ENGINEER RATES SCHEDULE

Table 1

NEW CONNECTIONS WORKS

No.	LOW VOLTAGE DESCRIPTION OF WORKS	QUANTITY	CURRENT RATES (KSH)
1	Pole hole digging per ft.	1	250
2	Wooden Pole erection	1	801
3	Pole dressing including pole caps (1 wire) for both concrete poles and wooden poles	1	200
4	Concrete Pole erection	1	4,000
5	Pole recovery (wooden)	1	330
6	Pole recovery (concrete)	1	4,000
7	Stay hole digging per ft (soft soil including marram)	1	250
8	LV Stay making and installation	1	870
9	Flying stay making & installation (excluding installation of the flying stay pole)	1	1,740
10	Strut making & erection (wooden poles only)	1	500
11	Bush clearing/tree cutting per km as per KPLC standards. For both new lines and existing lines	1	5,880
12	Single conductor stringing per km (Bare/PVC 50sqmm & 100sqmm)	1	3,698
13	LV ABC stringing (both 4 wire & 2-wire) per km	1	6,000
14	LV ABC Termination and jointing per phase	1	400
15	ABC recovery per km	1	1,849
16	PME installation	1	549
17	Single Phase Meter Installation (Post Paid)	1	1,000
18	Single Phase Meter Installation (Pre - Paid)	1	1,000
19	Three Phase Meter Installation (Post Paid)	1	1,200
No	**11KV & 33KV WORK DESCRIPTION**	**QUANTITY**	**CURRENT RATES (Ksh)**
	NB. All works shall be done in strict compliance with KPLC construction standards		
20	**Pole hole digging per foot.** - *This rate applies to non-rocky holes. The minimum cost per hole shall be Ksh. 2,100 for 6ft hole and a max. of Ksh. 2,800 for 8ft hole*	1	250
21	**Pole Hole reinforcement for marshy and rocky soil conditions per foot of reinforcement. i.e. (3ftX3ftX1ft deep)** -*This rate involves digging 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)* -	1	1,000
22	**Pole hole digging per foot (rocky ground)** - *This rate applies where a contractor chooses not to reinforce the*	1	850

	hole but hires a compressor to dig the hole to the appropriate depth. It will only apply to the r rocky part of the hole only, the normal hole digging rate shall apply where the soil is soft		
23	**Pole dressing including pole caps, danger plate, barbed wire and pole no. plates (1 wire)** - *This rate applies to both wooden and concrete poles for both new works and maintenance works*	1	320
24	**Pole erection - 11m & 12M long poles (wooden)** - *This rate applies to both stout and medium size poles*	1	961
2	**Pole erection - 14m & 15M long poles (wooden)** - *This rate applies to both stout and medium size poles*	1	1,310
26	**Concrete Pole erection - 11m & 12M long poles per pole**	1	4,000
27	Concrete Pole erection - 14m & 15M long poles per pole	1	4,000
28	**Concrete Pole recovery - 11m & 12M long poles** – *The pole should be recovered for re-use*	1	4,000
29	**Concrete Pole recovery - 14m & 15M long poles** - *The pole should be recovered for re-use*	1	4,500
30	**Stay hole digging per ft** - *This rate is for digging a 2ftX2f wide by appropriate depth of the stay hole based on the size of the pole and conductor*	1	250
31	**Normal Stay making and installation** - *This rate captures the cost of stay making and installation including in anticlimbing barbed wire*	1	1,271
32	**Flying stay making & installation (excluding the cost of erection of the flying stay pole)**	1	2,541
33	**Strut making & erection (wooden poles only)** - *This rate includes the cost of preparing the strut for installation*	1	500
34	**Bush clearing per km (for new lines) including suitable disposal of cuttings as approved by local authority** - *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 approved local authority yard*	1	7,310
35	**Bush clearing per km including all other logistics and disposal of cuttings to disposal areas approved by local authority (for existing lines requiring trace maintenance)** - *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 approved local authority yard*	1	9,502
36	**Pruning of a mature tree with over hanging branches** - *This applies to pruning trees whose diameter is greater 12 inches. It also includes the cost of disposing the cuttings to the nearest approved local authority yard*	1	2,000
37	**Cutting down a mature tree** - *This applies to cutting/felling trees whose diameter is greater 12 inches. It also includes the cost of disposing the cuttings to the nearest approved local authority yard*	1	3,000
38	**Single conductor stringing per km (75sqmm)** - *This rate captures the cost of running, installing and tensioning a single conductor per km.*	1	6,643
39	**Single conductor stringing per km (150 sqmm)** - *This rate captures the cost of running, installing and tensioning a single conductor per km.*	1	9,965
40	**Single conductor stringing per km (300sqmm)** - *This rate captures the cost of running, installing and tensioning a single conductor per km.*	1	12,456

