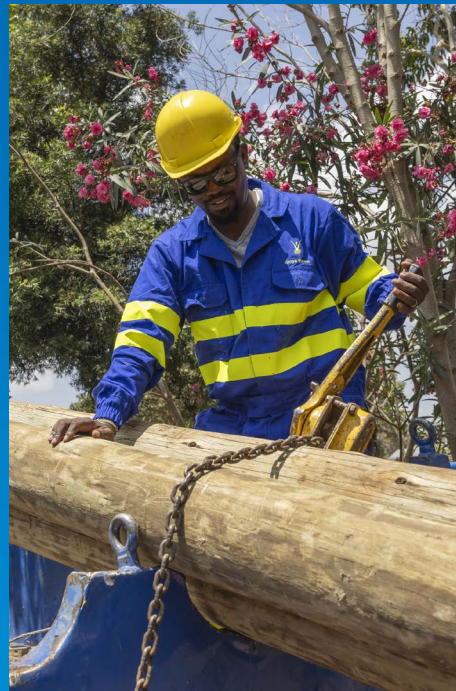


COST HANDBOOK

FOR POWER LINE CONSTRUCTION
AND MAINTENANCE SERVICES

2025



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PREFACE



Kenya Power remains committed to delivering high-quality power line construction and maintenance services in an evolving technological and operational landscape. As demand for reliable electricity distribution grows, so does the need for efficiency, cost-effectiveness, and sustainability in executing these critical services. To meet these demands, outsourcing labour and transport services has become a strategic approach to enhancing efficiency, ensuring continuity, and upholding the highest industry standards.

This handbook serves as a standardised reference for labour and transport services in power line construction and maintenance. It provides market-aligned rates to promote transparency and consistency in procurement, budgeting, and cost projections. Designed for both internal and external stakeholders—including bidders—it facilitates the preparation of tender documents, work plans, and budget assessments while aligning with Kenya Power's distribution standards and guidelines to ensure compliance with quality and operational benchmarks.

The rates and service classifications in this handbook will be periodically reviewed and updated to reflect technological advancements and market conditions. This approach ensures that Kenya Power remains at the forefront of industry best practices while driving efficiency and sustainability in all operations.

I trust this handbook will be a valuable resource in guiding our partnerships, procurement processes, and overall operational efficiency. Together, we continue to power progress and innovation in the energy sector.

Dr. Eng. Joseph Siror,
(FIEK)

ACKNOWLEDGEMENT

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1. Ministry of Energy & Petroleum
2. The National Treasury
3. Ministry of Lands, Public Works, Housing, and Urban Development - State Department of Public Works
4. Energy Petroleum Regulatory Authority (EPRA)
5. Public Procurement Regulatory Authority (PPRA)
6. National Construction Authority (NCA)
7. Rural Electrification & Renewable Energy Corporation (REREC)
8. Representatives of Power line Contractors

ABBREVIATIONS AND ACRONYMS

ADSS	All-Dielectric Self-Supporting (fiber optic cable)
BRC	BRC (British Reinforced Concrete) (commonly refers to wire mesh)
EPRA	Energy and Petroleum Regulatory Authority
HDPE	High-Density Polyethylene
HV	High Voltage
KPLC	Kenya Power and Lighting Company
kV	Kilovolt
kVA	Kilovolt-Ampere
LV	Low Voltage
MDD	Maximum Dry Density
MS	Mild Steel
MV	Medium Voltage
MVA	Megavolt-Ampere
NCA	National Construction Authority
OPGW	Optical Ground Wire
PME	Protective Multiple Earthing
PPRA	Public Procurement Regulatory Authority
PVC	Polyvinyl Chloride
REREC	Rural Electrification and Renewable Energy Corporation
RHS	Rectangular Hollow Section
VAT	Value Added Tax

GLOSSARY OF TERMS

Backfill	The process of refilling an excavated trench or hole after the installation of underground cables, poles, or pipes
Earthing	The process of connecting electrical installations to the ground to ensure safety and prevent electric shocks
Erection/Pole Dressin	The installation and preparation of poles for power distribution, including mounting insulators, crossarms, and other equipment
Fault Location	The process of identifying and diagnosing faults in an electrical system to restore normal operation.
Flying Stay Making & Installation	A stay wire used to support poles at angles or terminal points, installed a span away from the pole
Flying Stay Pole	A pole used to provide additional support for overhead power lines in areas where ground stay installation is not feasible
Ground Mounting	The installation of electrical components or structures directly onto the ground
H-Pole Structure	A structure consisting of two poles arranged in an „H“ shape, commonly used for transmission and distribution networks
Micortunnelling	A trenchless method used for installing underground cables, conduits, or pipes with minimal surface disruption
Recovery	The process of dismantling and retrieving electrical infrastructure components, such as poles and wires, for reuse or disposal
Reinstate	The restoration of an area after electrical work has been completed, including repairing roads, sidewalks, or landscaping
Service Turret	A small structure used to house electrical service components such as meters and connection points.
Splicing	The process of joining two electrical cables or conductors to ensure continuity in a circuit.
Stay Making	The process of fabricating and installing stay wires to provide structural support for poles and towers.
Storm Water	Rainwater that collects and flows over surfaces, potentially affecting electrical installations if not managed properly
Street Lighting Bracket	A support structure used to mount streetlights onto poles
Street Lighting Column	A pole specifically designed to support street lighting fixtures
Strut Making	The process of preparing and installing support struts used for reinforcing electrical structures
Termination	The process of properly ending or connecting an electrical cable to equipment, ensuring secure and safe operation

DISCLAIMER

The estimates stated are exclusive of VAT as well as the PPRA levy taxes



INTRODUCTION

Kenya Power undertakes power line construction and maintenance works to support business growth, ensure quality assurance, and promote sustainability. Over the years, the need to outsource these services has grown to enhance efficiency and continuity. Given the dynamic nature of these services—driven by evolving technological and operational landscapes—there has been an impact on the business model.

This handbook has been developed as a standardised reference for the various labour and transport services associated with power line construction and maintenance, along with prevailing market rates. The services and rates outlined herein will be periodically reviewed and updated to align with technological advancements and market trends.

Prepared in compliance with Section 54(2)(B) of the Public Procurement and Asset Disposal Act, 2015, and all applicable laws, this handbook will be reviewed regularly to ensure continued legal compliance. Additionally, it should be read alongside Kenya Power's Distribution Standards and Guidelines Handbook to ensure adherence to established standards governing power line construction and maintenance.

1. Purpose of the Handbook

This handbook provides guidelines on the cost of delivering various labour and transport services for power line construction and maintenance. The guiding rates have been developed based on prevailing market conditions to establish a standardised pricing framework for outsourced services, enabling accurate cost projections.

For ease of interpretation, services have been categorised accordingly. While certain services may be applicable in multiple work situations, each appears only once in this handbook.

2. Application of the Handbook

This handbook serves as a guide for:

- Preparing tender documents for the procurement of labour and transport services related to power line construction and maintenance.
- Evaluating bid prices during the procurement process.
- Developing annual work plans and budgets.
- Acting as an auditing tool.
- Providing a reference for interested bidders in preparing bid documents, ensuring transparency in procurement.

3. Methodology

The cost estimates in this handbook are based on quotes submitted by contractors during various tendering processes over the past seven years. These historical quotes have been carefully analysed and adjusted to reflect current market trends, inflation rates, and evolving industry standards.

SCHEDULE OF SERVICES

The schedules of services, the associated rates and descriptions is as indicated in the various tables and appendices.



OVERHEAD POWER LINE CONSTRUCTION WORKS

1) Hole Digging and Reinforcement

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Pole/stay hole digging per foot (soft soil including murrum)	ft	400
2	Pole/stay hole digging per foot (rocky ground)	ft	900
3	Pole hole reinforcement for marshy and rocky soil conditions per foot of reinforcement. i.e. (3ftX3ftX1ft deep)	ft	1,000

2) Erection, Realignment and Recovery of Poles, Street Lighting Columns & Struts

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Concrete pole erection - 10m	No.	5,000
2	Concrete pole erection - 11m & 12m long poles per pole	No.	6,000
3	Concrete pole erection - 14m & 15m long poles per pole	No.	7,000
4	Concrete pole erection - 18m long poles per pole	No.	9,000
5	Wooden pole erection - 10m long poles	No.	800
6	Wooden pole erection - 11m, 12m & 14m long poles	No.	2,000
7	Wooden pole erection - 15m & 18m long poles	No.	5,000
8	LV & MV strut making & erection (concrete pole)	No.	6,500
9	66kV strut making & erection (concrete poles)	No.	8,000
10	LV & MV Strut making & erection (wooden poles only)	No.	1,000
11	66kV strut making & erection wooden poles	No.	5,000
12	Erection of a 10m steel street lighting column (per column)	No.	800
13	Erection of an 8m steel street lighting column (per column)	No.	800
14	Concrete pole re-alignment per pole (where new pole hole is necessary) for 11m, 12m, 14m, 15m & 18m long pole	No.	9,600

OVERHEAD POWER LINE CONSTRUCTION WORKS

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
15	Concrete pole re-alignment per pole (where new pole hole is not necessary) for 11m, 12m, 14m, 15m & 18m long pole	No.	5,000
16	Concrete pole recovery - 11m & 12m long poles including all the associated fittings	No.	5,000
17	Concrete pole recovery - 14m, 15m & 18m long poles including all the associated fittings	No.	6,000
18	Concrete pole recovery - 10m long poles including all the associated fittings	No.	5,000
19	Wooden pole recovery - 10m long poles including all the associated fittings	No.	600
20	LV & MV Wooden pole re-alignment per pole (where new pole hole is necessary)	No.	7,000
21	66kV Wooden pole re-alignment per pole (where new pole hole is necessary)	No.	9,000
22	LV & MV Wooden pole re-alignment per pole (where new pole hole is not necessary)	No.	2,000
23	66kV Wooden pole re-alignment per pole (where new pole hole is not necessary)	No.	3,000
24	Wooden pole recovery - 11m, 12m & 14m long poles	No.	1,000
25	Wooden pole recovery - 15m & 18m long poles	No.	3,000
26	Recovery of an existing steel street lighting column and delivery to store (per recovered column)	No.	600

3) Stay Making & Installation

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	LV Flying stay making & installation (excluding installation of the flying stay pole)	No.	3,200
2	11kV, 33kV & 66kV flying stay making & installation (excluding the cost of erection of the flying stay pole)	No.	4,000

OVERHEAD POWER LINE CONSTRUCTION WORKS

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
3	LV normal stay making and installation	No.	1,200
4	11kV, 33kV & 66kV normal stay making and installation	No.	2,500

4) Pole Dressing

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	LV pole dressing including pole cap (1 wire) for both concrete poles and wooden poles	No.	400
2	66kV pole dressing including pole cap, danger plate, barbed wire and pole number plate (1 wire)	No.	1,000
3	11kV & 33kV pole dressing including pole cap, danger plate, barbed wire and pole number plate (1 wire)	No.	400

5) Stringing, Transfer & Recovery of Conductors, Aerial Earths And Aerial Bundled (ABC) Cables

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Single conductor stringing per km (150 sq. mm)	km	9,000
2	Single conductor stringing per km (300 sq. mm)	km	14,000
3	Single conductor stringing per km (75 sq. mm)	km	6,000
4	Single conductor stringing per km (50 sq. mm & 100 sq. mm bare/pvc)	km	4,000
5	LV ABC cable stringing (both 4 wire & 2-wire) per km	km	12,000
6	11kV & 33kV ABC cable stringing per bundle per km (3X70 sq. mm single core cables)	km	15,000
7	Single conductor recovery per km (150 sq. mm & 300 sq. mm)	km	5,000
8	Single conductor recovery per km (50 sq. mm & 100 sq. mm bare/pvc)	km	2,000
9	Single conductor recovery per km (75 sq. mm)	km	4,000

OVERHEAD POWER LINE CONSTRUCTION WORKS

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
10	Transfer of a single 150 sq. mm conductor during maintenance per km	km	12,000
11	Transfer of a single 300 sq. mm conductor during maintenance per km	km	16,000
12	Transfer of a single 75 sq. mm conductor during maintenance per km	km	9,000
13	11kV & 33kV ABC cable recovery per bundle per km (3X70 sq. mm single core cables)	km	4,000
14	LV ABC cable recovery per km	km	2,000

6) Installation and Recovery Of Autoreclosures, Air Break Switches, Surge Divertors, Solid Links & Fuse Mounts

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	11kV & 33kV air break switch installation	No.	6,000
2	66kV air break switch installation	No.	10,000
3	11kV, 33kV & 66kV air break switch recovery	No.	5,000
4	Autoreclosure unit installation	No.	6,000
5	Autoreclosure unit recovery (rate is for the auto-reclosing unit only)	No.	5,000
6	Installation of 11kV & 33kV taplin isolators/fuse mounts/ surge divertors (per piece)	No.	1,200
7	Recovery of 11kV & 33kV taplin isolators/fuse mounts/ surge diverters (per piece)	No.	800
8	Installation of 66kV surge diverters (per piece)	No.	2,000
9	Recovery of 66kV surge diverters (per piece)	No.	1,000

OVERHEAD POWER LINE CONSTRUCTION WORKS

7) Tree Cutting and Bush Clearing

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Cutting down a mature tree	No.	3,000
2	Pruning of a mature tree with over hanging branches	No.	2,000
3	Pruning of a mature tree with over hanging branches in cities and urban areas as listed in the appendix	No.	4,000
4	Bush clearing per km (for new lines)	km	10,000
5	Bush clearing per km for 11kV, 33kV and 66kV power lines (for existing lines requiring trace maintenance)	km	12,000
6	Bush clearing for LV lines per secondary substation	No.	40,000
7	Primary Substation weeding	m ²	50

