

APPENDIX III

TENDER NO. KP1/9A.2/OT/045/SS/24-25

PROPOSED SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF ELECTRIC FENCES FOR KEY SUBSTATIONS AND SECURITY MANAGEMENT & CONTROL SYSTEM

SECTION VI – SPECIFICATIONS & BILLS OF QUANTITIES

SECTION VI (A) – SCHEDULE OF REQUIREMENT

LOT 1: ELECTRIC FENCES & INTRUDER ALARMS – COAST, NAIROBI, CENTRAL RIFT & NER REGION

SECTION VIII (F)–BILLS OF QUANTITIES

(See specifications in a separate section)

LOT 1: INSTALLATION OF ELECTRIC FENCES & INTRUDER ALARMS SYSTEMS
MALINDI DEPOT ELECTRIC FENCE

| Bill of Quantities Malindi Depot Page 1 | | | | | | | |
|--|---|------|-----|-------------------|--|---|--------------|
| No | Item Description | Unit | Qty | Country of origin | Unit Price (PPCBL Incl.) & VAT Excl. (Kes) | Total Price (PPCBL Incl.) & VAT Excl. (Kes) | Part Numbers |
| ELECTRIC FENCE ABOVE MASONRY WALLING | | | | | | | |
| The following in electric fence to cover 1200m Perimeter comprising 8 strands spaced 100mm centers above the walling and comprising necessary accessories in conformity with relevant standards and general good practice and allow for works to be installed, tested and commissioned to client's satisfaction with the following: | | | | | | | |
| A | Adequate mains energizer DRUID 15 Nemtek or Equivalent 4.6J | No. | 2 | | | | |
| | Output or equal and approved complete with back-up battery and Keypad as per the specifications. | | | | | | |
| B | GSM/IP Module as per detailed specifications. | No | 1 | | | | |
| C | Lead out under gate cable including excavating in road works with necessary ducting and making good No. | M | 600 | | | | |
| Total Carried to Collection Malindi Depot page 1 | | | | | | | |

| Bill of Quantities Malindi Depot Page 2 | | | | | | | |
|---|---|------|-------|-------------------|--|---|--------------|
| No | Item Description | Unit | Qty | Country of origin | Unit Price (PPCBL Incl.) & VAT Excl. (Kes) | Total Price (PPCBL Incl.) & VAT Excl. (Kes) | Part Numbers |
| A | High tensile 1.6mm fence wire (HT) | M | 11500 | | | | |
| B | Fence Poles Double Galvanized Electroplated, double galvanized square tube 25 x 25 x 1.5mm thick steel Hollow Square Tube for W and S insulators posts with plastic top caps. Apply Metal primer before installing and 2 finishing coats of 1st quality gloss paint "Crown" including embedding 200mm deep in the reinforced columns and walls Complete with metal lugs and approved by the client. | No. | 500 | | | | |
| C | Siren Kit complete with box, sounder and strobe 12VDC Security sounder and strobe with a range of 1 km as per detailed specifications. | No. | 1 | | | | |
| D | W-Insulators High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards | Item | 1 | | | | |
| Total Carried to Collection Malindi Depot page 2 | | | | | | | |

| Bill of Quantities Malindi Depot Page 3 | | | | | | | |
|---|--|------|------|-------------------|--|---|--------------|
| No | Item Description | Unit | Qty | Country of origin | Unit Price (PPCBL Incl.) & VAT Excl. (Kes) | Total Price (PPCBL Incl.) & VAT Excl. (Kes) | Part Numbers |
| A | Strain –S-insulators STF Black-High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards | Item | 1 | | | | |
| B | Earthing of the Electric fence as per the IEE regulations and to be done at intervals of 30M | Item | 1 | | | | |
| C | Hatari signs | No | 50 | | | | |
| D | Provide for power and Alarm cable as per IEE Standards | Item | 1 | | | | |
| E | Supply and fix Razor wire at the top of the boundary wall conforming to the following specifications: - coil size - 450mm diameter, Blade profile - Ripper Razor Wire, Stretch factor - maximum of 10M per coil and secured with steel plates at 1M centers (Galvanized) | M | 1200 | | | | |
| | Total Carried to Collection Malindi Depot page 3 | | | | | | |

