

RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
Electrical Installation



Schedule 1: Preliminaries and General

Preliminaries and General

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	PRELIMINARIES AND GENERAL							
1	FIXED CHARGES AND VALUE RELATED ITEMS							
a	Allow for complying with all clauses as per tender documentation, including all Special and General conditions of Contract and Labour requirements, and for providing all works and services for which no specific items are listed in the Bills of Quantities.	Sum	1					
b	Site Establishment and for providing a site office and adequate and suitable water, sanitary and first aid services,	Sum	1					
c	Site Administration and for attending all inspections and site meetings	Sum	1					
d	Any additional work which the tenderer deems necessary specific to this conditions of contract to successfully complete this section. (Tenderer to qualify in a cover letter)	Sum	1					
e	Preparation of shop drawings equipment samples etc.	Sum	1					
f	Supply five full sets of as-built drawings to show the exact positions of cables, cable joints road crossings, etc. as well as instruction manuals & spare parts catalogues to spec. These as-built drawings must be handed to the Engineer on completion of the contract.	Sum	1					
g	Provide for storage of plant, materials and equipment on site including protection thereof and for obtaining and providing all sureties and insurances called for in terms of this contract.	Sum	1					
h	Liaising with City of Matlosana for isolation and disconnections, from supply points. Connection and reconnection to City Power supply points.	Sum	1					
i	Allow for co-ordination with other contractors, giving notice to the Supply Authority (City of Matlosana) and paying all required fees.	Sum	1					
j	Surveying and setting out of pole positions and cable routes.	Sum	1					
k	Preparation of O & M manuals and re-commissioning reports.	Sum	1					
l	Removal of site establishment upon completion.	Sum	1					
2	TIME RELATED ITEMS							
a	Contractual requirements.	Month	3					
b	Operation and maintenance of facilities on site.	Month	3					
c	Site Administration and for attending all inspections and site meetings.	Month	3					
d	Company and office overhead costs.	Month	3					
e	General responsibilities and other time related obligations.	Month	3					
3	UNSCHEDULED WORK AND VARIATIONS							
b	Percentage mark-up on supplier's quotation on any unscheduled material item.	%					Rate Only	
4	DAYWORK RATES FOR MEASURING ANY UNSCHEDULED WORK							
a	Site Foreman.	hrs					Rate Only	
b	Artisan.	hrs					Rate Only	
c	Unskilled labourer.	hrs					Rate Only	
d	Up to 3T Truck.	km					Rate Only	
e	Up to 5T Truck.	km					Rate Only	
f	Light delivery vehicle (bakkie).	km					Rate Only	
Total Carried Forward To Summary								

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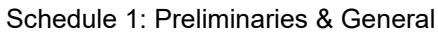


Schedule 1: Preliminaries and General

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Preliminaries and General	
	SUBTOTAL	
		
	Total Carried Forward To Summary Of Schedules	

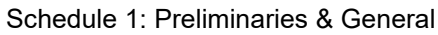
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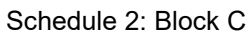


Schedule 1: Preliminaries & General

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Fixed and Value Based Charges	.....
2	Section 2: Time Related Items	.....
3	Section 3: Unscheduled Work and Variations	
Total Carried Forward To Summary Of Schedules		

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Section 2: Power - General Purpose Outlets

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Section 3: Appliances

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RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

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Schedule 2: Block C

Section 4: Lighting

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 4: LIGHTING							
4.1	CONDUITS							
	Supply and install conduit complete with all accessories including couplings, bends and fixings as specified:							
	PVC conduit cast in concrete or built in brick work:							
a	20 mm diameter.	m	500					
	PVC conduit suspended in ceiling void:							
b	20 mm diameter.	m	50					
4.2	CONDUIT BOXES							
	Supply and install conduit boxes complete with all accessories including conduit adaptors:							
	Round boxes including covers:							
a	PVC 60 mm, 25 mm deep for 20 mm conduit.	No	50					
	Outlet boxes excluding covers:							
b	100 mm x 50 mm x 50 mm pressed steel.	No	15					
4.3	CONDUCTORS							
	Supply and install PVC insulated Copper conductors in required colours, drawn into conduit or trucking:							
a	2.5 sq. mm.	m	1,000					
	Supply and install bare Copper earth wire drawn into conduit (appropriate PVC insulated Cu. earth wire shall be used in power skirting or trunking):							
b	2.5 sq. mm.	m	500					
4.4	LUMINAIRES							
	Supply, install and connect luminaires mounted as specified, complete with lamps, control gear and all accessories:							
a	Type ES1	No	8					
b	Type K1E	No	15					
c	Type U	No	10					
d	Type W1	No	1					
e	Non-maintained surface mount emergency escape luminaire (EXIT).	No	4					
4.5	MECHANICAL SWITCHES							
	Supply, install and connect light switch complete with steel cover plate and all accessories:							
a	16 A one lever, one way flush mount switch complete with cover plate.	No	2					
b	16 A one lever, two way flush mount switch complete with cover plate.	No	2					
4.6	CONTROL GEAR							
	Supply, install and connect control gear complete with all accessories:							
a	16 A photocell surface mounted.	No	2					
Total Carried Forward								