8) Secondary Substation Installation Works

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Mounting of a 630kVA & 1MVA ground mounted transformer including termination of the associated leads, cables and circuits (excluding earthing)	No.	15,000
2	Installation of an LV circuit	No.	3,000
3	Installation of an LV distribution fuse panel 1600A-bulky	No.	10,000
4	Installation of a ring main unit	No.	12,000
5	Installation of a 12/18 way 600A service turret	No.	3,500
6	Commissioning of a secondary substation	No.	2,000
7	Dismantling a transformer old single pole structure	No.	2,000
8	Dismantling a transformer old H-pole structure	No.	4,000
9	Dressing a substation single pole structure	No.	3,000
10	Dressing a substation H-pole structure	No.	5,000
11	Mounting of a transformer on a single pole structure including termination of the associated leads, cables and circuits (excluding 630kVA & 1MVA transformers and earthing)	No.	3,500

OVERHEAD POWER LINE CONSTRUCTION WORKS

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
12	Mounting of a transformer on a H-pole structure including termination of the associated leads, cables and circuits (excluding 630kVA & 1MVA transformers and earthing)	No.	4,000
13	Substation welding (at the base on platform & all necessary spot welding) to project engineer's approval (for new transformers, per transformer)	No.	3,000
14	Recovering a transformer and return to store	No.	7,000
15	Recovery of an LV circuit	No.	1,500
16	Unwelding a transformer (existing transformers)	No.	3,000
17	Mounting of a transformer above the HT line on a single pole structure including termination of the associated leads, cables and circuits.	No.	5,000
18	Mounting of a transformer above the HT line on a H-pole structure including termination of the associated leads, cables and circuits.	No.	6,000

9) Earthing Installation Works

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Substation earthing (MV earth, surge diverter earth & LV earth)	No.	5,000
2	Aerial earth installation per km (excluding installation of earth leads)	km	6,500
3	Aerial earth recovery per km	km	3,300
4	Earthing comprising of a 50mm earth lead, earth electrode and 300mm by 300mm concrete manhole with a removable cover	No.	4,000
5	PME installation (this includes aerial wire and OPGW earthing)	No.	1,000

OVERHEAD POWER LINE CONSTRUCTION WORKS

10) Installation of Energy Meters

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Installation of a single phase post-paid/ pre-paid meter	No.	500
2	Installation of a three phase post-paid/ pre-paid meter	No.	500
3	LV large power pole mounted smart meter installation	No.	1,000
4	LV large power ground mounted smart meter installation	No.	1,000
5	11kV & 33kV large power pole mounted smart meter installation	No.	1,000
6	11kV & 33kV large power ground mounted smart meter installation	No.	1,000

11) Installation of Fiber Optic Cables

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Installation of an ADSS fiber optic communication cable on existing lines	km	7,000
2	Recovery of an ADSS fiber optic communication cable including recovery of the associated dressing materials	km	5,000
3	Installation of an OPGW fiber optic communication cable on existing line	km	8,000
4	Recovery of an OPGW fiber optic communication cable including recovery of the associated dressing materials	km	7,000
5	Jointing and termination of one core of an OPGW/ ADSS fiber optic cable (splicing).	No.	100
6	Installation of an ADSS fiber optic communication cable on new lines	km	5,600
7	Installation of an OPGW fiber optic communication cable on new lines	km	6,400

OVERHEAD POWER LINE CONSTRUCTION WORKS

12) Other Street Lighting Works

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Recovery of an existing steel street lighting bracket	No.	600
2	Spot welding a steel street lighting column	No.	500
3	Installation of a pole mounted control pillar/box	No.	3,000
4	Installation of a street lighting bracket	No.	700
5	Installation/replacement of a lantern/flood light	No.	1000
6	Repair of components of a pole mounted control pillar/box	No.	600
7	Establishing a concrete foundation for a steel street lighting column	No.	3,500

CABLE WORKS

1) Cable Installation and Recovery

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Laying/recovery of a single core cable of cross-sectional area ranging from 630 sq. mm to 1000 sq. mm in trenches and ducts.	M	250
2	Laying/ recovery of a 3-core or 4-core cable of cross-sectional area ranging from 185sq. mm to 400sq. mm in trenches and ducts.	M	350
3	Laying/ recovery of a 3-core or 4-core cable of cross-sectional area ranging from 25sq. mm to 120sq. mm and a 300 sq. mm single core cable in trenches and ducts.	M	220
4	Laying/ recovery of a 10 sq. mm,16 sq. mm single phase cable and fibre optic cable in trenches and ducts	M	50
5	Stringing of a 10 sq. mm, 16 sq. mm single core and 25sq. mm & 70 sq. mm 4-core cable	M	100
6	Laying/recovery of a 66kV single core cable of cross-sectional area ranging from 300sq. mm to 400 sq. mm in a trench or duct	M	750
7	Laying/recovery of a 132 kV/220 kV/400 kV cable in a trench or duct	M	1260
8	Installation of cable route markers at a distance of 10 meters apart.	No.	30

2) Cable Termination and Jointing

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Termination (compression of lugs) of 10sq. mm and 16sq. mm cables	Pc	50
2	Termination of 25sq. mm, 70sq. mm, 120sq. mm 4-core cables including ABC cables	Pc	500
3	Termination of 185sq. mm and 300sq. mm 4-core cables including low voltage single core cables	Pc	800

CABLE WORKS

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
4	Termination of one core of 11kV and 33kV single core/3-core and ABC cable,	Pc	1,200
5	Termination of 66kV single-core cables	Pc	5,740
6	Termination/installation of sealing ends of 132kV, 220kV and 400kV single-core cables	Pc	20,800
7	Jointing of 10sq. mm and 16 sq. mm cables	Pc	800
8	Jointing of 25sq. mm, 70sq. mm, 150sq. mm 4-core and LV ABC cables	Pc	1,400
9	Jointing of 185sq. mm and 300sq. mm 4-core cables including single core cables of the same cross-sectional areas	Pc	1,900
10	Jointing of 11kV and 33kV single core, 3-core and MV ABC cables	Pc	4,200
11	Jointing of 66kV single core cables	Pc	15,750
12	Jointing of 132kV, 220kV and 400kV single core cables	Pc	25,780

3) Cable Testing and Fault Location

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Pressure testing of 10sq. mm, 16sq. mm single phase cables	Pc	1,000
2	Pressure testing of LV single-core, 4-core and ABC cables of cross-sectional area ranging from 25sq. mm to 1000 sq. mm	Pc	1,500
3	Pressure testing of 11kV and 33kV 3-core, single core and ABC cables	Pc	2,200
4	Pressure testing of 66kV single core cables	Pc	5,000
5	Pressure testing of 132kV, 220kV and 400kV single core cables	Pc	12,590

CABLE WORKS

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
6	Fault location on 10sq. mm and 16sq. mm single phase cables	Pc	3,500
7	Fault location on an LV three phase 4-core, single core or ABC cable of cross-sectional area between 25 sq. mm to 1000 sq. mm	Pc	4,600
8	Fault location on an 11kV and 33kV single core, 3-core and ABC cable,	Pc	6,000
9	Fault location on a 66kV single core cable	Pc	8,000
10	Fault location on a 132kV, 220kV and 400kV single core cable	Pc	12,000

1) Excavation and Microtunnelling

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Microtunneling under a tarmac road including installation of a 150mm diameter PVC cable duct as required and concrete surround at the edges.	M	6,750
2	Microtunneling under a tarmac road including installation of a 100mm diameter PVC cable duct as required and concrete surround at the edges.	M	6,140
3	Microtunneling under a tarmac road including installation of a 50mm diameter PVC cable duct as required and concrete surround at the edges.	M	4,800
4	Wall drilling including installation of a 150mm diameter PVC cable duct as required	No.	3,600
5	Excavate and construct a manhole complete with cover as per appropriate KPLC standards of finishing	M ³	15,800
6	Excavate and construct a turret/distribution board plinth as per KPLC standards.	No	2,550
7	Clear a 0.6m to 0.75m wide cable trench site of all bushes, shrubs, undergrowth and the like, load and cart away from site	M ²	30
8	Excavate a 0.6m to 0.75m wide cable trench in soil (cotton, murrum, red soil, clay, loam, etc.) commencing from ground level and not exceeding 3.0m deep, load and cart away the excess excavated material from site unless instructed otherwise by the KPLC supervisor on site	M ³	640

CIVIL WORKS

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
9	Excavate a 0.6m to 0.75m wide cable trench in a tarmac footpath or pavement (precast concrete, insitu concrete, terrazzo, reinforced concrete, cabroworks etc.) commencing from the finished pavement level and not exceeding 3.0m deep and load and cart away the excess excavated material unless instructed otherwise by the KPLC supervisor on site	M ³	1,250
10	Excavate a 0.6m to 0.75m wide cable trench in a tarmac road commencing from the finished road level and not exceeding 3.0m deep, and cart away the excess excavated material unless otherwise directed by the KPLC supervisor on site.	M ³	1,850
11	Excavate a 0.6m to 0.75m wide cable trench in rock of all classes (A, B, C, etc.) and cart away the excess excavated material unless otherwise directed by the KPLC supervisor on site	M ³	1,800
12	Rock drilling under a tarmac road including installation of a 150mm diameter PVC heavy gauge duct as required and concrete surround at the edges	M	17,500
13	Provision of service tunnel under a tarmac road measuring 0.8m wide by 0.4m high with a concrete lining	M	7,250
14	Removal of trench concrete slabs/covers	M ³	30

2) Reinstatement

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Reinstate an excavated trench using the excavated material to the standards specified in KPLC drawing no. 02A	M ³	440
2	Reinstate the excavated trench using imported (not the excavated material) red soil to the specified standards in KPLC drawing no.02A	M ³	960
3	Reinstate an excavated trench using imported (not the excavated material) murram to the specified standards in KPLC drawing no.02A	M ³	980
4	Reinstate an excavated trench using imported river sand to the specified standards in KPLC drawing no.02A	M ³	1,840
5	Reinstate an excavated trench in pavement to the standards specified for a pavement in KPLC drawing no. 02A.	M ³	1,750
6	Reinstate an excavated trench in a tarmac road to the specified standards for a tarmac road as per KPLC drawing no. 01 and as required by the relevant area council or Ministry of Public Works	M ³	4,600
7	Reinstate an excavated trench using (1:2:4) concrete reinforced with BRC No. A142	M ³	6,500
8	Reinstate an excavated trench using murram compacted to 95% maximum dry density at 80-105% optimum moisture content (AASHTO T 180)	M ³	1,040
9	Reinstate an excavated trench using approved hardcore compacted to 96% maximum dry density at 80 – 100% optimum moisture content (BS 1377 Test 14)	M ³	1,130
10	Reinstate an excavated trench in cabro works or a tarmac footpath to the standard that was in place before the site was disturbed	M ³	1,450
11	Reinstate a grassed area by backfilling the trench with the excavated material. The upper 150mm will be imported red soil mixed with manure. The type of grass to be planted will be the one approved by the county government parks superintendent	M ³	530

CIVIL WORKS

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
12	Reinstate standing bougainvillea and other flora by excavating a hole 120cm diameter by 120cm deep, fill it with red soil mixed with manure. A 100cm tall support pole of a type approved by the county government parks superintendent will be planted next to the bougainvillea	M ³	460
13	Reinstate shrub bougainvillea and other flora by excavating holes, 120cm diameter by 120cm deep, fill with red soil mixed with manure. The holes would be at 300cm spacing in a triangular network (hexagon corner diagonally interlinked). Erect 200mm diameter cedar poles midway between holes in the same format. External poles (of the hexagon) to be 600mm deep and 300mm above the ground. The pole at the middle (of the hexagon) to be 600mm deep and 300mm above the ground. Areas between holes to be filled with 150mm murram. Fix barbed wire between the poles in a hexagonal shape. The type of bougainvillea/other flora is to be approved by the county government parks superintendent	M ²	450
14	Restoration of trench concrete slabs/covers	M ³	30

3) Laying of Pipes and Ducts

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Provide and lay a 200 mm diameter Heavy Gauge PVC pipe (duct) covered with a 150mm concrete surround as specified in KPLC drawing.	M	2,070
2	Provide and lay a 200 mm diameter HDPE pipe (duct) without concrete surround as specified in KPLC drawing.	M	1,850
3	Provide and lay a 150mm diameter precast concrete cable duct with a 150mm concrete surround as specified in KPLC drawing.	M	1,750
4	Provide and lay a 150mm diameter HDPE duct without concrete surround as specified in KPLC drawing.	M	1,640

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
5	Provide and lay a 100mm diameter HDPE duct without concrete surround	M	1,550
6	Provide and lay a 50mm diameter HDPE duct without concrete surround	M	1,080
7	Provision & installation of storm water concrete duct 1 foot diameter by 1 meter long with a 150mm concrete surround as specified in KPLC drawing.	Per pc	4,000
8	Provision & installation of a storm water concrete duct 2 feet diameter by 1 meter long with a 150mm concrete surround as specified in KPLC drawing.	Per pc	7,500
9	Provision & installation of a storm water concrete duct 2.5 feet diameter by 1 meter long with a 150mm concrete surround as specified in KPLC drawing.	Per pc	9,000
10	Provision & installation of a storm water concrete duct 3 feet diameter by 1 meter long with a 150mm concrete surround as specified in KPLC drawing.	Per pc	12,000

4) Construction of Enclosures, Manholes and Slabs

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Construct a turret enclosure wall as per appropriate KPLC standard of finishing specified in KPLC drawing.	M ²	2,530
2	Construct a cable joint manhole of 2mX2mX2m using quarry stones	M ³	1,250
3	Construct a cable joint manhole of 2mX2mX2m using BRC reinforced concrete	M ³	1,400
4	Concrete slabs construction using D10 metal rods	M ²	550
5	Concrete slabs construction using D12 metal rods	M ²	700
6	Concrete slabs construction using D16 metal rods	M ²	950
7	Construction of a slanting ground using quarry broken stones (pitching)	M ³	1,220

