

## **SCHEDULE OF UNIT RATES**

The rates quoted in this Schedule of Unit Rates are to be used for any valuation of variation. Rates quoted in the Schedule of Prices shall over-ride rates in this Section in case of any discrepancies.

The price shall be firm within the completion period, inclusive of any approved extension of time of up to 3 months.

The unit price shall include the cost of design, manufacture, supply, delivery, installation, testing, commissioning, duties, surtax and sales tax.

Every single item shall be filled in, even though such material may not be used in this project.

# SCHEDULE OF UNIT RATES

## 1.0 Cabling Laying Works

Item No.	Description	Unit	Unit Price (RM)	
			1 Core	4 Core
1.1	The works shall be carried out in accordance to IEE wiring regulations (Table 4A-method of cable installation) 16 <sup>th</sup> Edition including termination.			
1.1.1	XLPE/SWA/PVC cable (600/1000 volts grade) copper			
i.	300 sq. mm	m		
ii.	240 sq. mm	m		
iii.	185 sq. mm	m		
iv.	150 sq. mm	m		
v.	120 sq. mm	m		
vi.	95 sq. mm	m		
vii.	70 sq. mm	m		
viii.	50 sq. mm	m		
ix.	35 sq. mm	m		
x.	25 sq. mm	m		
xi.	16 sq. mm	m		
1.1.2	XLPE/AWA/PVC cable (600/1000 volts grade) copper			
i.	300 sq. mm	m		
ii.	240 sq. mm	m		
iii.	185 sq. mm	m		
iv.	150 sq. mm	m		
v.	120 sq. mm	m		
vi.	95 sq. mm	m		
vii.	70 sq. mm	m		
viii.	50 sq. mm	m		
ix.	35 sq. mm	m		
x.	25 sq. mm	m		
xi.	16 sq. mm	m		
1.1.3	XLPE/PVC cable (600/1000 volts grade) copper			
i.	300 sq. mm	m		
ii.	240 sq. mm	m		
iii.	185 sq. mm	m		
iv.	150 sq. mm	m		
v.	120 sq. mm	m		
vi.	95 sq. mm	m		
vii.	70 sq. mm	m		
viii.	50 sq. mm	m		
ix.	35 sq. mm	m		
x.	25 sq. mm	m		
xi.	16 sq. mm	m		
xii.	10 sq. mm	m		
xii.	6 sq. mm	m		
xiv.	4 sq. mm	m		
xv.	2.5 sq. mm	m		
xvi.	1.5 sq. mm	m		

# SCHEDULE OF UNIT RATES

## 1.0 Cabling Laying Works

Item No.	Description	Unit	Unit Price (RM)	
			1 Core	4 Core
1.1.4	Aerial Bundled Cable (600/1000 volts grade) aluminium			
i.	16 + 25 sq. mm	m		
ii.	35 + 25 sq. mm	m		
iii.	50 + 25 sq. mm	m		
iv.	70 + 50 sq. mm	m		
v.	95 + 70 + 16 sq. mm	m		
vi.	185 + 120 + 16 sq. mm	m		

Item No.	Description	Unit	Unit Price (RM)		
			1 Core	2 Core	4 Core
1.1.5	Fire Resistant Cable (FR) (600/1000 volts grade) copper (Mineral insulated type)				
i.	300 sq. mm	m			
ii.	240 sq. mm	m			
iii.	185 sq. mm	m			
iv.	150 sq. mm	m			
v.	120 sq. mm	m			
vi.	95 sq. mm	m			
vii.	70 sq. mm	m			
viii.	50 sq. mm	m			
ix.	35 sq. mm	m			
x.	25 sq. mm	m			
xi.	16 sq. mm	m			
xii.	10 sq. mm	m			
xiii.	6 sq. mm	m			
xiv.	4 sq. mm	m			
xv.	2.5 sq. mm	m			
xvi.	1.5 sq. mm	m			
1.1.6	PVC/SWA/PVC Cable c/w (600/1000 volts grade) copper				
i.	300 sq. mm	m			
ii.	240 sq. mm	m			
iii.	185 sq. mm	m			
iv.	150 sq. mm	m			
v.	120 sq. mm	m			
vi.	95 sq. mm	m			
vii.	70 sq. mm	m			
viii.	50 sq. mm	m			
ix.	35 sq. mm	m			
x.	25 sq. mm	m			
xi.	16 sq. mm	m			
xii.	10 sq. mm	m			
xiii.	6 sq. mm	m			
xiv.	4 sq. mm	m			
xv.	2.5 sq. mm	m			
xvi.	1.5 sq. mm	m			

