

T2.1 List of Returnable Documents

The tenderer must complete the following Returnable Documents in non-erasable black ink:

- 1. C1.1 The offer portion of the C1.1 Form of Offer and Acceptance
- 2. C1.2 Contract Data (Part 2)
- 3. C2.2 Schedules of Rates
- 4. Returnable Schedules that will be incorporated into the Contract

	Pages
1: COMPULSORY ENTERPRISE QUESTIONNAIRE	167
2: CERTIFICATE OF INDEPENDENT TENDER DETERMINATION	169
3: CERTIFICATE OF AUTHORITY FOR JOINT VENTURES	171
4: DECLARATION OF TENDERER’S PAST SUPPLY CHAIN MANAGEMENT PRACTICES (MBD 8)	172
5: DECLARATION OF INTEREST – STATE EMPLOYEES (MBD 4 amended)	174
6: <u>AUTHORISATION FOR THE DEDUCTION OF OUTSTANDING AMOUNTS OWED TO CCT</u>	177
7: DECLARATION IN RESPECT OF <u>COMPLIANCE WITH LABOUR LEGISLATION</u>	178
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10: SCHEDULE OF EQUIPMENT INSTALLATIONS AND SERVICE HISTORY	182
11: CONFIRMATION OF CONTRACTOR REGISTRATION / <u>ACCREDITATION</u>	183
12: DETAILS OF QUALIFICATIONS AND EXPERIENCE OF STAFF	184
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14: DETAILS OF TENDERER’S WORKSHOP FACILITIES	186
15: SCHEDULE OF SUBCONTRACTORS	187
16: HEALTH AND SAFETY PLAN	188
17: PROPOSED DEVIATIONS AND QUALIFICATIONS BY TENDERER	189
18: FUNCTIONALITY CRITERIA	190
19: REGIONS OF PREFERENCE	191
20: DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS	192
21: PRICE BASIS FOR IMPORTED RESOURCES	193
22: RECORD OF ADDENDA TO TENDER DOCUMENTS	194
23: PREFERENCE SCHEDULE (where preferences are granted in respect of specific goal(s)).....	195
24: INFORMATION TO BE PROVIDED WITH THE TENDER	199
25: CONTRACT PRICE ADJUSTMENT	199A

5.Other documents required for tender evaluation purposes

- a) Joint Venture Agreement (if applicable) - append to Schedule 3.
- b) Health and Safety Plan - append to Schedule 16.
- c) Functionality Criteria - append to Schedule 18.

ITEM NO.	DESCRIPTION	UNIT	CONSTRUCTION PROCEDURE LABOUR SPECIFICATION ITEM NUMBER	FIRM PRICE PER UNIT EXCLUDING VAT FROM DATE OF COMMENCEMENT TO 30 JUNE 2026	FIRM PRICE PER UNIT EXCLUDING VAT FROM 01 JULY 2026 TO 30 JUNE 2027	FIRM PRICE PER UNIT EXCLUDING VAT FROM 01 JULY 2027 TO 30 JUNE 2028
3.2	Reinstate of asphalt footway surface	m ²	6			
3.3	Supply and install of brick paving	m ²	6			
3.4	Relay of brick paving	m ²	6			
3.5	Reinstate concrete road surface	m ²	6			
3.6	Reinstate concrete footway	m ²	6			
3.7	INSTALLATION OF PLINTHS (this item to be utilized ONLY if there is a requirement for a plinth for an already installed controller, titanic/ UPS box or connection pillar)					
3.7	Controller plinth	m ²	8.6			
3.8	Connection pillar plinth	m ²	8.6			
3.9	Titanic/ UPS Box plinth	m ²	8.6			
4	SUPPLY AND INSTALLATION OF DUCTS					
4.1	Supply and Installation of 110mm ducts by directional drilling (rate for single duct)	m	5			
4.2	Supply and installation of 110mm ducts by road crossing (rate for single duct)	m	5			
5	SUPPLY AND INSTALLATION OF KERB STONES					

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7.14	Straighten pole by rigging or undermining (includes repairs to any damaged caused to surrounding surface, touching up of any damaged caused to paint on pole and re-alignment of lanterns)	each	8.1			
7.15	Supply and install pole clamps on new poles	each	8.1			
7.16	Supply and install pole flat bar hangers/brackets on new poles	each	8.1			
8	SUPPLY AND INSTALLATION OF TRAFFIC SIGNS ON POLES					
8.1	Supply and install SS3 signs	each	11			
8.2	Supply and install W301 signs	each	11			
9	SUPPLY OF CABLES ONLY					
9.1	Supply 3 core copper cable 16mm ² (Mains)	m	n/a			
9.2	Supply 2 core copper cable 1.5mm ²	m	n/a			
9.3	Supply 19 core copper cable 1.5mm ²	m	n/a			
9.4	Supply 37 core copper cable 1.5mm ²	m	n/a			
9.5	Supply 8 twisted pair cable 1mm ²	m	n/a			
9.6	Supply bare copper bare copper earth wire 10mm ²	m	n/a			
9.7	Supply cable matting	m	n/a			
9.8	Supply CAT5	m	n/a			
9.9	Supply 3 core copper cable 16mm ² (Mains)	m	n/a			

9.4	SUPPLY OF PAINT AND PAINTING OF TRAFFIC SIGNAL POLES & SUPPLY AND INSTALLATION OF REFLECTIVE BANDS AND POLE NUMBERS					
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9.4.1	Supply and paint existing traffic signal 4m pole	each	10			
9.4.2	Supply and paint existing traffic signal 5m pole	each	10			
9.4.3	Supply and paint existing traffic signal 6m pole	each	10			
9.4.4	Supply and paint existing traffic signal cantilever pole complete	each	10			
9.4.5	Supply and paint new traffic signal 4m pole	each	10			
9.4.6	Supply and paint new traffic signal 5m pole	each	10			
9.4.7	Supply and paint new traffic signal 6m pole	each	10			
9.4.8	Supply and paint new traffic signal cantilever pole complete	each	10			
9.4.9	Supply and install reflective yellow bands on 4m, 5m or 6m pole (3 bands per pole)	per pole	10			
9.4.10	Supply and install reflective yellow bands on vertical section of cantilever pole (3 bands per pole)	per pole	10			
9.4.11	Supply and install pole number on pole	each	10			
10	SUPPLY AND APPLICATION OF ROAD MARKING AS PER SARTSM					
10.1	RETRO-REFLECTIVE ROADMARKING BY MACHINE SPRAY APPLICATION					

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10.4	(c) Red Lines (Broken or Unbroken)		11			
10.4.1	(1)100 mm wide	m	11			
10.4.2	(2)150 mm wide	m	11			
10.4.3	(3)200 mm wide	m	11			
10.4.4	(4)300 mm wide	m	11			
10.5	(d) White lettering and symbols	m ²	11			
10.6	(e) Yellow lettering and symbols	m ²	11			
10.7	(f) Transverse Lines and Traffic Island markings (any colour)	m ²	11			
10.8	(g) Removal of Existing, Temporary or Permanent Road Markings By:		11			
10.9	(h) Sandblasting	m ²	11			
10.10	(i)Overpainting as temporary measure	m ²	11			
10.11	(j)By peeling of non-permanent roadmarkings	m ²	11			
11	SUPPLY OF UNINTERRUPTED POWER SUPPLY (UPS) AND ASSOCIATED ITEMS ONLY					
11.1	Supply UPS cabinet only	each	n/a			
11.2	Supply UPS communications Cable For Traffic Signal Controller	each	n/a			

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11.3	Supply 48V 5KW Lithium battery	each	n/a			
11.4	Supply 48V 2000VA 25A Inverter including in-line fuse and holder, change over switch	each	n/a			

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2.2.1	Install Controller Chamber (supply of cherry picker included)	each	14			
2.2.2	Install UPS Chamber (supply of cherry picker included)	each	14			
2.2.3	Install 1000mm Stubby Chamber (supply of cherry picker included)	each	14			
2.2.5	Installation of Fibre link cables in to chambers	each	14			
2.3	INSTALLATION OF POLES AND POLE TOPS/ CAPS					
2.3.1	Install standard 4m pole with or without hatch	each	8.1			
2.3.2	Install standard 5m pole with hatch	each	8.1			
2.3.3	Install standard 6m pole with hatch	each	8.1			
2.3.4	Install removable 4m with or without hatch	each	8.1			
2.3.5	Install removable 5m or 6m pole with hatch		8.1			
2.3.6	Install 4m, 5m or 6m base plate pole	each	8.1			
2.3.7	Install 8m streetlight pole	each	8.1			
2.3.8	Install cantilever pole vertical section only (excluding bolt group), termination of cable is included ((supply of cherry picker included)	each	8.1			