5) Earth Works and Barricades

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Compaction of an existing subgrade to 95% MDD	M ²	240
2	Mass concrete base 1:3:6 ratio, 50 mm thick class 15/20 blinding	M ³	11,000
3	Vibrated reinforced concrete 1:1:2 200 mm thick base slab	M ³	14,000
4	Vibrated reinforced concrete 1:1:2 250 mm thick side walls	M ³	15,780
5	Sawn timber formwork sides of slabs	M ²	820
6	Sawn timber formwork sides of walls	M ²	830
7	Cover slabs 1330 mm by 990 mm vibrated reinforced concrete 1:1:2 125 mm thick concrete, with hooks for lifting.	M ³	15,600
8	Cable supports, 10 mm thick MS plate embedded in a reinforced concrete wall.	M	1,240
9	125mmX75mmX4mm rectangular hollow section, RHS, 500 mm long welded to the mild steel, MS, plate in the RC wall	PC	1,240
10	Cable tray of 50X400 mm GI galvanized perforated.	M	3,580
11	Removal of heaped/damped soil or waste on power cables or under power lines using a 42 ton bucket excavator with diesel including mobilization charges and spread the soil or waste materials within site area	Ksh. per hr.	7,550
12	Removal of heaped/damped soil or waste on power cables or under power lines using a 42 ton bucket excavator with diesel including mobilization charges and carry away the soil or Waste material out of site area.	Ksh. per hr.	10,760

CIVIL WORKS

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
13	Backfill cable manholes with dry murram soil	M ³	950
14	Backfill cable manholes with pure and dry river sand	M ³	1,220
15	Packing of sandbags (50 kg each) to prevent storm water from accessing sensitive installation or divert away water from cable trenches as a barrier	Per bag	2,300
16	Construction of a gabion using stones and woven wire	M ³	8,000
17	Site barricading using iron sheets, safety signs and, where necessary, installation of temporary crossing timber planks for pedestrian	M	1,750

6) Cleaning and Painting

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Repainting using water based paint	M ²	750
2	Repainting using solvent based paint	M ²	1,500
3	Repainting using special reflective paint	M ²	1,700
4	Painting the walls of a concrete manhole	M ²	400
5	Cleaning the walls and the floor of a concrete trench	M ²	320

7) Hiring of Equipment

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Hiring of scaffolding metallic platform complete with a stepping timber panel	per pc per day	1,100
2	Hiring of working canvas tent 4 mts (w) by 8 mts (l) by 4 mts (h) complete with metallic supports-mobile	day	2,600
3	Provide a water pump (at least 20hp) and pump out water from cable trenches and maintaining the trenches dry if need be	day	40,000
4	Hiring of a vole drill and its operator	day	20,000
5	Hiring of a compressor and its operator	day	20,000
6	Hiring of a power saw and its operator	day	5,000
7	Hiring of a welding machine and its operator	day	4,000
8	Hiring of a specialized crane and its operator	day	100,000

1) Transport of Poles and Street Lighting Columns

a) Transport of 10m, 11m, 12m and 14m Wooden Poles

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Fixed wooden pole transport per lorry load of 1no. to 5no. poles for jobs whose distance from the issuing store does not exceed 25km	trip	5,500
2	Fixed wooden pole transport per lorry load of 6no. to 10no. poles for jobs whose distance from the issuing store does not exceed 25km	trip	6,500
3	Fixed wooden pole transport per lorry load of 11no. to 20no. poles for jobs whose distance from the issuing store does not exceed 25km	trip	7,500
4	Fixed wooden pole transport per lorry load of 21no. to 30no. poles for jobs whose distance from the issuing store does not exceed 25km	trip	9,000
5	Fixed wooden pole transport per lorry load of 1no. to 5no. poles including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km	trip	7,500
6	Fixed wooden pole transport per lorry load of 6no. to 10no. poles including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km	trip	9,500
7	Fixed wooden pole transport per lorry load of 11no. to 20no. poles including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km	trip	11,500
8	Fixed wooden pole transport per lorry load of 21no. to 30no. poles including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km	trip	13,500
9	Wooden pole transport per lorry load (lorry load = range defined by total number of poles per job, capped at 30 poles) for jobs whose distance from the issuing store is more than 25km, <i>rate per km for the extra kilometers</i>	km	400

TRANSPORT

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
10	Wooden Pole transport per lorry load (lorry load = range defined by the total number of poles per job, capped at 30 poles) including return of replaced poles and accessories for distance beyond 25km, <i>rate per km for the extra kilometers</i>	km	450

b) Transport of 10m, 11m, 12m and 14m Concrete Poles

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Fixed concrete pole transport for 1no. to 3no. poles for jobs not exceeding 25km from the issuing stores.	trip	5,500
2	Fixed concrete pole transport for 4no. to 6no. poles for jobs not exceeding 25km from the issuing stores.	trip	7,500
3	Fixed concrete pole transport for 7no. to 9no. poles for jobs not exceeding 25km from the issuing stores.	trip	9,000
4	Fixed concrete pole transport for 1no. to 3no. poles including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km.	trip	9,000
5	Fixed concrete pole transport for 4no. to 6no. poles including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km.	trip	11,000
6	Fixed concrete pole transport for 7no. to 9no. poles including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km.	trip	13,500
7	Concrete pole transport per lorry load (lorry load = range defined by the total number of poles per job, capped at 9 poles) per km for jobs which are more than 25km from the issuing stores. <i>rate per km for the extra kilometers</i>	km	450

TRANSPORT

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
8	Concrete pole transport per lorry load (lorry load = range defined by the total number of poles per job, capped at 9 poles including return of replaced poles and accessories for a distance beyond 25km <i>rate per km for the extra kilometers</i>)	km	500
9	Fixed transport of 1no. to 3no. recovered concrete poles and the associated recovered materials for jobs not exceeding 25km to the nearest store.	trip	5,500
10	Fixed transport of 4no. to 6no. recovered concrete poles and the associated recovered materials for jobs not exceeding 25km to the nearest store.	trip	7,500
11	Fixed Transport of 7no. to 9no. recovered concrete poles and the associated recovered materials for jobs not exceeding 25km to the nearest store.	trip	9,000
12	Transport of recovered/ unused concrete poles and the associated recovered materials per lorry load (lorry load = range defined by total number of poles per job, capped at 9 concrete poles for jobs which are more than 25km from the nearest store)	km	450

c) Transport of 15m and 18m Wooden Poles

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Fixed wooden pole transport per lorry load (lorry load = 1no. to 7no. poles) for jobs whose distance from the issuing store does not exceed 25km	trip	6,000
2	Fixed wooden pole transport per lorry load (lorry load = 8no. to 13no. poles) for jobs whose distance from the issuing store does not exceed 25km	trip	7,000
3	Fixed wooden pole transport per lorry load (lorry load = 14no. to 19no. poles) for jobs whose distance from the issuing store does not exceed 25km	trip	8,000

TRANSPORT

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
4	Fixed wooden pole transport per lorry load (lorry load = 20no. to 25no. poles) for jobs whose distance from the issuing store does not exceed 25km	trip	9,000
5	Fixed wooden pole transport per lorry load (lorry load = 1no. to 7no. poles) including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km	trip	8,000
6	Fixed wooden pole transport per lorry load (lorry load = 8no. to 13no. poles) including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km	trip	9,500
7	Fixed wooden pole transport per lorry load (lorry load = 14no. to 19no. poles) including return of replaced poles and accessories for jobs whose distance from issuing store does not exceed 25km	trip	11,000
8	Fixed wooden pole transport per lorry load (lorry load = 20no. to 25no. Poles) including return of replaced poles and accessories for jobs whose distance from issuing store does not exceed 25km	trip	13,500
9	Wooden pole transport per lorry load (lorry load = range defined by total number of poles per job, capped at 25 wooden poles) for jobs whose distance from issuing store is more than 25km, rate per kilometer for the extra kilometers	km	500
10	Wooden pole transport per lorry load (lorry load = range defined by total number of poles per job, capped at 25 wooden poles) including return of replaced poles and accessories for distance beyond 25km, rate per kilometer for the extra kilometres	km	600
11	Transport of recovered/unused wooden poles and the associated materials to the nearest KPLC facility as per Project Engineer's approval, transport per lorry load = up to 25 recovered poles and the associated accessories, rate per kilometer for the extra kilometres	km	800

d) Transport of 15m and 18m Concrete Poles

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Fixed concrete pole transport per lorry load (lorry load = 1no. to 3no. poles for jobs whose distance from the issuing store does not exceed 25km	trip	12,000
2	Fixed concrete pole transport per lorry load (lorry load = 4no. to 6no. poles for jobs whose distance from the issuing store does not exceed 25km	trip	13,500
3	Fixed concrete pole transport per lorry load (lorry load = 7no. to 8no. poles for jobs whose distance from the issuing store does not exceed 25km	trip	15,000
4	Fixed concrete pole transport per lorry load (lorry load = 1no. to 3no. concrete poles) including return of replaced poles and the associated accessories for jobs whose distance from the issuing store does not exceed 25km.	trip	15,000
5	Fixed concrete pole transport per lorry load (lorry load = 4no. to 6no. concrete poles) including return of replaced poles and the associated accessories for jobs whose distance from the issuing store does not exceed 25km.	trip	16,500
6	Fixed concrete pole transport per lorry load (lorry load = 7no. to 8no. concrete poles) including return of replaced poles and the associated accessories for jobs whose distance from the issuing store does not exceed 25km.	trip	18,000
7	Concrete pole transport per km per trip for up to range defined by total number of poles per job, capped at 8 concrete poles (a 15m concrete pole is approx. 1.3 tons) for jobs which are more than 25km from the issuing stores. <i>Rate per kilometre</i> for the extra kilometers	km	600
8	Concrete pole transport per lorry load (lorry load = up to range defined by total number of poles per job, capped at 8 concrete poles) including return of replaced poles and accessories for distance beyond 25km from the issuing store, <i>rate per km</i> for the extra kilometres	km	700

TRANSPORT

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
9	Transport of a lorry load of between 1no. and 3no. recovered concrete poles and the associated recovered materials (for jobs not exceeding 25km to the issuing store). poles	trip	12,000
10	Transport of a lorry load of between 4no. and 6no. recovered concrete poles and the associated recovered materials (for jobs not exceeding 25km to the issuing store). poles	trip	13,500
11	Transport of a lorry load of between 7no. and 8no. recovered concrete poles and the associated recovered materials (for jobs not exceeding 25km to the issuing store). poles	trip	15,000
12	Transport of recovered concrete poles and the associated recovered materials per lorry load (lorry load = up to range defined by total number of poles per job, capped at 8 concrete poles for jobs which are more than 25km from issuing stores, <i>rate per kilometre</i> for the extra kilometers	km	800

e) Transport of Steel Street Lighting Columns

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Fixed transport of steel street lighting columns per lorry load (lorry load = 1no. to 5no. columns) for jobs whose distance from the issuing store does not exceed 25km	trip	5,500
2	Fixed transport of steel street lighting columns per lorry load (lorry load = 6no. to 10no. columns) for jobs whose distance from the issuing store does not exceed 25km	trip	6,000
3	Fixed transport of steel street lighting columns per lorry load (lorry load = 11no. to 20no. columns) for jobs whose distance from the issuing store does not exceed 25km	trip	6,500

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
4	Fixed transport of street lighting columns per lorry load (lorry load = 21no. to 30no. columns) for jobs whose distance from the issuing store does not exceed 25km	trip	7,000
5	Transport of steel street lighting columns per lorry load (lorry load = up to range defined by total number of columns per job, capped at 30no. columns) for jobs whose distance from the issuing store exceed 25km, rate per kilometer for the extra kilometres	km	500
6	Transport of recovered existing steel street lighting columns per lorry load (lorry load = up to range defined by total number of columns per job, capped at 30no. columns) and other accessories to stores, rate per kilometer for the extra kilometres	km	500

2) Transport of Materials

a) Transport of Materials For LV, MV and Street Lighting Works

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Fixed materials transport cost per lorry load (lorry load = 0.5km of line materials excluding transformers) for jobs whose distance from the issuing store does not exceed 25km	trip	5,000
2	Fixed materials transport cost per lorry load (lorry load = 0.6km to 1km of line materials excluding transformers) for jobs whose distance from the issuing store does not exceed 25km	trip	6,000
3	Fixed materials transport cost per lorry load (lorry load = 1.1km to 2.0km of line materials excluding transformers) for jobs whose distance from the issuing store does not exceed 25km	trip	7,000
4	Fixed materials transport cost per lorry load (lorry load = 2.1km to 3.0km of line materials excluding transformers) for jobs whose distance from the issuing store does not exceed 25km	trip	8,000

TRANSPORT

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
5	Materials transport cost per lorry load (lorry load = range defined by length of line per job, capped at 3km excluding transformers) for jobs whose distance from the issuing store is more than 25km, <i>rate per kilometre</i> for the extra kilometers	km	350
6	Fixed materials/accessories transport cost excluding conductors and transformers (for small maintenance jobs requiring no conductors and transformers)	trip	8,000
7	Transport of transformers cost per lorry load per km (lorry load = up to 8 transformers)	km	450
8	Transport of recovered transformers per lorry load per km (lorry load = up to 8 transformers)	km	450
9	Street lighting brackets, control pillars and other accessories transport cost per lorry load (lorry load = materials for 1no. to 15no. street lighting columns) for jobs whose distance from the issuing store does not exceed 25km	trip	8,000
10	Street lighting brackets, control pillars and other accessories transport cost per lorry load (lorry load = materials for 16no. to 30no. street lighting columns) for jobs whose distance from the issuing store does not exceed 25km	trip	9,000
11	Street lighting brackets, control pillars and other accessories transport cost per lorry load (lorry load = materials for 31no. to 50no. street lighting columns) for jobs whose distance from the issuing store does not exceed 25km	trip	10,000
12	Street lighting brackets, control pillars and other accessories transport cost per lorry load (lorry load = materials for columns defined by range of columns per job, capped at 50no. columns for jobs whose distance from the issuing store is more than 25km. <i>Rate per kilometre</i> for the extra kilometers	km	500

b) Transport of Materials For 66kV Works

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Fixed materials transport cost per lorry load (lorry load = up to 0.5km of line materials) for jobs whose distance from the issuing store does not exceed 25km	trip	7,000
2	Fixed materials transport cost per lorry load (lorry load = 0.6km to 1.1km of line materials) for jobs whose distance from the issuing store does not exceed 25km	trip	8,000
3	Materials transport cost per lorry load (lorry load = range defined by length of line per job, capped at 1.1km) for jobs whose distance from the issuing store is more than 25km. <i>Rate per kilometre</i> for the extra kilometres	km	400
4	Fixed materials/ accessories transport cost excluding conductors (for small maintenance jobs requiring no conductors)	trip	8,000