# SCHEDULE OF UNIT RATES

## 1.0 Cabling Laying Works

Item No.	Description	Unit	Unit Price (RM)		
			1 Core	2 Core	4 Core
1.1.7	PVC/PVC Cable c/w (600/1000 volts grade) copper				
i.	300 sq. mm	m			
ii.	240 sq. mm	m			
iii.	185 sq. mm	m			
iv.	150 sq. mm	m			
v.	120 sq. mm	m			
vi.	95 sq. mm	m			
vii.	70 sq. mm	m			
viii.	50 sq. mm	m			
ix.	35 sq. mm	m			
x.	25 sq. mm	m			
xi.	16 sq. mm	m			
xii.	10 sq. mm	m			
xiii.	6 sq. mm	m			
xiv.	4 sq. mm	m			
xv.	2.5 sq. mm	m			
xvi.	1.5 sq. mm	m			
1.1.8	PVC Cable (600/1000 volts grade) copper				
i.	300 sq. mm	m			
ii.	240 sq. mm	m			
iii.	185 sq. mm	m			
iv.	150 sq. mm	m			
v.	120 sq. mm	m			
vi.	95 sq. mm	m			
vii.	70 sq. mm	m			
viii.	50 sq. mm	m			
ix.	35 sq. mm	m			
x.	25 sq. mm	m			
xi.	16 sq. mm	m			
xii.	10 sq. mm	m			
xiii.	6 sq. mm	m			
xiv.	4 sq. mm	m			
xv.	2.5 sq. mm	m			
xvi.	1.5 sq. mm	m			

# SCHEDULE OF UNIT RATES

## 1.0 Cabling Laying Works

Item No.	Description	Unit	Unit Price (RM)
<b>PVC Insulated, Steel Wire Armoured, PVC Oversheathed MULTICORE cable</b>			
<b>1.1.9</b>	<b>PVC /SWA/PVC cable (600/1000 volt grade) copper</b>		
i.	2.5 sq. mm, 05 core	m	
ii.	2.5 sq. mm, 07 core	m	
iii.	2.5 sq. mm, 10 core	m	
iv.	2.5 sq. mm, 12 core	m	
v.	2.5 sq. mm, 19 core	m	
vi.	2.5 sq. mm, 27 core	m	
vii.	2.5 sq. mm, 37 core	m	
viii.	2.5 sq. mm, 48 core	m	
ix.	1.5 sq. mm, 05 core	m	
x.	1.5 sq. mm, 07 core	m	
xi.	1.5 sq. mm, 10 core	m	
xii.	1.5 sq. mm, 12 core	m	
xiii.	1.5 sq. mm, 19 core	m	
xiv.	1.5 sq. mm, 27 core	m	
xv.	1.5 sq. mm, 37 core	m	
<b>XLPE/PVC Sheathed Cables</b>			
<b>1.1.10</b>	<b>XLPE/PVC cable (600/1000 volt grade) copper</b>		
i.	300 sq. mm	m	
ii.	240 sq. mm	m	
iii.	185 sq. mm	m	
iv.	150 sq. mm	m	
v.	120 sq. mm	m	
vi.	95 sq. mm	m	
vii.	70 sq. mm	m	
viii.	50 sq. mm	m	
ix.	35 sq. mm	m	
x.	25 sq. mm	m	
xi.	16 sq. mm	m	
xii.	10 sq. mm	m	
xiii.	6 sq. mm	m	
xiv.	4 sq. mm	m	
xv.	2.5 sq. mm	m	

## SCHEDULE OF UNIT RATES

### 2.0 Lighting & Small Power

**2.1** To wire the following single phase electrical points using IC PVC insulated cables and earth in conduit or IC PVC/PVC cable concealed in plaster/wall c/w light switches, switch socket outlets, regulator etc.

