



**DEVELOPMENT BANK OF SOUTHERN AFRICA**

**RENOVATIONS AND REFURBISHMENT AT  
GOA KGANYA PRIMARY SCHOOL IN THE  
NORTH WEST PROVINCE**

**TENDER NO. RFP041/2022**

**ANNEXURE B – ELECTRICAL  
INSTALLATIONS**

Item	Description	Unit	Quantity	Rate	Amount
<b><u>BILL 1: RETICULATION AND DISTRIBUTION BOARDS</u></b>					
<b>Distribution Boards</b>					
Distribution boards complete with all MCBs, switchgear, accessories, sheet metal frames, sub-frames, busbars, terminals, wiring, conduit terminations, labelling, fixtures and fittings as specified, with all equipment fitted and equipped in factory all strictly as per schematic diagram.					
<i>(Please note that the distribution board's shop drawing should be submitted to the Engineer for approval prior to manufacture).</i>					
1,1	DB-A	Supply	No.	1	
1,2		Install	No.	1	
1,3	DB-2C	Supply	No.	1	
1,4		Install	No.	1	
1,5	DB-3CA	Supply	No.	1	
1,6		Install	No.	1	
1,7	DB-3CB	Supply	No.	1	
1,8		Install	No.	1	
1,9	DB-GH	Supply	No.	1	
1,10		Install	No.	1	
1,11	DB-GR	Supply	No.	1	
1,12		Install	No.	1	
1,13	DB-PR	Supply	No.	1	
1,14		Install	No.	1	
1,15	DB-MC	Supply	No.	1	
1,16		Install	No.	1	
1,17	DB-NC	Supply	No.	1	
1,18		Install	No.	1	
1,19	DB-SL	Supply	No.	1	
1,20		Install	No.	1	
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Low voltage cables</b>				
	600/1 000V PVC/PVC/SWA/PVC multi-core copper cable installed in sleeves (sleeves measured elsewhere)				
	50mm <sup>2</sup> 4 Core				
1,21	Supply	m	100		
1,22	Install	m	100		
	35mm <sup>2</sup> 4 Core				
1,23	Supply	m	120		
1,24	Install	m	120		
	25mm <sup>2</sup> 4 Core				
1,25	Supply	m	100		
1,26	Install	m	100		
	16mm <sup>2</sup> 4 Core				
1,27	Supply	m	280		
1,28	Install	m	280		
	10mm <sup>2</sup> 4 Core				
1,29	Supply	m	110		
1,30	Install	m	110		
	6mm <sup>2</sup> 4 Core				
1,31	Supply	m	200		
1,32	Install	m	200		
	10mm <sup>2</sup> 3 Core				
1,33	Supply	m	60		
1,34	Install	m	60		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
<b>Low voltage cable terminations</b>					
Make off and terminate the LV cable, complete with glands and shrouds including connection of cable to equipment terminals					
1,35	50mm <sup>2</sup> 4 Core	Supply	No.	2	
1,36		Install	No.	2	
1,37	35mm <sup>2</sup> 4 Core	Supply	No.	2	
1,38		Install	No.	2	
1,39	25mm <sup>2</sup> 4 Core	Supply	No.	2	
1,40		Install	No.	2	
1,41	16mm <sup>2</sup> 4 Core	Supply	No.	8	
1,42		Install	No.	8	
1,43	10mm <sup>2</sup> 4 Core	Supply	No.	4	
1,44		Install	No.	4	
1,45	6mm <sup>2</sup> 4 Core	Supply	No.	12	
1,46		Install	No.	12	
1,47	10mm <sup>2</sup> 3 Core	Supply	No.	2	
1,48		Install	No.	2	
<b>Earthing Conductors</b>					
Bare stranded copper earth conductor installed in sleeves (sleeves measured elsewhere)					
1,49	25mm <sup>2</sup>	Supply	m	220	
1,50		Install	m	220	
1,51	16mm <sup>2</sup>	Supply	m	100	
1,52		Install	m	100	
1,53	10mm <sup>2</sup>	Supply	m	280	
1,54		Install	m	280	
1,55	6mm <sup>2</sup>	Supply	m	310	
1,56		Install	m	310	
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Earthing conductor terminations</b>				
	Make off and terminate earth conductor, including lugs and connections				
	25mm <sup>2</sup>				
1,57	Supply	No.	4		
1,58	Install	No.	4		
	16mm <sup>2</sup>				
1,59	Supply	No.	2		
1,60	Install	No.	2		
	10mm <sup>2</sup>				
1,61	Supply	No.	8		
1,62	Install	No.	8		
	6mm <sup>2</sup>				
1,63	Supply	No.	16		
1,64	Install	No.	16		
	<b>Earth Rods</b>				
	SABS approved copper earth rod				
	1500mm long 16mm diameter				
1,65	Supply	No.	6		
1,66	Install	No.	6		
	<b>Sleeves</b>				
	Kabelflex high density (or equal and approved) polyethylene (HDPE) sleeve with double wall construction, corrugated outer wall and smooth inner wall finish inclusive of couplers, bends, etc				
	110mm diameter				
1,67	Supply	m	300		
1,68	Install	m	300		
	50mm diameter				
1,69	Supply	m	400		
1,70	Install	m	400		
	<b>Draw wires</b>				
	Draw wire drawn into sleeves and conduits including approximately 300mm slack in boxes, distribution board, etc.				
	1.6mm <sup>2</sup> Galvanised steel draw wire				
1,71	Supply	m	700		
1,72	Install	m	700		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Excavations</b>				
	<b>All excavations, back filling and compaction must be done manually using local labour</b>				
	Excavate for cable and sleeve trench including temporary support of sides, keeping excavations dry, backfilling and compacting to the Engineer's specification				
1,73	Pickable Soil	m <sup>3</sup>	800		
1,74	For Soft Rock	m <sup>3</sup>	10		
1,75	For Hard Rock	m <sup>3</sup>	5		
1,76	Bedding under and filling around cables comprising sifted sand	m <sup>3</sup>	100		
	<b>Cable Tape and Markers</b>				
	PVC warning marking tape				
1,77	Supply	m	1000		
1,78	Install	m	1000		
	Concrete route markers				
1,79	Supply	No.	35		
1,80	Install	No.	35		
	<b>Manholes complete with heavy duty trafficable covers</b>				
	600 x 600 x 800 mm				
1,81	Supply	No.	6		
1,82	Install	No.	6		
	<b>Area Lights</b>				
	Installed and mounted on poles, including poles, excavation to install poles, lamps, 5A circuit breaker and 2 x 2.5mm <sup>2</sup> PVC conductors from circuit breaker to luminaire on top of pole.				
	Type A3				
1,83	Supply	No.	25		
1,84	Install	No.	25		
	Type H				
1,85	Supply	No.	6		
1,86	Install	No.	6		
	<b>Galvanised steel conduits</b>				
	Galvanised steel conduit including bending, short lengths, draw boxes, cutting,bands, jointing, couplings, saddles and accessories as per SABS 1065. Fixed to surface or laid in or flush mounted in brickwork, dry walls (partitions), concrete, roof space or ceiling void. The rate to allow for the conduit mounting brackets to suspend conduits from concrete slab as would be required in the ceiling void.				
	20mm				
1,87	Supply	m	300		
1,88	Install	m	300		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Galvanised boxes</b>				
	Surface or flush mounted galvanised boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed chased in brickwork, on surface in ceiling or cast in concrete, excluding coverplates.				
	20mm				
1,89	Supply	No.	50		
1,90	Install	No.	50		
	<b>PVC insulated conductors</b>				
	600/1000V PVC insulated conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc.				