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2.3.9	Install cantilever pole horizontal section only, termination of cable is included (supply of cherry picker included)	each	8.1			
2.3.10	Install complete cantilever pole , termination of cable is included (supply of cherry picker included)	each	8.1			
2.3.11	Install pole top complete with cradele and terminals to fit standard traffic signal pole_core termination included	each	8.1			
2.3.12	Install pedestrian information sticker	each	8.1			
2.3.13	Install pole number on pole	each	10			
2.4	INSTALLATION OF TRAFFIC SIGNAL LANTERN AND OTHER MOUNTABLE EQUIPMENT (includes connection to relevant cable core, lantern background screens)					
2.4.1	210MM TRAFFIC SIGNAL LANTERNS COMPLETE					
2.4.1.1	Install 1 aspect or 2 aspect 210mm lantern on 4m pole, 5m, 6m pole or on vertical section of cantilever pole	each	8.7			
2.4.1.2	Install 3 aspect 210mm lantern on 4m pole, 5m, 6m pole,	each	8.7			
2.4.1.2a	Install 3 aspect 210mm lantern horizontal part of cantilever pole (supply of cherry picker included)	each	8.7			
2.4.1.3	Install 4 aspect 210mm lantern on 4m pole, 5m, 6m pole, vertical part of cantilever pole	each	8.7			
2.4.1.4	Install 5 aspect 210mm lantern on 4m pole, 5m, 6m pole, vertical part of cantilever pole	each	8.7			
2.4.1.5	Install 5 aspect lantern 210 mm on horizontal section of cantilever pole (supply of cherry picker included)	each	8.7			

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2.4.1.6	Install 210 mm LED light	each	8.7			
2.4.1.7	Install 3 aspect 210mm Nylon Traffic signal lantern with Incorporated ST-Sign on 4m, 5m, 6m pole or vertical section of cantilever pole	each	8.7			
2.4.1.8	Install 3 210mm Nylon Traffic signal lantern with Incorporated ST-Sign on horizontal section of cantilever pole (supply of cherry picker included)	each	8.7			
2.4.2	300MM TRAFFIC SIGNAL LANTERNS COMPLETE					
2.4.2.1	Install 1 aspect or 2 aspect 300mm lantern on 4m pole, 5m, 6m pole or on vertical section of cantilever pole	each	8.7			
2.4.2.2	Install 3 aspect 300mm lantern on 4m pole, 5m, 6m pole,	each	8.7			
2.4.2.2a	Install 3 aspect 300mm lantern on horizontal part of cantilever pole (supply of cherry picker included)	each	8.7			
2.4.2.3	Install 4 aspect 300mm lantern on 4m pole, 5m, 6m pole, vertical part of cantilever pole	each	8.7			
2.4.2.4	Install 5 aspect 300mm lantern on 4m pole, 5m, 6m pole, vertical part of cantilever pole	each	8.7			
2.4.2.5	Install 5 aspect lantern 300mm on on hozintal section of cantilever pole (supply of cherry picker included)	each	8.7			
2.4.2.6	Install 300mm LED light	each	8.7			

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3.2.8	CABLES INTO BASE MOUNTED CONTROLLER (includes glanding of cable) (Includes termination, excavation and backfill)					
3.2.8.1	Install 1 - 4 core cable 10 - 16mm (Mains)	each	9			
3.2.8.2	Install 2 core copper cable 1.5mm2	each	9			
3.2.8.3	Install 19 core copper cable 1.5mm2	each	9			
3.2.8.4	Install 37 core copper cable 1.5mm2	each	9			
3.2.8.5	Install 8 pair copper cable 1mm2	each	9			
3.2.8.6	Install earth wire 10mm	each	9			
3.2.8.7	Install CAT5	each	9			
3.2.9	CABLES INTO POLE MOUNTED CONTROLLER (includes glanding of cable) (Includes termination, excavation and backfill)					
3.2.9.1	Install 1 - 4 core cable 10 - 16mm (Mains)	each	9			
3.2.9.2	Install 2 core copper cable 1.5mm2	each	9			
3.2.9.3	Install 19 core copper cable 1.5mm2	each	9			
3.2.9.4	Install 37 core copper cable 1.5mm2	each	9			
3.2.9.5	Install 8 pair copper cable 1mm2	each	9			
3.2.9.6	Install earth wire 10mm	each	9			
3.2.9.7	Install CAT5	each	9			

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3.2.10	CABLES INTO CONNECTION PILLAR (includes glanding of cable) (Includes termination, excavation and backfill)					
3.2.10.1	Install 1 - 4 core cable 10 - 16mm (Mains)	each	9			
3.2.10.2	Install 2 core copper cable 1.5mm ²	each	9			
3.2.10.3	Install 19 core copper cable 1.5mm ²	each	9			
3.2.10.4	Install 37 core copper cable 1.5mm ²	each	9			
3.2.10.5	Install 8 pair copper cable 1mm ²	each	9			
3.2.10.6	Install earth wire 10mm	each	9			
3.2.10.7	Install CAT5	each	9			
3.2.11	CABLES IN POLES (Includes termination, excavation and backfill)					
3.2.11.1	Install 2 core copper cable 1.5mm ²	each	9			
3.2.11.2	Install 19 core copper cable 1.5mm ²	each	9			
3.2.11.3	Install earth wire 10mm	each	9			
3.2.11.4	Install 7 core cable (From hatch in cantilever to lantern on horizontal section of cantilever pole)	each	9			
3.2.11.5	Install CAT5	each	9			

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3.3	STRAIGHT JOINTING CABLES Jointing cable with heatshrink or compound joint type as required, fitting ferrules (sweated or crimped as required), and filling joint box. Any excavation and re-instatement work to be measured separately.					
3.3.1	16mm ² x 3 core SWA (Mains)	each	9			
3.3.2	1.5mm ² x 19 core SWA	each	9			
3.3.3	1.5mm ² x 37 core SWA	each	9			
3.3.4	1.5mm ² x 2 core SWA	each	9			
3.3.5	Cable Thumping (inclusive of equipment plus operator) to detect cable fault	hour	9			
3.3.6	Install vandal resistant bosal pipes	each	9			
4	INSTALLATION OF DETECTION MATERIAL					
4.1	INSTALLATION OF LOOP DETECTION					
4.1.1	Cutting of vehicle actuated, Extension and Scoot Loops(includes supply of all materials)	m	12.1			
4.1.2	Refilling and Sealing of existing loops(includes supply of all materials)	m	12.1			
4.1.3	Testing of loops	each	12.1			

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3.2	Reinstate of asphalt footway surface	m ²	6			
3.3	Supply and install of brick paving	m ²	6			
3.4	Relay of brick paving	m ²	6			
3.5	Reinstate concrete road surface	m ²	6			
3.6	Reinstate concrete footway	m ²	6			
3.7	INSTALLATION OF PLINTHS (this item to be utilized ONLY if there is a requirement for a plinth for an already installed controller, titanic/ UPS box or connection pillar)					
3.7	Controller plinth	m ²	8.6			
3.8	Connection pillar plinth	m ²	8.6			
3.9	Titanic/ UPS Box plinth	m ²	8.6			
4	SUPPLY AND INSTALLATION OF DUCTS					
4.1	Supply and Installation of 110mm ducts by directional drilling (rate for single duct)	m	5			
4.2	Supply and installation of 110mm ducts by road crossing (rate for single duct)	m	5			
5	SUPPLY AND INSTALLATION OF KERB STONES					