| Bill of Quantities Malindi Depot Page 4 | | | | | | | |
|---|--|------|-----|-------------------|--|---|--------------|
| No | Item Description | Unit | Qty | Country of origin | Unit Price (PPCBL Incl.) & VAT Excl. (Kes) | Total Price (PPCBL Incl.) & VAT Excl. (Kes) | Part Numbers |
| A | Energizer Cabinet with following specs: Energizer steel cabinet 500x500x250mm fabricated from 25x25x3mm angle line framing and 3mm thick plain sheet with lockable door including painting and mounting to Client's approval. | No. | 2 | | | | |
| B | AVS 30A voltage guard | No. | 1 | | | | |
| C | Allow for installation, configurations, Training, Testing and Commissioning to client's satisfaction. Installation to include all necessary civil and electrical works. Contractor to submit 3no identical handover box files with all correspondences of works and including drawings, layouts, manuals. To be done in consultation with the client for more details and format. | Item | 1 | | | | |
| D | Allow for the integration of the Alarm Systems to existing Genetec or hikcentral security Management system in Liaison with the supporting Kplc Genetec or hikcentral integrator. Include cost for all necessary Genetec or hikcentral Licenses and related costs to allow full integration and allowing full operationalization in Genetec or hikcentral mission control, both at Regional and central security control room. | Lot | 1 | | | | |
| Total Carried to Collection Malindi Depot page 4 | | | | | | | |

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|---|--|--|
| SUMMARY PAGE MALINDI DEPOT ELECTRIC FENCE | | |
| BILL OF QUANTITIES | | |
| Total Carried to Collection Malindi Depot page 1 | | |
| Total Carried to Collection Malindi Depot page 2 | | |
| Total Carried to Collection Malindi Depot page 3 | | |
| Total Carried to Collection Malindi Depot page 4 | | |
| | | |
| Sub-Total (PPCBL Incl.) & VAT Excl. (Kes) - Malindi Depot Electric Fence | | |

LOT 1: INSTALLATION OF ELECTRIC FENCES & INTRUDER ALARMS SYSTEMS
VOI DEPOT ELECTRIC FENCE

| Bill of Quantities Voi Depot Page 1 | | | | | | | |
|--|---|------|-----|-------------------|--|---|--------------|
| No | Item Description | Unit | Qty | Country of origin | Unit Price (PPCBL Incl.) & VAT Excl. (Kes) | Total Price (PPCBL Incl.) & VAT Excl. (Kes) | Part Numbers |
| ELECTRIC FENCE ABOVE MASONRY WALLING | | | | | | | |
| The following in electric fence to cover 1400m Perimeter comprising 8 strands spaced 100mm centers above the walling and comprising necessary accessories in conformity with relevant standards and general good practice and allow for works to be installed, tested and commissioned to client's satisfaction with the following: | | | | | | | |
| A | Adequate mains energizer DRUID 15 Nemtek or Equivalent 4.6J | No. | 2 | | | | |
| | Output or equal and approved complete with back-up battery and Keypad as per the specifications. | | | | | | |
| B | GSM/IP Module as per detailed specifications. | No | 1 | | | | |
| C | Lead out under gate cable including excavating in road works with necessary ducting and making good No. | M | 600 | | | | |
| Total Carried to Collection Voi Depot page 1 | | | | | | | |

