NA

From: NA
Sent: Friday, June 06, 2008 4:37 PM
To: members_of_the_staff
Subject: REVISED MASTER SPECIFICATIONS

Attachments: E-S4 shd of rates.pdf; E-S7 shd of technical particulars.pdf

Our Ref: OM-SC/020

The Electrical Installation (NSC & DSC) master specifications have been updated as highlighted in red.

Schedule 4 – Schedule of Rates

E-S4 shd of ·ates.pdf (178 KB)..

Schedule 7 – Schedule of Technical Particulars

E-S7 shd of technical particul...

Regards,
NA

Alpha
Consulting Engineers Pte Ltd

FEEDBACK REPORT FORM

Ref No: 110-020608

To: RT From: LFY

Job No./Project: Master Specs - EI - Schedule of Rates *(where applicable)*

Source of feedback: _____

Scope of Feedback: *~~Quality System/Administrative/Contractual/Technical~~/Specification/~~Others~~

Section A : Problem & Cause

(1) Too many unit rates for cables, eg $8 \times 400mm^2/1C$, $4 \times 400mm^2/1C$
(2) To include extension of lighting pt and SSO from existing ect.
(3) Update CCTV unit rates - eg time lapse video recorder/outdated, └ CCTV cameras
(4) Update Card access ; (5) EPS carparking system to include.

Section B : Suggested Corrective Action

(1) Rationalise the unit rates, eg one $1 \times 400mm^2/1C$, then $8 \times 400mm^2/1C$, $4 \times 400mm^2/1C$ can be obtained from $1 \times 400mm^2/1C$
(2) ~~Erroneous~~ rates for extension of lighting & SSO from existing ect included
(3) Update items for CCTV
(4) " " " Card Access System

Section C: Approved Corrective Action

Approved By : _____ Date: 4/6/08

Section D : Action

Action By: NA

Targeted Completion: June 2008

Actual Completion: 5 June 2008 Verified By: _____

* *Delete as appropriate*

Distribution: | | | | | | |

ELECTRICAL INSTALLATION

SCHEDULE 4 - SCHEDULE OF RATES

05/06/08

Preamble

The prices in S$ as entered in the Schedule of Rates for the various works as detailed hereinafter will be used for any variation which may constitute adjustment (addition or subtraction) to the Sub-Contract Sum.

The rates quoted shall be for the 'Supply and Fixing' and shall cover all works to comply fully with the Sub-Contract (i.e. specifications, drawings, Conditions of Sub-Contract, etc.) and shall include all costs for incidental work, e.g. administration, project supervision, design, etc. and profits. The rates quoted shall be deemed to cover all associated items necessary for the completeness of the works inclusive of any wastage, etc.

(a) Prices for MCCBs, MCBs, RCCBs and Contactors shall include all connections, additional casing space, etc.

(b) Prices for cables shall include conduit, trunking or tray, where appropriate, cable boxes, glands, lugs, earth wire, jointings and connections, etc.

(c) Prices for lighting points shall include terminations, ceiling roses, etc.

(d) Prices for switches, switched socket outlets, TV and TV/FM outlets, telephone, data outlets and connection units shall include knock-out boxes, earth wires and fixing screws, etc.

(e) Prices for earth pits shall include securing the earth pits at the final level.

10/12/04

HV Switchgear

Code No.	Description	Unit Rate (S$)
E1001	1 no. 22kV receiving panel as specified excluding all external electrical connections only	
E1002	1 no. 22kV bus coupler as specified	
E1003	1 no. 22kV transformer panel as specified excluding all external electrical connections only	

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Cast Resin Power Transformer

1 no. 22/0.4 kV Type '**AN**' transformer as specified excluding all external electrical connections of the following capacity:-		
Code No.	Description	Unit Rate (S$)
E1101	2000 kVA	
E1102	1600 kVA	

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Cast Resin Power Transformer

1 no. 22/0.4 kV Type '**ANAF**' transformer as specified excluding all external electrical connections of the following capacity:-		
Code No.	Description	Unit Rate (S$)
E1121	2000 kVA	
E1122	1600 kVA	

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Oil Immersed Power Transformer

1 no. 22/0.4 kV Type '**KNAN**' transformer as specified excluding all external electrical connections of the following capacity:-		
Code No.	Description	Unit Rate (S$)
E1161	2000 kVA	
E1162	1600 kVA	

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HV Cabling

Code No.	Description	Unit Rate (S$)
E1201	1 x 300 sq mm 3 core double steel wire armoured 22kV XLPE cable run on horizontal/vertical cable ladder and/or framing system as specified - **per metre run**	
E1202	1 x 300 sq mm 3 core single steel wire armoured 22kV XLPE cable run on horizontal/vertical cable ladder and/or framing system as specified - **per metre run**	
E1203	1 x 185 sq mm 3 core double steel wire armoured 22kV XLPE cable run on horizontal/vertical cable ladder and/or framing system as specified - **per metre run**	
E1204	1 x 185 sq mm 3 core single steel wire armoured 22kV XLPE cable run on horizontal/vertical cable ladder and/or framing system as specified - **per metre run**	

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Air Circuit Breakers

Supply and installation of 1 no. ACB in low voltage switchboard inclusive of all connections, additional casing space, etc.		
Code No.	Description	Unit Rate (S$)
E1301	4000A 4P, 100 kA	
E1302	3000A 4P, 100 kA	
E1303	2500A 4P, 50 kA	
E1304	1600A 4P, 50 kA	

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LV Cabling - MI Cables

Heavy duty **MI** cables (exposed to touch) on vertical/horizontal cable tray/cable ladder as specified inclusive of supporting brackets, cable tray/cable ladder, clips/saddles, fixings, terminations, joints and accessories, surge diverters etc. of the following sizes, **per metre run**:		
Code No.	Description	Unit Rate (S$)
E1501	4 x 240 mm^2/1C	
E1502	4 x 185 mm^2/1C	
E1503	4 x 150 mm^2/1C	
E1504	4 x 95 mm^2/1C	
E1505	4 x 70 mm^2/1C	
E1506	4 x 50 mm^2/1C	
E1507	4 x 35 mm^2/1C	

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E1508	4 x 25 mm^2/1C	
E1509	4 x 16 mm^2/1C	
E1510	1 x 10 mm^2/4C	
E1511	1 x 6 mm^2/4C	
E1512	1 x 4 mm^2/4C	