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Section 4: Lighting

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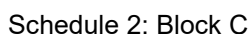
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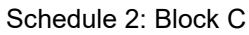
Section 5: Channeling Systems

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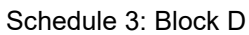


Schedule 2: Block C

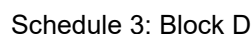
SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Distribution Boards	
2	Section 2: Power - General Purpose Outlets	.....
3	Section 3: Appliances	.....
4	Section 4: Lighting	.....
5	Section 5: Channeling Systems	.....
6	Section 6: Conduit for Electronic Services	.....
7	Section 7: Testing & Commissioning	
Total Carried Forward To Summary Of Schedules		

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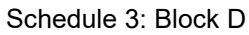
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Section 2: Power - General Purpose Outlets

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RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

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Schedule 3: Block D

Section 4: Lighting

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 4: LIGHTING							
4.1	CONDUITS							
	Supply and install conduit complete with all accessories including couplings, bends and fixings as specified:							
	PVC conduit cast in concrete or built in brick work:							
a	20 mm diameter.	m	250					
	PVC conduit suspended in ceiling void:							
b	20 mm diameter.	m	50					
4.2	CONDUIT BOXES							
	Supply and install conduit boxes complete with all accessories including conduit adaptors:							
	Round boxes including covers:							
a	PVC 60 mm, 25 mm deep for 20 mm conduit.	No	400					
	Outlet boxes excluding covers:							
b	100 mm x 50 mm x 50 mm pressed steel.	No	50					
4.3	CONDUCTORS							
	Supply and install PVC insulated Copper conductors in required colours, drawn into conduit or trucking:							
a	2.5 sq. mm.	m	1,000					
	Supply and install bare Copper earth wire drawn into conduit (appropriate PVC insulated Cu. earth wire shall be used in power skirting or trunking):							
b	2.5 sq. mm.	m	650					
4.4	LUMINAIRES							
	Supply, install and connect luminaires mounted as specified, complete with lamps, control gear and all accessories:							
a	Type ES1	No	16					
b	Type K1E	No	30					
c	Type U	No	20					
d	Type W1	No	2					
e	Non-maintained surface mount emergency escape luminaire (EXIT).	No	6					
4.5	MECHANICAL SWITCHES							
	Supply, install and connect light switch complete with steel cover plate and all accessories:							
a	16 A one lever, one way flush mount switch complete with cover plate.	No	2					
b	16 A one lever, two way flush mount switch complete with cover plate.	No	2					
4.6	CONTROL GEAR							
	Supply, install and connect control gear complete with all accessories:							
a	16 A photocell surface mounted.	No	2					
Total Carried Forward								

North West Provincial Government: Dpt. of Health
Electrical Installation

Schedule 3: Block D

Section 4: Lighting

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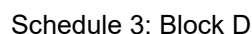
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Section 5: Channeling Systems

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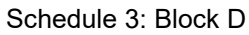
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Section 6: Conduit for Electronic Services

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RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

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Schedule 3: Block D

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Distribution Boards	
2	Section 2: Power - General Purpose Outlets	.....
3	Section 3: Appliances	.....
4	Section 4: Lighting	.....
5	Section 5: Channeling Systems	.....
6	Section 6: Conduit for Electronic Services	.....
7	Section 7: Testing & Commissioning	
Total Carried Forward To Summary Of Schedules		