Item No.	Description	Surface		Concealed	
		Steel Conduit (RM)	UPVC Conduit (RM)	Steel Conduit (RM)	UPVC Conduit (RM)
i.	Lighting point using 3 x 1.5mm <sup>2</sup> cable				
ii.	Lighting point using 3 x 2.5mm <sup>2</sup> cable				
iii.	Lighting point using 3 x 4.0mm <sup>2</sup> cable				
iv.	13A S/S/O point using 1.5mm <sup>2</sup> cable				
v.	13A S/S/O point using 3 x 2.5mm <sup>2</sup> cable				
vi.	13A S/S/O point using 3 x 4.0mm <sup>2</sup> cable				
vii.	15A S/S/O point using 3 x 4.0mm <sup>2</sup> cable				
viii.	Ceiling fan point using 3 x 1.5mm <sup>2</sup> cable				
ix.	Ceiling fan point using 3 x 2.5mm <sup>2</sup> cable				
x.	Air-Cond point using 3 x 4.0mm <sup>2</sup> cable				
xi.	Air-Cond point using 3 x 6.0mm <sup>2</sup> cable				
xii.	Exhaust fan point using 3 x 1.5mm <sup>2</sup> cable				

Item No.	Description	Unit	Rate (RM)
<b>2.2</b>	<b>Light switch</b>		
<b>2.2.1</b>	<b>10A Flush Mounted Type</b>		
i.	1 gang	No	
ii.	2 gang	No	
iii.	3 gang	No	
iv.	4 gang	No	
<b>2.2.2</b>	<b>10A Surface Mounted Metalclad Type</b>		
i.	1 gang	No	
ii.	2 gang	No	
iii.	4 gang	No	
<b>2.2.3</b>	<b>Weather Protected 10A Surface Switch</b>		
i.	1 gang	No	
ii.	2 gang	No	

## SCHEDULE OF UNIT RATES

### 2.0 Lighting & Small Power

Item No.	Description	Unit	Rate (RM)
2.3	"KELUAR" Sign and Emergency Light		
2.3.1	KELUAR' sign (LED)		
i.	2 x 15W Bulb Emergency "KELUAR" Sign	No	
ii.	LED box type single-sided "KELUAR" Sign	No	
iii.	2 x 8W Tube Emergency Single Sided "KELUAR" Sign	No	
iv.	2 x 8W Tube Emergency Double Sided "KELUAR" Sign	No	
v.	LED slim type surface mounted "KELUAR" sign	No	
vi.	LED slim type surface Double mounted "KELUAR" sign	No	
vii.	LED slim type recessed mounted "KELUAR" sign	No	
viii.	LED slim type recessed Double sided "Keluar" sign	No	
2.3.2	Emergency Light (LED)		
i.	1 x 3W Emergency Light (Surface)	No	
ii.	1 x 9W Emergency Light (Surface)	No	
iii.	1 x 18W Emergency Light (Surface)	No	
iv.	1 x 18W Emergency Light (Recessed)	No	
v.	1 x 13W Emergency Light (Surface)	No	
vi.	1 x 13W Emergency Light (Recessed)	No	
vii.	2 x 15W LED Twin Lamp Emergency Light	No	
2.4	LED Light Fittings		
Price quoted shall be per number supply and install the following light fitting c/w lamps, control gear and all mounting accessories			
2.4.1	Battern - Bare (LED)		
i.	1 x 18W	No	
ii.	2 x 18W	No	
iii.	1 x 36W	No	
iv.	2 x 36W	No	