41	**11kV ABC installation per bundle per km (3X70mm2 s/c cables)** - *This rate captures the cost of running, installing and tensioning a three-phase bundle*	1	21,000
42	**MV cable laying (11kV) per metre**	1	300
43	**MV cable laying (33kV) per metre**	1	300
44	**MV cable termination and jointing (11kV & 33kV per phase** - *This rate includes the cost of lugging and connecting/bolting to the over-head line.*	1	1,500
45	**Aerial earth installation per km**	1	6,643
46	**Installation of OPGW communication cable per km**		7,000
47	**Jointing and termination of OPGW/ADSS (splicing) per joint** - *This rate applies to jointing of a OPGW single/multicore core (multicore) - up to 50 cores*	1	2,500
48	**Installation of ADSS communication cable per km**	1	7,000
49	**A/B switch installation** – *This rate involves installation of a complete set*	1	5,490
50	**Auto Reclosure installation (rate is for only the auto-reclosing unit)** - *This is the rate for installing the full auto reclosing assembly including the bypass switch.*	1	2,428
51	**Taplin isolators/fuse installation/Surge diverters (one set)** - *This is the rate for installing one piece of the isolators/fuse/Surge diverters. It can also be used during maintenance*	1	1,000
	SUBSTATION/TX. WORKS		
52	**Dressing** - *This is the rate for the installation of a substation structure. This includes the cost of installing isolators and surge diverters*	1	3,660
52	**Mounting** - *This is the rate for lifting and securing the transformer on its platform*	1	3,563
54	**Substation Earthing (MV earth, Surge Diverter earth & LV earth)** - *This rate captures the cost of substation earthing that achieves the minimum earth values as required by KPLC construction standards*	1	2,994
55	**Substation Welding (At the base on platform & all necessary spot welding) to Project engineer's approval (for new transformers)** - *This rate includes transport of the welding machine to site and the cost of welding rods.*	1	3,000
56	**Commissioning** - *This rate shall cater for all labour cost during commissioning*	1	1,000
57	**Installation of 630kVA Ground Mounted transformer** – *This rate includes the cost for earthing and isolation*	1	2,000
58	**Installation of 1MVA Ground Mounted transformer** - *This rate includes the cost for earthing and isolation*	1	17,500
59	**Installation of LV circuits per circuit** - *This rate involves installation of the fuse bar, fuse carriers and LV lead wires per circuit including connection to the LV line*	1	1,500