	2.5 mm <sup>2</sup>				
1,91	Supply	m	600		
1,92	Install	m	600		
	<b>Insulated earth conductors</b>				
	Earth conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc.				
	2.5 mm <sup>2</sup>				
1,93	Supply	m	300		
1,94	Install	m	300		
	<b>Photocell</b>				
	Photocell installed in a suitably sized rectangular bulkhead luminaire housing with clear UV stabilised high impact acrylic lens and labelling as specified				
	16A, 230V, Photocell				
1,95	Supply	No.	1		
1,96	Install	No.	1		
	<b>Testing and commissioning</b>				
1,97	Testing and commissioning of the works covered within this bill.	Item	1		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b><u>BILL 2: ADMINISTRATION BLOCK - ELECTRICAL INSTALLATIONS</u></b>					
<b>PVC conduits</b>					
PVC conduit including bending, short lengths, draw boxes, cutting,bands, jointing, couplings, saddles and accessories as per SABS 1065. Fixed to surface or laid in or flush mounted in brickwork, dry walls (partitions), concrete, roof space or ceiling void. The rate to allow for the conduit mounting brackets to suspend conduits from concrete slab as would be required in the ceiling void.					
20mm					
2,1	Supply	m	500		
2,2	Install	m	500		
25mm					
2,3	Supply	m	300		
2,4	Install	m	300		
<b>PVC round boxes</b>					
Surface or flush mounted 60mm deep PVC conduit round boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed in brickwork, on surface in ceiling void or cast in concrete inclusive of coverplates, where necessary.					
20mm					
2,5	Supply	No.	85		
2,6	Install	No.	85		
25mm					
2,7	Supply	No.	50		
2,8	Install	No.	50		
<b>Galvanised boxes</b>					
Surface or flush mounted galvanised boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed chased in brickwork, on surface in ceiling or cast in concrete, excluding coverplates.					
100 x 50 x 50mm					
2,9	Supply	No.	20		
2,10	Install	No.	20		
100 x 100 x 50mm					
2,11	Supply	No.	45		
2,12	Install	No.	45		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>PVC insulated conductors</b> 600/1000V PVC insulated conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc.				
	2.5 mm <sup>2</sup>				
2,13	Supply	m	1000		
2,14	Install	m	1000		
	4.0 mm <sup>2</sup>				
2,15	Supply	m	600		
2,16	Install	m	600		
	6.0 mm <sup>2</sup>				
2,17	Supply	m	100		
2,18	Install	m	100		
	<b>Insulated earth conductors</b> Earth conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc.				
	2.5 mm <sup>2</sup>				
2,19	Supply	m	500		
2,20	Install	m	500		
	4.0 mm <sup>2</sup>				
2,21	Supply	m	350		
2,22	Install	m	350		
	<b>Socket outlets</b> Socket outlet complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc				
	16A, 230V, 3-pin single switched socket outlet, 2-pin slimline switched socket outlet, flush wall mounted				
2,23	Supply	No.	24		
2,24	Install	No.	24		
	16A, 230V, 3-pin single switched socket outlet, 2-pin slimline switched socket outlet, flush wall mounted, weatherproof				
2,25	Supply	No.	1		
2,26	Install	No.	1		
	<b>Isolators</b> Isolator complete with box, cover plate and accessories.				
	20A DP Single phase isolator, flush mounted				
2,27	Supply	No.	1		
2,28	Install	No.	1		
	20A DP Single phase isolator, surface mounted				
2,29	Supply	No.	2		
2,30	Install	No.	2		
	20A DP Single phase isolator, surface mounted, weatherproof, IP56				
2,31	Supply	No.	1		
2,32	Install	No.	1		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Light switches</b>				
	Light switch complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc inclusive of termination of circuit wiring onto switch terminals.				
	16A, 230V, 1 Lever 1 Way				
2,33		Supply	No.	16	
2,34		Install	No.	16	
	16A, 230V, 1 Lever 2 Way				
2,35		Supply	No.	2	
2,36		Install	No.	2	
	16A, 230V, 2 Lever 1 Way				
2,37		Supply	No.	1	
2,38		Install	No.	1	
	<b>Photocell</b>				
	Photocell installed in a suitably sized rectangular bulkhead luminaire housing with clear UV stabilised high impact acrylic lens and labelling as specified				
	16A, 230V, Photocell				
2,39		Supply	No.	1	
2,40		Install	No.	1	
	<b>Light fittings</b>				
	SABS approved light fittings as per the specification, complete with lamps, machine or wood screws, bolts, installed and connected as specified. All fittings shall be similar or equal to (and subject to approval) the light fittings specified in the schedule of light fittings.				
	<i>Please note that all ceiling mounted light fittings shall be delivered with 3m of 1,5mm<sup>2</sup> flexible cable with a 5 amp 3 pin plug top fitted.</i>				
	Type A				
2,41		Supply	No.	4	
2,42		Install	No.	4	
	Type A2				
2,43		Supply	No.	24	
2,44		Install	No.	24	
	Type B				
2,45		Supply	No.	18	
2,46		Install	No.	18	
	Type B1				
2,47		Supply	No.	6	
2,48		Install	No.	6	
	Strong Room Entrance Bulkhead (Red Strobe)				
2,49		Supply	No.	1	
4,50		Install	No.	1	
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Telecommunications distribution board</b>				
	Flush mounted distribution board, lockable, complete with 20mm thick wooden back board				
	300 x 300 x 150mm deep				
2,51	Supply	No.	1		
2,52	Install	No.	1		
	<b>Telecommunications outlets</b>				
	Galvanised steel epoxy powder coated cradles and covers mounted on power skirting or wall complete with removable blank inserts.				
	RJ45 socket outlet - Wall Mounted				
2,53	Supply	No.	5		
2,54	Install	No.	5		
	Intercom speaker outlet - Wall Mounted				
2,55	Supply	No.	10		
2,56	Install	No.	10		
	<b>Testing and commissioning</b>				
2,57	Testing and commissioning of the works covered within this bill.	Item	1		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b><u>BILL 3: GRADE R CLASSROOM BLOCK - ELECTRICAL INSTALLATIONS</u></b>					
<b>PVC conduits</b>					
PVC conduit including bending, short lengths, draw boxes, cutting,bands, jointing, couplings, saddles and accessories as per SABS 1065. Fixed to surface or laid in or flush mounted in brickwork, dry walls (partitions), concrete, roof space or ceiling void. The rate to allow for the conduit mounting brackets to suspend conduits from concrete slab as would be required in the ceiling void.					
	20mm				
3,1	Supply	m	200		
3,2	Install	m	200		
	25mm				
3,3	Supply	m	100		
3,4	Install	m	100		
<b>PVC round boxes</b>					
Surface or flush mounted 60mm deep PVC conduit round boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed in brickwork, on surface in ceiling void or cast in concrete inclusive of coverplates, where necessary.					
	20mm				
3,5	Supply	No.	35		
3,6	Install	No.	35		
	25mm				
3,7	Supply	No.	18		
3,8	Install	No.	18		
<b>Galvanised boxes</b>					
Surface or flush mounted galvanised boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed chased in brickwork, on surface in ceiling or cast in concrete, excluding coverplates.					