# SCHEDULE OF UNIT RATES

## 2.0 Lighting & Small Power

Item No.	Description	Unit	Rate (RM)
<b>2.4</b>	<b>LED Light Fittings</b>		
Price quoted shall be per number supply and install the following light fitting c/w lamps, control gear and all mounting accessories			
<b>2.4.2</b>	<b>Battern - Daikon (LED)</b>		
i.	1 x 18W	No	
ii.	2 x 18W	No	
iii.	1 x 36W	No	
iv.	2 x 36W	No	
<b>2.4.3</b>	<b>Battern - with Metal Reflector (LED)</b>		
i.	1 x 18W	No	
ii.	2 x 18W	No	
iii.	1 x 22W		
iv.	1 x 36W	No	
v.	2 x 36W	No	
<b>2.4.4</b>	<b>Battern - with Wire Guard (LED)</b>		
i.	1 x 18W	No	
ii.	2 x 18W	No	
iii.	1 x 22W		
iv.	1 x 36W	No	
v.	2 x 36W	No	
<b>2.4.5</b>	<b>Surface/Suspended Flourescent Luminaire - (LED)</b>		
i.	1 x 18W	No	
ii.	2 x 18W	No	
iii.	3 x 18 W	No	
iv.	1 x 22W		
v.	1 x 36W	No	
vi.	2 x 36W	No	
vii.	3 x 36W	No	
<b>2.4.6</b>	<b>Recessed Flourescent Luminaire - (LED)</b>		
i.	1 x 18W	No	
ii.	2 x 18W	No	
iii.	3 x 18W	No	
iv.	1 x 22W		
v.	1 x 36W	No	
vi.	2 x 36W	No	
vii.	3 x 36W	No	
<b>2.4.7</b>	<b>Surfaced Mounted - All Weather/Corrosion Resistance Type (LED)</b>		
i.	1 x 18W	No	
ii.	2 x 18W	No	
iii.	1 x 22W		
iv.	1 x 36W	No	
v.	2 x 36W	No	



## SCHEDULE OF UNIT RATES

### 2.0 Lighting & Small Power

Item No.	Description	Unit	Rate (RM)
<b>2.4</b>	<b>LED Light Fittings</b>		
Price quoted shall be per number supply and install the following light fitting c/w lamps, control gear and all mounting accessories			
<b>2.4.8</b>	<b>Recessed Downlight (LED)</b>		
i.	1 x 9W	No	
ii.	1 x 11W	No	
iii.	1 x 15W	No	
iv.	1 x 18W	No	
v.	1 x 21W	No	
vi.	1 x 22W	No	
vii.	1 x 28W	No	
viii.	1 x 42W	No	
ix.	1 x 56W	No	
<b>2.4.9</b>	<b>Other fittings</b>		
i.	Wall mounted decorative light c/w 26W PL Lamp and glass cover diffuser	No	
ii.	Surface Downlight c/w 26W PL Lamp	No	
iii.	Recessed Downlight c/w 100W GLS lamp	No	
iv.	100W weather proof bulkhead fitting	No	
v.	200W spotlight	No	
vi.	405mm dia wall fan c/w full cord switch	No	
vii.	1500mm dia ceiling fan c/w hook	No	
viii.	150W HPS Floodlight c/w Al. reflector & adjustable mounting bracket	No	
ix.	4" 8W Square Recessed Downlight c/w PLCE Tube	No	
x.	6" 1x 18W Square Recessed Downlight c/w control gear & PLC Lamp	No	
xi.	100W LED Floodlighting	No	
xii.	200W LED Floodlighting	No	
xiii.	Exhaust fan	No	
xiv.	1 x 18W corrosive resistant fluorescent fitting	No	