	SERVICE LINES & U/G cables		
60	**<u>Cables Crossing Roads</u>: Where cable crosses a road, a heavy gauge PVC duct (150mm diameter) with concrete surround shall be used at a depth of 3 ft by 2ft wide. All cables shall be overlaid with danger/hatari tiles (cost per crossing)**	1	1,500
61	**Trenching, laying of underground cables in 3ft deep by 2ft wide trenches, overlaying with danger/Hatari tiles and backfilling (per metre where no road crossing is involved).**	1	500
62	**Overhead (16mm2 s/c al.) Single phase per Service Line**	1	500
63	**Three Phase (25mm2 4/c) per S/Line**	1	1,000
64	**Three Phase- (above 4/C 25mm^2 but less than 4/C 300mm^2) per S/line (Cable laying per metre)** - *Rate for laying LV service cable with cross sectional area 300mm2>Area>25mm2, per meter including covering the trench*	1	100
65	Three phase -300mm^2 4/c per s/line (rate per metre)	1	150
66	Installation of LV distribution panel 1600A-bulky per piece	1	2,500
67	Installation of service turret 12/18 way, 600A per piece	1	2,000
68	Installation of ring main unit per piece	1	12,000
	LINE COMMISSIONING		
69	Line ≥4 km	1	15,000
70	Line < 4 km	1	5,000
	TRANSPORT COSTS	**QUANTITY**	**CURRENT RATES (Ksh)**
71	Fixed wooden Pole transport per lorry load (lorry load = up to 30no. Poles) for jobs whose distance from issuing store does not exceed 20km.	1	6,600
72	Wooden Pole transport per lorry load (lorry load = upto 30no. Poles) for jobs whose distance from issuing store is more than 20 KM, rate per km	1	330
73	Concrete Pole Transport (for jobs not exceeding 20km from issuing stores). Upto 9no. poles	1	6,600
74	Concrete Pole Transport per lorry load (lorry load = up to 9 concrete poles) per km (for jobs which are more than 20km from issuing stores).	1	330
75	**Fixed materials transport cost per lorry load (lorry load = 2.3km of line materials excluding Transformers) for jobs whose distance from issuing store does not** exceed 20km.	1	5,240
76	**Materials transport cost per lorry load (lorry load = 2.3km of line materials excluding Transformers) for jobs whose distance from issuing store is more than 20 KM.**	1	262
77	**Fixed materials/accessories transport cost <u>excluding Conductors and Transformers</u> (for small maintenance jobs requiring no conductors)**	1	2,640
78	**Transformers transport cost per lorry load per km (lorry load = up to 8 transformers)** - *Transformers shall be transported independent of other line materials (alone)*	1	330

Table 2

MAINTENANCE, BREAKDOWN/EMERGENCY WORKS

No.	LOW VOLTAGE DESCRIPTION OF WORKS	QUANTITY	CURRENT RATES (KSH)
1	Pole hole digging per ft.	1	250
2	Wooden Pole erection	1	801
3	Pole dressing including pole caps (1 wire) for both concrete poles and wooden poles	1	800
4	Concrete Pole erection	1	4,000
5	Pole recovery (wooden)	1	330
6	Pole recovery (concrete)	1	4,000
7	Stay hole digging per ft (soft soil including marram)	1	250
8	LV Stay making and installation	1	870
9	Flying stay making & installation (excluding installation of the flying stay pole)	1	1,740
10	Strut making & erection (wooden poles only)	1	500
11	Bush clearing/tree cutting per km as per KPLC standards. For both new lines and existing lines	1	5,880
12	Single conductor stringing per km (Bare/PVC 50sqmm & 100sqmm)	1	3,698
13	LV ABC stringing (both 4 wire & 2-wire) per km	1	6,000
14	LV ABC Termination and jointing per phase	1	400
15	ABC recovery per km	1	1,849
16	PME installation	1	549
No	**11KV & 33KV WORK DESCRIPTION**	**QUANTITY**	**CURRENT RATES (Ksh)**
	NB. All works shall be done in strict compliance with KPLC construction standards		
17	**Pole hole digging per foot.** - *This rate applies to non-rocky holes. The minimum cost per hole shall be Ksh. 2,100 for 6ft hole and a max. of Ksh. 2,800 for 8ft hole*	1	250
18	**Pole Hole reinforcement for marshy and rocky soil conditions per foot of reinforcement. i.e. (3ftX3ftX1ft deep)** -*This rate involves digging 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)* -	1	1,000
19	**Pole hole digging per foot (rocky ground)** - *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 r rocky part of the hole only, the normal hole digging rate shall apply where the soil is soft*	1	850
20	**Pole dressing including pole caps, danger plate, barbed wire and pole no. plates (1 wire)** - *This rate applies to*	1	320