| Bill of Quantities Voi Depot Page 2 | | | | | | | |
|---|---|------|-------|-------------------|--|---|--------------|
| No | Item Description | Unit | Qty | Country of origin | Unit Price (PPCBL Incl.) & VAT Excl. (Kes) | Total Price (PPCBL Incl.) & VAT Excl. (Kes) | Part Numbers |
| A | High tensile 1.6mm fence wire (HT) | M | 12800 | | | | |
| B | Fence Poles Double Galvanized Electroplated, double galvanized square tube 25 x 25 x 1.5mm thick steel Hollow Square Tube for W and S insulators posts with plastic top caps. Apply Metal primer before installing and 2 finishing coats of 1st quality gloss paint "Crown" including embedding 200mm deep in the reinforced columns and walls Complete with metal lugs and approved by the client. | No. | 559 | | | | |
| C | Siren Kit completes with box, sounder and strobe 12VDC Security sounder and strobe with a range of 1 km as per detailed specifications. | No. | 1 | | | | |
| D | W-Insulators High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards | Item | 1 | | | | |
| Total Carried to Collection Voi Depot page 2 | | | | | | | |

| Bill of Quantities Voi Depot Page 3 | | | | | | | |
|---|---|------|------|-------------------|--|---|--------------|
| No | Item Description | Unit | Qty | Country of origin | Unit Price (PPCBL Incl.) & VAT Excl. (Kes) | Total Price (PPCBL Incl.) & VAT Excl. (Kes) | Part Numbers |
| A | Strain –S-insulators STF Black-High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards | Item | 1 | | | | |
| B | Earthing of the Electric fence as per the IEE regulations and to be done at intervals of 30M | Item | 1 | | | | |
| C | Hatari signs | No | 90 | | | | |
| D | Provide for power and Alarm cable as per IEE Standards | Item | 1 | | | | |
| E | Supply and fix Razor wire at the top of the boundary wall confirming to the following specifications coil: -size 450mm diameter, Blade profile Ripper Razor wire, stretch factor - maximum of 10m per coil. And secured with steel plates at 1M centers (Galvanized) | M | 1400 | | | | |
| Total Carried to Collection Voi Depot page 3 | | | | | | | |

| Bill of Quantities Voi Depot Page 4 | | | | | | | |
|---|--|------|-----|-------------------|--|---|--------------|
| No | Item Description | Unit | Qty | Country of origin | Unit Price (PPCBL Incl.) & VAT Excl. (Kes) | Total Price (PPCBL Incl.) & VAT Excl. (Kes) | Part Numbers |
| A | Energizer Cabinet with following specs: | | | | | | |
| | Energizer steel cabinet 500x500x250mm fabricated from 25x25x3mm angle line framing and 3mm thick plain sheet with lockable door including painting and mounting to Client's approval. | No. | 2 | | | | |
| B | AVS 30A voltage guard | No. | 1 | | | | |
| C | Allow for installation, configurations, Training, Testing and Commissioning to client's satisfaction. Installation to include all necessary civil and electrical works. Contractor to submit 3no identical handover box files will all correspondences of works and including drawings, layouts, manuals. To be done in consultation with the client for more details and format. | Item | 1 | | | | |
| D | Allow for the integration of the Systems to existing Genetec or hikcentral security Management system in Liaison with the supporting Kplc Genetec or hikcentral integrator. Include cost for all necessary Genetec or hikcentral Licenses and related costs to allow full integration and allowing full operationalization in Genetec or hikcentral mission control, both at Regional and central security control room. | Lot | 1 | | | | |
| Total Carried to Collection Voi Depot page 4 | | | | | | | |

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| SUMMARY PAGE VOI DEPOT ELECTRIC FENCE | | |
| BILL OF QUANTITIES | | |
| Total Carried to Collection Voi Depot page 1 | | |
| Total Carried to Collection Voi Depot page 2 | | |
| Total Carried to Collection Voi Depot page 3 | | |
| Total Carried to Collection Voi Depot page 4 | | |
| | | |
| Sub-Total (PPCBL Incl.) & VAT Excl. (Kes) - Voi Depot Electric Fence | | |