## SCHEDULE OF UNIT RATES

### 2.0 Lighting & Small Power

Item No.	Description	Unit	Rate (RM)
<b>2.5</b>	<b>Street Lighting</b>		
<b>2.5.1</b>	Supply and install the following street lighting c/w lamps, ballast, control gear and all mounting accessories.		
i.	1 x 70W LED	No	
ii.	1 x 85W LED	No	
iii.	1 x 100W LED	No	
iv.	1 x 105W LED	No	
v.	1 x 120W LED	No	
vi.	1 x 140W LED	No	
vii.	1 x 175W LED	No	
viii.	1 x 200W LED	No	
<b>2.5.2</b>	<b>Floodlight Luminaire</b>		
i.	1 x 71W LED	No	
ii.	1 x 94W LED	No	
iii.	1 x 116W LED	No	
iv.	1 x 138W LED	No	
v.	1 x 162W LED	No	
vi.	1 x 184W LED	No	
vii.	1 x 232W LED	No	
viii.	1 x 267W LED	No	
ix.	1 x 278W LED	No	
x.	1 x 300W LED	No	
xi.	1 x 322W LED	No	
xii.	1 x 368W LED	No	
<b>2.5.3</b>	<b>Hot dipped galvanised lighting pole</b>		
i.	2m high	No	
ii.	3m high	No	
iii.	6m high (single spigot)	No	
iv.	6m high (double spigot)	No	
v.	8m high (single spigot)	No	
vi.	8m high (double spigot)	No	
vii.	10m high (single spigot)	No	
viii.	10m high (double spigot)	No	
ix.	12m high (single spigot)	No	
x.	12m high (double spigot)	No	

## SCHEDULE OF UNIT RATES

### 2.0 Lighting & Small Power

Item No.	Description	Unit	Rate (RM)
2.6	Switch Socket Outlet		
To supply and install the following Switch Socket Outlet and other accessories			
2.6.1	Flush Type		
i.	13A SPN Switch Socket Outlet	No	
ii.	15A SPN Switch Socket Outlet	No	
iii.	20A SPN Switch Socket Outlet	No	
iv.	13A TPN Switch Socket Outlet	No	
v.	15A TPN Switch Socket Outlet	No	
vi.	20A TPN Switch Socket Outlet	No	
2.6.2	Metalclad		
i.	13A SPN Switch Socket Outlet (Metal Clad)	No	
ii.	15A SPN Switch Socket Outlet (Metal Clad)	No	
iii.	20A SPN Switch Socket Outlet (Metal Clad)	No	
iv.	13A TPN Switch Socket Outlet (Metal Clad)	No	
v.	15A TPN Switch Socket Outlet (Metal Clad)	No	

## SCHEDULE OF UNIT RATES

### **3.0 Moulded Case Circuit Breaker (MCCB)**

Supply and install of 1 no. of MCCB in any switchboard / sub-board/distribution board inclusive of all connections, removable neutral link, additional space, etc

#### **Double-Pole**

Item No.	Rated Current (A)	Unit	25 kA (RM)
i.	15		
ii.	20		
iii.	30		
iv.	40		
v.	60		
vi.	80		
vii.	100		

#### **Triple-Pole**

Item No.	Rated Current (A)	Unit	25 kA (RM)	36 kA (RM)	50 kA (RM)
i.	30				
ii.	40				
iii.	60				
iv.	80				
v.	100				
vi.	150				
vii.	200				
viii.	250				
ix.	300				
x.	400				
xi.	500				
xii.	600				
xiii.	800				

#### **Four – Pole**

Item No.	Rated Current (A)	Unit	25 kA (RM)	36 kA (RM)	50 kA (RM)
i.	30				
ii.	40				
iii.	60				
iv.	80				
v.	100				
vi.	150				
vii.	200				
viii.	250				
ix.	300				
x.	400				
xi.	500				
xii.	600				
xiii.	800				

## SCHEDULE OF UNIT RATES

### 4.0 Miniature Circuit Breaker (MCB)

Supply and install of 1 no. of MCB in any switchboard / distribution board inclusive of all connections, additional space, etc.