APPENDICES

Appendix 1: Overhead Power Line Construction Works

1) Hole Digging and Reinforcement

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Pole/stay hole digging per foot (soft soil including murrum)murrum	ft	<i>This rate applies to holes for both poles and stays in non-rocky ground. The depth of the hole will be based on the size of the pole or size of stay guided by the size of pole and conductor</i>
2	Pole/stay hole digging per foot (rocky ground)	ft	<i>This rate applies where a contractor chooses not to reinforce the hole but hires a compressor to dig the hole to the appropriate depth. It will only apply to the rocky part of the hole, the normal hole digging rate shall apply where the soil is soft or murrum</i>
3	Pole hole reinforcement for marshy and rocky soil conditions per foot of reinforcement. i.e. (3ftX3ftX1ft deep)	ft	Pole hole reinforcement for marshy and rocky soil conditions per foot of reinforcement. i.e. (3ftX3ftX1ft deep) - <i>This rate involves digging a 3ftx3ft wide hole up to a minimum of 4ft deep for rocky soil profile and appropriate hole depth for a given pole size where the hole is in a marshy ground. The hole will be reinforced using a bottomless drum/ barrel, sand, cement, ballast and steel mesh where appropriate. (this rate also includes transport of reinforcement materials to site)</i>

2) Erection, Realignment and Recovery of Poles, Street Lighting Columns & Struts

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Concrete pole erection - 10m	No.	Concrete pole erection - 10m long poles, <i>rate per pole</i>
2	Concrete pole erection - 11m & 12m long poles per pole	No.	Concrete pole erection - 11m & 12m long poles, <i>rate per pole</i>
3	Concrete pole erection - 14m & 15m long poles per pole	No.	Concrete pole erection - 14m & 15m long poles, <i>rate per pole</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
4	Concrete pole erection - 18m long poles per pole	No.	Concrete pole erection - 18m long poles, <i>rate per pole</i>
5	Wooden pole erection - 10m long poles	No.	Wooden pole erection - 10m long poles, <i>rate per pole</i>
6	Wooden pole erection - 11m, 12m & 14m long poles	No.	Wooden pole erection - 11m, 12m & 14m long poles, <i>rate per pole</i>
7	Wooden pole erection - 15m & 18m long poles	No.	Wooden pole erection - 15m & 18m long poles, <i>rate per pole</i>
8	LV & MV strut making & erection (concrete pole)	No.	Concrete LV & MV pole strut making & erection, <i>rate per strut pole</i>
9	66kV strut making & erection (concrete poles)	No.	66kV concrete pole strut making & erection, <i>rate per strut pole</i>
10	LV & MV strut making & erection (wooden poles only)	No.	LV & MV wooden pole strut making & erection, <i>rate per strut pole</i>
11	66kV strut making & erection wooden poles	No.	66kV woodenstrut pole making & erection, <i>rate per strut pole</i>
12	Erection of a 10m steel street lighting column	No.	Erection of a 10m steel street lighting column, <i>rate per column</i>
13	Erection of an 8m steel street lighting column	No.	Erection of an 8m steel street lighting column, <i>rate per column</i>
14	Concrete pole re-alignment (where new pole hole is necessary) for 11m, 12m, 14m, 15m & 18m long pole	No.	Concrete pole re-alignment (where new pole hole is necessary) - <i>The rate captures the cost of undressing the pole, digging a new hole, recovering the old pole, erecting the new pole and complete pole dressing for 11m, 12m, 14m, 15m & 18m long concrete poles, rate per pole</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
15	Concrete pole re-alignment (where new pole hole is not necessary) for 11m, 12m, 14m, 15m & 18m long pole	No.	Concrete pole re-alignment per pole (where new pole hole is not necessary) - <i>The rate captures the cost of: undressing the pole, aligning the pole and re-dressing the pole for 11m, 12m, 14m, 15m & 18m long concrete poles, rate per pole</i>
16	Concrete pole recovery - 11m & 12m long poles including all the associated fittings	No.	11m & 12m long concrete pole recovery including all the associated fittings, <i>rate per pole</i>
17	Concrete pole recovery - 14m, 15m & 18m long poles including all the associated fittings	No.	14m, 15m & 18m concrete pole recovery including all the associated fittings, <i>rate per pole</i>
18	Concrete pole recovery - 10m long poles including all the associated fittings	No.	Recovery of a 10m long concrete pole including all the associated fittings, <i>rate per pole</i>
19	Wooden pole recovery - 10m long poles including all the associated fittings	No.	Wooden pole recovery for 10m long poles including all the associated fittings, <i>rate per pole</i>
20	LV & MV Wooden pole re-alignment per pole (where new pole hole is necessary)	No.	LV & MV Wooden pole re-alignment per pole (where new pole hole is necessary) - <i>The rate captures the cost of: undressing the pole, digging a new hole, recovering the old pole, erecting the new pole and complete pole dressing, rate per pole</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
21	66kV Wooden pole re-alignment per pole (where new pole hole is necessary)	No.	66kV Wooden pole re-alignment per pole (where new pole hole is necessary) - The rate captures the cost of: undressing the pole, digging a new hole, recovering the old pole, erecting the new pole and complete pole dressing, <i>rate per pole</i>
22	LV & MV Wooden pole re-alignment per pole (where new pole hole is not necessary)	No.	LV & MV Wooden pole re-alignment per pole (where new pole hole is not necessary) - The rate captures the cost of: undressing the pole, aligning the pole and re-dressing the pole, <i>rate per pole</i>
23	66kV Wooden pole re-alignment per pole (where new pole hole is not necessary)	No.	66kV Wooden pole re-alignment per pole (where new pole hole is not necessary) - The rate captures the cost of: undressing the pole, aligning the pole and re-dressing the pole, <i>rate per pole</i>
24	Wooden pole recovery - 11m, 12m & 14m long poles	No.	Wooden pole recovery - 10m, 11m, 12m & 14m long poles, <i>rate per pole</i>
25	Wooden pole recovery - 15m & 18m long poles	No.	Wooden pole recovery - 15m & 18m long poles, <i>rate per pole</i>
26	Recovery of an existing steel street lighting column and delivery to store (per recovered column)	No.	Recovery of an existing steel street lighting column and delivery to store, <i>rate per recovered column</i>

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3) Stay Making & Installation

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	LV flying stay making & installation (excluding installation of the flying stay pole)	No.	LV flying stay making & installation excluding installation of the flying stay pole, rate per flying stay
2	11kV, 33kV & 66kV flying stay making & installation (excluding the cost of erection of the flying stay pole)	No.	11kV, 33kV & 66kV flying stay making & installation excluding installation of the flying stay pole, rate per flying stay
3	LV normal stay making and installation	No.	LV normal Stay making and installation - <i>This rate captures the cost of normal stay making and installation including an anticlimbing barbed wire, rate per stay</i>
4	11kV, 33kV & 66kV normal stay making and installation	No.	11kV, 33kV & 66kV normal Stay making and installation - <i>This rate captures the cost of normal stay making and installation including an anticlimbing barbed wire, rate per stay</i>

4) Pole Dressing

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	LV pole dressing including pole cap (1 wire) for both concrete poles and wooden poles	No.	Pole dressing including pole caps (1 wire) for LV, both concrete poles and wooden poles
2	66kV pole dressing including pole cap, danger plate, barbed wire and pole number plate (1 wire)	No.	Pole dressing including pole caps (1 wire) for 66kV, both concrete poles and wooden poles
3	11kV & 33kV pole dressing including pole cap, danger plate, barbed wire and pole number plate (1 wire)	No.	Pole dressing including pole caps (1 wire) for 11kV & 33kV, both concrete poles and wooden poles

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5) Stringing, Transfer & Recovery Of Conductors, Aerial Earths and Aerial Bundled (ABC) Cables

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Single conductor stringing per km (150 sq. mm)	km	Stringing of a single 150 sq. mm conductor, <i>rate per km</i>
2	Single conductor stringing per km (300 sq. mm)	km	Stringing of a single 300 sq. mm conductor, <i>rate per km</i>
3	Single conductor stringing per km (75 sq. mm)	km	Stringing of a single 75 sq. mm conductor, <i>rate per km</i>
4	Single conductor stringing per km (50 sq. mm & 100 sq. mm bare/pvc)	km	Stringing of a single bare/pvc 50sq. mm & 100sq. mm conductor, <i>rate per km</i>
5	LV ABC cable stringing (both 4 wire & 2-wire) per km	km	LV ABC cable stringing for both 4 wire & 2-wire, <i>rate per bundle per km</i>
6	11kV & 33kV ABC cable stringing per bundle per km (3X70 sq. mm single core cables)	km	11kV & 33kV ABC cable (3X70sq. mm single core cables)stringing, <i>rate per bundle per km</i>
7	Single conductor recovery per km (150 sq. mm & 300 sq. mm)	km	Recovery of a single 150sq. mm or 300sq. mm conductor, <i>rate per km</i>
8	Single conductor recovery per km (50 sq. mm & 100 sq. mm bare/pvc)	km	Recovery of a single bare/PVC 50sq. mm or 100sq. mm conductor, <i>rate per km</i>
9	Single conductor recovery per km (75 sq. mm)	km	Recovery of a single 75sq. mm conductor, <i>rate per km</i>
10	Transfer of a single 150 sq. mm conductor during maintenance per km	km	Transfer of a single 150sq. mm conductor during maintenance per km - <i>This rate captures the cost of removing, running, re-installing and re-tensioning a single 150 sq. mm conductor per km</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
11	Transfer of a single 300 sq. mm conductor during maintenance per km	km	Transfer of a single 300sq. mm conductor during maintenance per km - <i>This rate captures the cost of removing, running, re-installing and re-tensioning a single 300 sq. mm conductor per km</i>
12	Transfer of a single 75 sq. mm conductor during maintenance per km	km	Transfer of a single 75sq. mm conductor during maintenance per km - <i>This rate captures the cost of removing, running, re-installing and re-tensioning a single 75 sq. mm conductor per km</i>
13	11kV & 33kV ABC cable recovery per bundle per km (3X70 sq. mm single core cables)	km	11kV & 33kV ABC cable (3X70 sq. mm single core cables) recovery per bundle, <i>rate per km</i>
14	LV ABC cable recovery per km	km	Recovery of an LV ABC cable, applicable to 4-wire, 3-wire and 2-wire, <i>rate per km</i>

6) Installation and Recovery of Autoreclosures, Air Break Switches, Surge Divertors, Solid Links & Fuse Mounts

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	11kV & 33kV air break switch installation	No.	11kV & 33kV air break switch installation- <i>This rate captures the cost of installing the whole switch assembly including the steady bars</i>
2	66kV air break switch installation	No.	66kV air break switch installation- This rate captures the cost of installing the whole switch assembly including the steady bars
3	11kV, 33kV & 66kV air break switch recovery	No.	11kV, 33kV & 66kV air break switch recovery- This rate captures the cost of recovering the whole switch assembly including the steady bars
4	Autoreclosure unit installation	No.	Autoreclosure unit installation (rate is for the auto-reclosing unit only) - <i>This is the rate for installing the full auto reclosing assembly including the bypass switch</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
5	Autoreclosure unit recovery (rate is for the auto-reclosing unit only)	No.	Autoreclosure recovery - This is the rate for recovering the full auto reclosing assembly including the bypass switch
6	Installation of 11kV & 33kV taplin isolators/ fuse mounts/surge divertors (per piece)	No.	11kV & 33kV taplin isolators/ fuse mounts/ surge diverters installation - <i>This is the rate for installing one piece of the isolator/ fuse mount/ surge diverter.</i>
7	Recovery of 11kV & 33kV taplin isolators/ fuse mounts/surge diverters (per piece)	No.	11kV & 33kV taplin isolators/ fuse mounts/ surge diverters recovery- <i>This is the rate for recovering one piece of taplin isolator/ fuse mount/ surge diverter.</i>
8	Installation of 66kV surge diverters (per piece)	No.	Installation of one piece of a 66kV surge diverter - <i>This is the rate for installing one piece of the surge diverter.</i>
9	Recovery of 66kV surge diverters (per piece)	No.	Recovery of one piece of 66kV surge diverter - <i>This is the rate for recovering one piece of a 66kV surge diverter.</i>

7) Tree Cutting and Bush Clearing

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Cutting down a mature tree	No.	Cutting down a mature tree - <i>This applies to cutting/felling a tree whose diameter is greater than 12 inches. It also includes the cost of disposing the cuttings to the nearest yard approved by the local authority</i>
2	Pruning of a mature tree with over hanging branches	No.	Pruning of a mature tree with over hanging branches - <i>cost per tree pruned including disposing the cutting to a designated location approved by the local authority</i>

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3	Pruning of a mature tree with over hanging branches in cities and urban areas	No.	Pruning of a mature tree with over hanging branches in a city or urban area - <i>cost per tree pruned including disposing the cutting to a designated location. This rate applies to gazetted cities and urban areas</i>
4	Bush clearing per km (for new lines)	km	Bush clearing per km (for new lines) including suitable disposal of cuttings as approved by the local authority - <i>This applies to cutting/ clearing shrubs and trees whose diameter is less or equal to 12 inches. It also includes the cost of disposing the cuttings to the nearest yard approved by the local authority</i>
5	Bush clearing per km for 11kV, 33kV and 66kV power lines (for existing lines requiring trace maintenance)	km	Bush clearing per km including inspection and all other logistics and disposal of cuttings to disposal areas approved by the local authority (for existing lines requiring trace maintenance) - <i>This applies to cutting/ clearing shrubs and trees whose diameter is less than or equal to 12 inches. It also includes the cost of disposing the cuttings to the nearest yard approved by the local authority</i>
6	Bush clearing for LV lines per secondary substation	No.	Bush clearing for LV lines per existing secondary substation. This includes inspection, acquisition of permits, labour & transport, and disposal of cuttings to disposal areas approved by the local authority
7	Primary Substation weeding	m ²	Complete removal of grass and weeds within primary substation enclosures including disposal.