LOT 1: INSTALLATION OF ELECTRIC FENCES & INTRUDER ALARMS SYSTEMS
KIBOKO SUBSTATION ELECTRIC FENCE

| Bill of Quantities Kiboko Substation Page 1 | | | | | | | |
|---|---|------|-----|-------------------|--|---|--------------|
| No | Item Description | Unit | Qty | Country of origin | Unit Price (PPCBL Incl.) & VAT Excl. (Kes) | Total Price (PPCBL Incl.) & VAT Excl. (Kes) | Part Numbers |
| | FREE-STANDING 16 -Lines elephant protection Electric Fence to cover 423m Perimeter comprising 16 strands spaced 100mm comprising of Well treated Wooden Poles and with necessary accessories in conformity with relevant standards and general good practice and allow for works to be installed, tested and commissioned to client's satisfaction with the following: | | | | | | |
| A | Adequate mains energizer Nemtek or Equivalent minimum 10J Output or equivalent and approved complete with back-up battery and Keypad as per the specifications. | No. | 2 | | | | |
| B | GSM/IP Module as per detailed specifications. | No | 1 | | | | |
| C | Lead out under gate cable including excavating in road works with necessary ducting and making good disturbed surfaces | M | 500 | | | | |
| D | Allow for redesigning while repairing and replacing damaged Concrete Poles up to 30% of existing Poles | | | | | | |
| | Total Carried to Collection Kiboko Substation page 1 | | | | | | |

| Bill of Quantities Kiboko Substation Page 2 | | | | | | | |
|---|---|------|------|-------------------|--|---|--------------|
| No | Item Description | Unit | Qty | Country of origin | Unit Price (PPCBL Incl.) & VAT Excl. (Kes) | Total Price (PPCBL Incl.) & VAT Excl. (Kes) | Part Numbers |
| A | High tensile 2.5mm fence wire (HT) | M | 7000 | | | | |
| B | Fence Poles Allow for well treated Elephant wooden poles as per Elephant protection Electric fence standards | No. | 183 | | | | |
| C | Siren Kit complete with box, sounder and strobe 12VDC Security sounder and strobe with a range of 1 km as per detailed specifications. | No. | 1 | | | | |
| D | W-Insulators High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards | Item | 1 | | | | |
| E | Chain Link Allow for redesigning and reconstructing existing Chain Link with new one while utilizing up to 50% of existing. | Item | 1 | | | | |
| Total Carried to Collection Kiboko Substation page 2 | | | | | | | |

| Bill of Quantities Kiboko Substation Page 3 | | | | | | | |
|---|---|------|-----|-------------------|--|---|--------------|
| No | Item Description | Unit | Qty | Country of origin | Unit Price (PPCBL Incl.) & VAT Excl. (Kes) | Total Price (PPCBL Incl.) & VAT Excl. (Kes) | Part Numbers |
| A | Strain –S-insulators | Item | 1 | | | | |
| | STF Black-High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards | | | | | | |
| B | Earthing of the Electric fence as per the IEE regulations and to be done at intervals of 30M | Item | 1 | | | | |
| C | Hatari signs | No | 40 | | | | |
| D | Provide for power and Alarm cable as per IEE Standards | Item | 1 | | | | |
| E | Supply and fix Razor wire along the free- stranding electric fence, conforming to the following specifications: - 980mm diameter coil size Double Galvanized Razor wire; Blade profile - Ripper Razor Wire; Stretch factor - maximum of 10M per coil and secured with steel plates at 1M centers and with two coatings to prevent rust. | M | 550 | | | | |
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| Total Carried to Collection Kiboko Substation page 3 | | | | | | | |

| Bill of Quantities Kiboko Substation Page 4 | | | | | | | |
|---|--|------|-----|-------------------|--|---|--------------|
| No | Item Description | Unit | Qty | Country of origin | Unit Price (PPCBL Incl.) & VAT Excl. (Kes) | Total Price (PPCBL Incl.) & VAT Excl. (Kes) | Part Numbers |
| A | Energizer Cabinet with following specs: Energizer steel cabinet 500x500x250mm fabricated from 25x25x3mm angle line framing and 3mm thick plain sheet with lockable door including painting and mounting to Client's approval. | No. | 2 | | | | |
| B | AVS 30A voltage guard | No. | 1 | | | | |
| C | Allow for installation, configurations, Training, Testing and Commissioning to client's satisfaction. Installation to include all necessary civil and electrical works. Contractor to submit 3no identical handover box files will all correspondences of works and including drawings, layouts, manuals. To be done in consultation with the client for more details and format. | Item | 1 | | | | |
| D | Allow for the integration of the Systems to existing Genetec or hikcentral security Management system in Liaison with the supporting Kplc Genetec or hikcentral integrator. Include cost for all necessary Genetec or hikcentral Licenses and related costs to allow full integration and allowing full operationalization in Genetec or hikcentral mission control, both at Regional and central security control room. | Lot | 1 | | | | |
| Total Carried to Collection Kiboko Substation page 4 | | | | | | | |