#### Single-Pole

Item No.	Rated Current (A)	Unit	6 kA (RM)	10 kA (RM)
i.	6			
ii.	10			
iii.	16			
iv.	20			
v.	25			
vi.	32			
vii.	40			
viii.	63			

#### Double-Pole

Item No.	Rated Current (A)	Unit	6 kA (RM)	10 kA (RM)
i.	6			
ii.	10			
iii.	16			
iv.	20			
v.	25			
vi.	32			
vii.	40			
viii.	63			

#### Triple-Pole

Item No.	Rated Current (A)	Unit	6 kA (RM)	10 kA (RM)
i.	6			
ii.	10			
iii.	16			
iv.	20			
v.	25			
vi.	32			
vii.	40			
viii.	63			

## SCHEDULE OF UNIT RATES

### **5.0 Residual Current Device (RCD)**

Supply and install of 1 no. of RCD in any switchboard / distribution board inclusive of all connections, additional space, etc.

Item No.	Rated Current (A)		30mA (RM)	100mA (RM)	300mA (RM)
i.	30	2 pole			
		4 pole			
ii.	40	2 pole			
		4 pole			
iii.	63	2 pole			
		4 pole			
iv.	100	2 pole			
		4 pole			

### **6.0 Steel Trunking**

Supply and install the following sizes of steel trunking per meter run complete with all necessary suspension, rods, brackets, or frame-work, bends, adaptors and all other accessories as necessary, including painting and continuous 1" x 1/8" earth-continuity bare copper tape:-

Item No.	Size (mm)	Thickness (1.0 mm) (RM)	Thickness (1.2 mm) (RM)	Thickness (1.4 mm) (RM)	Thickness (1.6 mm) (RM)
i.	50 X 25				
ii.	50 X 50				
iii.	75 X 25				
iv.	75 X 50				
v.	100 X 25				
vi.	100 X 50				
viii.	150 X 50				
ix.	150 X 75				
x.	150 X 100				
xi.	200 X 100				
xii.	250 X 100				
xiii.	250 X 150				
xiv.	300 X 100				
xv.	300 X 150				

## SCHEDULE OF UNIT RATES

### **7.0 Cable Tray**

Supply and install the following sizes of cable tray per meter run complete with all necessary suspension, rods, brackets, or frame-work, bends, adaptors and all other accessories as necessary, including painting and continuous 1" x 1/8" earth-continuity bare copper tape:-

Item No.	Size (mm)	Unit	Thickness (1.5mm) (RM)	Thickness (2.0mm) (RM)
i.	100			
ii.	150			
iii.	200			
iv.	300			
v.	450			
vi.	600			

### **8.0 Conduit**

Item No.	Description	Unit	Rate (RM)
<b>8.1</b>	<b>UPVC Conduit</b>		
i.	20mm Concealed Conduit	m	
ii.	25mm Concealed Conduit	m	
iii.	32mm Concealed Conduit	m	
iv.	38mm Concealed Conduit	m	
v.	20mm Surface Run Conduit	m	
vi.	25mm Surface Run Conduit	m	
vii.	32mm Surface Run Conduit	m	
viii.	38mm Surface Run Conduit	m	
<b>8.2</b>	<b>GI Conduit</b>		
i.	20mm Concealed Conduit	m	
ii.	25mm Concealed Conduit	m	
iii.	32mm Concealed Conduit	m	
iv.	38mm Concealed Conduit	m	
v.	20mm Surface Run Conduit	m	
vi.	25mm Surface Run Conduit	m	
vii.	32mm Surface Run Conduit	m	
viii.	38mm Surface Run Conduit	m	

## SCHEDULE OF UNIT RATES

### **9.0 Cable Ducts**

Rates quoted shall be for cable ducts comprising G.I. Pipes and UPVC pipes encased in concrete 4" all round and of internal diameter as stated below, laid not less than 2m below finished road surfaces. Rates shall also include for the trenching across roads and under the road site drains, the provision of cable draw-wires through ducts and the sealing of ducts after cables are laid. Every single item shall be filled in, even though such material on site may not be used in this project.