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7.14	Straighten pole by rigging or undermining (includes repairs to any damaged caused to surrounding surface, touching up of any damaged caused to paint on pole and re-alignment of lanterns)	each	8.1			
7.15	Supply and install pole clamps on new poles	each	8.1			
7.16	Supply and install pole flat bar hangers/brackets on new poles	each	8.1			
8	SUPPLY AND INSTALLATION OF TRAFFIC SIGNS ON POLES					
8.1	Supply and install SS3 signs	each	11			
8.2	Supply and install W301 signs	each	11			
9	SUPPLY OF CABLES ONLY					
9.1	Supply 3 core copper cable 16mm2 (Mains)	m	n/a			
9.2	Supply 2 core copper cable 1.5mm ²	m	n/a			
9.3	Supply 19 core copper cable 1.5mm ²	m	n/a			
9.4	Supply 37 core copper cable 1.5mm ²	m	n/a			
9.5	Supply 8 twisted pair cable 1mm ²	m	n/a			
9.6	Supply bare copper bare copper earth wire 10mm ²	m	n/a			
9.7	Supply cable matting	m	n/a			
9.8	Supply CAT5	m	n/a			
9.9	Supply 3 core copper cable 16mm2 (Mains)	m	n/a			

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9.3	SUPPLY AND INSTALLATION OF EARTH SPIKE (this item to be utilized ONLY if there is a requirement for an additional earth spike)					
9.3.1	Supply, install and test 1.8m earth spike	each	8.4			

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9.4	SUPPLY OF PAINT AND PAINTING OF TRAFFIC SIGNAL POLES & SUPPLY AND INSTALLATION OF REFLECTIVE BANDS AND POLE NUMBERS					
9.4.1	Supply and paint existing traffic signal 4m pole	each	10			
9.4.2	Supply and paint existing traffic signal 5m pole	each	10			
9.4.3	Supply and paint existing traffic signal 6m pole	each	10			
9.4.4	Supply and paint existing traffic signal cantilever pole complete	each	10			
9.4.5	Supply and paint new traffic signal 4m pole	each	10			
9.4.6	Supply and paint new traffic signal 5m pole	each	10			
9.4.7	Supply and paint new traffic signal 6m pole	each	10			
9.4.8	Supply and paint new traffic signal cantilever pole complete	each	10			
9.4.9	Supply and install reflective yellow bands on 4m, 5m or 6m pole (3 bands per pole)	per pole	10			
9.4.10	Supply and install reflective yellow bands on vertical section of cantilever pole (3 bands per pole)	per pole	10			
9.4.11	Supply and install pole number on pole	each	10			
10	SUPPLY AND APPLICATION OF ROAD MARKING AS PER SARTSM					
10.1	RETRO-REFLECTIVE ROADMARKING BY MACHINE SPRAY APPLICATION					

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10.4.1	(1)100 mm wide	m	11			
10.4.2	(2)150 mm wide	m	11			
10.4.3	(3)200 mm wide	m	11			
10.4.4	(4)300 mm wide	m	11			
10.5	(d) White lettering and symbols	m ²	11			
10.6	(e) Yellow lettering and symbols	m ²	11			
10.7	(f) Transverse Lines and Traffic Island markings (any colour)	m ²	11			
10.8	(g) Removal of Existing, Temporary or Permanent Road Markings By:		11			
10.9	(h) Sandblasting	m ²	11			
10.10	(i)Overpainting as temporary measure	m ²	11			
10.11	(j)By peeling of non-permanent roadmarkings	m ²	11			
11	SUPPLY OF UNINTERRUPTED POWER SUPPLY (UPS) AND ASSOCIATED ITEMS ONLY					
11.1	Supply UPS cabinet only	each	n/a			
11.2	Supply UPS communications Cable For Traffic Signal Controller	each	n/a			
11.3	Supply 48V 5KW Lithium battery	each	n/a			
11.4	Supply 48V 2000VA 25A Inverter including in-line fuse and holder, change over switch	each	n/a			

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2.2.1	Install Controller Chamber (supply of cherry picker included)	each	14			
2.2.2	Install UPS Chamber (supply of cherry picker included)	each	14			
2.2.3	Install 1000mm Stubby Chamber (supply of cherry picker included)	each	14			
2.2.5	Installation of Fibre link cables in to chambers	each	14			
2.3	INSTALLATION OF POLES AND POLE TOPS/ CAPS					
2.3.1	Install standard 4m pole with or without hatch	each	8.1			
2.3.2	Install standard 5m pole with hatch	each	8.1			
2.3.3	Install standard 6m pole with hatch	each	8.1			
2.3.4	Install removable 4m with or without hatch	each	8.1			
2.3.5	Install removable 5m or 6m pole with hatch		8.1			
2.3.6	Install 4m, 5m or 6m base plate pole	each	8.1			
2.3.7	Install 8m streetlight pole	each	8.1			
2.3.8	Install cantilever pole vertical section only (excluding bolt group), termination of cable is included ((supply of cherry picker included)	each	8.1			

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2.3.9	Install cantilever pole horizontal section only, termination of cable is included (supply of cherry picker included)	each	8.1			
2.3.10	Install complete cantilever pole , termination of cable is included (supply of cherry picker included)	each	8.1			
2.3.11	Install pole top complete with cradele and terminals to fit standard traffic signal pole_core termination included	each	8.1			
2.3.12	Install pedestrian information sticker	each	8.1			
2.3.13	Install pole number on pole	each	10			
2.4	INSTALLATION OF TRAFFIC SIGNAL LANTERN AND OTHER MOUNTABLE EQUIPMENT (includes connection to relevant cable core, lantern background screens)					
2.4.1	210MM TRAFFIC SIGNAL LANTERNS COMPLETE					
2.4.1.1	Install 1 aspect or 2 aspect 210mm lantern on 4m pole, 5m, 6m pole or on vertical section of cantilever pole	each	8.7			
2.4.1.2	Install 3 aspect 210mm lantern on 4m pole, 5m, 6m pole,	each	8.7			
2.4.1.2a	Install 3 aspect 210mm lantern horizontal part of cantilever pole (supply of cherry picker included)	each	8.7			
2.4.1.3	Install 4 aspect 210mm lantern on 4m pole, 5m, 6m pole, vertical part of cantilever pole	each	8.7			
2.4.1.4	Install 5 aspect 210mm lantern on 4m pole, 5m, 6m pole, vertical part of cantilever pole	each	8.7			
2.4.1.5	Install 5 aspect lantern 210 mm on horizontal section of cantilever pole (supply of cherry picker included)	each	8.7			

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2.4.1.6	Install 210 mm LED light	each	8.7			
2.4.1.7	Install 3 aspect 210mm Nylon Traffic signal lantern with Incorporated ST-Sign on 4m, 5m, 6m pole or vertical section of cantilever pole	each	8.7			
2.4.1.8	Install 3 210mm Nylon Traffic signal lantern with Incorporated ST-Sign on horizontal section of cantilever pole (supply of cherry picker included)	each	8.7			
2.4.2	300MM TRAFFIC SIGNAL LANTERNS COMPLETE					
2.4.2.1	Install 1 aspect or 2 aspect 300mm lantern on 4m pole, 5m, 6m pole or on vertical section of cantilever pole	each	8.7			
2.4.2.2	Install 3 aspect 300mm lantern on 4m pole, 5m, 6m pole,	each	8.7			
2.4.2.2a	Install 3 aspect 300mm lantern on horizontal part of cantilever pole (supply of cherry picker included)	each	8.7			
2.4.2.3	Install 4 aspect 300mm lantern on 4m pole, 5m, 6m pole, vertical part of cantilever pole	each	8.7			
2.4.2.4	Install 5 aspect 300mm lantern on 4m pole, 5m, 6m pole, vertical part of cantilever pole	each	8.7			
2.4.2.5	Install 5 aspect lantern 300mm on on hozintal section of cantilever pole (supply of cherry picker included)	each	8.7			
2.4.2.6	Install 300mm LED light	each	8.7			