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| | SUMMARY PAGE KIBOKO SUBSTATION ELECTRIC FENCE BILL OF QUANTITIES | |
| | Total Carried to Collection Kiboko Substation page 1 | |
| | Total Carried to Collection Kiboko Substation page 2 | |
| | Total Carried to Collection Kiboko Substation page 3 | |
| | Total Carried to Collection Kiboko Substation page 4 | |
| | | |
| | SUB-TOTAL (PPCBL Incl.) & VAT Excl. (Kes) - KIBOKO SUBSTATION ELECTRIC FENCE | |

LOT 1: INSTALLATION OF ELECTRIC FENCES & INTRUDER ALARMS SYSTEMS
NAIROBI NORTH SUBSTATION ELECTRIC FENCE

| Bill of Quantities Nairobi North Substation Page 1 | | | | | | | |
|--|---|------|-----|-------------------|--|---|--------------|
| No | Item Description | Unit | Qty | Country of origin | Unit Price (PPCBL Incl.) & VAT Excl. (Kes) | Total Price (PPCBL Incl.) & VAT Excl. (Kes) | Part Numbers |
| | ELECTRIC FENCE ABOVE MASONRY WALLING The following in electric fence to cover 922m Perimeter comprising 8 strands spaced 100mm centers above the walling and comprising necessary accessories in conformity with relevant standards and general good practice and allow for works to be installed, tested and commissioned to client's satisfaction with the following | | | | | | |
| A | Adequate mains energizer DRUID Nemtek or Equivalent 8J Output or equal and approved complete with back-up battery and Keypad as per the specifications. | No. | 2 | | | | |
| B | GSM/IP Module as per detailed specifications. | No | 1 | | | | |
| C | Lead out under gate cable including excavating in road works with necessary ducting and making good No. | M | 800 | | | | |
| Total Carried to Collection Nairobi North Substation page 1 | | | | | | | |

| Bill of Quantities Nairobi North Substation Page 2 | | | | | | | |
|--|---|------|--------|-------------------|--|---|--------------|
| No | Item Description | Unit | Qty | Country of origin | Unit Price (PPCBL Incl.) & VAT Excl. (Kes) | Total Price (PPCBL Incl.) & VAT Excl. (Kes) | Part Numbers |
| A | High tensile 1.6mm fence wire (HT) | M | 36,666 | | | | |
| B | Fence Poles Double Galvanized Electroplated, double galvanized square tube 25 x 25 x 1.5mm thick steel Hollow Square Tube for W and S insulators posts with plastic top caps. Apply Metal primer before installing and 2 finishing coats of 1st quality gloss paint "Crown" including embedding 200mm deep in the reinforced columns and walls Complete with metal lugs and approved by the client. | No. | 430 | | | | |
| C | Siren Kit complete with box, sounder and strobe 12VDC Security sounder and strobe with a range of 1 km as per detailed specifications. | No. | 1 | | | | |
| D | W-Insulators High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards | Item | 1 | | | | |
| Total Carried to Collection Nairobi North Substation page 2 | | | | | | | |