	100 x 50 x 50mm				
3,9	Supply	No.	7		
3,10	Install	No.	7		
	100 x 100 x 50mm				
3,11	Supply	No.	14		
3,12	Install	No.	14		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>PVC insulated conductors</b> 600/1000V PVC insulated conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc. 2.5 mm <sup>2</sup>				
3,13	Supply	m	400		
3,14	Install	m	400		
	4.0 mm <sup>2</sup>				
3,15	Supply	m	200		
3,16	Install	m	200		
	6.0 mm <sup>2</sup>				
3,17	Supply	m	100		
3,18	Install	m	100		
	<b>Insulated copper earth conductors</b> Earth conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc. 2.5 mm <sup>2</sup>				
3,19	Supply	m	200		
3,20	Install	m	200		
	4.0 mm <sup>2</sup>				
3,21	Supply	m	150		
3,22	Install	m	150		
	<b>Socket outlets</b> Socket outlet complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc 16A, 230V, 3-pin single switched socket outlet, 2-pin slimline switched socket outlet, flush wall mounted				
3,23	Supply	No.	7		
3,24	Install	No.	7		
	<b>Isolators</b> Isolator complete with box, cover plate and accessories. 20A DP Single phase isolator, flush mounted				
3,25	Supply	No.	1		
3,26	Install	No.	1		
	20A DP Single phase isolator, surface mounted				
3,27	Supply	No.	1		
3,28	Install	No.	1		
	20A DP Single phase isolator, surface mounted, weatherproof, IP56				
3,29	Supply	No.	1		
3,30	Install	No.	1		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Light switches</b>				
	Light switch complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes,drilling, etc inclusive of termination of circuit wiring onto switch terminals.				
	16A, 230V, 1 Lever 1 Way				
3,31		Supply	No.	2	
3,32		Install	No.	2	
	16A, 230V, 1 Lever 2 Way				
3,33		Supply	No.	4	
3,34		Install	No.	4	
	16A, 230V, 2 Lever 1 Way				
3,35		Supply	No.	1	
3,36		Install	No.	1	
	<b>Photocell</b>				
	Photocell installed in a suitably sized rectangular bulkhead luminaire housing with clear UV stabilised high impact acrylic lens and labelling as specified				
	16A, 230V, Photocell				
3,37		Supply	No.	1	
3,38		Install	No.	1	
	<b>Light fittings</b>				
	SABS approved light fittings as per the specification, complete with lamps,machine or wood screws, bolts, installed and connected as specified. All fittings shall be similar or equal to (and subject to approval) the light fittings specified in the schedule of light fittings.				
	<i>Please note that all ceiling mounted light fittings shall be delivered with 3m of 1,5mm<sup>2</sup> flexible cabtyre with a 5 amp 3 pin plug top fitted.</i>				
	Type A				
3,39		Supply	No.	1	
3,40		Install	No.	1	
	Type A2				
3,41		Supply	No.	9	
3,42		Install	No.	9	
	Type B				
3,43		Supply	No.	7	
3,44		Install	No.	7	
	Type B1				
3,45		Supply	No.	4	
3,46		Install	No.	4	
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Telecommunications distribution board</b>				
	Flush mounted distribution board, lockable, complete with 20mm thick wooden back board				
	300 x 300 x 150mm deep				
3,47		Supply	No.	1	
3,48		Install	No.	1	
	<b>Telecommunications outlets</b>				
	Galvanised steel epoxy powder coated cradles and covers mounted on power skirting or wall complete with removable blank inserts.				
	Intercom speaker outlet - Wall Mounted				
3,49		Supply	No.	3	
3,50		Install	No.	3	
	<b>Testing and commissioning</b>				
3,51	Testing and commissioning of the works covered within this bill.	Item		1	
<b>TOTAL CARRIED FORWARD TO SUMMARY PAGE</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b><u>BILL 4: 3-CLASSROOM BLOCK A - ELECTRICAL INSTALLATIONS</u></b>					
<b>PVC conduits</b>					
PVC conduit including bending, short lengths, draw boxes, cutting,bands, jointing, couplings, saddles and accessories as per SABS 1065. Fixed to surface or laid in or flush mounted in brickwork, dry walls (partitions), concrete, roof space or ceiling void. The rate to allow for the conduit mounting brackets to suspend conduits from concrete slab as would be required in the ceiling void.					
	20mm				
4,1	Supply	m	200		
4,2	Install	m	200		
	25mm				
4,3	Supply	m	100		
4,4	Install	m	100		
<b>PVC round boxes</b>					
Surface or flush mounted 60mm deep PVC conduit round boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed in brickwork, on surface in ceiling void or cast in concrete inclusive of coverplates, where necessary.					
	20mm				
4,5	Supply	No.	35		
4,6	Install	No.	35		
	25mm				
4,7	Supply	No.	18		
4,8	Install	No.	18		
<b>Galvanised boxes</b>					
Surface or flush mounted galvanised boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed chased in brickwork, on surface in ceiling or cast in concrete, excluding coverplates.					
	100 x 50 x 50mm				
4,9	Supply	No.	3		
4,10	Install	No.	3		
	100 x 100 x 50mm				
4,11	Supply	No.	11		
4,12	Install	No.	11		
<b>PVC insulated conductors</b>					
600/1000V PVC insulated conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc.					
	2.5 mm <sup>2</sup>				
4,13	Supply	m	400		
4,14	Install	m	400		
	4.0 mm <sup>2</sup>				
4,15	Supply	m	200		
4,16	Install	m	200		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Insulated copper earth conductors</b>				
	Earth conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc.				
	2.5 mm <sup>2</sup>				
4,17	Supply	m	200		
4,18	Install	m	200		
	4.0 mm <sup>2</sup>				
4,19	Supply	m	100		
4,20	Install	m	100		
	<b>Socket outlets</b>				
	Socket outlet complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc				
	16A, 230V, 3-pin single switched socket outlet, 2-pin slimline switched socket outlet, flush wall mounted				
4,21	Supply	No.	6		
4,22	Install	No.	6		
	<b>Light switches</b>				
	Light switch complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc inclusive of termination of circuit wiring onto switch terminals.				
	16A, 230V, 1 Lever 1 Way				
4,23	Supply	No.	3		
4,24	Install	No.	3		
	<b>Photocell</b>				
	Photocell installed in a suitably sized rectangular bulkhead luminaire housing with clear UV stabilised high impact acrylic lens and labelling as specified				
	16A, 230V, Photocell				
4,25	Supply	No.	1		
4,26	Install	No.	1		
	<b>Light fittings</b>				
	SABS approved light fittings as per the specification, complete with lamps, machine or wood screws, bolts, installed and connected as specified. All fittings shall be similar or equal to (and subject to approval) the light fittings specified in the schedule of light fittings.				
	<i>Please note that all ceiling mounted light fittings shall be delivered with 3m of 1,5mm<sup>2</sup> flexible cabtyre with a 5 amp 3 pin plug top fitted.</i>				
	Type A2				
4,27	Supply	No.	18		
4,28	Install	No.	18		
	Type B1				
4,29	Supply	No.	8		
4,30	Install	No.	8		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Telecommunications distribution board</b>				
	Flush mounted distribution board, lockable, complete with 20mm thick wooden back board				
	300 x 300 x 150mm deep				
4,31		Supply	No.	1	
4,32		Install	No.	1	
	<b>Telecommunications outlets</b>				
	Galvanised steel epoxy powder coated cradles and covers mounted on power skirting or wall complete with removable blank inserts.				
	Intercom speaker outlet - Wall Mounted				
4,33		Supply	No.	4	
4,34		Install	No.	4	
	<b>Testing and commissioning</b>				
4,35	Testing and commissioning of the works covered within this bill.	Item		1	
<b>TOTAL CARRIED FORWARD TO SUMMARY PAGE</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b><u>BILL 5: 3-CLASSROOM BLOCK B - ELECTRICAL INSTALLATIONS</u></b>					
<b>PVC conduits</b>					
PVC conduit including bending, short lengths, draw boxes, cutting,bands, jointing, couplings, saddles and accessories as per SABS 1065. Fixed to surface or laid in or flush mounted in brickwork, dry walls (partitions), concrete, roof space or ceiling void. The rate to allow for the conduit mounting brackets to suspend conduits from concrete slab as would be required in the ceiling void.					