8) Secondary Substation Works

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Mounting of a 630kVA & 1MVA ground mounted transformer including termination of the associated leads, cables and circuits (excluding earthing)	No.	Mounting of a 630kVA or a 1MVA gound mounted transformer - <i>This rate includes the cost for isolation, termination of the associated leads, cables and circuits but excludes the cost of earthing</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
2	Installation of an LV circuit	No.	Installation of one LV circuit on a secondary substation- <i>This rate involves installation of the fuse bar, fuse carriers and LV lead wires per circuit including connection to the LV line</i>
3	Installation of an LV distribution fuse panel 1600A-bulky	No.	Installation of one piece of a 1600A-bulky LV distribution fuse panel
4	Installation of a ring main unit	No.	Rate for installation of one piece of a ring main unit.
5	Installation of a 12/18 way 600A service turret	No.	Installation of one piece of a 12/18 - way 600A service turret.
6	Commissioning of a secondary substation	No.	Commissioning of a secondary substation- <i>This rate shall cater for all labour cost during commissioning</i>
7	Dismantling a transformer old single pole structure	No.	<i>This is the cost of bringing down a single pole substation structure during maintenance</i>
8	Dismantling a transformer old H-pole structure	No.	<i>This is the cost of bringing down one H- pole substation structure during maintenance</i>
9	Dressing a substation single pole structure	No.	<i>This is the rate for dressing of a single pole substation structure including the cost of installing isolators and surge divertors</i>
10	Dressing a substation H-pole structure	No.	<i>This is the rate for dressing of a H - pole substation structure including the cost of installing isolators and surge divertors</i>
11	Mounting of a transformer on a single pole structure including termination of the associated leads, cables and circuits (excluding 630kVA & 1MVA transformers and earthing)	No.	<i>This is the rate for lifting and securing the transformer on a single pole structure and terminating the associated leads, cables and circuits</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
12	Mounting of a transformer on a H-pole structure including termination of the associated leads, cables and circuits (excluding 630kVA & 1MVA transformers and earthing)	No.	<i>This is the rate for lifting and securing the transformer on a H- pole structure, except for 630kVA & 1MVA transformers, and terminating the associated leads, cables and circuits</i>
13	Substation welding (at the base on platform & all necessary spot welding) to project engineer's approval (for new transformers, per transformer)	No.	Substation welding (at the base on platform & all necessary spot welding) to the project engineer's approval (for new transformers) - <i>This rate includes transport of the welding machine to site and the cost of welding rods</i>
14	Recovering a transformer and return to store	No.	Recovering a transformer and returning it to store - <i>This rate includes dismantling the structure including all the associated accessories</i>
15	Recovery of an LV circuit	No.	Recovery of one LV circuit - <i>This rate captures the cost of recovering the fuse bar, fuse carriers and LV lead wires per circuit including the connection to the LV line</i>
16	Unwelding a transformer (existing transformers)	No.	Unwelding a transformer (existing transformers) - <i>This rate includes transport of the welding machine to site</i>
17	Mounting of a transformer above the HT line on a single pole structure including termination of the associated leads, cables and circuits.	No.	<i>This is the rate for lifting and securing a single-phase transformer above the HT line on a single pole structure and terminating the associated leads, cables and circuits</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
18	Mounting of a transformer above the HT line on a H-pole structure including termination of the associated leads, cables and circuits.	No.	<i>This is the rate for lifting and securing a three-phase transformer above the HT line on a H-pole structure and terminating the associated leads, cables and circuits</i>

9) Earthing Installation Works

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Substation earthing (MV earth, surge diverter earth & LV earth)	No.	Substation earthing (MV earth, surge diverter earth & LV earth) - <i>This rate captures the cost of earthing a single secondary substation. This earthing should achieve the minimum earth values as required by KPLC construction standards</i>
2	Aerial earth installation per km (excluding installation of earth leads)	km	Stringing of an aerial earth, <i>rate per km</i>
3	Aerial earth recovery per km	km	Recovery of an aerial earth, <i>rate per km</i>
4	Earthing comprising of a 50mm earth lead, earth electrode and 300mm by 300mm concrete manhole with a removable cover	No.	Earthing comprising of 50mm earth lead, earth electrode and 300mm by 300mm concrete manhole with removable cover, <i>rate per earth installed</i>
5	PME installation (this includes aerial wire and OPGW earthing)	No.	Rate per single PME installed and linked to a power line, aerial earth or OPGW fiber optic cable

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10) Energy Meter Installation works

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Installation of a single phase post-paid/ pre-paid meter	No.	Single phase post-paid or pre-paid meter installation, <i>rate per meter</i>
2	Installation of a three phase post-paid/ pre-paid meter	No.	Three phase post-paid or pre-paid meter installation, <i>rate per meter</i>
3	LV large power pole mounted smart meter installation	No.	LV large power pole mounted smart meter installation, <i>rate per meter</i>
4	LV large power ground mounted smart meter installation	No.	LV large power ground mounted smart meter installation, <i>rate per meter</i>
5	11kV & 33kV large power pole mounted smart meter installation	No.	11kV & 33kV large power pole mounted smart meter installation, <i>rate per meter</i>
6	11kV & 33kV large power ground mounted smart meter installation	No.	11kV & 33kV large power ground mounted smart meter installation, <i>rate per meter</i>

11) Installation of Fiber Optic Cables

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Installation of an ADSS fiber optic communication cable on existing lines	km	Installation of an ADSS fiber optic communication cable on existing LV and MV lines, <i>rate per km</i>
2	Recovery of an ADSS fiber optic communication cable including recovery of the associated dressing materials	km	Recovery of an ADSS fiber optic communication cable including recovery of the associated dressing materials - <i>This rate includes costs of transportation of the recovered materials to the nearest KPLC store, rate per km</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
3	Installation of an OPGW fiber optic communication cable on existing line	km	Installation of an OPGW fiber optic communication cable on existing LV and MV lines, <i>rate per km</i>
4	Recovery of an OPGW fiber optic communication cable including recovery of the associated dressing materials	km	Recovery of an OPGW communication cable including recovery of the associated dressing materials - <i>This rate includes costs of transportation of the recovered materials to the nearest KPLC store, rate per km</i>
5	Jointing and termination of one core of an OPGW/ ADSS fiber optic cable (splicing).	No.	Jointing and termination of one core of an OPGW/ ADSS fiber optic cable (splicing)- <i>This rate applies to jointing of an OPGW/ADSS fibre optic cable per core including anchoring the joint on the pole</i>
6	Installation of an ADSS fiber optic communication cable on new lines	No.	Installation of an ADSS fiber optic communication cable on new LV and MV lines, <i>rate per km</i>
7	Installation of an OPGW fiber optic communication cable on new lines	No.	Installation of an OPGW fiber optic communication cable on new LV and MV lines, <i>rate per km</i>

12) Other Street Lighting Works

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Recovery of an existing steel street lighting bracket	No.	Rate for recovery of a single existing steel street lighting bracket (rate per bracket)
2	Spot welding a steel street lighting column	No.	Spot welding of a single steel street lighting column (rate per column)
3	Installation of a pole mounted control pillar/box	No.	Installation of a single pole mounted control pillar/box (rate per pillar/box)
4	Installation of a street lighting bracket	No.	Installation of street lighting bracket, rate per bracket

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5	Installation/ replacement of a lantern/flood light	No.	Installation/replacement of a lantern/flood light. This rate involves recovery of the faulty lantern/flood light and installation of a new one in the case of replacement
6	Repair of components of a pole mounted control pillar/box	No.	Repair of components of a pole mounted control pillar/box (per pillar/box). This rate involves replacement of faulty components within a single control pillar/box
7	Establishing a concrete foundation for a steel street lighting column	No.	Establishing a concrete foundation for a steel street lighting column, rate per foundation. This rate includes the cost of digging the hole

Appendix 2: Cable Works

1) Cable Installation And Recovery

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
1	Laying/recovery of a single core cable of cross-sectional area ranging from 630 sq. mm to 1000 sq. mm in trenches and ducts.	M	Laying/recovery of a single core cable of cross-sectional area ranging from 630 sq. mm to 1000 sq. mm in trenches and ducts, <i>rate per meter</i>
2	Laying/ recovery of a 3-core or 4-core cable of cross-sectional area ranging from 185sq. mm to 400sq. mm in trenches and ducts.	M	Laying/ recovery of a 3-core or 4-core cable of cross-sectional area ranging from 185sq. mm to 400sq. mm in trenches and ducts, <i>rate per meter</i>
3	Laying/ recovery of a 3-core or 4-core cable of cross-sectional area ranging from 25sq. mm to 120sq. mm and a 300 sq. mm single core cable in trenches and ducts.	M	Laying/ recovery of a 3-core or 4-core cable of cross-sectional area ranging from 25sq. mm to 120sq. mm and a 300 sq. mm single core cable in trenches and ducts, <i>rate per meter</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT RATE IN KSH (VAT EXCLUSIVE)
4	Laying/ recovery of a 10 sq. mm, 16 sq. mm single phase cable and fibre optic cable in trenches and ducts	M	Laying/ recovery of a 10 sq. mm, 16 sq. mm single phase cable and fibre optic cable in trenches and ducts, <i>rate per meter</i>
5	Stringing of a 10 sq. mm, 16 sq. mm single core and 25sq. mm & 70 sq. mm 4-core cable	M	Stringing of a 10 sq. mm, 16 sq. mm single core and 25sq. mm & 70 sq. mm 4-core cable, <i>rate per meter</i>
6	Laying/recovery of a 66kV single core cable of cross-sectional area ranging from 300sq. mm to 400 sq. mm in a trench or duct	M	Laying/recovery of a 66kV single core cable of cross-sectional area ranging from 300sq. mm to 400 sq. mm in a trench or duct, <i>rate per meter</i>
7	Laying/recovery of a 132 kV/220 kV/400 kV cable in a trench or duct	M	Laying/recovery of a 132 kV/220 kV/400 kV cable in a trench or duct, <i>rate per meter</i>
8	Installation of cable route markers at a distance of 10 meters apart.	No.	Installation of cable route markers at a distance of 10 meters apart when required, <i>rate per piece</i>

2) Cable Termination and Jointing

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Termination (compression of lugs) of 10sq. mm and 16sq. mm cables	Pc	Termination of 10sq. mm and 16sq. mm cables, rate per termination
2	Termination of 25sq. mm, 70sq. mm, 120sq. mm 4-core cables including ABC cables	Pc	Termination of 25sq. mm, 70sq. mm, 120sq. mm 4 core cables including ABC cables, rate per termination

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
3	Termination of 185sq. mm and 300sq. mm 4-core cables including low voltage single core cables	Pc	Termination of 185sq. mm and 300sq. mm 4-core cables including low voltage single core cables, <i>rate per termination</i>
4	Termination of one core of 11kV and 33kV single core/3-core and ABC cable,	Pc	Termination of one core of 11kV and 33kV single core/3-core and ABC cable, <i>rate per termination/core</i>
5	Termination of 66kV single-core cables	Pc	Termination of 66kV single-core cables, <i>rate per termination/core</i>
6	Termination/ installation of sealing ends of 132kV, 220kV and 400kV single-core cables	Pc	Termination/installation of sealing ends of 132kV, 220kV and 400kV single-core cables, <i>rate per termination/core</i>
7	Jointing of 10sq. mm and 16 sq. mm cables	Pc	Jointing of 10sq. mm and 16 sq. mm cables, <i>rate per joint</i>
8	Jointing of 25sq. mm, 70sq. mm, 150sq. mm 4-core and LV ABC cables	Pc	Jointing of 25sq. mm, 70sq. mm, 150sq. mm 4-core and LV ABC cables, <i>rate per joint</i>
9	Jointing of 185sq. mm and 300sq. mm 4-core cables including single core cables of the same cross-sectional areas	Pc	Jointing of 185sq. mm and 300sq. mm 4-core cables including single core cables of the same cross-sectional areas, <i>rate per joint</i>
10	Jointing of 11kV and 33kV single core, 3-core and MV ABC cables	Pc	Jointing of 11kV and 33kV single core, 3-core and MV ABC cables, <i>rate per joint</i>
11	Jointing of 66kV single core cables	Pc	Jointing of 66kV single core cables, <i>rate per joint/core</i>
12	Jointing of 132kV, 220kV and 400kV single core cables	Pc	Jointing of 132kV, 220kV and 400kV single core cables, <i>rate per joint/core</i>

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3) Cable Testing and Fault Location