| Bill of Quantities Nairobi North Substation Page 3 | | | | | | | |
|--|--|------|-----|-------------------|--|---|--------------|
| No | Item Description | Unit | Qty | Country of origin | Unit Price (PPCBL Incl.) & VAT Excl. (Kes) | Total Price (PPCBL Incl.) & VAT Excl. (Kes) | Part Numbers |
| A | Strain –S-insulators STF Black-High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards | Item | 1 | | | | |
| B | Earthing of the Electric fence as per the IEE regulations and to be done at intervals of 30M | Item | 1 | | | | |
| C | Hatari signs | No | 40 | | | | |
| D | Provide for power and Alarm cable as per IEE Standards | Item | 1 | | | | |
| E | Supply and fix Razor wire at the top of the boundary wall conforming to the following specifications: - coil size - 450mm diameter, Blade profile - Ripper Razor Wire, Stretch factor - maximum of 10M per coil and secured with steel plates at 1M centers (Galvanized) | M | 922 | | | | |
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| Total Carried to Collection Nairobi North Substation page 3 | | | | | | | |

| Bill of Quantities Nairobi North Substation Page 4 | | | | | | | |
|--|--|------|-----|-------------------|--|---|--------------|
| No | Item Description | Unit | Qty | Country of origin | Unit Price (PPCBL Incl.) & VAT Excl. (Kes) | Total Price (PPCBL Incl.) & VAT Excl. (Kes) | Part Numbers |
| A | Energizer Cabinet with following specs: Energizer steel cabinet 500x500x250mm fabricated from 25x25x3mm angle line framing and 3mm thick plain sheet with lockable door including painting and mounting to Client's approval. | No. | 2 | | | | |
| B | AVS 30A voltage guard | No. | 1 | | | | |
| C | Allow for installation, configurations, Training, Testing and Commissioning to client's satisfaction. Installation to include all necessary civil and electrical works. Contractor to submit 3no identical handover box files with all correspondences of works and including drawings, layouts, manuals. To be done in consultation with the client for more details and format. | Item | 1 | | | | |
| D | Allow for the integration of the Systems to existing Genetec or hikcentral security Management system in Liaison with the supporting Kplc Genetec or hikcentral integrator. Include cost for all necessary Genetec or hikcentral Licenses and related costs to allow full integration and allowing full operationalization in Genetec or hikcentral mission control, both at Regional and central security control room. | Lot | 1 | | | | |
| Total Carried to Collection Nairobi North Substation page 4 | | | | | | | |

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|--|--|--|--|
| | SUMMARY PAGE NAIROBI NORTH SUBSTATION ELECTRIC FENCE BILL OF QUANTITIES | | |
| | Total Carried to Collection Nairobi North Substation page 1 | | |
| | Total Carried to Collection Nairobi North Substation page 2 | | |
| | Total Carried to Collection Nairobi North Substation page 3 | | |
| | Total Carried to Collection Nairobi North Substation page 4 | | |
| | | | |
| | Sub-Total (PPCBL Incl.) & VAT Excl. (Kes) - Nairobi North Substation Electric Fence | | |

LOT 1: INSTALLATION OF ELECTRIC FENCES & INTRUDER ALARMS SYSTEMS
THIKA DEPOT ELECTRIC FENCE

| Bill of Quantities Thika Depot Page 1 | | | | | | | |
|---------------------------------------|--|------|-----|-------------------|--|---|--------------|
| No | Item Description | Unit | Qty | Country of origin | Unit Price (PPCBL Incl.) & VAT Excl. (Kes) | Total Price (PPCBL Incl.) & VAT Excl. (Kes) | Part Numbers |
| | ELECTRIC FENCE ABOVE MASONRY WALLING The following in electric fence to cover 900m Perimeter comprising 8 strands spaced 100mm centers above the walling and comprising necessary accessories in conformity with relevant standards and general good practice and allow for works to be installed, tested and commissioned to client's satisfaction with the following: | | | | | | |
| A | Adequate mains energizer DRUID 15 Nemtek or Equivalent 4.6J Output or equal and approved complete with back-up battery and Keypad as per the specifications. | No. | 2 | | | | |
| B | GSM/IP Module as per detailed specifications. | No | 1 | | | | |
| C | Lead out under gate cable including excavating in road works with necessary ducting and making good No. | M | 400 | | | | |
| | Total Carried to Collection Thika Depot page 1 | | | | | | |