	both wooden and concrete poles for both new works and maintenance works		
21	**Pole erection - 11m & 12M long poles (wooden)** - *This rate applies to both stout and medium size poles*	1	961
22	**Pole erection - 14m & 15M long poles (wooden)** - *This rate applies to both stout and medium size poles*	1	1,310
23	**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*	1	2000
24	**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*	1	7,000
25	**Concrete Pole erection - 11m & 12M long poles per pole**	1	4,000
26	Concrete Pole erection - 14m & 15M long poles per pole	1	4,000
27	**Concrete 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*		3,000
28	**Concrete 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*		9,600
29	**Concrete Pole recovery - 11m & 12M long poles** – *The pole should be recovered for re-use*	1	4,000
30	**Concrete Pole recovery - 14m & 15M long poles** - *The pole should be recovered for re-use*	1	4,500
31	**Wooden Pole recovery - 11m & 12M long poles** - *This rate captures the cost of cutting/pulling out the wooden pole including covering the hole and chopping the pole as directed by the project supervisor.*	1	330
32	**Wooden Pole recovery - 14m & 15M long poles** - *This rate captures the cost of cutting/pulling out the wooden pole including covering the hole and chopping the pole as directed by the project supervisor.*	1	500
33	**Stay hole digging per ft** - *This rate is for digging a 2ftX2f wide by appropriate depth of the stay hole based on the size of the pole and conductor*	1	250
34	**Normal Stay making and installation** - *This rate captures the cost of stay making and installation including in anticlimbing barbed wire*	1	1,271
35	**Flying stay making & installation (excluding the cost of erection of the flying stay pole)**	1	2,541
36	**Strut making & erection (wooden poles only)** - *This rate includes the cost of preparing the strut for installation*	1	500
37	**Bush clearing per km (for new lines) including suitable disposal of cuttings as approved by local authority** - *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 approved local authority yard*	1	7,310
38	**Bush clearing per km including all other logistics and disposal of cuttings to disposal areas approved by local authority (for existing lines requiring trace maintenance)** - *This applies to cutting/clearing shrubs and trees whose diameter is less or equal to 12 inches. It*	1	9.502

	also includes the cost of disposing the cuttings to the nearest approved local authority yard		
39	**Pruning of a mature tree with over hanging branches -** *This applies to pruning trees whose diameter is greater 12 inches. It also includes the cost of disposing the cuttings to the nearest approved local authority yard*	1	2,000
40	**Cutting down a mature tree -** *This applies to cutting/felling trees whose diameter is greater 12 inches. It also includes the cost of disposing the cuttings to the nearest approved local authority yard*	1	3,000
41	**Single conductor stringing per km (75sqmm) -** *This rate captures the cost of running, installing and tensioning a single conductor per km.*	1	6,643
42	**Transfer of single 75mm2 conductor during maintenance per km -** *This rate captures the cost of removing, running-installing and re-tensioning a single conductor per km.*	1	9,965
43	**Single conductor stringing per km (150 sqmm) -** *This rate captures the cost of running, installing and tensioning a single conductor per km.*	1	9,965
44	**Transfer of single 150mm2 conductor during maintenance per km -** *This rate captures the cost of removing, running, re-installing and re-tensioning a single conductor per km.*	1	9,965
45	**Single conductor stringing per km (300sqmm) -** *This rate captures the cost of running, installing and tensioning a single conductor per km.*	1	9,965
46	**Transfer of single 300mm2 conductor during maintenance per km -** *This rate captures the cost of removing, running, re-installing and re-tensioning a single conductor per km.*	1	9,965
47	**11kV ABC installation per bundle per km (3X70mm2 s/c cables) -** *This rate captures the cost of running, installing and tensioning a three-phase bundle*	1	21,000
48	**11kV ABC recovery per bundle cable per km (3X70mm2 s/c cables) -** *This rate captures the cost of recovering the ABC bundle including the anchoring fittings.*	1	9,965
49	**MV cable laying (11kV) per metre**	1	300
50	**MV cable laying (33kV) per metre**	1	300
51	**MV cable termination and jointing (11kV & 33kV per phase -** *This rate includes the cost of lugging and bolting to the over-head line.*	1	1,500
52	**Single conductor recovery per km (75mm2, 150mm2 & 300mm2) -** *This rate includes recovery of dressing materials*	1	3,322
53	**Aerial earth installation per km**	1	6,643
54	**Installation of OPGW communication cable per km**		7,000
55	**Jointing and termination of OPGW/ADSS (splicing) per joint -** *This rate applies to jointing of a OPGW fibre cable per core*	1	2,500
56	**Installation of ADSS communication cable per km**	1	7,000