3.2.8	CABLES INTO BASE MOUNTED CONTROLLER (includes glanding of cable) (Includes termination, excavation and backfill)					
3.2.8.1	Install 1 - 4 core cable 10 - 16mm (Mains)	each	9			
3.2.8.2	Install 2 core copper cable 1.5mm2	each	9			
3.2.8.3	Install 19 core copper cable 1.5mm2	each	9			
3.2.8.4	Install 37 core copper cable 1.5mm2	each	9			
3.2.8.5	Install 8 pair copper cable 1mm2	each	9			
3.2.8.6	Install earth wire 10mm	each	9			
3.2.8.7	Install CAT5	each	9			
3.2.9	CABLES INTO POLE MOUNTED CONTROLLER (includes glanding of cable) (Includes termination, excavation and backfill)					
3.2.9.1	Install 1 - 4 core cable 10 - 16mm (Mains)	each	9			
3.2.9.2	Install 2 core copper cable 1.5mm2	each	9			
3.2.9.3	Install 19 core copper cable 1.5mm2	each	9			
3.2.9.4	Install 37 core copper cable 1.5mm2	each	9			
3.2.9.5	Install 8 pair copper cable 1mm2	each	9			
3.2.9.6	Install earth wire 10mm	each	9			
3.2.9.7	Install CAT5	each	9			

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3.2.10	CABLES INTO CONNECTION PILLAR (includes glanding of cable) (Includes termination, excavation and backfill)					
3.2.10.1	Install 1 - 4 core cable 10 - 16mm (Mains)	each	9			
3.2.10.2	Install 2 core copper cable 1.5mm2	each	9			
3.2.10.3	Install 19 core copper cable 1.5mm2	each	9			
3.2.10.4	Install 37 core copper cable 1.5mm2	each	9			
3.2.10.5	Install 8 pair copper cable 1mm2	each	9			
3.2.10.6	Install earth wire 10mm	each	9			
3.2.10.7	Install CAT5	each	9			
3.2.11	CABLES IN POLES (Includes termination, excavation and backfill)					
3.2.11.1	Install 2 core copper cable 1.5mm2	each	9			
3.2.11.2	Install 19 core copper cable 1.5mm2	each	9			
3.2.11.3	Install earth wire 10mm	each	9			
3.2.11.4	Install 7 core cabtyre (From hatch in cantilever to lantern on horizontal section of cantilever pole)	each	9			
3.2.11.5	Install CAT5	each	9			

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3.3	STRAIGHT JOINTING CABLES Jointing cable with heat shrink or compound joint type as required, fitting ferrules (sweated or crimped as required), and filling joint box. Any excavation and re-instatement work to be measured separately.					
3.3.1	16mm ² x 3 core SWA (Mains)	each	9			
3.3.2	1.5mm ² x 19 core SWA	each	9			
3.3.3	1.5mm ² x 37 core SWA	each	9			
3.3.4	1.5mm ² x 2 core SWA	each	9			
3.3.5	Cable Thumping (inclusive of equipment plus operator) to detect cable fault	hour	9			
3.3.6	Install vandal resistant bosal pipes	each	9			
4	INSTALLATION OF DETECTION MATERIAL					
4.1	INSTALLATION OF LOOP DETECTION					
4.1.1	Cutting of vehicle actuated, Extension and Scoot Loops(includes supply of all materials)	m	12.1			
4.1.2	Refilling and Sealing of existing loops(includes supply of all materials)	m	12.1			
4.1.3	Testing of loops	each	12.1			

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3.2	Reinstate of asphalt footway surface	m ²	6			
3.3	Supply and install of brick paving	m ²	6			
3.4	Relay of brick paving	m ²	6			
3.5	Reinstate concrete road surface	m ²	6			
3.6	Reinstate concrete footway	m ²	6			
3.7	INSTALLATION OF PLINTHS (this item to be utilized ONLY if there is a requirement for a plinth for an already installed controller, titanic/ UPS box or connection pillar)					
3.7	Controller plinth	m ²	8.6			
3.8	Connection pillar plinth	m ²	8.6			
3.9	Titanic/ UPS Box plinth	m ²	8.6			
4	SUPPLY AND INSTALLATION OF DUCTS					
4.1	Supply and Installation of 110mm ducts by directional drilling (rate for single duct)	m	5			
4.2	Supply and installation of 110mm ducts by road crossing (rate for single duct)	m	5			
5	SUPPLY AND INSTALLATION OF KERB STONES					

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7.14	Straighten pole by rigging or undermining (includes repairs to any damaged caused to surrounding surface, touching up of any damaged caused to paint on pole and re-alignment of lanterns)	each	8.1			
7.15	Supply and install pole clamps on new poles	each	8.1			
7.16	Supply and install pole flat bar hangers/brackets on new poles	each	8.1			
8	SUPPLY AND INSTALLATION OF TRAFFIC SIGNS ON POLES					
8.1	Supply and install SS3 signs	each	11			
8.2	Supply and install W301 signs	each	11			
9	SUPPLY OF CABLES ONLY					
9.1	Supply 3 core copper cable 16mm ² (Mains)	m	n/a			
9.2	Supply 2 core copper cable 1.5mm ²	m	n/a			
9.3	Supply 19 core copper cable 1.5mm ²	m	n/a			
9.4	Supply 37 core copper cable 1.5mm ²	m	n/a			
9.5	Supply 8 twisted pair cable 1mm ²	m	n/a			
9.6	Supply bare copper bare copper earth wire 10mm ²	m	n/a			
9.7	Supply cable matting	m	n/a			
9.8	Supply CAT5	m	n/a			

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9.3	SUPPLY AND INSTALLATION OF EARTH SPIKE (this item to be utilized ONLY if there is a requirement for an additional earth spike)					
9.3.1	Supply, install and test 1.8m earth spike	each	8.4			

9.4	SUPPLY OF PAINT AND PAINTING OF TRAFFIC SIGNAL POLES & SUPPLY AND INSTALLATION OF REFLECTIVE BANDS AND POLE NUMBERS					
ITEM NO.	DESCRIPTION	UNIT	CONSTRUCTION PROCEDURE LABOUR SPECIFICATION ITEM NUMBER	FIRM PRICE PER UNIT EXCLUDING VAT FROM DATE OF COMMENCEMENT TO 30 JUNE 2026	FIRM PRICE PER UNIT EXCLUDING VAT FROM 01 JULY 2026 TO 30 JUNE 2027	FIRM PRICE PER UNIT EXCLUDING VAT FROM 01 JULY 2027 TO 30 JUNE 2028
9.4.1	Supply and paint existing traffic signal 4m pole	each	10			
9.4.2	Supply and paint existing traffic signal 5m pole	each	10			
9.4.3	Supply and paint existing traffic signal 6m pole	each	10			
9.4.4	Supply and paint existing traffic signal cantilever pole complete	each	10			
9.4.5	Supply and paint new traffic signal 4m pole	each	10			
9.4.6	Supply and paint new traffic signal 5m pole	each	10			
9.4.7	Supply and paint new traffic signal 6m pole	each	10			
9.4.8	Supply and paint new traffic signal cantilever pole complete	each	10			
9.4.9	Supply and install reflective yellow bands on 4m, 5m or 6m pole (3 bands per pole)	per pole	10			
9.4.10	Supply and install reflective yellow bands on vertical section of cantilever pole (3 bands per pole)	per pole	10			
9.4.11	Supply and install pole number on pole	each	10			
10	SUPPLY AND APPLICATION OF ROAD MARKING AS PER SARTSM					
10.1	RETRO-REFLECTIVE ROADMARKING BY MACHINE SPRAY APPLICATION					

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10.4.1	(1)100 mm wide	m	11			
10.4.2	(2)150 mm wide	m	11			
10.4.3	(3)200 mm wide	m	11			
10.4.4	(4)300 mm wide	m	11			
10.5	(d) White lettering and symbols	m ²	11			
10.6	(e) Yellow lettering and symbols	m ²	11			
10.7	(f) Transverse Lines and Traffic Island markings (any colour)	m ²	11			
10.8	(g) Removal of Existing, Temporary or Permanent Road Markings By:		11			
10.9	(h) Sandblasting	m ²	11			
10.10	(i)Overpainting as temporary measure	m ²	11			
10.11	(j)By peeling of non-permanent roadmarkings	m ²	11			
11	SUPPLY OF UNINTERRUPTED POWER SUPPLY (UPS) AND ASSOCIATED ITEMS ONLY					
11.1	Supply UPS cabinet only	each	n/a			
11.2	Supply UPS communications Cable For Traffic Signal Controller	each	n/a			
11.3	Supply 48V 5KW Lithium battery	each	n/a			
11.4	Supply 48V 2000VA 25A Inverter including in-line fuse and holder, change over switch	each	n/a			