	20mm				
5,1	Supply	m	200		
5,2	Install	m	200		
	25mm				
5,3	Supply	m	100		
5,4	Install	m	100		
<b>PVC round boxes</b>					
Surface or flush mounted 60mm deep PVC conduit round boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed in brickwork, on surface in ceiling void or cast in concrete inclusive of coverplates, where necessary.					
	20mm				
5,5	Supply	No.	35		
5,6	Install	No.	35		
	25mm				
5,7	Supply	No.	18		
5,8	Install	No.	18		
<b>Galvanised boxes</b>					
Surface or flush mounted galvanised boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed chased in brickwork, on surface in ceiling or cast in concrete, excluding coverplates.					
	100 x 50 x 50mm				
5,9	Supply	No.	3		
5,10	Install	No.	3		
	100 x 100 x 50mm				
5,11	Supply	No.	11		
5,12	Install	No.	11		
<b>PVC insulated conductors</b>					
600/1000V PVC insulated conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc.					
	2.5 mm <sup>2</sup>				
5,13	Supply	m	400		
5,14	Install	m	400		
	4.0 mm <sup>2</sup>				
5,15	Supply	m	200		
5,16	Install	m	200		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Insulated copper earth conductors</b> Earth conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc. 2.5 mm <sup>2</sup>				
5,17	Supply	m	200		
5,18	Install	m	200		
	4.0 mm <sup>2</sup>				
5,19	Supply	m	100		
5,20	Install	m	100		
	<b>Socket outlets</b> Socket outlet complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc  16A, 230V, 3-pin single switched socket outlet, 2-pin slimline switched socket outlet, flush wall mounted				
5,21	Supply	No.	6		
5,22	Install	No.	6		
	<b>Light switches</b> Light switch complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc inclusive of termination of circuit wiring onto switch terminals.  16A, 230V, 1 Lever 1 Way				
5,23	Supply	No.	3		
5,24	Install	No.	3		
	<b>Photocell</b> Photocell installed in a suitably sized rectangular bulkhead luminaire housing with clear UV stabilised high impact acrylic lens and labelling as specified 16A, 230V, Photocell				
5,25	Supply	No.	1		
5,26	Install	No.	1		
	<b>Light fittings</b> SABS approved light fittings as per the specification, complete with lamps, machine or wood screws, bolts, installed and connected as specified. All fittings shall be similar or equal to (and subject to approval) the light fittings specified in the schedule of light fittings.  <i>Please note that all ceiling mounted light fittings shall be delivered with 3m of 1,5mm<sup>2</sup> flexible cable with a 5 amp 3 pin plug top fitted.</i>  Type A2				
5,27	Supply	No.	18		
5,28	Install	No.	18		
	Type B1				
5,29	Supply	No.	8		
5,30	Install	No.	8		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Telecommunications distribution board</b>				
	Flush mounted distribution board, lockable, complete with 20mm thick wooden back board				
	300 x 300 x 150mm deep				
5,31		Supply	No.	1	
5,32		Install	No.	1	
	<b>Telecommunications outlets</b>				
	Galvanised steel epoxy powder coated cradles and covers mounted on power skirting or wall complete with removable blank inserts.				
	Intercom speaker outlet - Wall Mounted				
5,33		Supply	No.	4	
5,34		Install	No.	4	
	<b>Testing and commissioning</b>				
5,35	Testing and commissioning of the works covered within this bill.	Item		1	
<b>TOTAL CARRIED FORWARD TO SUMMARY PAGE</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b><u>BILL 6: 2-CLASSROOM BLOCK - ELECTRICAL INSTALLATIONS</u></b>					
<b>PVC conduits</b>					
PVC conduit including bending, short lengths, draw boxes, cutting,bands, jointing, couplings, saddles and accessories as per SABS 1065. Fixed to surface or laid in or flush mounted in brickwork, dry walls (partitions), concrete, roof space or ceiling void. The rate to allow for the conduit mounting brackets to suspend conduits from concrete slab as would be required in the ceiling void.					
20mm					
6,1	Supply	m	200		
6,2	Install	m	200		
25mm					
6,3	Supply	m	100		
6,4	Install	m	100		
<b>PVC round boxes</b>					
Surface or flush mounted 60mm deep PVC conduit round boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed in brickwork, on surface in ceiling void or cast in concrete inclusive of coverplates, where necessary.					
20mm					
6,5	Supply	No.	35		
6,6	Install	No.	35		
25mm					
6,7	Supply	No.	18		
6,8	Install	No.	18		
<b>Galvanised boxes</b>					
Surface or flush mounted galvanised boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed chased in brickwork, on surface in ceiling or cast in concrete, excluding coverplates.					
100 x 50 x 50mm					
6,9	Supply	No.	4		
6,10	Install	No.	4		
100 x 100 x 50mm					
6,11	Supply	No.	11		
6,12	Install	No.	11		
<b>PVC insulated conductors</b>					
600/1000V PVC insulated conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc.					
2.5 mm <sup>2</sup>					
6,13	Supply	m	400		
6,14	Install	m	400		
4.0 mm <sup>2</sup>					
6,15	Supply	m	200		
6,16	Install	m	200		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Insulated copper earth conductors</b> Earth conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc. 2.5 mm <sup>2</sup>				
6,17	Supply	m	200		
6,18	Install	m	200		
	4.0 mm <sup>2</sup>				
6,19	Supply	m	100		
6,20	Install	m	100		
	<b>Socket outlets</b> Socket outlet complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc  16A, 230V, 3-pin single switched socket outlet, 2-pin slimline switched socket outlet, flush wall mounted				
6,21	Supply	No.	7		
6,22	Install	No.	7		
	<b>Light switches</b> Light switch complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc inclusive of termination of circuit wiring onto switch terminals.  16A, 230V, 1 Lever 1 Way				
6,23	Supply	No.	4		
6,24	Install	No.	4		
	<b>Photocell</b> Photocell installed in a suitably sized rectangular bulkhead luminaire housing with clear UV stabilised high impact acrylic lens and labelling as specified 16A, 230V, Photocell				
6,25	Supply	No.	1		
6,26	Install	No.	1		
	<b>Light fittings</b> SABS approved light fittings as per the specification, complete with lamps, machine or wood screws, bolts, installed and connected as specified. All fittings shall be similar or equal to (and subject to approval) the light fittings specified in the schedule of light fittings.  <i>Please note that all ceiling mounted light fittings shall be delivered with 3m of 1,5mm<sup>2</sup> flexible cable with a 5 amp 3 pin plug top fitted.</i>				
	Type A2				
6,27	Supply	No.	14		
6,28	Install	No.	14		
	Type B1				
6,29	Supply	No.	8		
6,30	Install	No.	8		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Telecommunications distribution board</b>				
	Flush mounted distribution board, lockable, complete with 20mm thick wooden back board				
	300 x 300 x 150mm deep				
6,31	Supply	No.	1		
6,32	Install	No.	1		
	<b>Telecommunications outlets</b>				
	Galvanised steel epoxy powder coated cradles and covers mounted on power skirting or wall complete with removable blank inserts.				