Item No.	Description	Unit	Rate (RM)
<b>9.1</b>	<b>G.I. Pipe</b>		
a.	1 no. 100mm (4") dia per metre run	m	
b	2 nos. 100mm (4") dia. laid in parallel per metre run	m	
c	3 nos. 100mm (4") dia. laid in parallel per metre run	m	
d	4 nos. 100mm (4") dia. laid in parallel per metre run	m	
e	1 no. 150mm (6") dia duct per metre run		
f	2 nos. 150mm (6") dia laid in parallel per metre run	m	
g	3 nos. 150mm (6") dia laid in parallel per metre run	m	
h	4 nos.150mm (6") dia laid in parallel per metre run	m	
i	2 layers 2 nos.150mm (6") dia per metre run	m	
j	2 layers 3 nos.150mm (6") dia per metre run	m	
k	2 layers 4 nos.150mm (6") dia per metre run	m	
l	3 layers 2 nos.150mm (6") dia per metre run	m	
m	3 layers 3 nos.150mm (6") dia per metre run	m	
n	3 layers 4 nos.150mm (6") dia per metre run	m	
o	4 layers 2 nos.150mm (6") dia per metre run	m	
p	4 layers 3 nos.150mm (6") dia per metre run	m	



## SCHEDULE OF UNIT RATES

### **9.0 Cable Ducts**

Rates quoted shall be for cable ducts comprising G.I. Pipes and UPVC pipes encased in concrete 4" all round and of internal diameter as stated below, laid not less than 2m below finished road surfaces. Rates shall also include for the trenching across roads and under the road site drains, the provision of cable draw-wires through ducts and the sealing of ducts after cables are laid. Every single item shall be filled in, even though such material on site may not be used in this project.

Item No.	Description	Unit	Rate (RM)
<b>9.2</b>	<b>UPVC Pipe</b>		
a.	1 no. 100mm (4") dia per metre run	m	
b	2 nos. 100mm (4") dia. laid in parallel per metre run	m	
c	3 nos. 100mm (4") dia. laid in parallel per metre run	m	
d	4 nos. 100mm (4") dia. laid in parallel per metre run	m	
e	1 no. 150mm (6") dia duct per metre run		
f	2 nos. 150mm (6") dia laid in parallel per metre run	m	
g	3 nos. 150mm (6") dia laid in parallel per metre run	m	
h	4 nos.150mm (6") dia laid in parallel per metre run	m	
i	2 layers 2 nos.150mm (6") dia per metre run	m	
j	2 layers 3 nos.150mm (6") dia per metre run	m	
k	2 layers 4 nos.150mm (6") dia per metre run	m	
l	3 layers 2 nos.150mm (6") dia per metre run	m	
m	3 layers 3 nos.150mm (6") dia per metre run	m	
n	3 layers 4 nos.150mm (6") dia per metre run	m	
o	4 layers 2 nos.150mm (6") dia per metre run	m	
p	4 layers 3 nos.150mm (6") dia per metre run	m	

## SCHEDULE OF UNIT RATES

### **9.0 Cable Ducts**

Rates quoted shall be for cable ducts comprising G.I. Pipes and UPVC pipes encased in concrete 4" all round and of internal diameter as stated below, laid not less than 2m below finished road surfaces. Rates shall also include for the trenching across roads and under the road site drains, the provision of cable draw-wires through ducts and the sealing of ducts after cables are laid. Every single item shall be filled in, even though such material on site may not be used in this project.