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2.2.1	Install Controller Chamber (supply of cherry picker included)	each	14			
2.2.2	Install UPS Chamber (supply of cherry picker included)	each	14			
2.2.3	Install 1000mm Stubby Chamber (supply of cherry picker included)	each	14			
2.2.5	Installation of Fibre link cables in to chambers	each	14			
2.3	INSTALLATION OF POLES AND POLE TOPS/ CAPS					
2.3.1	Install standard 4m pole with or without hatch	each	8.1			
2.3.2	Install standard 5m pole with hatch	each	8.1			
2.3.3	Install standard 6m pole with hatch	each	8.1			
2.3.4	Install removable 4m with or without hatch	each	8.1			
2.3.5	Install removable 5m or 6m pole with hatch		8.1			
2.3.6	Install 4m, 5m or 6m base plate pole	each	8.1			
2.3.7	Install 8m streetlight pole	each	8.1			
2.3.8	Install cantilever pole vertical section only (excluding bolt group), termination of cable is included ((supply of cherry picker included)	each	8.1			

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2.3.9	Install cantilever pole horizontal section only, termination of cable is included (supply of cherry picker included)	each	8.1			
2.3.10	Install complete cantilever pole , termination of cable is included (supply of cherry picker included)	each	8.1			
2.3.11	Install pole top complete with cradele and terminals to fit standard traffic signal pole_core termination included	each	8.1			
2.3.12	Install pedestrian information sticker	each	8.1			
2.3.13	Install pole number on pole	each	10			
2.4	INSTALLATION OF TRAFFIC SIGNAL LANTERN AND OTHER MOUNTABLE EQUIPMENT (includes connection to relevant cable core, lantern background screens)					
2.4.1	210MM TRAFFIC SIGNAL LANTERNS COMPLETE					
2.4.1.1	Install 1 aspect or 2 aspect 210mm lantern on 4m pole, 5m, 6m pole or on vertical section of cantilever pole	each	8.7			
2.4.1.2	Install 3 aspect 210mm lantern on 4m pole, 5m, 6m pole,	each	8.7			
2.4.1.2a	Install 3 aspect 210mm lantern horizontal part of cantilever pole (supply of cherry picker included)	each	8.7			
2.4.1.3	Install 4 aspect 210mm lantern on 4m pole, 5m, 6m pole, vertical part of cantilever pole	each	8.7			
2.4.1.4	Install 5 aspect 210mm lantern on 4m pole, 5m, 6m pole, vertical part of cantilever pole	each	8.7			
2.4.1.5	Install 5 aspect lantern 210 mm on horizontal section of cantilever pole (supply of cherry picker included)	each	8.7			

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2.4.1.6	Install 210 mm LED light	each	8.7			
2.4.1.7	Install 3 aspect 210mm Nylon Traffic signal lantern with Incorporated ST-Sign on 4m, 5m, 6m pole or vertical section of cantilever pole	each	8.7			
2.4.1.8	Install 3 210mm Nylon Traffic signal lantern with Incorporated ST-Sign on horizontal section of cantilever pole (supply of cherry picker included)	each	8.7			
2.4.2	300MM TRAFFIC SIGNAL LANTERNS COMPLETE					
2.4.2.1	Install 1 aspect or 2 aspect 300mm lantern on 4m pole, 5m, 6m pole or on vertical section of cantilever pole	each	8.7			
2.4.2.2	Install 3 aspect 300mm lantern on 4m pole, 5m, 6m pole,	each	8.7			
2.4.2.2a	Install 3 aspect 300mm lantern on horizontal part of cantilever pole (supply of cherry picker included)	each	8.7			
2.4.2.3	Install 4 aspect 300mm lantern on 4m pole, 5m, 6m pole, vertical part of cantilever pole	each	8.7			
2.4.2.4	Install 5 aspect 300mm lantern on 4m pole, 5m, 6m pole, vertical part of cantilever pole	each	8.7			
2.4.2.5	Install 5 aspect lantern 300mm on on hozintal section of cantilever pole (supply of cherry picker included)	each	8.7			
2.4.2.6	Install 300mm LED light	each	8.7			

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3.2.8	CABLES INTO BASE MOUNTED CONTROLLER (includes glanding of cable) (Includes termination, excavation and backfill)					
3.2.8.1	Install 1 - 4 core cable 10 - 16mm (Mains)	each	9			
3.2.8.2	Install 2 core copper cable 1.5mm2	each	9			
3.2.8.3	Install 19 core copper cable 1.5mm2	each	9			
3.2.8.4	Install 37 core copper cable 1.5mm2	each	9			
3.2.8.5	Install 8 pair copper cable 1mm2	each	9			
3.2.8.6	Install earth wire 10mm	each	9			
3.2.8.7	Install CAT5	each	9			
3.2.9	CABLES INTO POLE MOUNTED CONTROLLER (includes glanding of cable) (Includes termination, excavation and backfill)					
3.2.9.1	Install 1 - 4 core cable 10 - 16mm (Mains)	each	9			
3.2.9.2	Install 2 core copper cable 1.5mm2	each	9			
3.2.9.3	Install 19 core copper cable 1.5mm2	each	9			
3.2.9.4	Install 37 core copper cable 1.5mm2	each	9			
3.2.9.5	Install 8 pair copper cable 1mm2	each	9			
3.2.9.6	Install earth wire 10mm	each	9			
3.2.9.7	Install CAT5	each	9			

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3.2.10	CABLES INTO CONNECTION PILLAR (includes glanding of cable) (Includes termination, excavation and backfill)					
3.2.10.1	Install 1 - 4 core cable 10 - 16mm (Mains)	each	9			
3.2.10.2	Install 2 core copper cable 1.5mm2	each	9			
3.2.10.3	Install 19 core copper cable 1.5mm2	each	9			
3.2.10.4	Install 37 core copper cable 1.5mm2	each	9			
3.2.10.5	Install 8 pair copper cable 1mm2	each	9			
3.2.10.6	Install earth wire 10mm	each	9			
3.2.10.7	Install CAT5	each	9			
3.2.11	CABLES IN POLES (Includes termination, excavation and backfill)					
3.2.11.1	Install 2 core copper cable 1.5mm2	each	9			
3.2.11.2	Install 19 core copper cable 1.5mm2	each	9			
3.2.11.3	Install earth wire 10mm	each	9			
3.2.11.4	Install 7 core cable (From hatch in cantilever to lantern on horizontal section of cantilever pole)	each	9			
3.2.11.5	Install CAT5	each	9			

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3.3	STRAIGHT JOINTING CABLES Jointing cable with heat shrink or compound joint type as required, fitting ferrules (sweated or crimped as required), and filling joint box. Any excavation and re-instatement work to be measured separately.					
3.3.1	16mm ² x 3 core SWA (Mains)	each	9			
3.3.2	1.5mm ² x 19 core SWA	each	9			
3.3.3	1.5mm ² x 37 core SWA	each	9			
3.3.4	1.5mm ² x 2 core SWA	each	9			
3.3.5	Cable Thumping (inclusive of equipment plus operator) to detect cable fault	hour	9			
3.3.6	Install vandal resistant bosal pipes	each	9			
4	INSTALLATION OF DETECTION MATERIAL					
4.1	INSTALLATION OF LOOP DETECTION					
4.1.1	Cutting of vehicle actuated, Extension and Scoot Loops(includes supply of all materials)	m	12.1			
4.1.2	Refilling and Sealing of existing loops(includes supply of all materials)	m	12.1			
4.1.3	Testing of loops	each	12.1			

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3.2	Reinstate of asphalt footway surface	m ²	6			
3.3	Supply and install of brick paving	m ²	6			
3.4	Relay of brick paving	m ²	6			
3.5	Reinstate concrete road surface	m ²	6			
3.6	Reinstate concrete footway	m ²	6			
3.7	INSTALLATION OF PLINTHS (this item to be utilized ONLY if there is a requirement for a plinth for an already installed controller, titanic/ UPS box or connection pillar)					
3.7	Controller plinth	m ²	8.6			
3.8	Connection pillar plinth	m ²	8.6			
3.9	Titanic/ UPS Box plinth	m ²	8.6			
4	SUPPLY AND INSTALLATION OF DUCTS					
4.1	Supply and Installation of 110mm ducts by directional drilling (rate for single duct)	m	5			
4.2	Supply and installation of 110mm ducts by road crossing (rate for single duct)	m	5			