57	**Recovery of ADSS communication cable per km including recovery of dressing materials** - *This rate includes costs of transportation of recovered material to the nearest KPLC store*	1	5,000
58	**Aerial earth recovery per km – This rate includes recovery of dressing materials**	1	3,322
59	**A/B switch installation** – *This rate involves installation of a complete set*	1	5,490
60	**A/B switch recovery** – *This rate captures the cost of recovering the whole switch assembly including the steady bars*	1	5,490
61	**Auto Reclosure installation (rate is for only the auto-reclosing unit)** - *This is the rate for installing the full auto reclosing assembly including the bypass switch.*	1	2,428
62	**Auto Reclosure recovery** - *This is the rate for recovering the full auto reclosing assembly including the bypass switch.*	1	2,428
63	**Taplin isolators/fuse installation/Surge diverters (one set)** - *This is the rate for installing one piece of the isolators/fuse/Surge diverters. It can also be used during maintenance*	1	1,000
64	**Taplin isolators/fuse/Surge diverters recovery (one set)** - *This is the rate for recovering one piece of isolators/fuse/Surge diverters. It can also be used during maintenance*	1	1,000
	SUBSTATION		
65	**Dressing** - *This is the rate for the installation of a substation structure. This includes the cost of installing isolators and surge diverters*	1	3,660
66	**Mounting** - *This is the rate for lifting and securing the transformer on its platform*	1	3,563
67	**Substation Earthing (MV earth, Surge Diverter earth & LV earth)** - *This rate captures the cost of substation earthing that achieves the minimum earth values as required by KPLC construction standards*	1	2,994
68	**Substation Welding (At the base on platform & all necessary spot welding) to Project engineer's approval (for new transformers)** - *This rate includes transport of the welding machine to site and the cost of welding rods.*	1	3,000
69	**Unwelding Transformers (existing transformers)** - *This rate includes transport of the welding machine to site*	1	3,000
70	**Commissioning** - *This rate shall cater for all labour cost during* commissioning	1	1,000
71	**Dismantling the transformer structure from an old structure** - *This is the cost of bringing down a substation structure during maintenance*	1	2,000
72	**Recovering TX, Autoreclosers, ABS etc to stores** – *This rate is for dismantling the structure including all the associated accessories*	1	6,357
73	**Installation of 630kVA Ground Mounted transformer** – *This rate includes the cost for earthing and isolation*	1	15,000
74	**Installation of 1MVA Ground Mounted transformer** - *This rate includes the cost for earthing and isolation*	1	17,500