	Intercom speaker outlet - Wall Mounted				
6,33	Supply	No.	3		
6,34	Install	No.	3		
	<b>Testing and commissioning</b>				
6,35	Testing and commissioning of the works covered within this bill.	Item	1		
<b>TOTAL CARRIED FORWARD TO SUMMARY PAGE</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b><u>BILL 7: SCIENCE LABORATORY BLOCK - ELECTRICAL INSTALLATIONS</u></b>					
<b>PVC conduits</b>					
PVC conduit including bending, short lengths, draw boxes, cutting,bands, jointing, couplings, saddles and accessories as per SABS 1065. Fixed to surface or laid in or flush mounted in brickwork, dry walls (partitions), concrete, roof space or ceiling void. The rate to allow for the conduit mounting brackets to suspend conduits from concrete slab as would be required in the ceiling void.					
	20mm				
7,1		Supply	m	200	
7,2		Install	m	200	
	25mm				
7,3		Supply	m	300	
7,4		Install	m	300	
<b>PVC round boxes</b>					
Surface or flush mounted 60mm deep PVC conduit round boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed in brickwork, on surface in ceiling void or cast in concrete inclusive of coverplates, where necessary.					
	20mm				
7,5		Supply	No.	35	
7,6		Install	No.	35	
	25mm				
7,7		Supply	No.	50	
7,8		Install	No.	50	
<b>Galvanised boxes</b>					
Surface or flush mounted galvanised boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed chased in brickwork, on surface in ceiling or cast in concrete, excluding coverplates.					
	100 x 50 x 50mm				
7,9		Supply	No.	3	
7,10		Install	No.	3	
	100 x 100 x 50mm				
7,11		Supply	No.	3	
7,12		Install	No.	3	
<b>Power skirting</b>					
Galvanised steel epoxy powder coated power skirting complete with separate straight cover plates					
	1-Compartment 1-Cover				
7,13		Supply	m	80	
7,14		Install	m	80	
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Power skirting Accessories</b>				
	Galvanised steel epoxy powder coated power skirting accessories				
	1-Compartment 1-Cover Elbows				
7,15		Supply	No.	2	
7,16		Install	No.	2	
	1-Compartment 1-Cover Tees				
7,17		Supply	No.	6	
7,18		Install	No.	6	
	1-Compartment 1-Cover End Caps				
7,19		Supply	No.	10	
7,20		Install	No.	10	
	<b>PVC insulated conductors</b>				
	600/1000V PVC insulated conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc.				
	2.5 mm <sup>2</sup>				
7,21		Supply	m	400	
7,22		Install	m	400	
	4.0 mm <sup>2</sup>				
7,23		Supply	m	600	
7,24		Install	m	600	
	<b>Insulated copper earth conductors</b>				
	Earth conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc.				
	2.5 mm <sup>2</sup>				
7,25		Supply	m	200	
7,26		Install	m	200	
	4.0 mm <sup>2</sup>				
7,27		Supply	m	300	
7,28		Install	m	300	
	<b>Socket outlets</b>				
	Socket outlet complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc				
	16A, 230V, 3-pin single switched socket outlet, 2-pin slimline switched socket outlet, flush wall mounted				
7,29		Supply	No.	2	
7,30		Install	No.	2	
	16A, 230V, 3-pin single switched socket outlet, 2-pin slimline switched socket outlet, skirting mounted				
7,31		Supply	No.	32	
7,32		Install	No.	32	
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Light switches</b>				
	Light switch complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc inclusive of termination of circuit wiring onto switch terminals.				
	16A, 230V, 1 Lever 1 Way				
7,33		Supply	No.	3	
7,34		Install	No.	3	
	<b>Photocell</b>				
	Photocell installed in a suitably sized rectangular bulkhead luminaire housing with clear UV stabilised high impact acrylic lens and labelling as specified				
	16A, 230V, Photocell				
7,35		Supply	No.	1	
7,36		Install	No.	1	
	<b>Light fittings</b>				
	SABS approved light fittings as per the specification, complete with lamps, machine or wood screws, bolts, installed and connected as specified. All fittings shall be similar or equal to (and subject to approval) the light fittings specified in the schedule of light fittings.				
	<i>Please note that all ceiling mounted light fittings shall be delivered with 3m of 1,5mm<sup>2</sup> flexible cabtyre with a 5 amp 3 pin plug top fitted.</i>				
	Type A2				
7,37		Supply	No.	10	
7,38		Install	No.	10	
	Type B1				
7,39		Supply	No.	6	
7,40		Install	No.	6	
	<b>Telecommunications distribution board</b>				
	Flush mounted distribution board, lockable, complete with 20mm thick wooden back board				
	300 x 300 x 150mm deep				
7,41		Supply	No.	1	
7,42		Install	No.	1	
	<b>Telecommunications outlets</b>				
	Galvanised steel epoxy powder coated cradles and covers mounted on power skirting or wall complete with removable blank inserts.				
	Intercom speaker outlet - Wall Mounted				
7,43		Supply	No.	1	
7,44		Install	No.	1	
	<b>Testing and commissioning</b>				
7,45	Testing and commissioning of the works covered within this bill.	Item		1	
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b><u>BILL 8: NUTRITION CENTRE BLOCK - ELECTRICAL INSTALLATIONS</u></b>					
<b>PVC conduits</b>					
PVC conduit including bending, short lengths, draw boxes, cutting,bands, jointing, couplings, saddles and accessories as per SABS 1065. Fixed to surface or laid in or flush mounted in brickwork, dry walls (partitions), concrete, roof space or ceiling void. The rate to allow for the conduit mounting brackets to suspend conduits from concrete slab as would be required in the ceiling void.					
20mm					
8,1	Supply	m	500		
8,2	Install	m	500		
25mm					
8,3	Supply	m	200		
8,4	Install	m	200		
<b>PVC round boxes</b>					
Surface or flush mounted 60mm deep PVC conduit round boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed in brickwork, on surface in ceiling void or cast in concrete inclusive of coverplates, where necessary.					
20mm					
8,5	Supply	No.	85		
8,6	Install	No.	85		
25mm					
8,7	Supply	No.	35		
8,8	Install	No.	35		
<b>Galvanised boxes</b>					
Surface or flush mounted galvanised boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed chased in brickwork, on surface in ceiling or cast in concrete, excluding coverplates.					
100 x 50 x 50mm					
8,9	Supply	No.	18		
8,10	Install	No.	18		
100 x 100 x 50mm					
8,11	Supply	No.	20		
8,12	Install	No.	20		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>PVC insulated conductors</b> 600/1000V PVC insulated conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc. 2.5 mm <sup>2</sup>				
8,13	Supply	m	1000		
8,14	Install	m	1000		
	4.0 mm <sup>2</sup>				
8,15	Supply	m	400		
8,16	Install	m	400		
	6.0 mm <sup>2</sup>				
8,17	Supply	m	100		
8,18	Install	m	100		
	<b>Insulated earth conductors</b> Earth conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc. 2.5 mm <sup>2</sup>				
8,19	Supply	m	500		
8,20	Install	m	500		
	4.0 mm <sup>2</sup>				
8,21	Supply	m	250		
8,22	Install	m	250		
	<b>Socket outlets</b> Socket outlet complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc 16A, 230V, 3-pin single switched socket outlet, 2-pin slimline switched socket outlet, flush wall mounted				
8,23	Supply	No.	10		
8,24	Install	No.	10		
	16A, 230V, 3-pin single switched socket outlet, 2-pin slimline switched socket outlet, flush wall mounted, weatherproof				
8,25	Supply	No.	2		
8,26	Install	No.	2		
	<b>Isolators</b> Isolator complete with box, cover plate and accessories. 20A DP Single phase isolator, flush mounted				
8,27	Supply	No.	1		
8,28	Install	No.	1		
	20A DP Single phase isolator, surface mounted				
8,29	Supply	No.	2		
8,30	Install	No.	2		
	20A DP Single phase isolator, surface mounted, weatherproof, IP56				
8,31	Supply	No.	1		
8,32	Install	No.	1		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Light switches</b>				
	Light switch complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes,drilling, etc inclusive of termination of circuit wiring onto switch terminals.				