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Pressure testing of 10sq. mm, 16sq. mm single phase cables	Pc	Pressure testing of 10sq. mm, 16sq. mm single phase cables, <i>rate per cable</i>
2	Pressure testing of LV single-core, 4-core and ABC cables of cross-sectional area ranging from 25sq. mm to 1000 sq. mm	Pc	Pressure testing of LV single-core, 4-core and ABC cables of cross-sectional area ranging from 25sq. mm to 1000 sq. mm, <i>rate per cable</i>
3	Pressure testing of 11kV and 33kV 3-core, single core and ABC cables	Pc	Pressure testing of 11kV and 33kV 3-core, single core and ABC cables, <i>rate per cable</i>
4	Pressure testing of 66kV single core cables	Pc	Pressure testing of 66kV single core cables, <i>rate per cable</i>
5	Pressure testing of 132kV, 220kV and 400kV single core cables	Pc	Pressure testing of 132kV, 220kV and 400kV single core cables, <i>rate per cable</i>
6	Fault location on 10sq. mm and 16sq. mm LV single phase cables	Pc	Fault location on 10sq. mm and 16sq. mm LV single phase cables, <i>rate per cable</i>
7	Fault location on an LV three phase 4-core, single core or ABC cable of cross-sectional area ranging between 25 sq. mm to 1000 sq. mm	Pc	Fault location on an LV three phase 4-core, single core or ABC cable of cross-sectional area ranging between 25 sq. mm to 1000 sq. mm, <i>rate per cable</i>
8	Fault location on an 11kV and 33kV single core, 3-core and ABC cable,	Pc	Fault location on an 11kV and 33kV single core, 3-core and ABC cable, <i>rate per cable</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
9	Fault location on a 66kV single core cable	Pc	Fault location on a 66kV single core cables, <i>rate per core</i>
10	Fault location on a 132kV, 220kV and 400kV single core cable	Pc	Fault location on a 132kV, 220kV and 400kV single core cables, <i>rate per core</i>

Appendix 3: Civil Works

1) Excavation and Microtunnelling

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Microtunneling under a tarmac road including installation of a 150mm diameter PVC cable duct as required and concrete surround at the edges.	M	Microtunneling under a tarmac road including installation of a 150mm diameter PVC cable duct as required and concrete surround at the edges, <i>rate per meter</i>
2	Microtunneling under a tarmac road including installation of a 100mm diameter PVC cable duct as required and concrete surround at the edges.	M	Microtunneling under a tarmac road including installation of a 100mm diameter PVC cable duct as required and concrete surround at the edges., <i>rate per meter</i>
3	Microtunneling under a tarmac road including installation of a 50mm diameter PVC cable duct as required and concrete surround at the edges.	M	Microtunneling under a tarmac road including installation of a 50mm diameter PVC cable duct as required and concrete surround at the edges., <i>rate per meter</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
4	Wall drilling including installation of a 150mm diameterPVC cable duct as required	No.	Wall drilling including installation of a 150mm diameterPVC cable duct as required, <i>rate per drill</i>
5	Excavate and construct a manhole complete with cover as per appropriate KPLC standards of finishing	M3	Excavate and construct a manhole complete with cover as per appropriate KPLC standards of finishing, <i>rate per manhole</i>
6	Excavate and construct a turret/ distribution board plinth as per KPLC standards.	No.	Excavation and construction of a turret/ distribution board plinth to KPLC standards, <i>rate per plinth</i>
7	Clear a 0.6m to 0.75m wide cable trench site of all bushes, shrubs, undergrowth and the like, load and cart away from site	M2	Clearing of a 0.6m to 0.75m wide cable trench site of all bushes, shrubs, undergrowth and the like, load and cart away from site, <i>rate per square meter</i>
8	Excavate a 0.6m to 0.75m wide cable trench in soil (cotton, murram, red soil, clay, loam, etc.) commencing from ground level and not exceeding 3.0m deep, load and cart away the excess excavated material from site unless instructed otherwise by the KPLC supervisor on site	M3	Excavate a 0.6m to 0.75m wide cable trench in soil (cotton, murram, red soil, clay, loam, etc.) commencing from ground level and not exceeding 3.0m deep, load and cart away the excess excavated material from site unless instructed otherwise by the KPLC supervisor on site, <i>rate per cubic meter</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
9	Excavate a 0.6m to 0.75m wide cable trench in a tarmac footpath or pavement (precast concrete, insitu concrete, terrazzo, reinforced concrete, cabroworks etc.) commencing from the finished pavement level and not exceeding 3.0m deep and load and cart away the excess excavated material unless instructed otherwise by the KPLC supervisor on site	M3	Excavate a 0.6m to 0.75m wide cable trench in a tarmac footpath or pavement (precast concrete, insitu concrete, terrazzo, reinforced concrete, cabroworks etc.) commencing from the finished pavement level and not exceeding 3.0m deep and load and cart away the excess excavated material unless instructed otherwise by the KPLC supervisor on site, <i>rate per cubic meter</i>
10	Excavate a 0.6m to 0.75m wide cable trench in a tarmac road commencing from the finished road level and not exceeding 3.0m deep, and cart away the excess excavated material unless otherwise directed by the KPLC supervisor on site.	M3	Excavate a 0.6m to 0.75m wide cable trench in a tarmac road commencing from the finished road level and not exceeding 3.0m deep, and cart away the excess excavated material unless otherwise directed by the KPLC supervisor on site., <i>rate per cubic meter</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
11	Excavate a 0.6m to 0.75m wide cable trench in rock of all classes (A, B, C, etc.) and cart away the excess excavated material unless otherwise directed by the KPLC supervisor on site	M3	Excavate a 0.6m to 0.75m wide cable trench in rock of all classes (A, B, C, etc.) and cart away the excess excavated material unless otherwise directed by the KPLC supervisor on site, <i>rate per cubic meter</i> .
12	Rock drilling under a tarmac road including installation of a 150mm diameter PVC heavy gauge duct as required and concrete surround at the edges	M	Rock drilling under a tarmac road including installation of a 150mm diameter PVC heavy gauge duct as required and concrete surround at the edges, <i>rate per meter</i>
13	Provision of service tunnel under a tarmac road measuring 0.8m wide by 0.4m high with a concrete lining	M	Provision of service tunnel under a tarmac road measuring 0.8m wide by 0.4m high with a concrete lining, <i>rate per meter</i>
14	Removal of trench concrete slabs/ covers	M3	Removal of trench concrete slabs/covers, <i>rate per cubic meter</i>

NOTE: The cost of all the necessary planking and strutting to sides of this cable trenches and dewatering to keep these excavations free from general water is deemed to be included in the quoted unit rates.

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2) Reinstatement

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Reinstate an excavated trench using the excavated material to the standards specified in KPLC drawing no. 02A	M3	Reinstate an excavated trench using the excavated material to the standards specified in KPLC drawing no. 02A, <i>rate per cubic meter</i>
2	Reinstate the excavated trench using imported (not the excavated material) red soil to the specified standards in KPLC drawing no.02A	M3	Reinstate the excavated trench using imported (not the excavated material) red soil to the specified standards in KPLC drawing no.02A, <i>rate per cubic meter</i>
3	Reinstate an excavated trench using imported (not the excavated material) murrum to the specified standards in KPLC drawing no.02A	M3	Reinstate an excavated trench using imported (not the excavated material) murrum to the specified standards in KPLC drawing no.02A, <i>rate per cubic meter</i>
4	Reinstate an excavated trench using imported river sand to the specified standards in KPLC drawing no.02A	M3	Reinstate an excavated trench using imported river sand to the specified standards in KPLC drawing no.02A, <i>rate per cubic meter</i>
5	Reinstate an excavated trench in pavement to the standards specified for a pavement in KPLC drawing no. 02A.	M3	Reinstate an excavated trench in pavement to the standards specified for a pavement in KPLC drawing no. 02A, <i>rate per cubic meter</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
6	Reinstate an excavated trench in a tarmac road to the specified standards for a tarmac road as per KPLC drawing no. 01 and as required by the relevant area council or Ministry of Public Works	M3	Reinstate an excavated trench in a tarmac road to the specified standards for a tarmac road as per KPLC drawing no. 01 and as required by the relevant area council or Ministry of Public Works, <i>rate per cubic meter</i>
7	Reinstate an excavated trench using (1:2:4) concrete reinforced with BRC No. A142	M3	Reinstate an excavated trench using (1:2:4) concrete reinforced with BRC No. A142, <i>rate per cubic meter</i>
8	Reinstate an excavated trench using murram compacted to 95% maximum dry density at 80-105% optimum moisture content (AASHTO T 180)	M3	Reinstate an excavated trench using murram compacted to 95% maximum dry density at 80-105% optimum moisture content (AASHTO T 180), <i>rate per cubic meter</i>
9	Reinstate an excavated trench using approved hardcore compacted to 96% maximum dry density at 80 - 100% optimum moisture content (BS 1377 Test 14)	M3	Reinstate an excavated trench using approved hardcore compacted to 96% maximum dry density at 80 - 100% optimum moisture content (BS 1377 Test 14), <i>rate per cubic meter</i>
10	Reinstate an excavated trench in cabro works or a tarmac footpath to the standard that was in place before the site was disturbed	M3	Reinstate an excavated trench in cabro works or a tarmac footpath to the standard that was in place before the site was disturbed, <i>rate per cubic meter</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
11	Reinstate a grassed area by backfilling the trench with the excavated material. The upper 150mm will be imported red soil mixed with manure. The type of grass to be planted will be the one approved by the county government parks superintendent	M3	Reinstate a grassed area by backfilling the trench with the excavated material. The upper 150mm will be imported red soil mixed with manure. The type of grass to be planted will be the one approved by the county government parks superintendent, <i>rate per cubic meter</i>
12	Reinstate standing bougainvillea and other flora by excavating a hole 120cm diameter by 120cm deep, fill it with red soil mixed with manure. A 100cm tall support pole of a type approved by the county government parks superintendent will be planted next to the bougainvillea	M3	Reinstate standing bougainvillea and other flora by excavating a hole 120cm diameter by 120cm deep, fill it with red soil mixed with manure. A 100cm tall support pole of a type approved by the county government parks superintendent will be planted next to the bougainvillea, <i>rate per cubic meter</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
13	Reinstate shrub bougainvillea and other flora by excavating holes, 120cm diameter by 120cm deep, fill with red soil mixed with manure. The holes would be at 300cm spacing in a triangular network (hexagon corner diagonally interlinked). Erect 200mm diameter cedar poles midway between holes in the same format. External poles (of the hexagon) to be 600mm deep and 300mm above the ground. The pole at the middle (of the hexagon) to be 600mm deep and 300mm above the ground. Areas between holes to be filled with 150mm murrum. Fix barbed wire between the poles in a hexagonal shape. The type of bougainvillea/ other flora is to be approved by the county government parks superintendent	M2	Reinstate shrub bougainvillea and other flora by excavating holes, 120cm diameter by 120cm deep, fill with red soil mixed with manure. The holes would be at 300cm spacing in a triangular network (hexagon corner diagonally interlinked). Erect 200mm diameter cedar poles midway between holes in the same format. External poles (of the hexagon) to be 600mm deep and 300mm above the ground. The pole at the middle (of the hexagon) to be 600mm deep and 300mm above the ground. Areas between holes to be filled with 150mm murrum. Fix barbed wire between the poles in a hexagonal shape. The type of bougainvillea/ other flora is to be approved by the county government parks superintendent, <i>rate per square meter</i>
14	Restoration of trench concrete slabs/covers	M3	Restoration of trench concrete slabs/covers, <i>rate per cubic meter</i>

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3) Laying of Pipes and Ducts

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Provide and lay a 200 mm diameter Heavy Gauge PVC pipe (duct) covered with a 150mm concrete surround as specified in KPLC drawing.	M	Provision and laying of a 200 mm diameter Heavy Gauge PVC pipe/duct covered with a 150mm concrete surround as specified in KPLC drawing, <i>rate per meter</i>
2	Provide and lay a 200 mm diameter HDPE pipe (duct) without concrete surround as specified in KPLC drawing.	M	Provision and laying of a 200 mm diameter HDPE pipe/duct without concrete surround as specified in KPLC drawing, <i>rate per meter</i>
3	Provide and lay a 150mm diameter precast concrete cable duct with a 150mm concrete surround as specified in KPLC drawing.	M	Provision and laying of a 150mm diameter precast concrete cable duct with a 150mm concrete surround as specified in KPLC drawing, <i>rate per meter</i>
4	Provide and lay a 150mm diameter HDPE duct without concrete surround as specified in KPLC drawing.	M	Provision and laying of a 150mm diameter HDPE duct without concrete surround as specified in KPLC drawing, <i>rate per meter</i>
5	Provide and lay a 100mm diameter HDPE duct without concrete surround	M	Provision and laying of a 100mm diameter HDPE pipe/duct without concrete surround, <i>rate per meter</i>
6	Provide and lay a 50mm diameter HDPE duct without concrete surround	M	Provision and laying of a 50mm diameter HDPE pipe/duct without concrete surround, <i>rate per meter</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
7	Provision & installation of storm water concrete duct 1 foot diameter by 1 meter long with a 150mm concrete surround as specified in KPLC drawing.	Per pc	Provision and installation of a storm water concrete duct measuring 1 foot in diameter by 1 meter in length with a 150mm concrete surround as specified in KPLC drawing, <i>rate per piece</i>
8	Provision & installation of a storm water concrete duct 2 feet diameter by 1 meter long with a 150mm concrete surround as specified in KPLC drawing.	Per pc	Provision & installation of a storm water concrete duct 2 feet diameter by 1 meter long with a 150mm concrete surround as specified in KPLC drawing, <i>rate per piece</i>
9	Provision & installation of a storm water concrete duct 2.5 feet diameter by 1 meter long with a 150mm concrete surround as specified in KPLC drawing.	Per pc	Provision & installation of a storm water concrete duct 2.5 feet diameter by 1 meter long with a 150mm concrete surround as specified in KPLC drawing, <i>rate per piece</i>
10	Provision & installation of a storm water concrete duct 3 feet diameter by 1 meter long with a 150mm concrete surround as specified in KPLC drawing.	Per pc	Provision & installation of a storm water concrete duct 3 feet diameter by 1 meter long with a 150mm concrete surround as specified in KPLC drawing., <i>rate per piece</i>

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4) Construction of Enclosures, Manholes and Slabs