75	**Installation of LV circuits per circuit** - *This rate involves installation of the fuse bar, fuse carriers and LV lead wires per circuit including connection to the LV line*	1	1,500
76	**Recovery of LV circuits per circuit** - *This rate captures the cost of recovering the fuse bar, fuse carriers and LV lead wires per circuit including connection to the LV line*	1	1,000
	SERVICE LINES & U/G cables		
78	**Cables Crossing Roads: Where cable crosses a road, a heavy gauge PVC duct (150mm diameter) with concrete surround shall be used at a depth of 3 ft by 2ft wide. All cables shall be overlaid with danger/hatari tiles (cost per crossing)**	1	1,500
79	**Trenching, laying of underground cables in 3ft deep by 2ft wide trenches, overlaying with danger/Hatari tiles and backfilling (per metre where no road crossing is involved).**	1	500
80	Installation of LV distribution panel 1600A-bulky per piece	1	2,500
	Installation of service turret 12/18 way, 600A per piece	1	2,000
81	Installation of ring main unit per piece	1	12,000
82	**LINE COMMISSIONING**		
83	Line ≥4 km	1	15,000
84	Line < 4 km	1	5,000
	Breakdown Works (O&M)		
85	**Mobilization of an L&T 7-member team for attendance to a break down**	1	1,100
86	**Return Mileage for attendance to a breakdown (where no pole transport is involved)**	1	37
	TRANSPORT COSTS	**QUANTITY**	**CURRENT RATES (Ksh)**
87	Fixed wooden Pole transport per lorry load (lorry load = up to 30no. Poles) for jobs whose distance from issuing store does not exceed 20km.	1	6,600
88	Wooden Pole transport per lorry load (lorry load = upto 30no. Poles) for jobs whose distance from issuing store is more than 20 KM, rate per km	1	330
89	Concrete Pole Transport (for jobs not exceeding 20km from issuing stores). Upto 9no. poles	1	6.600
90	Concrete Pole Transport per lorry load (lorry load = up to 9 concrete poles) per km (for jobs which are more than 20km from issuing stores).	1	330
91	**Fixed materials transport cost per lorry load (lorry load = 2.3km of line materials excluding Transformers) for jobs whose distance from issuing store does not** exceed 20km.	1	5,240
92	**Materials transport cost per lorry load (lorry load = 2.3km of line materials excluding Transformers) for jobs whose distance from issuing store is more than 20 KM.**	1	262
93	**Fixed materials/accessories transport cost excluding Conductors and Transformers (for small maintenance jobs requiring no conductors)**	1	2,640

94	**Transport of recovered Concrete Poles and associated recovered materials (for jobs not exceeding 20km to the issuing store). Up to 9no. poles**	1	6,600
95	**Transport of recovered/unused Concrete Poles and associated recovered materials per lorry load (lorry load = up to 9 concrete poles) per km (for jobs which are more than 20km from issuing stores). -** ***Concrete poles shall be recovered for re-use***	1	330
96	**Transport of recovered/unused wooden poles (up to 30 poles per trip) and associated recovered materials to the nearest KPLC facility as per Project Engineer's approval, transport per km -** *Recovered wooden poles shall be chopped as directed by the project supervisor to deter use of recovered poles on illegal lines*	1	330
97	**Transformers transport cost per lorry load per km (lorry load = up to 8 transformers) -** *Transformers shall be transported independent of other line materials (alone)*	1	330
98	**Transport of recovered transformers per lorry load per km (lorry load = up to 8 transformers) -** *Recovered transformers should be transported safely to the nearest KPLC store or as directed by KPLC project supervisor*		330

66kV WORKS

TABLE 3 – 66kV NEW CONNECTIONS WORKS

No.	66KV LINES WORK DESCRIPTION	QUANTITY	CURRENT RATES (KSHS)
1	Pole hole digging per ft.	1	250
2	**Pole Hole reinforcement for marshy and rocky soil conditions per foot of reinforcement. i.e. (3ftX3ftX1ft deep) -** *This rate involves digging 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)*	1	1,000
3	**Pole hole digging per foot (rocky ground) -** *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 r rocky part of the hole only, the normal hole digging rate shall apply where the soil is soft*	1	850
4	**Pole erection - 15m -18m long poles (wooden)**	1	4,000
5	**Pole dressing including pole caps, danger plate, barbed wire and pole no. plates (1 wire)**	1	3,000
6	**Concrete Pole erection**	1	4,000
7	**Stay hole digging per ft**	1	250
8	**Normal Stay making and installation**	1	2,000
9	**Flying stay making & installation (excluding the cost of erection of the flying stay pole)**	1	3,500
10	**Strut making & erection (wooden poles only)**	1	2,000