	16A, 230V, 1 Lever 1 Way				
8,33		Supply	No.	10	
8,34		Install	No.	10	
	16A, 230V, 1 Lever 2 Way				
8,35		Supply	No.	6	
8,36		Install	No.	6	
	16A, 230V, 2 Lever 1 Way				
8,37		Supply	No.	1	
8,38		Install	No.	1	
	<b>Photocell</b>				
	Photocell installed in a suitably sized rectangular bulkhead luminaire housing with clear UV stabilised high impact acrylic lens and labelling as specified				
	16A, 230V, Photocell				
8,39		Supply	No.	1	
8,40		Install	No.	1	
	<b>Light fittings</b>				
	SABS approved light fittings as per the specification, complete with lamps,machine or wood screws, bolts, installed and connected as specified. All fittings shall be similar or equal to (and subject to approval) the light fittings specified in the schedule of light fittings.				
	<i>Please note that all ceiling mounted light fittings shall be delivered with 3m of 1,5mm<sup>2</sup> flexible cabtyre with a 5 amp 3 pin plug top fitted.</i>				
	Type A				
8,41		Supply	No.	1	
8,42		Install	No.	1	
	Type A2				
8,43		Supply	No.	30	
8,44		Install	No.	30	
	Type B				
8,45		Supply	No.	13	
8,46		Install	No.	13	
	Type B1				
8,47		Supply	No.	8	
8,48		Install	No.	8	
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Telecommunications distribution board</b>				
	Flush mounted distribution board, lockable, complete with 20mm thick wooden back board				
	300 x 300 x 150mm deep				
8,49	Supply	No.	1		
8,50	Install	No.	1		
	<b>Telecommunications outlets</b>				
	Galvanised steel epoxy powder coated cradles and covers mounted on power skirting or wall complete with removable blank inserts.				
	Intercom speaker outlet - Wall Mounted				
8,51	Supply	No.	3		
8,52	Install	No.	3		
	<b>Testing and commissioning</b>				
8,53	Testing and commissioning of the works covered within this bill.	Item	1		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
	<b><u>BILL 9: MEDIA CENTRE BLOCK - ELECTRICAL INSTALLATIONS</u></b>				
	<b>PVC conduits</b>				
	PVC conduit including bending, short lengths, draw boxes, cutting,bands, jointing, couplings, saddles and accessories as per SABS 1065. Fixed to surface or laid in or flush mounted in brickwork, dry walls (partitions), concrete, roof space or ceiling void. The rate to allow for the conduit mounting brackets to suspend conduits from concrete slab as would be required in the ceiling void.				
	20mm				
9,1	Supply	m	200		
9,2	Install	m	200		
	25mm				
9,3	Supply	m	200		
9,4	Install	m	200		
	<b>PVC round boxes</b>				
	Surface or flush mounted 60mm deep PVC conduit round boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed in brickwork, on surface in ceiling void or cast in concrete inclusive of coverplates, where necessary.				
	20mm				
9,5	Supply	No.	35		
9,6	Install	No.	35		
	25mm				
9,7	Supply	No.	35		
9,8	Install	No.	35		
	<b>Galvanised boxes</b>				
	Surface or flush mounted galvanised boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed chased in brickwork, on surface in ceiling or cast in concrete, excluding coverplates.				
	100 x 50 x 50mm				
9,9	Supply	No.	3		
9,10	Install	No.	3		
	100 x 100 x 50mm				
9,11	Supply	No.	4		
9,12	Install	No.	4		
	<b>Power skirting</b>				
	Galvanised steel epoxy powder coated power skirting complete with separate straight cover plates				
	2-Compartment 2-Cover				
9,13	Supply	m	30		
9,14	Install	m	30		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Power skirting Accessories</b>				
	Galvanised steel epoxy powder coated power skirting accessories				
	2-Compartment 2-Cover Elbows				
9,15		Supply	No.	2	
9,16		Install	No.	2	
	2-Compartment 2-Cover Tees				
9,17		Supply	No.	6	
9,18		Install	No.	6	
	2-Compartment 2-Cover End Caps				
9,19		Supply	No.	10	
9,20		Install	No.	10	
	<b>PVC insulated conductors</b>				
	600/1000V PVC insulated conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc.				
	2.5 mm <sup>2</sup>				
9,21		Supply	m	400	
9,22		Install	m	400	
	4.0 mm <sup>2</sup>				
9,23		Supply	m	400	
9,24		Install	m	400	
	<b>Insulated copper earth conductors</b>				
	Earth conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc.				
	2.5 mm <sup>2</sup>				
9,25		Supply	m	200	
9,26		Install	m	200	
	4.0 mm <sup>2</sup>				
9,27		Supply	m	200	
9,28		Install	m	200	
	<b>Socket outlets</b>				
	Socket outlet complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc				
	16A, 230V, 3-pin single switched socket outlet, 2-pin slimline switched socket outlet, flush wall mounted				
9,29		Supply	No.	2	
9,30		Install	No.	2	
	16A, 230V, 3-pin single switched socket outlet, 2-pin slimline switched socket outlet, skirting mounted				
9,31		Supply	No.	32	
9,32		Install	No.	32	
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Light switches</b>				
	Light switch complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc inclusive of termination of circuit wiring onto switch terminals.				
	16A, 230V, 1 Lever 1 Way				
9,33		Supply	No.	3	
9,34		Install	No.	3	
	<b>Photocell</b>				
	Photocell installed in a suitably sized rectangular bulkhead luminaire housing with clear UV stabilised high impact acrylic lens and labelling as specified				
	16A, 230V, Photocell				
9,35		Supply	No.	1	
9,36		Install	No.	1	
	<b>Light fittings</b>				
	SABS approved light fittings as per the specification, complete with lamps, machine or wood screws, bolts, installed and connected as specified. All fittings shall be similar or equal to (and subject to approval) the light fittings specified in the schedule of light fittings.				
	<i>Please note that all ceiling mounted light fittings shall be delivered with 3m of 1,5mm<sup>2</sup> flexible cabtyre with a 5 amp 3 pin plug top fitted.</i>				
	Type A2				
9,37		Supply	No.	10	
9,38		Install	No.	10	
	Type B1				
9,39		Supply	No.	6	
9,40		Install	No.	6	
	<b>Telecommunications distribution board</b>				
	Flush mounted distribution board, lockable, complete with 20mm thick wooden back board				
	300 x 300 x 150mm deep				
9,41		Supply	No.	1	
9,42		Install	No.	1	
	<b>Telecommunications outlets</b>				
	Galvanised steel epoxy powder coated cradles and covers mounted on power skirting or wall complete with removable blank inserts.				
	Intercom speaker outlet - Wall Mounted				
9,43		Supply	No.	1	
9,44		Install	No.	1	
	<b>Testing and commissioning</b>				
9,45	Testing and commissioning of the works covered within this bill.	Item		1	
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b><u>BILL 10: GUARD HOUSE - ELECTRICAL INSTALLATIONS</u></b>					
<b>PVC conduits</b>					
PVC conduit including bending, short lengths, draw boxes, cutting, bands, jointing, couplings, saddles and accessories as per SABS 1065. Fixed to surface or laid in or flush mounted in brickwork, dry walls (partitions), concrete, roof space or ceiling void. The rate to allow for the conduit mounting brackets to suspend conduits from concrete slab as would be required in the ceiling void.					