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Automatic Transfer Switches

1 no. 4-Pole automatic transfer switch as specified of the following rating, per unit:		
Code No.	Description	Unit Rate (S$)
E3251	1200A	
E3252	1000A	
E3253	800A	
E3254	700A	
E3255	600A	
E3256	500A	
E3257	400A	
E3258	300A	
E3259	250A	

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MCCBs

Supply and installation of 1 no. outgoing or incoming MCCB in low-voltage switchboard inclusive of all connections, additional casing space, etc.		
Code No.	Description	Unit Rate (S$)
E3301	1200A TP, 50 kA	
E3302	1000A TP, 50 kA	
E3303	800A TP, 50 kA	
E3304	630A TP, 50 kA	
E3305	400A TP, 50 kA	
E3306	400A TP, 36 kA	
E3307	250A TP, 36 kA	
E3308	200A TP, 36 kA	
E3309	160A TP, 36 kA	
E3310	100A TP, 36 kA	

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MCBs

Supply and installation of 1 no. outgoing or incoming MCB of Type 'B' or Type 'C' tripping characteristic in any distribution board inclusive of all connections, additional casing space etc.		
Code No.	Description	Unit Rate (S$)
E3401	100A TP, 15 kA	
E3402	63A TP, 15 kA	
E3403	40A TP, 15 kA	
E3404	32A TP, 15 kA	
E3405	20A TP, 15kA	
E3406	10A TP, 15kA	
E3407	63A TP, 10 kA	
E3408	40A TP, 10 kA	
E3409	32A TP, 10 kA	
E3410	20A TP, 10 kA	
E3411	15A TP, 10 kA	
E3412	10A TP, 10 kA	
E3413	63A SP, 15 kA	
E3414	40A SP, 15 kA	
E3415	32A SP, 15 kA	
E3416	20A SP, 15 kA	
E3417	15A SP, 15 kA	
E3418	63A SP, 10 kA	
E3419	40A SP, 10 kA	
E3420	32A SP, 10 kA	
E3421	20A SP, 10 kA	
E3422	15A SP, 10 kA	
E3423	20A SP, 6 kA	
E3424	15A SP, 6 kA	
E3425	10A SP, 6 kA	

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RCCBs

Supply and installation of 1 no. RCCB in any distribution board inclusive of all connections, additional casing space, etc. of the following rating & sensitivity:		
Code No.	Description	Unit Rate (S$)
E3501	100A 4 Pole (100mA)	
E3502	80A 4 Pole (100mA)	
E3503	63A 4 Pole (100mA)	
E3504	40A 4 Pole (100mA)	
E3505	100A 4 Pole (30mA)	
E3506	80A 4 Pole (30mA)	
E3507	63A 4 Pole (30mA)	
E3508	40A 4 Pole (30mA)	
E3509	100A 2 Pole (30mA)	
E3510	80A 2 Pole (30mA)	
E3511	63A 2 Pole (30mA)	
E3512	40A 2 Pole (30mA)	

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Contactors

Supply and installation of 1 no. 25 A contactor to the outgoing circuits of any distribution board inclusive of auxiliary contacts, fuse, connection, internal wiring, etc. with the following no. of poles:		
Code No.	Description	Unit Rate (S$)
E3521	1 Pole	
E3522	2 Pole	
E3523	3 Pole	
E3524	4 Pole	

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Busbar Trunking - Feeder

Feeder busbar trunking inclusive of supporting brackets, fixings, fire barriers, expansion joints, termination unit, earth conductor, connections, etc. of the following rating, **per metre run**:		
Code No.	Description	Unit Rate (S$)
E2601	4000A 4 Pole	
E2602	3000A 4 Pole	
E2603	2500A 4 Pole	
E2604	2000A 4 Pole	
E2605	1600A 4 Pole	

E2606	1000A 4 Pole	

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Busbar Trunking - Vertical

Vertical busbar trunking (rising mains) inclusive of supporting brackets, fixings, fire barriers, expansion joints, trust block, tap-off parts, feed-in unit, earth conductor connections, etc. of the following rating, **per metre run**:		
Code No.	Description	Unit Rate (S$)
E2651	1600A 4 Pole	
E2652	1200A 4 Pole	
E2653	1000A 4 Pole	
E2654	700A 4 Pole	
E2655	600A 4 Pole	
E2656	400A 4 Pole	

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Busbar Trunking - Horizontal

Horizontal busbar trunking (sub-mains) inclusive of supporting brackets, fixings, fire barriers, expansion joints, tap-off parts, feed-in unit, earth conductor connections, etc. of the following rating, **per metre run**:		
Code No.	Description	Unit Rate (S$)
E2701	500A TPN	
E2702	400A TPN	
E2703	300A TPN	
E2704	200A TPN	

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Busbar Trunking - Tap-Offs

Plug-in tap-off units inclusive of HRC fuses, etc. of the following rating, per unit:		
Code No.	Description	Unit Rate (S$)
E2751	500A TPN	
E2752	400A TPN	
E2753	300A TPN	
E2754	200A TPN	
E2755	150A TPN	
E2756	100A TPN	
E2757	60A TPN	
E2758	40A TPN	
E2759	30A TPN	

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E2760	20A TPN	
E2761	60A SPN	
E2762	30A SPN	

10/12/04

LV Cabling - MI Cables

Heavy duty **MI** cables (exposed to touch) on vertical/horizontal cable tray/cable ladder as specified inclusive of supporting brackets, cable tray/cable ladder, clips/saddles, fixings, terminations, joints and accessories, surge diverters etc. of the following sizes, **per metre run**:		
Code No.	Description	Unit Rate (S$)
E1501	4 x 240 mm^2/1C	
E1502	4 x 185 mm^2/1C	
E1503	4 x 150 mm^2/1C	
E1504	4 x 95 mm^2/1C	
E1505	4 x 70 mm^2/1C	
E1506	4 x 50 mm^2/1C	
E1507	4 x 35 mm^2/1C	
E1508	4 x 25 mm^2/1C	
E1509	4 x 16 mm^2/1C	
E1510	1 x 10 mm^2/4C	
E1511	1 x 6 mm^2/4C	
E1512	1 x 4 mm^2/4C	