11	**Bush clearing per km (for new lines) including suitable disposal of cuttings as approved by local authority.**	1	12,000
12	**Pruning of a mature tree with over hanging branches** - *cost per tree pruned including disposing the cutting to a designated location*	1	2,000
13	**Cutting down a mature tree** - *cost per tree cut including disposing the cutting to a designated location*	1	3,000
14	**Single conductor stringing per km (150 sqmm)**	1	9,965
15	**Single conductor stringing per km (300sqmm)**	1	9,965
16	**Trenching, laying of underground 66kV single core cables in 6ft deep by 2ft wide trenches, overlaying with danger/Hatari tiles and backfiling (per metre where no road crossing is involved).**	1	300
17	**66kV single core cable termination and jointing**	1	3,000
18	**Aerial earth installation per km**	1	6,643
19	**A/B switch installation**	1	10,980
20	**A/B switch recovery**	1	5,490
21	**Installation of Surge diverters (complete set)**	1	5,000
	TRANSPORT COSTS		
22	**Fixed wooden Pole transport per lorry load (lorry load = up to 25no. Poles) for jobs whose distance from issuing store does not exceed 20km.**	1	6,600
23	**Wooden Pole transport per lorry load (lorry load = upto 25no. Poles) for jobs whose distance from issuing store is more than 20 KM, rate per km**	1	330
24	**Concrete Pole Transport (for jobs not exceeding 20km from issuing stores). Up to 8No. 66kV concrete poles**	1	6,600
25	**Concrete Pole Transport per km per trip for up to 8 concrete poles (15m concrete pole is approx. 1.3 tons) for jobs which are more than 20km from issuing stores.**	1	330
26	**Fixed materials transport cost per lorry load (lorry load = 1.1km of line materials for jobs whose distance from issuing store does not exceed 20km.**	1	5,240
27	**Materials transport cost per lorry load (lorry load = 1.1km of line materials for jobs whose distance from issuing store is more than 20 KM.**	1	330
28	**Transport of unused wooden poles/materials to the nearest KPLC facility as per Project Engineer's approval, transport per km per lorry load = up to 25 recovered poles and associated accessories.** - *Evidence of return to stores should be attached to the invoice.*	1	330
29	**Transport of unused Concrete Poles and associated recovered materials (for jobs not exceeding 20km to the issuing store). Up to 8no. poles** - *Concrete poles shall be recovered for re-use.*	1	6,600

30	**Transport of unused Concrete Poles and associated recovered materials per lorry load (lorry load = up to 8 concrete poles) per km (for jobs which are more than 20km from issuing stores). -** *Concrete poles shall be recovered for re-use.*	1	330

TABLE 4 – 66kV MAINTENANCE, BREAKDOWN/EMERGENCY WORKS

No.	66KV LINES WORK DESCRIPTION	QUANTITY	CURRENT RATES (KSHS)
1	Pole hole digging per ft.	1	250
2	**Pole Hole reinforcement for marshy and rocky soil conditions per foot of reinforcement. i.e. (3ftX3ftX1ft deep) -** *This rate involves digging 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)*	1	1,000
3	**Pole hole digging per foot (rocky ground) -** *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 r rocky part of the hole only, the normal hole digging rate shall apply where the soil is soft*	1	850
4	**Pole erection - 14m -18m long poles (wooden)**	1	4,000
5	**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*	1	2,000
6	**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	1	7,000
7	**Pole dressing including pole caps, danger plate, barbed wire and pole no. plates (1 wire)**	1	3,000
8	**Concrete Pole erection**	1	4,000
9	**Concrete 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*		3,000
10	**Concrete 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		10,000
11	**Concrete Pole recovery including all the associated fittings**	1	4,500