| Bill of Quantities Thika Depot Page 2 | | | | | | | |
|---|---|------|------|-------------------|--|---|--------------|
| No | Item Description | Unit | Qty | Country of origin | Unit Price (PPCBL Incl.) & VAT Excl. (Kes) | Total Price (PPCBL Incl.) & VAT Excl. (Kes) | Part Numbers |
| A | High tensile 1.6mm fence wire (HT) | M | 9088 | | | | |
| B | Fence Poles Double Galvanized Electroplated, double galvanized square tube 25 x 25 x 1.5mm thick steel Hollow Square Tube for W and S insulators posts with plastic top caps. Apply Metal primer before installing and 2 finishing coats of 1st quality gloss paint "Crown" including embedding 200mm deep in the reinforced columns and walls Complete with metal lugs and approved by the client. | No. | 730 | | | | |
| C | Siren Kit complete with box, sounder and strobe 12VDC Security sounder and strobe with a range of 1 km as per detailed specifications. | No. | 1 | | | | |
| D | W-Insulators High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards | Item | 1 | | | | |
| Total Carried to Collection Thika Depot page 2 | | | | | | | |

| Bill of Quantities Thika Depot Page 3 | | | | | | | |
|---|--|------|-----|-------------------|--|---|--------------|
| No | Item Description | Unit | Qty | Country of origin | Unit Price (PPCBL Incl.) & VAT Excl. (Kes) | Total Price (PPCBL Incl.) & VAT Excl. (Kes) | Part Numbers |
| A | Strain –S-insulators STF Black-High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards | Item | 1 | | | | |
| B | Earthing of the Electric fence as per the IEE regulations and to be done at intervals of 30M | Item | 1 | | | | |
| C | Hatari signs | No | 50 | | | | |
| D | Provide for power and Alarm cable as per IEE Standards | Item | 1 | | | | |
| E | Supply and fix Razor wire at the top of the boundary wall conforming to the following specifications: - coil size - 450mm diameter, Blade profile - Ripper Razor Wire, Stretch factor - maximum of 10M per coil and secured with steel plates at 1M centers (Galvanized) | M | 900 | | | | |
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| Total Carried to Collection Thika Depot page 3 | | | | | | | |

Bill of Quantities Thika Depot Page 4

| No | Item Description | Unit | Qty | Country of origin | Unit Price (PPCBL Incl.) & VAT Excl. (Kes) | Total Price (PPCBL Incl.) & VAT Excl. (Kes) | Part Numbers |
|---|--|------|-----|-------------------|--|---|--------------|
| A | Energizer Cabinet with following specs: Energizer steel cabinet 500x500x250mm fabricated from 25x25x3mm angle line framing and 3mm thick plain sheet with lockable door including painting and mounting to Client's approval. | No. | 2 | | | | |
| B | AVS 30A voltage guard | No. | 1 | | | | |
| C | Allow for installation, configurations, Training, Testing and Commissioning to client's satisfaction. Installation to include all necessary civil and electrical works. Contractor to submit 3no identical handover box files with all correspondences of works and including drawings, layouts, manuals. To be done in consultation with the client for more details and format. | Item | 1 | | | | |
| D | Allow for the integration of the Systems to existing Genetec or hikcentral security Management system in Liaison with the supporting Kplc Genetec or hikcentral integrator. Include cost for all necessary Genetec or hikcentral Licenses and related costs to allow full integration and allowing full operationalization in Genetec or hikcentral mission control, both at Regional and central security control room. | Lot | 1 | | | | |
| Total Carried to Collection Thika Depot page 4 | | | | | | | |

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| SUMMARY PAGE THIKA DEPOT ELECTRIC FENCE | | |
| BILL OF QUANTITIES | | |
| Total Carried to Collection Thika Depot page 1 | | |
| Total Carried to Collection Thika Depot page 2 | | |
| Total Carried to Collection Thika Depot page 3 | | |
| Total Carried to Collection Thika Depot page 4 | | |
| | | |
| Sub- Total (PPCBL Incl.) & VAT Excl. (Kes) - Thika Depot Electric Fence | | |