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LV Cabling - FR Cables

450/750 volt grade **FR** cables on vertical/horizontal cable tray/cable ladder run on surface inclusive of supporting brackets, tray/ladder fixing cleats, cable lugs, terminations, jointings, and accessories, earth wire, etc. of the following size, **per metre run**:		
Code No.	Description	Unit Rate (S$)
E1601	1 x 630 mm^2/1C	
E1602	1 x 500 mm^2/1C	
E1603	1 x 400 mm^2/1C	
E1604	1 x 300 mm^2/1C	
E1605	1 x 240 mm^2/1C	
E1606	1 x 185 mm^2/1C	
E1607	1 x 150 mm^2/1C	
E1608	1 x 120 mm^2/1C	
E1609	1 x 95 mm^2/1C	

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E1610	1 x 70 mm^2/1C	
E1611	1 x 35 mm^2/1C	

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LV Cabling - FR Cables

450/750 volt grade **FR** cables in GI conduit run concealed in floor slabs, columns, beams or walls inclusive of conduit fittings, earth wire termination, etc. of the following size, **per metre run**:		
Code No.	Description	Unit Rate (S$)
E1701	1 x 25 mm^2/1C	
E1702	1 x 16 mm^2/1C	
E1703	1 x 10 mm^2/1C	
E1704	1 x 6 mm^2/1C	
E1705	1 x 4 mm^2/1C	
E1706	1 x 2.5 mm^2/1C	

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LV Cabling - PVC/PVC Cables

450/750 volt grade **PVC/PVC** cables on vertical/horizontal cable ladder or tray inclusive of ladder/tray, accessories, earth wire, terminations, etc. of the following size, **per metre run**:		
Code No.	Description	Unit Rate (S$)
E1801	1 x 120 mm^2/1C	
E1802	1 x 95 mm^2/1C	
E1803	1 x 70 mm^2/1C	
E1804	1 x 50 mm^2/1C	

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LV Cabling - XLPE/PVC Cables

450/750 volt grade **XLPE/PVC** cables on vertical/horizontal cable ladder or tray inclusive of ladder /tray, accessories, earth wire, terminations, etc. of the following size, **per metre run**:		
Code No.	Description	Unit Rate (S$)
E1901	1 x 630 mm^2/1C	
E1902	1 x 500 mm^2/1C	
E1903	1 x 400 mm^2/1C	
E1904	1 x 300 mm^2/1C	
E1905	1 x 240 mm^2/1C	
E1906	1 x 185 mm^2/1C	
E1907	1 x 150 mm^2/1C	
E1908	1 x 120 mm^2/1C	

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E1909	1 x 95 mm^2/1C	
E1910	1 x 70 mm^2/1C	
E1911	1 x 50 mm^2/1C	

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LV Cabling - PVC Cables (surface)

450/750 volt grade **PVC** cables in GI conduit/trunking run on **surface** inclusive of conduit/trunking, accessories, earth wire, terminations, etc. of the following size, **per metre run**:		
Code No.	Description	Unit Rate (S$)
E2101	1 x 35 mm^2/1C	
E2102	1 x 25 mm^2/1C	
E2103	1 x 16 mm^2/1C	
E2104	1 x 10 mm^2/1C	
E2105	1 x 6 mm^2/1C	
E2106	1 x 4 mm^2/1C	
E2107	1 x 2.5 mm^2/1C	
E2108	1 x 25 mm^2/4C	
E2109	1 x 16 mm^2/4C	
E2110	1 x 10 mm^2/4C	
E2111	1 x 6 mm^2/4C	
E2112	1 x 4 mm^2/4C	
E2113	1 x 2.5 mm^2/4C	
E2114	1 x 25 mm^2/2C	
E2115	1 x 16 mm^2/2C	
E2116	1 x 10 mm^2/2C	
E2117	1 x 6 mm^2/2C	
E2118	1 x 4 mm^2/2C	

05/06/08

LV Cabling - PVC Cables (concealed)

450/750 volt grade **PVC** cables in UPVC conduit run **concealed** in floor slabs, columns, beams or walls inclusive of conduit fittings, earth wire termination, etc. of the following size, **per metre run**:		
Code No.	Description	Unit Rate (S$)
E2201	1 x 25 mm^2/1C	
E2202	1 x 16 mm^2/1C	
E2203	1 x 10 mm^2/1C	
E2204	1 x 6 mm^2/1C	

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E2205	1 x 4 mm^2/1C	
E2206	1 x 2.5 mm^2/1C	
E2207	1 x 6 mm^2/4C	
E2208	1 x 4 mm^2/4C	
E2209	1 x 2.5 mm^2/4C	
E2210	1 x 6 mm^2/2C	
E2211	1 x 4 mm^2/2C	
E2212	1 x 2.5 mm^2/2C	

05/06/08

LV Cabling - PVC/SWA/PVC

450/750 volt grade **PVC/SWA/PVC** cables laid underground inclusive of cable lugs, cable cover, markers, terminations, joints, accessories & backfilling as specified of the following size, **per metre run**:

Code No.	Description	Unit Rate (S$)
E2311	1 x 16 mm^2/4C	
E2312	1 x 10 mm^2/4C	
E2313	1 x 4 mm^2/4C	
E2314	1 x 2.5 mm^2/4C	
E2315	1 x 16 mm^2/2C	
E2316	1 x 10 mm^2/2C	
E2317	1 x 4 mm^2/2C	
E2318	1 x 2.5 mm^2/2C	

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UPVC Pipes

Heavy duty **UPVC** pipe buried underground including excavation, concrete encasement, reinstatement, etc. as specified of the following size, **per metre run**:

Code No.	Description	Unit Rate (S$)
E2351	1 no. 150 mm diameter	
E2352	1 no. 110 mm diameter	

05/06/08

Cable Ladders

Horizontal cable ladder inclusive of supporting brackets, fixing etc, **per metre run**:

Code No.	Description	Unit Rate (S$)
E4201	1000 mm	
E4202	800 mm	

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E4203	600 mm	

Vertical cable ladder inclusive of supporting brackets, fixing, etc. **per metre run**:		
Code No.	Description	Unit Rate (S$)
E4221	1000 mm	
E4222	800 mm	
E4223	600 mm	

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Cable Trays

Horizontal cable tray inclusive of supporting brackets, fixing etc, **per metre run**:		
Code No.	Description	Unit Rate (S$)
E4241	1000 mm	
E4242	800 mm	
E4243	600 mm	
E4244	400 mm	
E4245	300 mm	
E4246	200 mm	
E4247	150 mm	
E4248	100 mm	

Vertical cable tray inclusive of supporting brackets, fixing etc, **per metre run**:		
Code No.	Description	Unit Rate (S$)
E4261	1000 mm	
E4262	800 mm	
E4263	600 mm	
E4264	400 mm	
E4265	300 mm	
E4266	200 mm	
E4267	150 mm	
E4268	100 mm	