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Construct a turret enclosure wall as per appropriate KPLC standard of finishing specified in KPLC drawing.	M2	Construction of a turret enclosure wall as per appropriate KPLC standard of finishing specified in KPLC Drawing, <i>rate per square meter</i>
2	Construct a cable joint manhole of 2mX2mX2m using quarry stones	M3	Construction of a cable joint manhole measuring 2m X 2m X 2m using Quarry stones, <i>rate per cubic meter</i>
3	Construct a cable joint manhole of 2mX2mX2m using BRC reinforced concrete	M3	Construction of a cable joint manhole measuring 2m X 2m X 2m using BRC reinforced concrete, <i>rate per cubic meter</i>
4	Concrete slabs construction using D10 metal rods	M2	Construction of a concrete slab using D10 metal rods, <i>rate per square meter</i>
5	Concrete slabs construction using D12 metal rods		Construction of a concrete slab using D12 metal rods, <i>rate per square meter</i>
6	Concrete slabs construction using D16 metal rods	M2	Construction of a concrete slab using D16 metal rods, <i>rate per square meter</i>
7	Construction of a slanting ground using quarry broken stones (pitching)	M3	Construction of a slanting ground using quarry broken stones (pitching), <i>rate per cubic meter</i>

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5) Earth Works and Barricades

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Compaction of an existing subgrade to 95% MDD	M2	Compaction of an existing subgrade to 95% MDD, <i>rate per square meter</i>
2	Mass concrete base 1:3:6 ratio, 50 mm thick class 15/20 blinding	M3	Construction of a mass concrete base 1:3:6 ratio, 50 mm thick class 15/20 blinding, <i>rate per cubic meter</i>
3	Vibrated reinforced concrete 1:1:2 200 mm thick base slab	M3	Construction of a vibrated reinforced concrete 1:1:2 200 mm thick base slab, <i>rate per cubic meter</i>
4	Vibrated reinforced concrete 1:1:2 250 mm thick side walls	M3	Construction of a vibrated reinforced concrete 1:1:2 250 mm thick side walls, <i>rate per cubic meter</i>
5	Sawn timber formwork sides of slabs	M2	Sawn timber formwork sides of slabs, <i>rate per square meter</i>
6	Sawn timber formwork sides of walls	M2	Sawn timber formwork sides of walls, <i>rate per square meter</i>
7	Cover slabs 1330 mm by 990 mm vibrated reinforced concrete 1:1:2 125 mm thick concrete, with hooks for lifting.	M3	Provision of cover slabs measuring 1330 mm X 990 mm vibrated reinforced concrete 1:1:2 125 mm thick concrete, with hooks for lifting, <i>rate per meter</i>
8	Cable supports, 10 mm thick MS plate embedded in a reinforced concrete wall.	M	Cable supports, 10 mm thick MS plate embedded in a reinforced concrete wall. <i>Rate per meter</i>
9	125mmX75mmX4mm rectangular hollow section, RHS, 500 mm long welded to the mild steel, MS, plate in the RC wall	PC	125mm X 75mm X 4 mm Rectangular Hollow section, RHS, 500 mm long welded to the Mild Steel, MS, plate in the RC wall, <i>rate per piece</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
10	Cable tray of 50X400 mm GI galvanized perforated.	M	Cable tray of 50X400 mm GI galvanized perforated, <i>rate per meter</i>
11	Removal of heaped/damped soil or waste on power cables or under power lines using a 42 ton bucket excavator with diesel including mobilization charges and spread the soil or waste materials within site area	Ksh. per hr.	Removal of heaped/damped soil or waste on power cables or under power lines using a 42 tons bucket excavator with diesel including mobilization charges and spread the soil or waste materials within site area, <i>rate per hour</i>
12	Removal of heaped/damped soil or waste on power cables or under power lines using a 42 ton bucket excavator with diesel including mobilization charges and carry away the soil or Waste material out of site area.	Ksh. per hr.	Removal of heaped/damped soil or waste on power cables or under power lines using a 42 tons bucket excavator with diesel including mobilization charges and Carry away the soil or Waste material out of site area, <i>rate per hour</i>
13	Backfill cable manholes with dry murram soil	M3	Backfilling of cable manholes with dry murram soil, <i>rate per cubic meter</i>
14	Backfill cable manholes with pure and dry river sand	M3	Backfilling of cable manholes with pure and dry river sand, <i>rate per cubic meter</i>
15	Packing of sandbags (50 kg each) to prevent storm water from accessing sensitive installation or divert away water from cable trenches as a barrier	Per bag	Packing of sandbags (50 kg each) to prevent storm water from accessing a sensitive installation or divert away water from cable trenches as a barrier, <i>rate per bag</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
16	Construction of a gabion using stones and woven wire	M3	Construction of a gabion using sizes of stones and woven wire gauges approved by the Project Engineer, <i>rate per cubic meter</i>
17	Site barricading using iron sheets, safety signs and, where necessary, installation of temporary crossing timber planks for pedestrian	M	Site barricading using iron sheets, safety signs and where necessary installation of temporary crossing timber planks for pedestrian, <i>rate per linear meter</i>

6) Cleaning and Painting

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Repainting using water based paint	M2	Repainting a surface using water based paint, <i>rate per square meter</i>
2	Repainting using solvent based paint	M2	Repainting a surface using solvent based paint, <i>rate per square meter</i>
3	Repainting using special reflective paint	M2	Repainting a surface using special reflective painting, <i>rate per square meter</i>
4	Painting the walls of a concrete manhole	M2	Painting the walls of a concrete manhole, <i>rate per square meter</i>
5	Cleaning the walls and the floor of a concrete trench	M2	Cleaning the walls and the floor of a concrete trench, <i>rate per square meter</i>

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7) Hiring of Equipment

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Hiring of scaffolding metallic platform complete with a stepping timber panel	per pc per day	Hiring of scaffolding metallic platform complete with a stepping timber panel, <i>rate per piece per day</i>
2	Hiring of working canvas tent 4 mts (w) by 8 mts (l) by 4 mts (h) complete with metallic supports-mobile	day	Hiring of a working mobile canvas tent 4 mts (w) by 8 mts (l) by 4 mts (h) complete with metallic supports, <i>rate per piece</i>
3	Provide a water pump (at least 20hp) and pump out water from cable trenches and maintaining the trenches dry if need be	day	Provision of a water pump and pump out water from cable trenches and, if need be, maintaining the trenches dry, <i>rate per cubic meter</i>
4	Hiring of a vole drill and its operator	day	Hiring of a vole drill and its operator. This includes fuelling, transport, mobilization and operation, <i>rate per day</i>
5	Hiring of a compressor and its operator	day	Hiring of a compressor and its operator. This includes fuelling, transport, mobilization and operation, <i>rate per day</i>
6	Hiring of a power saw and its operator	day	Hiring of a power saw and its operator. This includes fuelling, transport, mobilization and operation, <i>rate per day</i>
7	Hiring of a welding machine and its operator	day	Hiring of a welding machine and its operator. This includes powering, welding rods, transport, mobilization and operation, <i>rate per day</i>
8	Hiring of a specialized crane and its operator	day	Hiring of a specialized crane and its operator. This includes fuelling, transport, mobilization and operation, <i>rate per day</i>

APPENDICES

Appendix 4: Transport

1) Transport of Poles and Street Lighting Columns

a) Transport of 10m, 11m, 12m & 14m Wooden Poles

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Fixed wooden pole transport per lorry load of 1no. to 5no. poles for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport per lorry load of between 1 and 5 wooden poles for jobs whose distance from the issuing store is not more than 25km, <i>rate per trip</i>
2	Fixed wooden pole transport per lorry load of 6no. to 10no. poles for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport per lorry load of between 6 and 10 wooden poles for jobs whose distance from the issuing store is not more than 25km, <i>rate per trip</i>
3	Fixed wooden pole transport per lorry load of 11no. to 20no. poles for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport per lorry load of between 11 and 20 wooden poles for jobs whose distance from the issuing store is not more than 25km, <i>rate per trip</i>
4	Fixed wooden pole transport per lorry load of 21no. to 30no. poles for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport per lorry load of between 21 and 30 wooden poles for jobs whose distance from the issuing store is not more than 25km, <i>rate per trip</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
5	Fixed wooden pole transport per lorry load of 1no. to 5no. poles including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport per lorry load of between 1 and 5 wooden poles including return of replaced poles and accessories for jobs whose distance from the issuing store is not more than 25km, <i>rate per trip</i>
6	Fixed wooden pole transport per lorry load of 6no. to 10no. poles including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport per lorry load of between 6 and 10 wooden poles including return of replaced poles and accessories for jobs whose distance from the issuing store is not more than 25km, <i>rate per trip</i>
7	Fixed wooden pole transport per lorry load of 11no. to 20no. poles including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport per lorry load of between 11 and 20 wooden poles including return of replaced poles and accessories for jobs whose distance from the issuing store is not more than 25km, <i>rate per trip</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
8	Fixed wooden pole transport per lorry load of 21no. to 30no. poles including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport per lorry load of between 21 and 30 wooden poles including return of replaced poles and accessories for jobs whose distance from the issuing store is not more than 25km, <i>rate per trip</i>
9	Wooden pole transport per lorry load (lorry load = range defined by total number of poles per job, capped at 30 poles) for jobs whose distance from the issuing store is more than 25km, <i>rate per km for the extra kilometers</i>	km	Wooden pole transport per lorry load (lorry load = range defined by total number of poles per trip, capped at 30 poles) for jobs whose distance from the issuing store is more than 25km, <i>rate per km</i>
10	Wooden Pole transport per lorry load (lorry load = range defined by the total number of poles per job, capped at 30 poles) including return of replaced poles and accessories for distance beyond 25km, <i>rate per km for the extra kilometers</i>	km	Wooden Pole transport per lorry load (lorry load = range defined by total number of poles per trip, capped at 30 poles) including return of replaced poles and accessories for distance beyond 25km, <i>rate per km for the extra kilometers</i>

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b) Transport of 10m, 11m, 12m and 14m Concrete Poles

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Fixed concrete pole transport for 1no. to 3no. poles for jobs not exceeding 25km from the issuing stores.	trip	Fixed transport per lorry load of between 1 and 3 concrete poles for jobs whose distance from the issuing store does not exceed 25km, <i>rate per trip</i>
2	Fixed concrete pole transport for 4no. to 6no. poles for jobs not exceeding 25km from the issuing stores.	trip	Fixed transport per lorry load of between 4 and 6 concrete poles for jobs whose distance from the issuing store does not exceed 25km, <i>rate per trip</i>
3	Fixed concrete pole transport for 7no. to 9no. poles for jobs not exceeding 25km from the issuing stores.	trip	Fixed transport per lorry load of between 7 and 9 concrete poles for jobs whose distance from the issuing store does not exceed 25km, <i>rate per trip</i>
4	Fixed concrete pole transport for 1no. to 3no. poles including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km.	trip	Fixed transport per lorry load of between 1 and 3 concrete poles including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km, <i>rate per trip</i>
5	Fixed concrete pole transport for 4no. to 6no. poles including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km.	trip	Fixed transport per lorry load of between 4 and 6 concrete poles including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km, <i>rate per trip</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
6	Fixed concrete pole transport for 7no. to 9no. poles including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km.	trip	Fixed transport per lorry load of between 7 and 9 concrete poles including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km, <i>rate per trip</i>
7	Concrete pole transport per lorry load (lorry load = range defined by the total number of poles per job, capped at 9 poles) per km for jobs which are more than 25km from the issuing stores. <i>rate per km for the extra kilometers</i>	km	Concrete pole transport per lorry load (lorry load = range defined by the total number of poles per trip, capped at 9 poles) for jobs which are more than 25km from the issuing store, <i>rate per km for the extra kilometers</i>
8	Concrete pole transport per lorry load (lorry load = range defined by the total number of poles per job, capped at 9 poles including return of replaced poles and accessories for a distance beyond 25km <i>rate per km for the extra kilometers</i>	km	Concrete pole transport per lorry load (lorry load = range defined by total number of poles per trip, capped at 9 poles) including return of replaced poles and accessories for jobs which are more than 25km from the issuing store, <i>rate per km for the extra kilometers</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
9	Fixed transport of 1no. to 3no. recovered concrete poles and the associated recovered materials for jobs not exceeding 25km to the nearest store.	trip	Fixed transport of recovered 1 to 3 concrete poles and the associated recovered materials for jobs not exceeding 25km to the issuing store, <i>rate per trip</i>
10	Fixed transport of 4no. to 6no. recovered concrete poles and the associated recovered materials for jobs not exceeding 25km to the nearest store.	trip	Fixed transport of recovered 4 to 6 concrete poles and the associated recovered materials for jobs not exceeding 25km to the issuing store, <i>rate per trip</i>
11	Fixed Transport of 7no. to 9no. recovered concrete poles and the associated recovered materials for jobs not exceeding 25km to the nearest store.	trip	Fixed transport of recovered 7 to 9 concrete poles and the associated recovered materials for jobs not exceeding 25km to the issuing store, <i>rate per trip</i>
12	Transport of recovered/ unused concrete poles and the associated recovered materials per lorry load (lorry load = range defined by total number of poles per job, capped at 9 concrete poles for jobs which are more than 25km from the nearest store	km	Transport of recovered/ unused concrete poles and associated recovered materials per lorry load (lorry load = range defined by total number of poles per trip, capped at 9 concrete poles) for jobs which are more than 25km to the nearest KPLC store, <i>rate per km for the extra kilometers</i>

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c) Transport of 15m and 18m Wooden Poles