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7.14	Straighten pole by rigging or undermining (includes repairs to any damaged caused to surrounding surface, touching up of any damaged caused to paint on pole and re-alignment of lanterns)	each	8.1			
7.15	Supply and install pole clamps on new poles	each	8.1			
7.16	Supply and install pole flat bar hangers/brackets on new poles	each	8.1			
8	SUPPLY AND INSTALLATION OF TRAFFIC SIGNS ON POLES					
8.1	Supply and install SS3 signs	each	11			
8.2	Supply and install W301 signs	each	11			
9	SUPPLY OF CABLES ONLY					
9.1	Supply 3 core copper cable 16mm ² (Mains)	m	n/a			
9.2	Supply 2 core copper cable 1.5mm ²	m	n/a			
9.3	Supply 19 core copper cable 1.5mm ²	m	n/a			
9.4	Supply 37 core copper cable 1.5mm ²	m	n/a			
9.5	Supply 8 twisted pair cable 1mm ²	m	n/a			
9.6	Supply bare copper bare copper earth wire 10mm ²	m	n/a			
9.7	Supply cable matting	m	n/a			
9.8	Supply CAT5	m	n/a			

ITEM NO.	DESCRIPTION	UNIT	CONSTRUCTION PROCEDURE LABOUR SPECIFICATION ITEM NUMBER	FIRM PRICE PER UNIT EXCLUDING VAT FROM DATE OF COMMENCEMENT TO 30 JUNE 2026	FIRM PRICE PER UNIT EXCLUDING VAT FROM 01 JULY 2026 TO 30 JUNE 2027	FIRM PRICE PER UNIT EXCLUDING VAT FROM 01 JULY 2027 TO 30 JUNE 2028
9.3	SUPPLY AND INSTALLATION OF EARTH SPIKE (this item to be utilized ONLY if there is a requirement for an additional earth spike)					
9.3.1	Supply, install and test 1.8m earth spike	each	8.4			

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9.4	SUPPLY OF PAINT AND PAINTING OF TRAFFIC SIGNAL POLES & SUPPLY AND INSTALLATION OF REFLECTIVE BANDS AND POLE NUMBERS					
9.4.1	Supply and paint existing traffic signal 4m pole	each	10			
9.4.2	Supply and paint existing traffic signal 5m pole	each	10			
9.4.3	Supply and paint existing traffic signal 6m pole	each	10			
9.4.4	Supply and paint existing traffic signal cantilever pole complete	each	10			
9.4.5	Supply and paint new traffic signal 4m pole	each	10			
9.4.6	Supply and paint new traffic signal 5m pole	each	10			
9.4.7	Supply and paint new traffic signal 6m pole	each	10			
9.4.8	Supply and paint new traffic signal cantilever pole complete	each	10			
9.4.9	Supply and install reflective yellow bands on 4m, 5m or 6m pole (3 bands per pole)	per pole	10			
9.4.10	Supply and install reflective yellow bands on vertical section of cantilever pole (3 bands per pole)	per pole	10			
9.4.11	Supply and install pole number on pole	each	10			
10	SUPPLY AND APPLICATION OF ROAD MARKING AS PER SARTSM					
10.1	RETRO-REFLECTIVE ROADMARKING BY MACHINE SPRAY APPLICATION					

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10.4.1	(1)100 mm wide	m	11			
10.4.2	(2)150 mm wide	m	11			
10.4.3	(3)200 mm wide	m	11			
10.4.4	(4)300 mm wide	m	11			
10.5	(d) White lettering and symbols	m ²	11			
10.6	(e) Yellow lettering and symbols	m ²	11			
10.7	(f) Transverse Lines and Traffic Island markings (any colour)	m ²	11			
10.8	(g) Removal of Existing, Temporary or Permanent Road Markings By:		11			
10.9	(h) Sandblasting	m ²	11			
10.10	(i)Overpainting as temporary measure	m ²	11			
10.11	(j)By peeling of non-permanent roadmarkings	m ²	11			
11	SUPPLY OF UNINTERRUPTED POWER SUPPLY (UPS) AND ASSOCIATED ITEMS ONLY					
11.1	Supply UPS cabinet only	each	n/a			
11.2	Supply UPS communications Cable For Traffic Signal Controller	each	n/a			
11.3	Supply 48V 5KW Lithium battery	each	n/a			
11.4	Supply 48V 2000VA 25A Inverter including in-line fuse and holder, change over switch	each	n/a			

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2.2.1	Install Controller Chamber (supply of cherry picker included)	each	14			
2.2.2	Install UPS Chamber (supply of cherry picker included)	each	14			
2.2.3	Install 1000mm Stubby Chamber (supply of cherry picker included)	each	14			
2.2.5	Installation of Fibre link cables in to chambers	each	14			
2.3	INSTALLATION OF POLES AND POLE TOPS/ CAPS					
2.3.1	Install standard 4m pole with or without hatch	each	8.1			
2.3.2	Install standard 5m pole with hatch	each	8.1			
2.3.3	Install standard 6m pole with hatch	each	8.1			
2.3.4	Install removable 4m with or without hatch	each	8.1			
2.3.5	Install removable 5m or 6m pole with hatch		8.1			
2.3.6	Install 4m, 5m or 6m base plate pole	each	8.1			
2.3.7	Install 8m streetlight pole	each	8.1			
2.3.8	Install cantilever pole vertical section only (excluding bolt group), termination of cable is included ((supply of cherry picker included)	each	8.1			

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2.3.9	Install cantilever pole horizontal section only, termination of cable is included (supply of cherry picker included)	each	8.1			
2.3.10	Install complete cantilever pole , termination of cable is included (supply of cherry picker included)	each	8.1			
2.3.11	Install pole top complete with cradele and terminals to fit standard traffic signal pole_core termination included	each	8.1			
2.3.12	Install pedestrian information sticker	each	8.1			
2.3.13	Install pole number on pole	each	10			
2.4	INSTALLATION OF TRAFFIC SIGNAL LANTERN AND OTHER MOUNTABLE EQUIPMENT (includes connection to relevant cable core, lantern background screens)					
2.4.1	210MM TRAFFIC SIGNAL LANTERNS COMPLETE					
2.4.1.1	Install 1 aspect or 2 aspect 210mm lantern on 4m pole, 5m, 6m pole or on vertical section of cantilever pole	each	8.7			
2.4.1.2	Install 3 aspect 210mm lantern on 4m pole, 5m, 6m pole,	each	8.7			
2.4.1.2a	Install 3 aspect 210mm lantern horizontal part of cantilever pole (supply of cherry picker included)	each	8.7			
2.4.1.3	Install 4 aspect 210mm lantern on 4m pole, 5m, 6m pole, vertical part of cantilever pole	each	8.7			
2.4.1.4	Install 5 aspect 210mm lantern on 4m pole, 5m, 6m pole, vertical part of cantilever pole	each	8.7			
2.4.1.5	Install 5 aspect lantern 210 mm on horizontal section of cantilever pole (supply of cherry picker included)	each	8.7			

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2.4.1.6	Install 210 mm LED light	each	8.7			
2.4.1.7	Install 3 aspect 210mm Nylon Traffic signal lantern with Incorporated ST-Sign on 4m, 5m, 6m pole or vertical section of cantilever pole	each	8.7			
2.4.1.8	Install 3 210mm Nylon Traffic signal lantern with Incorporated ST-Sign on horizontal section of cantilever pole (supply of cherry picker included)	each	8.7			
2.4.2	300MM TRAFFIC SIGNAL LANTERNS COMPLETE					
2.4.2.1	Install 1 aspect or 2 aspect 300mm lantern on 4m pole, 5m, 6m pole or on vertical section of cantilever pole	each	8.7			
2.4.2.2	Install 3 aspect 300mm lantern on 4m pole, 5m, 6m pole,	each	8.7			
2.4.2.2a	Install 3 aspect 300mm lantern on horizontal part of cantilever pole (supply of cherry picker included)	each	8.7			
2.4.2.3	Install 4 aspect 300mm lantern on 4m pole, 5m, 6m pole, vertical part of cantilever pole	each	8.7			
2.4.2.4	Install 5 aspect 300mm lantern on 4m pole, 5m, 6m pole, vertical part of cantilever pole	each	8.7			
2.4.2.5	Install 5 aspect lantern 300mm on on hozintal section of cantilever pole (supply of cherry picker included)	each	8.7			
2.4.2.6	Install 300mm LED light	each	8.7			