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Rate (RM)</b>
<b>9.3</b>	<b>HDPE Double Wall Corrugated Pipe</b>		
a.	1 no. 100mm (4") dia per metre run	m	
b	2 nos. 100mm (4") dia. laid in parallel per metre run	m	
c	3 nos. 100mm (4") dia. laid in parallel per metre run	m	
d	4 nos. 100mm (4") dia. laid in parallel per metre run	m	
e	1 no. 150mm (6") dia duct per metre run		
f	2 nos. 150mm (6") dia laid in parallel per metre run	m	
g	3 nos. 150mm (6") dia laid in parallel per metre run	m	
h	4 nos.150mm (6") dia laid in parallel per metre run	m	
i	2 layers 2 nos.150mm (6") dia per metre run	m	
j	2 layers 3 nos.150mm (6") dia per metre run	m	
k	2 layers 4 nos.150mm (6") dia per metre run	m	
l	3 layers 2 nos.150mm (6") dia per metre run	m	
m	3 layers 3 nos.150mm (6") dia per metre run	m	
n	3 layers 4 nos.150mm (6") dia per metre run	m	
o	4 layers 2 nos.150mm (6") dia per metre run	m	
p	4 layers 3 nos.150mm (6") dia per metre run	m	

## SCHEDULE OF UNIT RATES

### **9.0 Cable Ducts**

Rates quoted shall be for cable ducts comprising G.I. Pipes and UPVC pipes encased in concrete 4" all round and of internal diameter as stated below, laid not less than 2m below finished road surfaces. Rates shall also include for the trenching across roads and under the road site drains, the provision of cable draw-wires through ducts and the sealing of ducts after cables are laid. Every single item shall be filled in, even though such material on site may not be used in this project.

Item No.	Description	Unit	Rate (RM)
<b>9.4</b>	<b>HDPE PN10 Pipe</b>		
a.	1 no. 100mm (4") dia per metre run	m	
b	2 nos. 100mm (4") dia. laid in parallel per metre run	m	
c	3 nos. 100mm (4") dia. laid in parallel per metre run	m	
d	4 nos. 100mm (4") dia. laid in parallel per metre run	m	
e	1 no. 150mm (6") dia duct per metre run		
f	2 nos. 150mm (6") dia laid in parallel per metre run	m	
g	3 nos. 150mm (6") dia laid in parallel per metre run	m	
h	4 nos.150mm (6") dia laid in parallel per metre run	m	
i	2 layers 2 nos.150mm (6") dia per metre run	m	
j	2 layers 3 nos.150mm (6") dia per metre run	m	
k	2 layers 4 nos.150mm (6") dia per metre run	m	
l	3 layers 2 nos.150mm (6") dia per metre run	m	
m	3 layers 3 nos.150mm (6") dia per metre run	m	
n	3 layers 4 nos.150mm (6") dia per metre run	m	
o	4 layers 2 nos.150mm (6") dia per metre run	m	
p	4 layers 3 nos.150mm (6") dia per metre run	m	

## SCHEDULE OF UNIT RATES

### 10.0 Earthing and Lightning Protection System

Item No.	Description	Unit	Rate (RM)
1	To supply and install hard drawn solid copper, 16mm diameter, 1.2m length, extensible type, hardened steel tip, and driving head	No	
2	To supply and install hard drawn steel cored copper rod, 16mm diameter 1.2m length, extensible type, hardened steel tip, and driving head	No	
3	To supply and install concrete earth electrode inspection chamber c/w steel reinforced removable concrete cover	No	
4	To supply and install concrete earth electrode inspection chamber c/w chequer plate cover	No	
5	To supply and lay tinned copper tape earth conductor at 600mm deep in ground including trenching and backfilling	m	
6	To supply and install 25mm x 3mm tinned copper tape for roof and down conductor including brass saddle at interval not exceeding 1000mm	m	
7	To supply and install 25mm x 3mm tinned aluminum tape for roof and down conductor including brass saddle at interval not exceeding 1000mm	m	
8	To supply and install brass connection / junction clamp	No	
9	To supply and install air termination support	No	
10	To supply and install lightning carrier	m	
11	To supply and install lightning flash counter	No	
12	Exothermic Weld (cadweld)		
	- Copper tape to metal deck.	No	
	- Copper tape to earth electrode.	No	