12	**Wooden Pole recovery - 15m - 18m long poles**	1	1,000
13	**Stay hole digging per ft**	1	250
14	**Normal Stay making and installation**	1	2,000
15	**Flying stay making & installation (excluding the cost of erection of the flying stay pole)**	1	3,5000
16	**Strut making & erection (wooden poles only)**	1	2,000
17	**Bush clearing per km (for new lines) including suitable disposal of cuttings as approved by local authority.**	1	12,000
18	**Bush clearing per km including all other logistics and disposal of cuttings to disposal areas approved by local authority (for existing lines requiring trace maintenance)**	1	19,000
19	**Pruning of a mature tree with over hanging branches** - *cost per tree pruned including disposing the cutting to a designated location*	1	2,000
20	**Cutting down a mature tree** - *cost per tree cut including disposing the cutting to a designated location*	1	3,000
21	**Single conductor stringing per km (150 sqmm)**	1	9,965
22	**Transfer of single 150mm2 conductor during maintenance per km**	1	9,965
23	**Single conductor stringing per km (300sqmm)**	1	9,965
24	**Transfer of single 300mm2 conductor during maintenance per km**	1	9,965
25	**Trenching, laying of underground 66kV single core cables in 6ft deep by 2ft wide trenches, overlaying with danger/Hatari tiles and backfiling (per metre where no road crossing is involved).**	1	300
26	**66kV single core cable termination and jointing**	1	3,000
27	**Single conductor recovery per km (150mm2 & 300mm2)**	1	3,322
28	**Aerial earth installation per km**	1	6,643
29	**Aerial earth recovery per km**	1	3,322
30	**A/B switch installation**	1	10,980
31	**A/B switch recovery**	1	5,490
32	**Surge diverters Installation (complete set)**	1	5,000
33	**Surge diverters recovery (complete set)**	1	2,500
	TRANSPORT COSTS		
34	**Fixed wooden Pole transport per lorry load (lorry load = up to 25no. Poles) for jobs whose distance from issuing store does not exceed 20km.**	1	6,600
35	**Wooden Pole transport per lorry load (lorry load = upto 25no. Poles) for jobs whose distance from issuing store is more than 20 KM, rate per km**	1	330
36	**Concrete Pole Transport (for jobs not exceeding 20km from issuing stores). Up to 8No. 66kV concrete poles**	1	6,600

37	**Concrete Pole Transport per km per trip for up to 8 concrete poles (15m concrete pole is approx. 1.3 tons) for jobs which are more than 20km from issuing stores.**	1	330
38	**Fixed materials transport cost per lorry load (lorry load = 1.1km of line materials for jobs whose distance from issuing store does not exceed 20km.**	1	5,240
39	**Materials transport cost per lorry load (lorry load = 1.1km of line materials for jobs whose distance from issuing store is more than 20 KM.**	1	330
40	**Fixed materials/accessories transport cost excluding Conductors (for small maintenance jobs requiring no conductors)-** *Small jobs have higher unit cost; use rate for other materials up to 20KM. If too far, use KPLC common services teams*	1	2,640
41	**Transport of recovered wooden poles/materials to the nearest KPLC facility as per Project Engineer's approval, transport per km per lorry load = up to 25 recovered poles and associated accessories. -** *Evidence of return to stores should be attached to the invoice for recovered poles and associated accessories.*	1	330
42	**Transport of recovered Concrete Poles and associated recovered materials (for jobs not exceeding 20km to the issuing store). Up to 8no. poles -** *Concrete poles shall be recovered for re-use.*	1	6,600
43	**Transport of recovered Concrete Poles and associated recovered materials per lorry load (lorry load = up to 8 concrete poles) per km (for jobs which are more than 20km from issuing stores). -** *Concrete poles shall be recovered for re-use.*	1	330

*** NOTE:** These Engineer's rates are **16% VAT** exclusive. They remain constant during the contract period.