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3.2.8	CABLES INTO BASE MOUNTED CONTROLLER (includes glanding of cable) (Includes termination, excavation and backfill)					
3.2.8.1	Install 1 - 4 core cable 10 - 16mm (Mains)	each	9			
3.2.8.2	Install 2 core copper cable 1.5mm2	each	9			
3.2.8.3	Install 19 core copper cable 1.5mm2	each	9			
3.2.8.4	Install 37 core copper cable 1.5mm2	each	9			
3.2.8.5	Install 8 pair copper cable 1mm2	each	9			
3.2.8.6	Install earth wire 10mm	each	9			
3.2.8.7	Install CAT5	each	9			
3.2.9	CABLES INTO POLE MOUNTED CONTROLLER (includes glanding of cable) (Includes termination, excavation and backfill)					
3.2.9.1	Install 1 - 4 core cable 10 - 16mm (Mains)	each	9			
3.2.9.2	Install 2 core copper cable 1.5mm2	each	9			
3.2.9.3	Install 19 core copper cable 1.5mm2	each	9			
3.2.9.4	Install 37 core copper cable 1.5mm2	each	9			
3.2.9.5	Install 8 pair copper cable 1mm2	each	9			
3.2.9.6	Install earth wire 10mm	each	9			
3.2.9.7	Install CAT5	each	9			

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3.2.10	CABLES INTO CONNECTION PILLAR (includes glanding of cable) (Includes termination, excavation and backfill)					
3.2.10.1	Install 1 - 4 core cable 10 - 16mm (Mains)	each	9			
3.2.10.2	Install 2 core copper cable 1.5mm ²	each	9			
3.2.10.3	Install 19 core copper cable 1.5mm ²	each	9			
3.2.10.4	Install 37 core copper cable 1.5mm ²	each	9			
3.2.10.5	Install 8 pair copper cable 1mm ²	each	9			
3.2.10.6	Install earth wire 10mm	each	9			
3.2.10.7	Install CAT5	each	9			
3.2.11	CABLES IN POLES (Includes termination, excavation and backfill)					
3.2.11.1	Install 2 core copper cable 1.5mm ²	each	9			
3.2.11.2	Install 19 core copper cable 1.5mm ²	each	9			
3.2.11.3	Install earth wire 10mm	each	9			
3.2.11.4	Install 7 core cable (From hatch in cantilever to lantern on horizontal section of cantilever pole)	each	9			
3.2.11.5	Install CAT5	each	9			

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3.3	STRAIGHT JOINTING CABLES Jointing cable with heatshrink or compound joint type as required, fitting ferrules (sweated or crimped as required), and filling joint box. Any excavation and re-instatement work to be measured separately.					
3.3.1	16mm ² x 3 core SWA (Mains)	each	9			
3.3.2	1.5mm ² x 19 core SWA	each	9			
3.3.3	1.5mm ² x 37 core SWA	each	9			
3.3.4	1.5mm ² x 2 core SWA	each	9			
3.3.5	Cable Thumping (inclusive of equipment plus operator) to detect cable fault	hour	9			
3.3.6	Install vandal resistant bosal pipes	each	9			
4	INSTALLATION OF DETECTION MATERIAL					
4.1	INSTALLATION OF LOOP DETECTION					
4.1.1	Cutting of vehicle actuated, Extension and Scoot Loops(includes supply of all materials)	m	12.1			
4.1.2	Refilling and Sealing of existing loops(includes supply of all materials)	m	12.1			
4.1.3	Testing of loops	each	12.1			

SCHEDULE 25: CONTRACT PRICE ADJUSTMENT

Pricing Instructions:

1.

The Contract Price Adjustment mechanism applicable is only the Supplier's/ Manufacturer's Price List Price Variation, contained in this schedule is compulsory and binding on all tenderers.
2.

Failure to complete this schedule or any part thereof may result in the tender offer being declared non-responsive.
3.

Tenderers are not permitted to amend, vary, alter or delete this schedule or any part thereof unless otherwise stated in this schedule, failing which the tender offer shall be declared non-responsive.
4.

Tenderers are permitted to offer firm prices except where the Supplier's/ Manufacturer's Price List Price Variation is applicable is applicable as shown in the Schedule of Rates, and if the tenderer offers firm prices where the Supplier's/ Manufacturer's Price List Price Variation is applicable in contravention of this clause the tender offer shall be declared non- responsive.
5.

Where the_Supplier's/ Manufacturer's Price List Price Variation is applicable in the first year of the period of contract, the contract price/s shall be fixed and not be subject to any contract price adjustment
6.

Any claim for an increase in the Contract price shall be submitted in writing to the:

Director Supply Chain Management, City of Cape Town,
P O Box 655, Cape Town, 8000 or
by email to: cpa.request@capetown.gov.za prior to the date upon which the price adjustment would become effective.
7.

The CCT reserves the right to withhold payment of any claim for contract price adjustment while only provisional figures are available and until the final (revised) figures are issued by the relevant authority.
8.

When submitting a claim for contract price adjustment a supplier shall indicate the actual amount claimed for each item. A mere notification of a claim for contract price adjustment without stating the new price claimed for each item shall, for the purpose of this clause, not be regarded as a valid claim.
9.

The CCT reserves the right to request the supplier to submit auditor's certificates or such other documentary proof as it may require in order to verify a claim for contract price adjustment. Should the supplier fail to submit such auditor's certificates or other documentary proof to the CCT within a period of 30 (thirty) days from the date of the request, it shall be presumed that the supplier has abandoned his claim.
10.

SUPPLIER/ MANUFACTURER PRICE LIST VARIATIONS (SECTION A BELOW): APPLICABLE ONLY TO THE FOLLOWING LINE ITEMS UNDER SECTION 1A OF THE SCHEDULE OF RATES:

TENDERERS ARE TO INDICATE THE SUPPLIER/ MANUFACTURER'S PRICE LIST VARIATION FOR THE FOLLOWING LINE ITEMS

- Line item 9: SUPPLY OF CABLES
- 9.a

Supply 3 core copper cable 16mm2 (Mains)
- 9.b

Supply 2 core copper cable 1.5mm2
- 9.c

Supply 19 core copper cable 1.5mm2
- 9.d

Supply 37 core copper cable 1.5mm2
- 9.e

Supply 8 twisted pair cable 1mm2
- 9.f

Supply bare copper bare copper earth wire 10mm2
- 9.g

Supply cable matting
- 9.h

Supply CAT5

- Line item 11: SUPPLY OF UNINTERRUPTED POWER SUPPLY AND ASSOCIATED ITEMS
- 11.a

Supply UPS cabinet only
- 11.b

Supply UPS communications Cable For Traffic Signal Controller
- 11.c

Supply 48V 5KW Lithium battery
- 11.d

Supply 48V 2000VA 25A Inverter including in-line fuse and holder, change over switch

For the line items that are subject to variation based on **SUPPLIER/ MANUFACTURER PRICE LIST VARIATIONS**, the following will be applicable:

Tenderers must supply the following documentation when applying for a price variation:

The price list that the tender was based upon **clearly indicating the item numbered according to the tender pricing schedule.**

The new price list **clearly indicating the item according to the tender pricing schedule** from the same supplier/manufacturer from date of tender **Detailed calculations** indicating how the “new” price is established

Covering letter on a letterhead from contractor requesting the variation. All documentation to be signed by relevant parties **prior** to the date upon which the price variation would become effective. The effective date of any price increases granted will be at the date when all the above mentioned documentation is submitted. In instances where the contractors price claimed is less than entitled, the lesser price will be accepted. Orders placed prior to the effective date will not be allowed to be varied. Only the difference in cost will be allowed to be varied and under no circumstances may the contractor increase their profit margin.

In the event of a contactor changing their supplier/manufacturer during the tenure of the contract, any request for price variations will not be considered unless the contractor obtains prior approval from the City.

Process that will be followed:

Contractor submits all the documentation indicated above prior to the effective date of the variation.

The City will consider the variation and based on the documentary evidence, the City may approve the variation.

Letters authorising the price variation will be communicated to the contractor.