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19/11/07

LV Cabling - Final Circuits (Lighting)

Wiring to 1 no. ceiling/wall **lighting point** using the following type & size of cables in **surface/ concealed G.I.** conduit/trunking inclusive of earth wire, conduit/trunking & fittings, terminations, ceiling rose etc., (excluding switch):		
Code No.	Description	Unit Rate (S$)
E2401	2 x 1.5 mm^2/1C PVC	
E2402	2 x 2.5 mm^2/1C PVC	
E2403	2 x 2.5 mm^2/1C FR	
E2404	2 x 2.5 mm^2/1C FR together with a 1 x 1.5mm^2/1C PVC unswitched cable for maintained emergency light (excluding emergency light)	

05/06/08

Extension of 1 no. ceiling/wall **lighting point** from existing circuit using the following type & size of cables in **surface/ concealed G.I.** conduit/trunking inclusive of earth wire, conduit/trunking & fittings, terminations, ceiling rose etc., (excluding switch):		
Code No.	Description	Unit Rate (S$)
E2406	2 x 1.5 mm^2/1C PVC	
E2407	2 x 2.5 mm^2/1C PVC	
E2408	2 x 2.5 mm^2/1C FR	
E2409	2 x 2.5 mm^2/1C FR together with a 1 x 1.5mm^2/1C PVC unswitched cable for maintained emergency light (excluding emergency light)	

Wiring to 1 no. ceiling/wall **lighting point** using the following type & size of cables in **concealed UPVC** conduit inclusive of earth wire, conduit/trunking & fittings, terminations, ceiling rose etc., (excluding switch):		
Code No.	Description	Unit Rate (S$)
E2410	2 x 1.5 mm^2/1C PVC	
E2411	2 x 2.5 mm^2/1C PVC	
E2412	2 x 2.5 mm^2/1C FR	
E2413	2 x 2.5 mm^2/1C FR together with a 1 x 1.5 mm^2/1C PVC unswitched cable for maintained emergency light (excluding emergency light)	

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Extension of 1 no. ceiling/wall **lighting point** from existing circuit using the following type & size of cables in **concealed UPVC** conduit inclusive of earth wire, conduit/trunking & fittings, terminations, ceiling rose etc., (excluding switch):		
Code No.	Description	Unit Rate (S$)
E2416	2 x 1.5 mm^2/1C PVC	
E2417	2 x 2.5 mm^2/1C PVC	

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E2418	2 x 2.5 mm^2/1C FR	
E2419	2 x 2.5 mm^2/1C FR together with a 1 x 1.5 mm^2/1C PVC unswitched cable for maintained emergency light (excluding emergency light)	

Wiring from a cable transition/junction box to **1 no. outdoor** lighting point using PVC/SWA/PVC cables of the following size run underground including excavation, cable cover, markers, reinstatement, terminations, etc. as specified (excluding transition/junction box):

Code No.	Description	Unit Rate (S$)
E2451	1 x 2.5 mm^2/2C	
E2452	1 x 4 mm^2/2C	

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Extension of **1 no. outdoor** lighting point from existing circuit using PVC/SWA/PVC cables of the following size run underground including excavation, cable cover, markers, reinstatement, terminations, etc. as specified (excluding transition/junction box):

Code No.	Description	Unit Rate (S$)
E2456	1 x 2.5 mm^2/2C	
E2457	1 x 4 mm^2/2C	

Wiring from distribution board to cable transition/junction box (for subsequent running of armoured cables) using the following cable sizes run in concealed/ surface UPVC/GI conduits or trunkings including terminations, cable transition/ junction box, etc.

Code No.	Description	Unit Rate (S$)
E2445	2 x 2.5 mm^2/1C	
E2446	2 x 4 mm^2/1C	

19/11/07

LV Cabling - Final Circuits (Power)

Wiring to 1 no. **wall/column mounted power point** (ring or radial circuit) for the following type/ rating of switched socket outlets (SSO) & type/size of cables in **surface/concealed G.I.** conduit/ trunking inclusive of earth wire, conduit/trunking & fittings, terminations, etc. (excluding switch socket outlet):

Code No.	Description	Unit Rate (S$)
E2501	13A single SSO using 2 x 2.5 mm^2/1C PVC cable	
E2502	13A twin SSO using 2 x 2.5 mm^2/1C PVC cable	
E2503	13A single SSO using 2 x 2.5 mm^2/1C FR cable	
E2504	13A twin SSO using 2 x 2.5 mm^2/1C FR cable	
E2505	15A SSO using 2 x 2.5 mm^2/1C PVC cable	
E2506	15A SSO using 2 x 2.5 mm^2/1C FR cable	

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Extension of 1 no. **wall/column mounted power point** from existing circuit (ring or radial circuit) for the following type/ rating of switched socket outlets (SSO) & type/size of cables in **surface/ concealed G.I.** conduit/ trunking inclusive of earth wire, conduit/trunking & fittings, terminations, etc. (excluding switch socket outlet):		
Code No.	Description	Unit Rate (S$)
E2507	13A single SSO using 2 x 2.5 mm^2/1C PVC cable	
E2508	13A twin SSO using 2 x 2.5 mm^2/1C PVC cable	
E2509	13A single SSO using 2 x 2.5 mm^2/1C FR cable	
E2510	13A twin SSO using 2 x 2.5 mm^2/1C FR cable	
E2511	15A SSO using 2 x 2.5 mm^2/1C PVC cable	
E2512	15A SSO using 2 x 2.5 mm^2/1C FR cable	

Wiring to 1 no. **wall/column mounted power point** (ring or radial circuit) for the following type/rating of switched socket outlets (SSO) & type/size of cables in **concealed UPVC** conduit inclusive of earth wire, conduit/trunking & fittings, terminations, etc. (excluding switch socket outlet):		
Code No.	Description	Unit Rate (S$)
E2521	13A single SSO using 2 x 2.5 mm^2/1C PVC cable	
E2522	13A twin SSO using 2 x 2.5 mm^2/1C PVC cable	
E2523	13A single SSO using 2 x 2.5 mm^2/1C FR cable	
E2524	13A twin SSO using 2 x 2.5 mm^2/1C FR cable	
E2525	15A SSO using 2 x 2.5 mm^2/1C PVC cable	
E2526	15A SSO using 2 x 2.5 mm^2/1C FR cable	

05/06/08

Extension of 1 no. **wall/column mounted power point** from existing circuit (ring or radial circuit) for the following type/rating of switched socket outlets (SSO) & type/size of cables in **concealed UPVC** conduit inclusive of earth wire, conduit/trunking & fittings, terminations, etc. (excluding switch socket outlet):		
Code No.	Description	Unit Rate (S$)
E2527	13A single SSO using 2 x 2.5 mm^2/1C PVC cable	
E2528	13A twin SSO using 2 x 2.5 mm^2/1C PVC cable	
E2529	13A single SSO using 2 x 2.5 mm^2/1C FR cable	
E2530	13A twin SSO using 2 x 2.5 mm^2/1C FR cable	
E2531	15A SSO using 2 x 2.5 mm^2/1C PVC cable	
E2532	15A SSO using 2 x 2.5 mm^2/1C FR cable	

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Wiring to 1 no. floor **pedestal mounted power point** (ring or radial circuit) for the following type/rating of switched socket outlets (SSO) using 2 x 2.5mm^2/1C PVC cables via the flushfloor or underfloor trunking system inclusive of earth wire, fixings, terminations, etc. (excluding flushfloor or underfloor trunking, pedestal and switch socket outlet):		
Code No.	Description	Unit Rate (S$)
E2551	13A single SSO	
E2552	13A twin SSO	
E2553	15A single SSO	

05/06/08

Extension of 1 no. floor **pedestal mounted power point** from existing circuit (ring or radial circuit) for the following type/rating of switched socket outlets (SSO) using 2 x 2.5mm^2/1C PVC cables via the flushfloor or underfloor trunking system inclusive of earth wire, fixings, terminations, etc. (excluding flushfloor or underfloor trunking, pedestal and switch socket outlet):		
Code No.	Description	Unit Rate (S$)
E2554	13A single SSO	
E2555	13A twin SSO	
E2556	15A single SSO	

Code No.	Description	Unit Rate (S$)
E2561	Installation of 1 no. floor pedestal (single or twin) outlet to the flushfloor trunking system inclusive of drilling, fixing, etc. (excluding pedestal, flushfloor trunking & fixing accessories)	

05/06/08

LV Cabling - Final Circuits (Miscellaneous)

Code No.	Description	Unit Rate (S$)
E2571	Wiring to 1 no. DC door chime including bell push wiring using 2 x 1.5 mm^2/1C PVC cables in concealed G.I. conduit, inclusive of earth wire, conduit fittings, terminations, etc. (excluding chime & bell push)	
E2572	Wiring to 1 no. wall mounted 20A water heater switch and 20A unfused connection unit using 2 x 2.5 mm^2/1C PVC cables in concealed G.I. conduit inclusive of earth wire, terminations, etc. (excluding water heater switch connection unit)	
E2573	Wiring to 1 no. wall mounted 20A cooker control switch and 20A unfused connection unit using 2 x 2.5 mm^2/1C PVC cables in concealed G.I. conduit inclusive of earth wire, terminations, etc. (excluding cooker control switch & connection unit)	
E2574	Wiring to 1 no. wall mounted 32A cooker control switch and 32A unfused connection unit using 2 x 4 mm^2/1C PVC cables in concealed G.I. conduit inclusive of earth wire, terminations, etc.	

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	(excluding cooker control switch & connection unit)	

Wiring to 1 no. 13A fused connection unit using the following type & size of cable in **surface/ concealed G.I.** conduit/trunking inclusive of earth wire, conduit/trunking & fittings, terminations, etc. (excluding switch & fused connection unit):		
Code No.	Description	Unit Rate (S$)
E2575	2 x 2.5 mm^2/1C PVC	
E2576	2 x 2.5 mm^2/1C FR	

05/06/08

Code No.	Description	Unit Rate (S$)
E2577	Wiring to 1 no. DC door chime including bell push wiring using 2 x 1.5 mm^2/1C PVC cables in concealed UPVC conduit, inclusive of earth wire, conduit fittings, terminations, etc. (excluding chime & bell push)	
E2578	Wiring to 1 no. wall mounted 20A water heater switch and 20A unfused connection unit using 2 x 2.5 mm^2/1C PVC cables in concealed UPVC conduit inclusive of earth wire, terminations, etc. (excluding water heater switch & connection unit)	
E2579	Wiring to 1 no. wall mounted 20A cooker control switch and 20A unfused connection unit using 2 x 2.5 mm^2/1C PVC cables in concealed UPVC conduit inclusive of earth wire, terminations, etc. (excluding cooker control switch & connection unit)	
E2580	Wiring to 1 no. wall mounted 32A cooker control switch and 32A unfused connection unit using 2 x 4 mm^2/1C PVC cables in concealed UPVC conduit inclusive of earth wire, terminations, etc. (excluding cooker control switch & connection unit)	

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19/11/07

Distribution Boards

Distribution Boards as specified inclusive of incoming TPN, DP or SPN, MCB & RCCB, busbar, outgoing TP, DP or SP MCCBs/MCBs, contactors, connections, labels, etc. per unit:		
Code No.	Description	Unit Rate (S$)
E3001		
E3002		
E3003		
E3004		
E3005		
E3006		
E3007		
E3008		
E3009		
E3010		
E3011		
E3012		
E3013		
E3014		

19/11/07

Metering Panels/Boards

Metering Panels/Boards as specified inclusive of incoming TPN, DP or SPN MCCB, busbars, outgoing MCCBs/MCBs, HRC fuse cut-out unit, connections, labels, etc. per unit:		
Code No.	Description	Unit Rate (S$)
E3101		
E3102		
E3103		
E3104		
E3105		

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10/12/04

Cable Termination Boxes

Code No.	Description	Unit Rate (S$)
E3201	1 no. cable termination box as specified including 4 nos. HRC fuses and 3 nos. four way branching connectors.	

05/06/08

Wiring accessories, isolating switches etc.

1 no. flush mounted grid switch of white bakelite finish inclusive of accessories, etc.:		
Code No.	Description	Unit Rate (S$)
E3601	10A, 1 gang, 1 way	
E3602	10A, 2 gang, 1 way	
E3603	10A, 3 gang, 1 way	
E3604	10A, 4 gang, 1 way	
E3605	10A, 5 gang, 1 way	
E3606	20A, 1 gang, 1 way	
E3607	20A, 2 gang, 1 way	
E3608	20A, double pole, 1 way	

1 no. surface mounted metal-clad switch inclusive of accessories, etc.:		
Code No.	Description	Unit Rate (S$)
E3621	10A, 1 gang, 1 way	
E3622	10A, 2 gang, 1 way	
E3623	10A, 3 gang, 1 way	
E3624	10A, 4 gang, 1 way	
E3625	10A, 5 gang, 1 way	
E3626	10A, 6 gang, 1 way	
E3627	20A, 1 gang, 1 way	
E3628	20A, 2 gang, 1 way	
E3629	20A, double pole, 1 way	

1 no. IP 56 polycarbonate switch inclusive of accessories, etc.:		
Code No.	Description	Unit Rate (S$)
E3631	10A, 1 gang, 1 way	
E3632	20A, 1 gang, 1 way	

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1 no. flush mounted single phase switch socket outlet of white bakelite finish inclusive of accessories, etc.:		
Code No.	Description	Unit Rate (S$)
E3651	Single 13A	
E3652	Twin 13A	
E3653	Single 15A	
E3661	1 no. flush mounted 13A fused connection unit of white bakelite finish c/w fuse, accessories, etc.	
E3662	1 no. surface mounted metalclad 13A fused connection unit c/w fuse, accessories, etc.	

1 no. surface mounted metal-clad single phase switch socket outlet inclusive of accessories, etc.:		
Code No.	Description	Unit Rate (S$)
E3671	Single 13A	
E3672	Twin 13A	
E3673	Single 15A	

1 no. weatherproof (IP 56) surface mounted polycarbonate single phase switch socket outlet inclusive of accessories, plug top, etc. for installation on wall/column/partition:		
Code No.	Description	Unit Rate (S$)
E3681	Single 13A	
E3682	Twin 13A	
E3683	Single 15A	

1 no. polycarbonate isolating switch inclusive of accessories, etc of the following current rating:		
Code No.	Description	Unit Rate (S$)
E3691	100A TPN	
E3692	60A TPN	
E3693	30A TPN	
E3694	20A TPN	
E3695	15A TPN	
E3696	30A SPN	
E3697	20A SPN	
E3698	15A SPN	

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Code No.	Description	Unit Rate (S$)
E3700	1 no. 32A cooker unit as specified	
E3710	1 no. 32A cooker connector unit as specified	
E3720	1 no. 20A DP switch as specified and engraved with the wordings, "WATER HEATER", "HOOD", "HOB" or "OVEN" as required	
E3730	1 no. 20A connector unit as specified	
E3740	1 no. DC door chime as specified c/w fixing etc. excluding external wiring	
E3750	1 no. door bell push switch as specified excluding all external wiring	
E3751	1 no IP 55 clear plastic hinged cover for 13A switched socket outlet	

10/12/04

Ceiling Fans

Code No.	Description	Unit Rate (S$)
E3771	1 no. ceiling fan as specified inclusive of suspension rod, fixings, terminations, etc. (excluding wiring)	
E3772	1 no. fan speed regulator (excluding wiring)	
E3773	Wiring to 1 no. ceiling fan and regulator using 2 x 2.5 mm^2/1C PVC cables in surface/concealed G.I. conduit trunking inclusive of earth wire, conduit/trunking & fittings, terminations, etc.	
E3774	1 no. oscillating fan as specified inclusive of fixings, terminations, etc. (excluding wiring)	
E3775	Wiring to 1 no. oscillating fan using 2 x 2.5 mm^2/1C PVC cables in surface/concealed G.I. conduit trunking inclusive of earth wire, conduit/trunking & fittings, terminations, etc.	

30/11/95

Dimming System

Code No.	Description	Unit Rate (S$)
E3781	1 no. 1 kW dimmer unit as specified	
E3782	1 no. 2 kW dimmer unit as specified	
E3783	Wiring from dimmer unit to dimmer control panel, per metre run	

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30/11/95

Underfloor Ducting Installation

Underfloor duct as specified inclusive of connections, terminations, cuttings, solvent welding, plugging, fixings, clips, draw wires, accessories, etc. (excluding wiring within ducts)		
Code No.	Description	Unit Rate (S$)
E3801	1 way duct per metre run	
E3802	2 way duct per metre run	
E3803	3 way duct per metre run	
E3804	1 no. 3 x 3 or 3 x 2 way junction box complete with cover etc.	
E3805	1 no. 2 x 2 way junction box complete with cover etc.	
E3806	1 no. 1 x 1 way junction box complete with cover etc.	
E3807	1 no. 3 way flush vertical access box complete with cover etc.	
E3808	1 no. 3 way surface vertical access box complete with cover etc.	
E3809	1 no. 2 way flush vertical access box complete with cover etc.	
E3810	1 no. 2 way surface vertical access box complete with cover etc.	
E3811	1 no. 20 mm or 25 mm PVC conduit connected to ducts/junction boxes to pedestals including hacking and making good of floor screed, fixings, etc. (excluding pedestals, junction boxes, & ducts)	

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30/11/95

Luminaires

Supply and installation of 1 no. luminaire complete with all mounting bracket, suspension sets, flexible heat resistant cable, etc.:		
Code No.	Description	Unit Rate (S$)
E4001	Type 'A1'	
E4002	Type 'B1'	
E4003	Type 'B2'	
E4004	Type 'E1'	
E4005	Type 'E2'	
E4006	Type 'E3'	
E4007	Type 'E4'	
E4008	Type 'E5'	
E4009	Type 'E6'	
E4010	Type 'E7'	
E4011	Type 'F1'	
E4012	Type 'F1A'	
E4013	Type 'F2'	
E4014	Type 'F2A'	
E4015	Type 'F3'	
E4016	Type 'F3A'	
E4017	Type 'F4'	
E4018	Type 'F4A'	
E4019	Type 'F5'	
E4020	Type 'F6'	
E4021	Type 'F7'	
E4022	Type 'F8'	
E4023	Type 'F8A'	
E4024	Type 'F9'	
E4025	Type 'F9A'	
E4026	Type 'F10'	
E4027	Type 'F10A'	
E4028	Type 'F11'	

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Luminaires (cont'd)

Supply and installation of 1 no. lighting fitting complete with all mounting bracket, suspension sets, flexible heat resistant cable, etc.:		
Code No.	Description	Unit Rate (S$)
E4029	Type 'F11A'	
E4030	Type 'F12'	
E4031	Type 'F12A'	
E4032	Type 'F13'	
E4033	Type 'F14'	
E4034	Type 'F14A'	

30/11/95

Installation of Luminaires

Installation of luminaires covered under Provisional Sums, including taking delivery on site, checking on the consignments for defective items including arrangement for replacements by suppliers, storage at site, fixing of lamps, installation and site testing, replacements of lamps/tubes and defective parts/fittings during the Maintenance Period, provision of fixing accessories, mounting brackets, supports, r.c. stumps/bases, heat resistant flexible cords, etc:		
Code No.	Description	Unit Rate (S$)
E4101	Recessed downlight luminaries	
E4202	Recessed fluorescent luminaries	
E4103	Surface/wall mounted luminaries	
E4104	Free standing bollards	
E4105	Pole mounted luminaries	
E4106	Cold cathode lamps (including transformers, etc.) per metre run	
E4107	Floodlight luminaries	
E4108	Planter spike mounted luminaries	

05/06/08

Landscape Lighting

Code No.	Description	Unit Rate (S$)
E4151	1 no. outdoor junction box (IP65) complete with connectors for connection to outdoor lighting fitting	
E4152	1 no. O/G box c/w concrete plinth, etc. as specified (excluding distribution board)	

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30/11/95

Telephone Installation - Conduits

Surface/concealed G.I. conduits in false ceiling/floor slab/wall/column for telephone or other services cables inclusive of bending and cutting where necessary, terminations, fixings, pull/junction box, coupling, outlet box, draw wire etc. (excluding telephone outlet plates & telephone cables), **per metre run**:		
Code No.	Description	Unit Rate (S$)
E4281	50mm dia.	
E4282	32mm dia.	
E4283	25mm dia.	
E4284	20mm dia.	

Concealed UPVC conduits in ceiling/floor slab/wall/column for telephone or other services cables inclusive of bending and cutting where necessary, terminations, fixings, pull/junction box, coupling, outlet box, draw wire etc. (excluding telephone outlet plates & telephone cables), **per metre run**:		
Code No.	Description	Unit Rate (S$)
E4291	50mm dia.	
E4292	32mm dia.	
E4293	25mm dia.	
E4294	20mm dia.	

05/06/08

Telephone Installation - Distribution Cases

Distribution case/frame including "quick connection" type terminals, fixing, terminations, etc. (excluding external wiring) for:		
Code No.	Description	Unit Rate (S$)
E4301	100 pairs cable	
E4302	50 pairs cable	
E4303	30 pairs cable	
E4304	20 pairs cable	
E4305	10 pairs cable	

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30/11/95

Telephone Installation - Manholes

1 no. telephone manhole including excavation, etc. as specified		
Code No.	Description	Unit Rate (S$)
E4321	Type MC1	
E4322	Type MC2	
E4323	Type MC3	
E4324	Type MC4	

10/12/04

Telephone Installation – Cables (Cat 3)

Cat 3 cables run on trays or conduits inclusive of terminations, etc. (excluding trays & conduits), **per metre run:**		
Code No.	Description	Unit Rate (S$)
E4331	320 pairs	
E4332	200 pairs	
E4333	160 pairs	
E4334	80 pairs	
E4335	60 pairs	
E4336	40 pairs	
E4337	20 pairs	
E4338	10 pairs	

05/06/08

Telephone Installation – Cables

UTP cables run on trays or conduits inclusive of terminations, etc. (excluding trays & conduits), **per metre run**:		
Code No.	Description	Unit Rate (S$)
E4341	4 pairs Cat 5e	
E4342	4 pairs Cat 6	

05/06/08

Telephone/Data Installation – Telephone/Data Accessories

Code No.	Description	Unit Rate (S$)
E4351	1 no. telephone outlet plate (RJ11) including knockout box, etc.	
E4352	1 no. data outlet plate (RJ45) including knockout box, etc.	
E4353	1 no. block terminal	

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10/12/04

Earthing Installation

Code No.	Description	Unit Rate (S$)
E4401	50 mm x 6 mm main copper earthing bar c/w insulators, connection studs, etc. as specified per metre run	
E4402	25 mm x 3 mm copper tape inclusive of jointing, connections, accessories, etc. per metre run	
E4403	150 mm^2/1C yellow/green PVC insulated copper conductor cable inclusive of jointing, fixing, connections, etc. per metre run	
E4404	95 mm^2/1C yellow/green PVC insulated copper conductor cable inclusive of jointing, fixing, connections, etc. per metre run	
E4405	15 mm diameter extensible steel cored copper electrode inclusive of coupling, etc. – 1.5 metre length	
E4406	1 no. earthing pit (excluding earth rods)	
E4407	1 no. earthing pit of the double seal electrode type (excluding earth rods)	

10/12/04

Lightning Protection Installation

Roof conductor inclusive of insulators, jointings connections, accessories, etc. per metre run:		
Code No.	Description	Unit Rate (S$)
E4501	25mm x 3mm copper tape	
E4502	25mm x 3mm aluminium tape	

Down conductor inclusive of jointings, fixings, connections, accessories, etc. per metre run		
Code No.	Description	Unit Rate (S$)
E4503	25 mm x 3 mm copper tape	
E4504	25 mm x 3 mm aluminium tape	

Code No.	Description	Unit Rate (S$)
E4505	1 no. earthing pit as specified (excluding earth rods)	
E4506	1 no. earthing pit of the double seal electrode type (excluding earth rods)	

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05/06/08

Voice Communication System - Sound System

Code No.	Description	Unit Rate (S$)
E4601	1 no. 400 watt (r.m.s.) power amplifier excluding rack and external connections	
E4602	1 no. 240 watt (r.m.s.) power amplifier excluding rack and external connections	
E4603	1 no. 120 watt (r.m.s.) power amplifier excluding rack and external connections	
E4604	1 no. pre-amplifier excluding rack and external connections	
E4605	1 no. CD player excluding rack and external connections	
E4606	1 no. FM/AM radio tuner excluding rack and external connections	
E4607	1 no. recessed ceiling loudspeaker inclusive of matching transformer, enclosure, grille/baffle, mounting brackets, flexible heat resistant cable, etc. as specified	
E4608	1 no. surface/wall mounted loudspeaker inclusive of matching transformer, enclosure, grille/baffle, mounting brackets, flexible heat resistant cable, etc. as specified	
E4609	1 no. horn loudspeaker inclusive of matching transformer, mounting bracket, flexible heat resistant cable, etc. as specified	
E4610	Wiring to 1 no. loudspeaker point (ie. any recessed/surface/wall mounted loudspeaker or horn loudspeaker) using the cables as specified inclusive of conduit/trunking and fittings, accessories, terminations, etc. (excluding loudspeaker)	
E4611	1 no. line receptacle unit as specified	

30/11/95

Voice Communication System - Firemen Intercom System

Code No.	Description	Unit Rate (S$)
E4651	1 no. telephone set (slave unit) of the Firemen Intercom System with recessed or surface mounted enclosure as specified excluding all external connections	
E4652	Wiring to 1 no. slave unit point for the Firemen Intercom System using the cables as specified inclusive of conduit/trunking and fittings, accessories, terminations etc. (excluding slave unit)	

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30/11/95

MATV System

Code No.	Description	Unit Rate (S$)
E4801	1 no. TV/FM coaxial socket outlet as specified excluding all external connections	
E4802	1 no. 4 way tap-off unit as specified excluding all external connections	
E4803	1 no. 4 way splitter unit as specified excluding all external connections	
E4804	Wiring to 1 no. TV/FM coaxial socket outlet point using coaxial cables as specified inclusive of concealed or surface conduits and fittings, accessories, terminations, etc.	
E4805	1 no. TV antennae as specified excluding all external connections	

05/06/08

CCTV System

Code No.	Description	Unit Rate (S$)
E4901	1 no. 1/3 inch CCD dome type monochrome CCTV camera without pan & tilt mechanism c/w accessories, etc. as specified excluding all external connections	
E4902	1 no. 1/3 inch CCD monochrome CCTV camera without pan & tilt mechanism c/w accessories, etc. as specified excluding all external connections	
E4903	1 no. 1/3 inch CCD monochrome CCTV camera with pan & tilt mechanism c/w accessories, etc. as specified excluding all external connections	
E4904	1 no. 1/3 inch CCD dome type colour CCTV camera without pan & tilt mechanism c/w accessories, etc. as specified excluding all external connections	
E4905	1 no. 1/3 inch CCD colour CCTV camera without pan & tilt mechanism c/w accessories, etc. as specified excluding all external connections	
E4906	1 no. 1/3 inch CCD colour CCTV camera with pan & tilt mechanism c/w accessories, etc. as specified excluding all external connections	
E4907	1 no. 20 inch LCD monitor as specified excluding all external connections	
E4908	1 no digital video recorder as specified excluding external connections	
E4909	1 no. HDD as specified excluding all external connections	
E4910	1 no. remote camera controller as specified excluding all external connections	
E4911	Wiring to 1 no. CCTV camera (with or without pan & tilt mechanism) using the cables as specified inclusive of concealed or surface conduits /trunkings, fittings, accessories, terminations, etc. - **per metre run**	

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05/06/08

Card Access System

Code No.	Description	Unit Rate (S$)
E4921	1 no. door contact for single leaf swing door as specified excluding all external connections	
E4922	Door contact for a double leaf swing door as specified excluding all external connections	
E4923	1 no. movement detector as specified excluding all external connections	
E4924	1 no. panic button as specified excluding all external connections	
E4925	1 no. emergency break glass excluding all external connections	
E4926	1 no. proximity card reader as specified excluding all external connections	
E4927	1 no. proximity card as specified	
E4928	1 no. electric strike for door lock as specified excluding all external connections	
E4929	1 no. interface terminal as specified excluding all external connections for: (a) 8 monitored points	
	(b) 10 monitored points	
	(c) 12 monitored points	
	(d) 20 monitored points	
E4930	Wiring between central controller and interface terminals using the cable as specified inclusive of concealed/surface conduits/trunkings, fittings, accessories, terminations, etc. - **per metre run**	
E4931	Wiring between interface terminals and any monitored point (i.e. door contacts, movement detectors, etc.) using the cable as specified inclusive of conduits/trunkings, fittings, accessories, terminations, etc. - **per metre run**	
E4932	Wiring between interface terminals and any control point (i.e. lighting control etc.) using the cable as specified inclusive of conduits/trunkings, fittings, accessories, terminations, etc. - **per meter run**	

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05/06/08

Carpark Barrier System – Transponder System

Code No.	Description	Unit Rate (S$)
E4951	1 no. 3 m active reader as specified excluding all external connections	
E4952	1 no. 2 m passive reader as specified excluding all external connections	
E4953	1 no. universal mounting kit with pole including installation	
E4954	1 no. active transponder tag complete with holder and 3 colour printing	
E4955	1 no. passive transponder tag complete with holder and 3 colour printing	
E4956	1 no. carpark barrier unit with 4m straight boom complete with operating motor and barrier mounting as specified, excluding all external connections	
E4957	1 no. vehicle loop detector complete with loop sensing cable	

05/06/08

Carpark Barrier System – EPS System

Code No.	Description	Unit Rate (S$)
E4971	Supply and install 1 no. EPS antenna as specified	
E4972	Supply and install 1 no. carpark barrier unit with 4 m straight boom complete with operating motor and barrier mounting as specified	
E4973	1 no. vehicle loop detector complete with loop sensing cable.	

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30/11/95

Bedside Control Panel

Code No.	Description	Unit Rate (S$)
E5101	1 no. Bedside Control Panel complete with accessories, etc as specified excluding all external connection	
E5102	1 no. Living Room Control Panel complete with accessories, etc. as specified excluding all external connection	
E5103	1 no. Lobby Switch Panel complete with accessories, etc. as specified excluding all external connection	
E5104	1 no. Annunciation Panel complete with accessories, etc. as specified excluding all external connection	
E5105	1 no. Volume Control Panel complete with accessories, etc. as specified excluding all external connection	
E5106	1 no. Relay Control Panel complete with relays, contacts, ancillaries, etc. as specified excluding all external connection	
E5107	1 no. 1 Gang Switch Panel	
E5108	1 no. 2 Gang Switch Panel	
E5109	1 no. 3 Gang Switch Panel	
E5110	1 no. headphone jack	
E5111	1 no. TV controller	
E5112	1 no. key tag switch	
E5113	1 no. relay box	
E5114	Control wiring between the relay control panel and switch panel - per metre run	

10/12/04

Building Services Intercom System

Code No.	Description	Unit Rate (S$)
E4701	1 no. desk top telephone set as specified excluding all external connections	
E4702	1 no. recessed telephone set with lockable enclosure as specified excluding all external connections	
E4703	1 no. wall mounted telephone set with surface mounted lockable enclosure as specified excluding external connections	
E4704	Wiring to any 1 no. telephone set point using the cables as specified inclusive of conduit/trunking and fittings, accessories, terminations etc. (excluding telephone set)	

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