qualification/Technical Score

Points Award Guidelines

		Evaluation Factor		Evaluation Items			Maximum Points
1	Past Performance and track record	a)	Business Registration	i)	Multinational Company		3
				ii)	Limited company		2
				iii)	Partnership		1
				iv)	Sole Proprietorship		1
				v)	Business Permit		1
				vi)	PIN Certificate		1
				vii)	VAT Certificate		1
				viii)	Tax Compliance Certificate		1
		b)	Registration Status by MOR&PW	i)	Registered Cotractor Class A		3
				ii)	Registered Contractor Class B		2
				iii)	Registered Contractor Class C		1
				iv)	Ministry of Enegy Regulatory Commission, Class A		Mandatory
				v)	Registered by National Construction Authority		Mandatory
		c)	Operations Business Experience	i)	Over 11 years		10
				ii)	10 years		9
				iii)	9 years		8
				iv)	8 years		7
				v)	7 years		6
				vi)	6 years		5
				vii)	5 years		4
				viii)	4 years		3
		d)	Construction Experience on relevant projects	i)	3 works similar in nature and complexity over last 5 yrs		10
				ii)	Storeyed works		4
				iii)	High class finishing		N/A
				iv)	Value of works		5
		e)	Recommendations from Referees worked for	i)	More than 2 referees		3
				ii)	2 referees		2
				iii)	1 referee		1
				iv)	Completion certificates		1
				v)	Diversification of projects		1
2	PERSONNEL, RESOURCES & EQUIPMENT	a)	Personnel resources	i)	Contract Project Manager	Competence and Relevant Qualification – Degree	4
						Competence and Relevant Qualification – National Diploma	3
						Competence and Relevant Qualification – Certificate	2
						Years of experience – 5 - 10 years	3
						Years of experience – 10 years and above	5
				ii)	Qualified Accountant		1
				iii)	Procurement Officer		1
				iv)	Number of Additional Technical Staff		5
		b)	Plant & Equipment	i)	Organization's Plant and Equipment		8
				ii)	Any Additional Equipment		3
				iii)	Head Office and Organization Premises		3
		c)	Financial Resources	i)	3 Years' Audited Accounts		6
				ii)	3 Years' average annual turnover twice estimated(KSh.40M		2
				iii)	Twice as above (KSh.80M)		4
				iv)	Current proof of access to credit of maximum KSh. 5M		3
				v)	Financial Ratios, Acid-test Ratio (awarded by multiplying ratio by3)		3
				vi)	Cash Ratio		2
					Total Points		**154**

KEY PERSONNEL

DESIGNATION	NAME	NATIONALITY	SUMMARY OF QUALIFICATIONS AND EXPERIENCE		
			Qualifications	General Experience (Yrs)	Specific Experience (Yrs)
Headquarters Partner/Director or other key staff (give designation)					
Site Office Site Agent Other					

Note: The Bidder shall list in this schedule the key personnel he will employ from the Contractor's headquarters and from the Contractor's site office to direct and execute the work together with their qualifications, experience, position held and nationality. Bidders shall attach certified copies of academic certificates, evidence of current employment (employment letter), signed and certified CVs of all key staff and certified copies of academic certificates.

I certify that the above information is correct.

…… ……
(Signature of Bidder) (Date)

SCHEDULE OF BUILDING CONSTRUCTION WORKS CARRIED OUT BY THE BIDER IN THE LAST THREE YEARS

DESCRIPTION OF WORKS	NAME OF CLIENT	VALUE OF WORKS (KSHS) *	*YEAR COMPLETED/ REMARKS*
A) Non-completed Works (beyond completion date) B) Completed Works C) Specific Construction Experience			

Note: Bidders shall attach certified copies of letters of award (for each listed project), certified copies of completion certificates (for completed projects) and any certified evidence for executed works for non-completed projects e.g. copy of recent payment certificate.

I certify that the above works were successfully carried out by this Bidder.

…… ……
(Signature of Bidder) (Date)

SCHEDULE OF ONGOING PROJECTS

DESCRIPTION OF WORKS	NAME OF CLIENT	DATE OF COMMENCEMENT	DATE OF COMPLETION	VALUE OF WORKS (KSHS)	VALUE COMPLETED UP TO DATE %	PHYSICALLY COMPLETED UP TO DATE %

Note: 1. Bidders shall attach certified copies of letters of award (for each listed project) and any certified evidence for executed works e.g copy of recent payment certificate.

2. Bidders must indicate all their on-going works as at the time of bidding. Any nondisclosure shall constitute non-responsiveness)

I certify that the above works are being carried out by me and that the above information is correct.

…… ……
(Signature of Bidder) (Date)

FINANCIAL STANDING

1 Submit copies of audited profit and loss statements, balance sheet and Cash flow statements for the last two calendar years and estimated projection for the next two years with certified English translation where appropriate. These must be signed by Certified Public Accountant recognized by ICPAK and at least one Director.