All purchase orders from the effective date will be generated at the approved contract price.

Note: TENDERERS ARE REQUIRED TO COMPLETE BELOW.

Increase using **Supplier/Manufacturer Price Lists**

The tender price shall be subject to adjustment based on Supplier’s/Manufacturer’s Price Lists.

Supplier/Manufactuer_____

Date of Price List/Quotation upon which tender is based_____

Price List/Quotation Reference Number_____

N.B.
The above information must be provided for each item supplied to the Tenderer.

Copies of price lists on which tender prices are based must be enclosed for all items. The items referenced to the Pricing Schedule must be clearly identified on the price list.

Tenderers will be entitled to claim only the difference between the cost of the product at the time of tendering and the new cost. Documentation together with detailed calculations to this effect must be submitted.

SIGNED ON BEHALF OF TENDERER:

R10 000 per day.

Insert the following after "actual date of Practical Completion":

... or, in the case of termination by the Employer in terms of Clause 9.2.1, the actual date of termination,

Clause 5.16.3:

The latent defects period is 5 years.

Clause 6.2.1:

The security to be provided by the Contractor shall be a blanket performance guarantee of R200 000 per region. The performance guarantee shall contain the precise wording of the document included in Part C1.3 of the Contract Data: **Form of Performance Guarantee**, and it shall be issued by a financial institution approved by the Employer, at the date when the guarantee is issued. The list of approved financial institutions current at the date of tender is attached to the **Form of Performance Guarantee**.

In the event of the guarantee being called up (in full or in part) the Contractor shall within 21 days of the issue of a first written demand by the Employer to the Guarantor, provide at his own cost a replacement performance guarantee of R200 000 for the particular region, and no work will be allocated to the Contractor in that region until the replacement performance guarantee has been provided.

Clause 6.2.2:

Delete Clause 6.2.2 in its entirety.

Clause 6.2.3:

Delete Clause 6.2.3 in its entirety and replace with the following:

The Contractor shall ensure that the performance guarantee remains valid and enforceable until the last Certificate of Completion of the Works for the Works Projects in a region is issued.

Clause 6.8.2:

Delete Clause 6.8.2. in its entirety and replace with the following:

Tenderers are referred to Schedule 25 regarding price adjustment on Returnable Schedules

Clause 6.10.3:

Add the following to Clause 6.10.3:

Notwithstanding the provision of a performance guarantee in terms of Clause 6.2.1, interim payments to the Contractor shall be subject to a retention by the Employer of an amount of 5% **(provided that for Works Projects less than or equal to R200 000 retention is waived)** of the said amounts due to the Contractor, with no limit per Works Project. A guarantee in lieu of retention is not permitted.

[]

Clause 6.10.4:

Add the following to the last sentence of Clause 6.10.4:

..., dated as at the date of delivery of the Contractor's statement to the Employer's Agent.

[]

Add the following to Clause 6.10.4:

Notwithstanding the above, the Employer's Agent shall be empowered to withhold the delivery of the payment certificate until the Contractor has complied with his obligations to report in terms of Clause 4.10.2 and as described in the Scope of Work.

[]

The Contractor may submit a fully motivated application regarding more frequent payment to the Employer's Agent to be submitted to the Employer for consideration. Requests for more frequent payments will be considered at the sole discretion of Employer and is not a right in terms of this contract.

Clause 6.10.10:

Not applicable to this tender

[]

Clause 8.6.1:

The insurances to be effected and maintained by the Contractor shall be in the form of a blanket/umbrella policy per region for this term tender contract. This policy shall be endorsed as and when required to reflect each Works Project that may be allocated to the Contractor.

[]

Clause 8.6.1.1.1:

The Contract Price shall, for insurance purposes, include for individual Contract Sums of up to **R3 000 000** for each Works Project per region.

[]

Clause 8.6.1.1.2:

The value of Plant and materials supplied by the Employer to be included in the insurance sum is **R 0.00 (Nil)**.

[]

Clause 8.6.1.1.3:

The amount to cover professional fees for repairing damage and loss to be included in the insurance sum is **R0.00 (Nil)**.

[]

Clause 8.6.1.3:

The limit of indemnity for liability insurance is R20 000 000.00 for any single claim – the number of claims to be unlimited during the construction and defects liability periods.

[]

Clause 8.6.1.5:

210A Contract

In addition to the insurances required in terms of General Conditions of Contract Clauses 8.6.1.1 to 8.6.1.4 the following insurance is also required:

- a) Insurance of Construction Equipment (including tools, offices and other temporary structures and contents) and other things (except those intended for incorporation into the Works) brought onto the site for a sum sufficient to provide for their replacement.

	Reference must be made through the Installation Instruction attached (Smartlock)
15	UNSPECIFIED WORK
	For items not covered in this tender, requirements must be specified by or agreed with the project leader and the tendered rate for labour will apply
16	EXTRA VEHICLE AND PLANT COST
	These items are only for use by agreement with Project Leader. The tendered rates for items described in this schedule must include any vehicle or plant costs.
17	REMOVAL OF STREET FURNITURE OR DAMAGED EQUIPMENT
	The rates to include: 1. Excavations to remove equipment, 2. Disconnection of cables including glands and k-clamps, 3. Removal of equipment, 4. Backfilling, 5. Measuring of cable lengths, 6. Inventory of all removed items. 7. Return to relevant depot,
18	HANDOVER OF SITE
	Handover of site to CCT or maintenance depot will only be allowed once all conditions attached to the inspection and testing of work have been met by the contractor

3.4.3.3 UNINTERRUPTED POWER SUPPLY (UPS) SPECIFICATION

No.	Description	Specification
11.1	Supply UPS cabinet only	Shall have the capability of housing a 550mm(L)x350mm(W)x150mm(H) inverter and a 480mm(W)x660mm(h)x230mm(L) Lithium Battery as well as all peripheral cables and Distribution Box with associated Circuit Breakers CCT current UPS enclosures can be made available for viewing(Contact CCT to arrange a viewing of the enclosure)
11.2	Supply UPS communications Cable For Traffic Signal Controller	Cat6 cable
11.3	Supply 48V 5KW Lithium battery	Lithium In excess of 5KWH 48VDC LifePO4 Incoming Voltage range 198Vac to 242Vac 80% Depth of Discharge Capacity 100AH minimum 6000 cycles minimum or 5 years all inclusive Warranty BMS Geo-Fencing, battery to be disabled if leaving area Tracking Communication to remote Server on CCT Urban Mobility Network Temperature range 0°C to 65°C minimum Shall fit into the CCT current UPS enclosures(Contact CCT to arrange a viewing of the enclosure) Datadot
11.4	Supply 48V 2000VA 25A Inverter including in-line fuse, holder and change over switch must be inside traffic signal controller	Incoming Voltage range 198Vac to 242Vac Manual Change-over Switch to be installed with each inverter Communication to remote Server on CCT Urban Mobility Network Temperature range 0°C to 65°C minimum Shall fit into the CCT current UPS enclosures(Contact CCT to arrange a viewing of the enclosure) Geo-Fencing, to be disabled if leaving area Tracking 5 years all inclusive Warranty Compatible with the 48VDC LifePO4 battery Minimum 2000VA Datadot

3.4.4 WAYLEAVES, PERMISSIONS AND PERMITS

The Contractor shall be responsible for obtaining all of the necessary wayleaves, permissions or permits applicable to working near any existing services or other infrastructure on Site, and shall ensure that any wayleaves, permissions or permits obtained by the Employer's Agent prior to the award of the contract are transferred into the Contractor's name.

The Contractor shall abide by any conditions imposed by such wayleaves, permissions or permits.

The Contractor shall ensure that all wayleaves, permissions and permits are kept on site and are available for inspection by the relevant service authorities on demand.

The Contractor shall also ensure that any wayleaves in respect of electricity services are renewed timeously every three months.

3.4.5 LOCAL PRODUCTION AND CONTENT

Not applicable.

3.4.6 EMPLOYMENT OF SECURITY PERSONNEL

All security staff employed by the contractor on behalf of the CCT or at any CCT property must be registered with Private Security Industry Regulatory Authority (PSIRA). Proof of such registration must be made available to the employer's agent upon request.

Security Officer, Grade C means an employee who is graded as such with PSIRA and who performs any one or more of the following duties:

