



(i) APK Library Installation of New Plugs Bill of Quantities

<b>University of Johannesburg</b>				
<b>SCHEDULE OF QUANTITIES</b>				
	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
<b>Bill No. 1</b>				
<b><u>Main Voltage Reticulation</u></b> <u>3 Phase Sub-Distribution Board</u> <b>IP55 Mild Steel Enclosures - Double Door Surface DB</b> , wall mounted, complete with support brackets, gland plates, padlocks, masking plates, labelling, main and insulated earth bus bars, and all applicable notices required by law, painting etc. Typical main breakers for feeds to sub DBs (250Ax1 main isolator, 20 Amps circuit breakers x 13) evenly balanced across 3 phases	Supply Item	4		
<b><u>Mains low Voltage Feeder Cables</u></b> 600/1000V PVC/PVC/SWA/PVC/CU Cable in shaft, cable rack or on surface, including strapping for clamping etc.	Supply (M)			
16mm <sup>2</sup> x 4c	m	1000		
10mm <sup>2</sup> x 4c	m	800		
4mm <sup>2</sup> x 4c	m	1200		

<b>Power &amp; Lighting Header Trunking</b> Trunking wiring channel as per specification powder coated (orange, blue, red, or black) complete with mounting brackets, supports, clip on cover plates, splicers, cut outs, grommets, wire retainers, knock outs, connections, painting, cutting etc. Trunking fixed to trusses/purlins at roof level.	Supply Item (M)	600m		
<b>EARTH CONDUCTORS</b> Copper Earth conductor on racking steelwork or strapped to cable (10mm <sup>2</sup> B.C.E.W)	Supply Item (M)	600m		
<b>Conductors</b> 600/1000 PVC insulated copper conductors into conduit, trunking, or power skirting, including conductors' identification labels, terminating etc.	Supply			
2.5mm <sup>2</sup> Conductors (1 core) 1 bundle (100m)	No.	50		
4mm <sup>2</sup> Conductors (1 core) 1 bundle (100m)	No.	30		
<b>110X 50 Single compartment power skirting/2 or 3M</b>	M	400m		
<b>End caps in 1 compartment power skirting</b>	No.	80		

<b>16A 3 pin switched socket outlet in power skirting</b>	No.	300		
<b>Twin and Earth cable 2.5m</b>	M	500		
<b>4Mm Wire Mesh Cable Tray</b> <b>300Mm(H),300Mm(W), Sd /3M</b>	M	200		
<b>Labour – Normal Hours</b>	Lot			
<b>Weekends (Saturday and Sunday)</b>	Hrs	32		
<b>After Hours</b>	Hrs	40		
<b>Issuing of COC's</b>	Item	4		
Single Line Drawings as built	Item	1		
Contingency at 5% of the total before Vat	Lot	@5%		
<b>Total Electrical Installation (Excluding VAT)</b>				<b>R</b>

(ii) APB Library Installation of New Plugs Bill of Quantities

<b>University of Johannesburg</b>				
<b>SCHEDULE OF QUANTITIES</b>				
	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
<b>Bill No. 1</b>				
<b>Main Voltage Reticulation</b> <b>3 Phase Sub-Distribution Board</b> <b>IP55 Mild Steel Enclosures - Double Door Surface DB, wall mounted, complete with support brackets,</b>				

gland plates, padlocks, masking plates, labelling, main and insulated earth bus bars, and all applicable notices required by law, painting etc. Typical main breakers for feeds to sub DBs (250Ax1 main isolator, 20 Amps circuit breakers x 13) evenly balanced across 3 phases	Supply Item	4		
<b><u>Mains low Voltage Feeder Cables</u></b> 600/1000V PVC/PVC/SWA/PVC/CU Cable in shaft, cable rack or on surface, including strapping for clamping etc.	Supply (M)			
16mm <sup>2</sup> x 4c	m	600		
10mm <sup>2</sup> x 4c	m	400		
4mm <sup>2</sup> x 4c	m	600		
<b><u>Power &amp; Lighting Header Trunking</u></b> Trunking wiring channel as per specification powder coated (orange, blue, red, or black) complete with mounting brackets, supports, clip on cover plates, splicers, cut outs, grommets, wire retainers, knock outs, connections, painting, cutting etc. Trunking fixed to trusses/purlins at roof level.	Supply Item (M)	400		
<b><u>EARTH CONDUCTORS</u></b> Copper Earth conductor on racking steelwork or strapped to cable (10mm <sup>2</sup> B.C.E.W)	Supply Item (M)	300m		
<b><u>Conductors</u></b> 600/1000 PVC insulated copper conductors into conduit, trunking, or	Supply			

power skirting, including conductors' identification labels, terminating etc.				
2.5mm <sup>2</sup> Conductors (1 core) 1 bundle (100m)	No.	30		
4mm <sup>2</sup> Conductors (1 core) 1 bundle (100m)	No.	30		
<b>110X 50 Single compartment power skirting/2 or 3M</b>	M	300m		
<b>End caps in 1 compartment power skirting</b>	No.	40		
<b>16A 3 pin switched socket outlet in power skirting</b>	No.	200		
<b>Twin and Earth cable 2.5m</b>	M	400		
<b>4Mm Wire Mesh Cable Tray 300Mm(H),300Mm(W), Sd /3M</b>	M	200		
<b>Labour – Normal Hours</b>	Lot			
<b>Weekends (Saturday and Sunday)</b>	Hrs	32		
<b>After Hours</b>	Hrs	40		
<b>Issuing of COC's</b>	Item	3		
Single Line Drawings as built	Item	1		
Contingency at 5% of the total before Vat	Lot	@5%		

<b>Total Electrical Installation (Excluding VAT)</b>				<b>R</b>
--	--	--	--	----------

(iii) DFC Library Installation of New Plugs Bill of Quantities

<b>University of Johannesburg</b>				
<b>SCHEDULE OF QUANTITIES</b>				
	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
<b>Bill No. 1</b>				
<b><u>Main Voltage Reticulation</u></b> <u>3 Phase Sub-Distribution Board</u> <b>IP55 Mild Steel Enclosures - Double Door Surface DB</b> , wall mounted, complete with support brackets, gland plates, padlocks, masking plates, labelling, main and insulated earth bus bars, and all applicable notices required by law, painting etc. Typical main breakers for feeds to sub DBs (250Ax1 main isolator, 20 Amps circuit breakers x 13) evenly balanced across 3 phases	Supply Item	3		
<b><u>Mains low Voltage Feeder Cables</u></b> 600/1000V PVC/PVC/SWA/PVC/CU Cable in shaft, cable rack or on surface, including strapping for clamping etc.	Supply (M)			
16mm <sup>2</sup> x 4c	m	800		
10mm <sup>2</sup> x 4c	m	600		
4mm <sup>2</sup> x 4c	m	600		
<b><u>Power &amp; Lighting Header Trunking</u></b> Trunking wiring channel as per specification powder coated (orange, blue, red, or black) complete with mounting brackets,	Supply Item (M)	200m		

supports, clip on cover plates, splicers, cut outs, grommets, wire retainers, knock outs, connections, painting, cutting etc. Trunking fixed to trusses/purlins at roof level.				
<b><u>EARTH CONDUCTORS</u></b> Copper Earth conductor on racking steelwork or strapped to cable (10mm <sup>2</sup> B.C.E.W)	Supply Item (M)	400m		
<b><u>Conductors</u></b> 600/1000 PVC insulated copper conductors into conduit, trunking, or power skirting, including conductors' identification labels, terminating etc.	Supply			
2.5mm <sup>2</sup> Conductors (1 core) 1 bundle (100m)	No.	30		
4mm <sup>2</sup> Conductors (1 core) 1 bundle (100m)	No.	30		
<b><u>110X 50 Single compartment power skirting/2 or 3M</u></b>	M	200m		
<b><u>End caps in 1 compartment power skirting</u></b>	No.	50		
<b><u>16A 3 pin switched socket outlet in power skirting</u></b>	No.	300		
<b><u>Twin and Earth cable 2.5m</u></b>	M	400		

<b>4Mm Wire Mesh Cable Tray</b>	M	400		
<b>300Mm(H),300Mm(W), Sd /3M</b>				
<b>Labour – Normal Hours</b>	Lot			
<b>Weekends (Saturday and Sunday)</b>	Hrs	32		
<b>After Hours</b>	Hrs	40		
<b>Issuing of COC's</b>	Item	4		
Single Line Drawings as built	Item	1		
Contingency at 5% of the total before Vat	Lot	@5%		
<b>Total Electrical Installation (Excluding VAT)</b>				<b>R</b>

(iv) SWC Library Installation of New Plugs Bill of Quantities

<b>University of Johannesburg</b>				
<b>SCHEDULE OF QUANTITIES</b>				
	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
<b>Bill No. 1</b>				
<b>Main Voltage Reticulation</b> <u>3 Phase Sub-Distribution Board</u> <b>IP55 Mild Steel Enclosures - Double Door Surface DB</b> , wall mounted, complete with support brackets, gland plates, padlocks, masking plates, labelling, main and insulated earth bus bars, and all applicable notices required by law, painting etc. Typical main breakers for feeds to sub DBs (250Ax1 main isolator, 20 Amps circuit breakers x 13) evenly balanced across 3 phases	Supply Item	4		



<b><u>Mains low Voltage Feeder Cables</u></b> 600/1000V PVC/PVC/SWA/PVC/CU Cable in shaft, cable rack or on surface, including strapping for clamping etc.	Supply (M)			
16mm <sup>2</sup> x 4c	m	400		
10mm <sup>2</sup> x 4c	m	600		
4mm <sup>2</sup> x 4c	m	800		
<b><u>Power &amp; Lighting Header Trunking</u></b> Trunking wiring channel as per specification powder coated (orange, blue, red, or black) complete with mounting brackets, supports, clip on cover plates, splicers, cut outs, grommets, wire retainers, knock outs, connections, painting, cutting etc. Trunking fixed to trusses/purlins at roof level.	Supply Item (M)	400m		
<b><u>EARTH CONDUCTORS</u></b> Copper Earth conductor on racking steelwork or strapped to cable (10mm <sup>2</sup> B.C.E.W)	Supply Item (M)	500m		
<b><u>Conductors</u></b> 600/1000 PVC insulated copper conductors into conduit, trunking, or power skirting, including conductors' identification labels, terminating etc.	Supply			
2.5mm <sup>2</sup> Conductors (1 core) 1 bundle (100m)	No.	30		
4mm <sup>2</sup> Conductors (1 core) 1 bundle (100m)	No.	10		

<b>110X 50 Single compartment power skirting/2 or 3M</b>	M	200m		
<b>End caps in 1 compartment power skirting</b>	No.	50		
<b>16A 3 pin switched socket outlet in power skirting</b>	No.	100		
<b>Twin and Earth cable 2.5m</b>	M	250		
<b>4Mm Wire Mesh Cable Tray 300Mm(H),300Mm(W), Sd /3M</b>	M	400		
<b>Labour – Normal Hours</b>	Lot			
<b>Weekends (Saturday and Sunday)</b>	Hrs	32		
<b>After Hours</b>	Hrs	40		
<b>Issuing of COC's</b>	Item	4		
Single Line Drawings as built	Item	1		
Contingency at 5% of the total before Vat	Lot	@5%		
<b>Total Electrical Installation (Excluding VAT)</b>				<b>R</b>