2 Give turnover figures for each of the last two (2) financial years. Quote in millions and decimal thereof.

	Year 2016	Year 2017
	Ksh.	Ksh.
Lift Installations		
Other (specify)		
Total		

SUMMARY OF ASSETS AND LIABILTIES OF THE AUDITED FINANCIAL STATEMENTS OF THE LAST TWO (2) FINANCIAL YEARS.

	Year 2016	Year 2017
	Ksh.	Ksh.
1. Total Assets		
2. Current Assets		
3. Bank Credit Line Value		
4. Total Liabilities		
5. Current Liabilities		
6. Net Worth (1-5)		
7. Working capital (2+3-5)		

(a) Name/Address of Commercial Bank providing credit line

……

……

(b) Total amount of credit line Ksh……

Attach certified copies of financial bank statements of the last two years.

Attach a certified copy of Undertaking of the Bank to providing the credit.

OTHER SUPPLEMENTARY INFORMATION

Financial reports for the last two years, balance sheets, profit and loss statements, auditors' reports etc. List them below and attach copies.

……

……

……

……

Evidence of access to financial resources to meet the qualification requirements. Cash in hand, lines of credit etc. List below and attach copies of supporting documents

……

……

……

……

Name, address, telephone, telex, fax numbers of the Bidders Bankers who may provide reference if contacted by the Contracting Authority.

……

……

……

Sign ……

Date ……

LITIGATION HISTORY

Information on current litigation in which the Bidder is involved.

OTHER PARTY (IES)	CAUSE OF DISPUTE	AMOUNT INVOLVED (KSHS)

I certify that the above information is correct.

…….
Signature of Bidder

……..
Date

DEBARMENT FORM

We (name and address)_____declare the following:

a) Have not been debarred from participating in public procurement.

b) Have not been involved in and will not be involved in corrupt and fraudulent practices regarding public procurement.

---------- ---------- ----------
Name of Bidder Signature
Date

(To be signed by authorized representative and officially stamped)

CONFLICT OF INTEREST DECLARATION FORM

I (name and address)_____declare that; to the best of my knowledge and belief neither I nor my spouse, partner, immediate family or close friends have any interests which might conflict, or perceived to conflict with my duties assigned to me as a contractor at West Pokot County Assembly. Furthermore, if my situation should change, I will notify you without delay.

---------- ---------- ----------

Name of Bidder Signature

Date

(To be signed by authorized representative and officially stamped)

PART C

BILLS OF QUANTITIES

FOR

PASENGER LIFT INSTALLATIONS

SUB-CONTRACT

WEST POKOT COUNTY ASSEMBLY - ELECTRICAL SERVICES
LIFT INSTALLATION

RATES TO INCLUDE 16% VAT WHERE RELEVANT

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT *KSHS*
	SUPPLY, DELIVER, INSTALL, TEST, & COMMISSION THE FOLLOWING.				
A	Supply, deliver to site and install electrically driven 800 kg (8 persons) capacity, 1.0 metres per second contract speed (7 stops), machine room less passenger lift comprising electronically controlled AC variable voltage variable frequency regulated landing approach, lift computer control equipment, hoists and counter-weights, the car with programmable speed, centre opening car and landing doors complete with internal furnishings, fan, control panel and lighting fittings, car and landing doors electrically controlled and operated, hoist way doors and entrances, necessary control and power cables, installations materials and all accessories and complying with the specification	No.	1		
B	Price for import duty on imported materials (i.e imported component of Item No. B)	Item	1		
C	Cost of Marine insurance, clearing and handling charges, inland transportation and off-loading at site and all other local costs (i.e. imported component of Item No. B).	Item	1		
D	Cost of lifts materials purchased locally and delivered to site (i.e. local component of Item No. B).	Item	1		
E	Installation, testing and commissioning (i.e. labour costs on imported and local component of item A)	Item	1		
F	Supply recommended spares For item No. A	Item	1		
G	Allow for Certification of the installations by Government Lift Inspectors.	Item	1		
H	To ensure that equipment are provided to specifications allow for factory visit for **3 No. persons** to visit the manufacturing factory to verify the lift specifications and witness all the relevant factory tests before approval of shipping is given. The cost of the visit to include:- i) Visa processing fees, Return air-tickets to and from the factory. ii) Any transfer fees, Local transport both in Nairobi and the city of destination. iii) Accommodation for the three at a hotel/resort not less than 4 stars in rating. vi) Any other incidental costs for smooth facilitation of the trip and Daily per diem payments	Item	1		
I	Any other equipment or work necessary for the satisfactory completion of the sub-contract works (if none, write NIL)	Item	1		
	Total carried forward to summary page …….				

WEST POKOT COUNTY ASSEMBLY - ELECTRICAL SERVICES

SUMMARY OF TENDER PAGE

LIFT INSTALLATIONS

Total Brought Forward from :

: Page 1…..……..……..……..….KShs…..……..……

Sub Total inclusive of VAT…..……Kshs……..

TOTAL CARRIED TO FORM OF TENDER……...KShs……..……..
NB: Drawings are part of tender documents.

Name of Tenderer:.....

Address of Tenderer:.....

Signature and Stamp of Tenderer:..... Date: .....