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Fixed wooden pole transport per lorry load (lorry load = 1no. to 7no. poles) for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport of wooden poles per lorry load of between 1 and 7 poles for jobs whose distance from the issuing store does not exceed 25km, <i>rate per trip</i>
2	Fixed wooden pole transport per lorry load (lorry load = 8no. to 13no. poles) for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport of wooden poles per lorry load of between 8 and 13 poles for jobs whose distance from the issuing store does not exceed 25km, <i>rate per trip</i>
3	Fixed wooden pole transport per lorry load (lorry load = 14no. to 19no. poles) for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport of wooden poles per lorry load of between 14 and 19 poles for jobs whose distance from the issuing store does not exceed 25km, <i>rate per trip</i>
4	Fixed wooden pole transport per lorry load (lorry load = 20no. to 25no. poles) for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport of wooden poles per lorry load of between 20 and 25 poles for jobs whose distance from the issuing store does not exceed 25km, <i>rate per trip</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
5	Fixed wooden pole transport per lorry load (lorry load = 1no. to 7no. poles) including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport of wooden poles per lorry load of between 1 and 7 poles for maintenance including return of replaced poles and accessories for jobs whose distance from issuing store does not exceed 25km, <i>rate per trip</i>
6	Fixed wooden pole transport per lorry load (lorry load = 8no. to 13no. poles) including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport of wooden poles per lorry load of between 8 and 13 poles for maintenance including return of replaced poles and accessories for jobs whose distance from issuing store does not exceed 25km, <i>rate per trip</i>
7	Fixed wooden pole transport per lorry load (lorry load = 14no. to 19no. poles) including return of replaced poles and accessories for jobs whose distance from issuing store does not exceed 25km	trip	Fixed transport of wooden poles per lorry load of between 14 and 19 poles for maintenance including return of replaced poles and accessories for jobs whose distance from issuing store does not exceed 25km, <i>rate per trip</i>
8	Fixed wooden pole transport per lorry load (lorry load = 20no. to 25no. Poles) including return of replaced poles and accessories for jobs whose distance from issuing store does not exceed 25km	trip	Fixed transport of wooden poles per lorry load of between 20 and 25 poles for maintenance including return of replaced poles and accessories for jobs whose distance from issuing store does not exceed 25km, <i>rate per trip</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
9	Wooden pole transport per lorry load (lorry load = range defined by total number of poles per job, capped at 25 wooden poles) for jobs whose distance from issuing store is more than 25km, rate per kilometer for the extra kilometers	km	Wooden pole transport per lorry load (lorry load = range defined by total number of poles per trip, capped at 25 wooden poles) for jobs whose distance from issuing store is more than 25km, <i>rate per km for the extra kilometers</i>
10	Wooden pole transport per lorry load (lorry load = range defined by total number of poles per job, capped at 25 wooden poles) including return of replaced poles and accessories for distance beyond 25km, rate per kilometer for the extra kilometres	km	Wooden Pole transport per lorry load (lorry load = range defined by total number of poles per trip, capped at 25 wooden poles) for maintenance including return of replaced poles and accessories for distance beyond 25km, <i>rate per km for the extra kilometers</i>
11	Transport of recovered/unused wooden poles and the associated materials to the nearest KPLC facility as per Project Engineer's approval, transport per lorry load = up to 25 recovered/unused poles and the associated accessories, rate per kilometer for the extra kilometres	km	Transport of recovered/unused wooden poles and the associated materials to the nearest KPLC facility as per Project Engineer's approval, transport per lorry load = up to 25 recovered/unused poles and the associated accessories, rate per kilometer for the extra kilometres

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d) Transport of 15m and 18m Concrete Poles

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Fixed concrete pole transport per lorry load (lorry load = 1no. to 3no. poles for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport of between 1 and 3 concrete poles for jobs not exceeding 25km from the issuing stores, <i>rate per trip</i>
2	Fixed concrete pole transport per lorry load (lorry load = 4no. to 6no. poles for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport of between 4 and 6 concrete poles for jobs not exceeding 25km from the issuing stores, <i>rate per trip</i>
3	Fixed concrete pole transport per lorry load (lorry load = 7no. to 8no. poles for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport of between 7 and 8 concrete poles for jobs not exceeding 25km from the issuing stores, <i>rate per trip</i>
4	Fixed concrete pole transport per lorry load (lorry load = 1no. to 3no. concrete poles) including return of replaced poles and the associated accessories for jobs whose distance from the issuing store does not exceed 25km.	trip	Fixed transport of between 1 and 3 concrete poles including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km, <i>rate per trip</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
5	Fixed concrete pole transport per lorry load (lorry load = 4no. to 6no. concrete poles) including return of replaced poles and the associated accessories for jobs whose distance from the issuing store does not exceed 25km.	trip	Fixed transport of between 4 and 6 concrete poles including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km, <i>rate per trip</i>
6	Fixed concrete pole transport per lorry load (lorry load = 7no. to 8no. concrete poles) including return of replaced poles and the associated accessories for jobs whose distance from the issuing store does not exceed 25km.	trip	Fixed transport of between 7 and 8 concrete poles including return of replaced poles and accessories for jobs whose distance from the issuing store does not exceed 25km, <i>rate per trip</i>
7	Concrete pole transport per km per trip for up to range defined by total number of poles per job, capped at 8 concrete poles (a 15m concrete pole is approx. 1.3 tons) for jobs which are more than 25km from the issuing stores. <i>Rate per kilometre</i> for the extra kilometers	km	Concrete pole transport per km per lorry load of range defined by total number of poles per trip, capped at 8 concrete poles for jobs which are more than 25km from issuing stores, <i>rate per km for the extra kilometers</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
8	Concrete pole transport per lorry load (lorry load = up to range defined by total number of poles per job, capped at 8 concrete poles) including return of replaced poles and accessories for distance beyond 25km from the issuing store, <i>rate per km</i> for the extra kilometres	km	Concrete pole transport per lorry load of range defined by total number of poles per job, capped at 8 concrete poles per trip including return of replaced poles and accessories for distances beyond 25km, <i>rate per km for the extra kilometers</i>
9	Transport of a lorry load of between 1no. and 3no.recovered concrete poles and the associated recovered materials (for jobs not exceeding 25km to the issuing store). poles	trip	Transport of between 1 and 3 recovered concrete poles and associated recovered materials for jobs not exceeding 25km to the issuing store, <i>rate per trip</i>
10	Transport of a lorry load of between 4no. and 6no.recovered concrete poles and the associated recovered materials (for jobs not exceeding 25km to the issuing store). poles	trip	Transport of between 4 and 6 recovered concrete poles and associated recovered materials for jobs not exceeding 25km to the issuing store, <i>rate per trip</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
11	Transport of a lorry load of between 7no. and 8no.recovered concrete poles and the associated recovered materials (for jobs not exceeding 25km to the issuing store). poles	trip	Transport of between 7 and 8 recovered concrete poles and associated recovered materials for jobs not exceeding 25km to the issuing store, <i>rate per trip</i>
12	Transport of recovered concrete poles and the associated recovered materials per lorry load (lorry load = up to range defined by total number of poles per job, capped at 8 concrete poles for jobs which are more than 25km from issuing stores, <i>rate per kilometre</i> for the extra kilometers	km	Transport of recovered concrete poles and the associated recovered materials per lorry load of range defined by total number of poles per job, capped at 8 concrete poles, per km for jobs which are more than 25km from issuing stores, <i>rate per km for the extra kilometers</i>

e) Transport of Steel Street Lighting Columns

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Fixed transport of steel street lighting columns per lorry load (lorry load = 1no. to 5no. columns) for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport of street lighting columns per lorry load of between 1 and 5 columns for jobs whose distance from issuing store does not exceed 25km, <i>rate per trip</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
2	Fixed transport of steel street lighting columns per lorry load (lorry load = 6no. to 10no. columns) for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport of street lighting columns per lorry load of between 6 and 10 columns for jobs whose distance from issuing store does not exceed 25km, <i>rate per trip</i>
3	Fixed transport of steel street lighting columns per lorry load (lorry load = 11no. to 20no. columns) for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport of street lighting columns per lorry load of between 11 and 20 columns for jobs whose distance from issuing store does not exceed 25km, <i>rate per trip</i>
4	Fixed transport of street lighting columns per lorry load (lorry load = 21no. to 30no. columns) for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport of street lighting columns per lorry load of between 21 and 30 columns for jobs whose distance from issuing store does not exceed 25km, <i>rate per trip</i>
5	Transport of steel street lighting columns per lorry load (lorry load = up to range defined by total number of columns per job, capped at 30no. columns) for jobs whose distance from the issuing store exceed 25km, rate per kilometer for the extra kilometres	km	Transport of street lighting columns per lorry load of range defined by the total number of columns per trip, capped at 30no. columns for jobs whose distance from issuing store exceed 25km, <i>rate per km for the extra kilometers</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
6	Transport of recovered existing steel street lighting columns per lorry load (lorry load = up to range defined by total number of columns per job, capped at 30no. columns) and other accessories to stores, rate per kilometer for the extra kilometres	km	Transport of recovered existing steel street lighting columns per lorry load (lorry load = up to range defined by total number of columns per job, capped at 30no. columns) and other accessories to stores, rate per kilometer for the extra kilometres, <i>rate per km for the extra kilometers</i>

2) Transport of Materials

a) Transport of Materials For LV, MV & Street Lighting Works

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Fixed materials transport cost per lorry load (lorry load = 0.5km of line materials excluding transformers) for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport of materials per lorry load of up to 0.5km of line materials excluding Transformers for jobs whose distance from issuing store does not exceed 25km, <i>rate per trip</i>
2	Fixed materials transport cost per lorry load (lorry load = 0.6km to 1km of line materials excluding transformers) for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport of materials per lorry load of between 0.5km and 1.0km of line materials excluding Transformers for jobs whose distance from issuing store does not exceed 25km, <i>rate per trip</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
3	Fixed materials transport cost per lorry load (lorry load = 1.1km to 2.0km of line materials excluding transformers) for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport of materials per lorry load of between 1.1km and 2.0km of line materials excluding Transformers for jobs whose distance from issuing store does not exceed 25km, <i>rate per trip</i>
4	Fixed materials transport cost per lorry load (lorry load = 2.1km to 3.0km of line materials excluding transformers) for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport of materials per lorry load of between 2.1km and 3.0km of line materials excluding Transformers for jobs whose distance from issuing store does not exceed 25km, <i>rate per trip</i>
5	Materials transport cost per lorry load (lorry load = range defined by length of line per job, capped at 3km excluding transformers) for jobs whose distance from the issuing store is more than 25km, <i>rate per kilometre</i> for the extra kilometers	km	Materials transport per lorry load of range defined by the length of line per job, capped at 3km excluding transformers for jobs whose distance from issuing store is more than 25km, <i>rate per km for the extra kilometers</i>
6	Fixed materials/accessories transport cost excluding conductors and transformers (for small maintenance jobs requiring no conductors and transformers)	trip	Fixed transport of materials/accessories for small maintenance jobs that do not require conductors and transformers, <i>rate per trip</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
7	Transport of transformers cost per lorry load per km (lorry load = up to 8 transformers)	km	Transport of transformers per lorry load of up to 8 transformers, <i>rate per km</i>
8	Transport of recovered transformers per lorry load per km (lorry load = up to 8 transformers)	km	Transport of recovered transformers per lorry load of up to 8 transformers, <i>rate per km</i>
9	Street lighting brackets, control pillars and other accessories transport cost per lorry load (lorry load = materials for 1no. to 15no. street lighting columns) for jobs whose distance from the issuing store does not exceed 25km	trip	Transport of street lighting brackets, control pillars and other accessories per lorry load of materials for between 1 and 15 street lighting columns for jobs whose distance from issuing store doesn't exceed 25km, <i>rate per trip</i>
10	Street lighting brackets, control pillars and other accessories transport cost per lorry load (lorry load = materials for 16no. to 30no. street lighting columns) for jobs whose distance from the issuing store does not exceed 25km	trip	Transport of street lighting brackets, control pillars and other accessories per lorry load of materials for between 16 and 30 street lighting columns for jobs whose distance from issuing store doesn't exceed 25km, <i>rate per trip</i>

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ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
11	Street lighting brackets, control pillars and other accessories transport cost per lorry load (lorry load = materials for 31no. to 50no. street lighting columns) for jobs whose distance from the issuing store does not exceed 25km	trip	Transport of street lighting brackets, control pillars and other accessories per lorry load of materials for between 31 and 50 street lighting columns for jobs whose distance from issuing store doesn't exceed 25km, <i>rate per trip</i>
12	Street lighting brackets, control pillars and other accessories transport cost per lorry load (lorry load = materials for columns defined by range of columns per job, capped at 50no. columns for jobs whose distance from the issuing store is more than 25km. <i>Rate per kilometre for the extra kilometers</i>	km	Transport of street lighting brackets, control pillars and other accessories per lorry load of materials for columns defined by range of columns per job, capped at 50no. columns for jobs whose distance from issuing store is more than 25km, <i>rate per km for the extra kilometers</i>

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b) Transport of Materials For 66kV Works

ITEM NO.	ITEM DESCRIPTION	UNIT	DETAILS
1	Fixed materials transport cost per lorry load (lorry load = up to 0.5km of line materials) for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport of materials per lorry load of up to 0.5km of line materials for jobs whose distance from issuing store does not exceed 25km, <i>rate per trip</i>
2	Fixed materials transport cost per lorry load (lorry load = 0.6km to 1.1km of line materials) for jobs whose distance from the issuing store does not exceed 25km	trip	Fixed transport of materials per lorry load of between 0.6km and 1.1km of line materials for jobs whose distance from issuing store does not exceed 25km, <i>rate per trip</i>
3	Materials transport cost per lorry load (lorry load = range defined by length of line per job, capped at 1.1km) for jobs whose distance from the issuing store is more than 25km. <i>Rate per kilometre for the extra kilometres</i>	km	Materials transport per lorry load of range defined by length of line per job, capped at 1.1km for jobs whose distance from issuing store is more than 25km, <i>rate per km for the extra kilometers</i>
4	Fixed materials/accessories transport cost excluding conductors (for small maintenance jobs requiring no conductors)	trip	Fixed transport of materials/accessories for small maintenance jobs that do not require conductors and transformers, <i>rate per trip</i>





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