20mm					
10,1	Supply	m	60		
10,2	Install	m	60		
25mm					
10,3	Supply	m	30		
10,4	Install	m	30		
<b>PVC round boxes</b>					
Surface or flush mounted 60mm deep PVC conduit round boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed in brickwork, on surface in ceiling void or cast in concrete inclusive of coverplates, where necessary.					
20mm					
10,5	Supply	No.	10		
10,6	Install	No.	10		
25mm					
10,7	Supply	No.	5		
10,8	Install	No.	5		
<b>Galvanised boxes</b>					
Surface or flush mounted galvanised boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed chased in brickwork, on surface in ceiling or cast in concrete, excluding coverplates.					
100 x 50 x 50mm					
10,9	Supply	No.	2		
10,10	Install	No.	2		
100 x 100 x 50mm					
10,11	Supply	No.	3		
10,12	Install	No.	3		
<b>PVC insulated conductors</b>					
600/1000V PVC insulated conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc.					
2.5 mm <sup>2</sup>					
10,13	Supply	m	120		
10,14	Install	m	120		
4.0 mm <sup>2</sup>					
10,15	Supply	m	60		
10,16	Install	m	60		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Insulated earth conductors</b>				
	Earth conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc.				
	2.5 mm <sup>2</sup>				
10,17	Supply	m	60		
10,18	Install	m	60		
	4.0 mm <sup>2</sup>				
10,19	Supply	m	30		
10,20	Install	m	30		
	<b>Socket outlets</b>				
	Socket outlet complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc				
	16A, 230V, 3-pin single switched socket outlet, 2-pin slimline switched socket outlet, flush wall mounted				
10,21	Supply	No.	2		
10,22	Install	No.	2		
	<b>Light switches</b>				
	Light switch complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc inclusive of termination of circuit wiring onto switch terminals.				
	16A, 230V, 1 Lever 1 Way				
10,23	Supply	No.	2		
10,24	Install	No.	2		
	<b>Photocell</b>				
	Photocell installed in a suitably sized rectangular bulkhead luminaire housing with clear UV stabilised high impact acrylic lens and labelling as specified				
	16A, 230V, Photocell				
10,25	Supply	No.	1		
10,26	Install	No.	1		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<p><b>Light fittings</b></p> <p>SABS approved light fittings as per the specification, complete with lamps, machine or wood screws, bolts, installed and connected as specified. All fittings shall be similar or equal to (and subject to approval) the light fittings specified in the schedule of light fittings.</p> <p><i>Please note that all ceiling mounted light fittings shall be delivered with 3m of 1,5mm<sup>2</sup> flexible cable with a 5 amp 3 pin plug top fitted.</i></p>				
	Type A2				
10,27	Supply	No.	1		
10,28	Install	No.	1		
	Type B				
10,29	Supply	No.	1		
10,30	Install	No.	1		
	Type B1				
10,31	Supply	No.	4		
10,32	Install	No.	4		
	<b>Testing and commissioning</b>				
10,33	Testing and commissioning of the works covered within this bill.	Item	1		
<b>TOTAL CARRIED FORWARD TO SUMMARY PAGE</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b><u>BILL 11: FIRE PUMP HOUSE - ELECTRICAL INSTALLATIONS</u></b>					
<b>PVC conduits</b>					
PVC conduit including bending, short lengths, draw boxes, cutting,bands, jointing, couplings, saddles and accessories as per SABS 1065. Fixed to surface or laid in or flush mounted in brickwork, dry walls (partitions), concrete, roof space or ceiling void. The rate to allow for the conduit mounting brackets to suspend conduits from concrete slab as would be required in the ceiling void.					
20mm					
11,1	Supply	m	60		
11,2	Install	m	60		
25mm					
11,3	Supply	m	30		
11,4	Install	m	30		
<b>PVC round boxes</b>					
Surface or flush mounted 60mm deep PVC conduit round boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed in brickwork, on surface in ceiling void or cast in concrete inclusive of coverplates, where necessary.					
20mm					
11,5	Supply	No.	170		
11,6	Install	No.	170		
25mm					
11,7	Supply	No.	120		
11,8	Install	No.	120		
<b>Galvanised boxes</b>					
Surface or flush mounted galvanised boxes with one, two, three or four way or back entry as required, including fixing to conduit with the necessary locknuts, adaptors, bushes, etc., installed chased in brickwork, on surface in ceiling or cast in concrete, excluding coverplates.					
100 x 50 x 50mm					
11,9	Supply	No.	1		
11,10	Install	No.	1		
100 x 100 x 50mm					
11,11	Supply	No.	3		
11,12	Install	No.	3		
<b>PVC insulated conductors</b>					
600/1000V PVC insulated conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc.					
2.5 mm <sup>2</sup>					
11,13	Supply	m	120		
11,14	Install	m	120		
4.0 mm <sup>2</sup>					
11,15	Supply	m	60		
11,16	Install	m	60		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<b>Insulated earth conductors</b>				
	Earth conductors drawn into conduit or installed in wiring channel including conductor identification labels, terminating, etc.				
	2.5 mm <sup>2</sup>				
11,17	Supply	m	60		
11,18	Install	m	60		
	4.0 mm <sup>2</sup>				
11,19	Supply	m	30		
11,20	Install	m	30		
	<b>Socket outlets</b>				
	Socket outlet complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc				
	16A, 230V, 3-pin single switched socket outlet, 2-pin slimline switched socket outlet, flush wall mounted				
11,21	Supply	No.	1		
11,22	Install	No.	1		
	<b>Isolators</b>				
	Isolator complete with box, cover plate and accessories.				
	60A TPN three-phase isolator, surface mounted, weatherproof, IP56				
11,23	Supply	No.	1		
11,24	Install	No.	1		
	<b>Light switches</b>				
	Light switch complete with all necessary chrome fixing screws, steel cover plates, labeling, cradles, including all holes, drilling, etc inclusive of termination of circuit wiring onto switch terminals.				
	16A, 230V, 1 Lever 1 Way				
11,25	Supply	No.	1		
11,26	Install	No.	1		
	<b>Photocell</b>				
	Photocell installed in a suitably sized rectangular bulkhead luminaire housing with clear UV stabilised high impact acrylic lens and labelling as specified				
	16A, 230V, Photocell				
11,27	Supply	No.	1		
11,28	Install	No.	1		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
	<p><b>Light fittings</b>  SABS approved light fittings as per the specification, complete with lamps, machine or wood screws, bolts, installed and connected as specified. All fittings shall be similar or equal to (and subject to approval) the light fittings specified in the schedule of light fittings.</p> <p><i>Please note that all ceiling mounted light fittings shall be delivered with 3m of 1,5mm<sup>2</sup> flexible cable with a 5 amp 3 pin plug top fitted.</i></p>				
11,29	Type A2	Supply	No.	2	
11,30		Install	No.	2	
11,31	Type B1	Supply	No.	4	
11,32		Install	No.	4	
	<b>Testing and commissioning</b>				
11,33	Testing and commissioning of the works covered within this bill.	Item		1	
<b>TOTAL CARRIED FORWARD TO SUMMARY PAGE</b>					

Item	Description	Unit	Quantity	Rate	Amount
	<b><u>BILL No. 12 - INDEPENDENT INTERVAL BELL SOUNDER SYSTEM</u></b>				
	<b>Supply, install, and commission a complete bell sounder system</b>				
12,1	230V, 50Hz, 203mm gong type bell	Supply No	2		
12,2		Install No	2		
12,3	20A, 2 pole weather proof isolators for bells	Supply No	2		
12,4		Install No	2		
12,5	2.5mm <sup>2</sup> , 3 core, PVC/PVC/SWA/PVC cable	Supply m	100		
12,6		Install m	100		
12,7	2.5mm <sup>2</sup> PVC insulated copper conductor	Supply m	200		
12,8		Install m	200		
12,9	2.5mm <sup>2</sup> bare copper earth wire	Supply m	100		
12,10		Install m	100		
12,11	600mmx600mm bell sounder distribution board	Supply No	1		
12,12		Install No	1		
12,13	Programmable interval timer	Supply No	1		
12,14		Install No	1		
12,15	16A, 230V, 50Hz, Bell push button	Supply No	2		
12,16		Install No	2		
12,17	3 Way 20mm Entry Box Size 0 Ezee Fit IP68 Non-Corrosive Black Cable Junction Box	Supply No	2		
12,18		Install No	2		
	<b>Testing and Commissioning</b>				
12,19	Testing and Commissioning of Installation	Sum	1		
12,20	Manuals and Documentation	Sum	1		
12,21	Training of Personnel	Sum	1		
<b>TOTAL CARRIED FORWARD TO SUMMARY PAGE</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b><u>BILL No. 13 - INTERCOMMUNICATION SYSTEM INSTALLATIONS</u></b>					
Installation of an analogue intercom system. The system must have the ability to provide selective calling (one or two way communication with no Push To Talk) to a particular speaker. It must also be able to broadcast to a group of selected speakers or all the speakers on site . System must be noiseless with no feedback. Call initiation must only be possible from the main control unit. No intercomms will be installed in the hostels. The system will run on its own dedicated backbone					
40 Way Intercom Controller Master Station. Must support or drive a minimum of 40 speakers.					
13,1	Supply	No	1		
13,2	Install	No	1		
High quality, wall mount, indoor, intercom module complete with Speaker (10W) & microphone. The microphone must be very sensitive, able to clearly pick audio in a class environment when activated with no feedback					
13,3	Supply	No	26		
13,4	Install	No	26		
Outdoor Intercom module complete with Horn Speaker (5-30W) & microphone. (IP66)					
13,5	Supply	No	4		
13,6	Install	No	4		
Program Preset Timer for School Bell System (hardware unit with lcd display, running bell control software)					
13,7	Supply	No	1		
13,8	Install	No	1		
Paging console with Gooseneck microphone					
13,9	Supply	No	1		
13,10	Install	No	1		
INTPAS - M20 to PA Audio interface					
13,11	Supply	No	1		
13,12	Install	No	1		
Main Termination Block					
13,13	Supply	No	1		
13,14	Install	No	1		
Sub Termination Blocks					
13,15	Supply	No	7		
13,16	Install	No	7		
4 pair, twisted, screened, 22swg cable					
13,17	Supply	m	300		
13,18	Install	m	300		
<b>CARRIED FORWARD</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>BROUGHT FORWARD</b>					
13,19	10 pair, twisted, screened, 22swg cable	Supply	m	200	
13,20		Install	m	200	
13,21	20 pair, twisted, screened, 22swg cable	Supply	m	200	
13,22		Install	m	200	
13,23	AMPHYB048 - PA Amplifier, 70V / 100V Line Distribution, 500 Watt RMS Class D, 2 Mic and 1 Line	Supply	No	1	
13,24		Install	No	1	
<b>Testing and Commissioning</b>					
13,25	Testing and Commissioning of Installation	Sum		1	
13,26	Manuals, Documentation, AS Builts	Sum		1	
13,27	Training of Personnel	Sum		1	
<b>TOTAL CARRIED FORWARD TO SUMMARY PAGE</b>					

Item	Description	Unit	Quantity	Rate	Amount
	<b><u>BILL No. 14 - BUDGETARY ITEMS</u></b>				
	<b>Power Supply Upgrade Charges</b>				
14,1	Provide the sum of R400 000.00 (Four Hundred Thousand Rands) for the provision of the Power Supply Upgrade by Eskom.	Sum	1		
	<b>Earthing and Lightning Protection</b>				
14,2	Allowance for the sum of R120 000.00 (One Hundred and Twenty Thousand Rands) for Earthing and Lightning Protection system to be done by a specialist as may be required.	Sum	1		
	<b>Telephone and Data Network</b>				
14,3	Allowance for the sum R60 000.00 (Sixty Thousand Rands) Telephone and Data Network system to be done by a specialist as may be required.	Sum	1		
<b>TOTAL CARRIED FORWARD TO SUMMARY PAGE</b>					

Item	Description	Unit	Quantity	Rate	Amount
	<b><u>BILL No. 15: LABELLING, DOCUMENTATION AND GUARANTEES</u></b>				
	<b>Labelling</b>				
15,1	Engraved labels on each switched socket outlet and light switch face plate, glued and screwed.	Item	1		
15,2	Cable marking with Gravoplast at either end below termination shroud	Item	1		
	<b>Documentation</b>				
15,3	Provision of the As-built drawings for the works covered within this bill showing all cable routes, conduit routes, etc	Item	1		
15,4	Provision of the Operation and Maintenance manuals for the works covered within this bill including conducting User's training	Item	1		
15,5	Provision of the Certificates of Compliance upon completion for the works covered within this bill.	Item	1		
	<b>Guarantee</b>				
15,6	12 month equipment and installation guarantee on the works covered within this bill. The guarantee period commences on the day of successful handing over of the building to the Client.	Item	1		
<b>TOTAL CARRIED FORWARD TO SUMMARY PAGE</b>					

ITEM	DESCRIPTION	UNIT	QTY	AMOUNT
	<b>SUMMARY</b>			
15,1	BILL 1: RETICULATION AND DISTRIBUTION BOARDS	Sum	1	
15,2	BILL 2: ADMINISTRATION BLOCK - ELECTRICAL INSTALLATIONS	Sum	1	
15,3	BILL 3: GRADE R CLASSROOM BLOCK - ELECTRICAL INSTALLATIONS	Sum	1	
15,4	BILL 4: 3-CLASSROOM BLOCK A - ELECTRICAL INSTALLATIONS	Sum	1	
15,5	BILL 5: 3-CLASSROOM BLOCK B - ELECTRICAL INSTALLATIONS	Sum	1	
15,6	BILL 6: 2-CLASSROOM BLOCK - ELECTRICAL INSTALLATIONS	Sum	1	
15,7	BILL 7: SCIENCE LABORATORY BLOCK - ELECTRICAL INSTALLATIONS	Sum	1	
15,8	BILL 8: NUTRITION CENTRE BLOCK - ELECTRICAL INSTALLATIONS	Sum	1	
15,9	BILL 9: MEDIA CENTRE BLOCK - ELECTRICAL INSTALLATIONS	Sum	1	
15,10	BILL 10: GUARD HOUSE - ELECTRICAL INSTALLATIONS	Sum	1	
15,11	BILL 11: FIRE PUMP HOUSE - ELECTRICAL INSTALLATIONS	Sum	1	
15,12	BILL 12: INDEPENDENT INTERVAL BELL SOUNDER SYSTEM INSTALLATION	Sum	1	
15,13	BILL 13: INTERCOMMUNICATION SYSTEM INSTALLATIONS	Sum	1	
15,14	BILL 14 - BUDGETARY ITEMS	Sum	1	
15,15	BILL 15: LABELLING, DOCUMENTATION AND GUARANTEES	Sum	1	
	<b>SUB-TOTAL A (Excluding VAT)</b>			
	Add P's & G's			
<b>TOTAL AMOUNT CARRIED TO FINAL SUMMARY (Excluding VAT)</b>				