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ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
1.6	Clean DB2-E and remove stains, dirt and dust. Neatly arrange cables in DB. Ensure doors and panels fit and close appropriately. Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Identify any wires that are inappropriately sized and equipped with correct circuit protective devices. Tighten any loose connections.	No	1					
1.7	Clean DB5-E and remove stains, dirt and dust. Neatly arrange cables in DB. Ensure doors and panels fit and close appropriately. Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Identify any wires that are inappropriately sized and equipped with correct circuit protective devices. Tighten any loose connections.	No	1					
1.8	Clean DB6-E and remove stains, dirt and dust. Neatly arrange cables in DB. Ensure doors and panels fit and close appropriately. Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Identify any wires that are inappropriately sized and equipped with correct circuit protective devices. Tighten any loose connections.	No	1					
1.9	Clean DB9-E and remove stains, dirt and dust. Neatly arrange cables in DB. Ensure doors and panels fit and close appropriately. Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Identify any wires that are inappropriately sized and equipped with correct circuit protective devices. Tighten any loose connections.	No	4					
Total Carried Forward To Summary								

RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

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Schedule 4: Block E

Section 2: Power - General Purpose Outlets

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	Section 2: Power - General Purpose Outlets							
2.1	CONDUITS							
	Supply and install conduit complete with all accessories including couplings, bends and fixings as specified:							
	PVC conduit cast in concrete or built in brick work:							
a	20 mm diameter.	m	200					
	PVC conduit suspended in ceiling void:							
b	20 mm diameter.	m	50					
	PVC flexible conduit:							
c	20 mm diameter.	m	20					
d	25 mm diameter.	m	50					
2.2	CONDUIT BOXES							
	Supply and install conduit boxes complete with all accessories including conduit adaptors:							
	Outlet boxes excluding covers:							
a	100 mm x 100 mm x 50 mm pressed steel.	No	1					
2.3	WIRING CONDUCTORS							
	Supply and install PVC insulated Copper conductors in required colours, drawn into conduit or trucking:							
a	4.0 sq. mm.	m	500					
b	6.0 sq. mm.	m	50					
c	10.0 sq. mm.	m	50					
	Supply and install bare Copper earth wire drawn into conduit (appropriate PVC insulated Cu. earth wire shall be used in power skirting or trunking):							
d	2.5 sq. mm.	m	300					
e	6.0 sq. mm.	m	50					
f	10.0 sq. mm.	m	15					
2.4	SOCKETS OUTLETS							
	Supply, install and connect switched socket outlets mounted flush in wall or in power skirting or trunking as specified, complete with cover plates and all accessories:							
a	220 V, 16 A, standard 3 pin flush mounted, single switched socket outlet (White).	No	1					
b	220 V, 16 A, standard 3 pin flush mounted, double switched socket outlet (White).	No	2					
c	220 V, 16 A, standard 3 pin mounted on skirting trunking single switched socket outlet (White).	No	10					
f	220 V, 16 A, standard 3 pin mounted on skirting trunking with shaved earth pin single switched socket outlet for dedicated circuits (blue).	No	10					
g	220 V, 16 A, standard 3 pin, surface mount single switched socket outlet (white) complete with waterproof (york) box.	No	1					
h	220 V, 16 A, standard 3 pin single switched socket outlet (White) in wall box or floor box conduit system.	No	1					
i	220 V, 16 A, standard 3 pin shaved earth pin (blue) for wall box or floor box conduit system UPS circuits.	No	1					
Total Carried Forward								

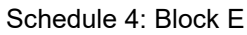
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Section 2: Power - General Purpose Outlets

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
j	220 V, 5 A, standard 3 pin wiring trunking socket module unswitched (white).	No	5					
k	380 V, 20 A, 5 pin surface mounted, industrial switched socket outlet, IP44.	No	9					
l	380 V, 32 A, 5 pin surface mounted, industrial switched socket outlet, IP66.	No	4					
m	380 V, 60 A, 5 pin surface mounted switched socket outlet, IP66.	No	4					
	ISOLATORS							
	Supply, install and connect switched socket outlets mounted flush in wall or in power skirting or trunking as specified, complete with cover plates and all accessories:							
a	220 V, 20 A, double pole isolator (white), surface mount complete with waterproof (york) box.	No	1					
b	220 V, 20 A, double pole isolator (white), surface mount.	No	5					
2.6	SUNDRIES							
a	Blank steel cover plate (White) for 100 mm x 100 mm conduit box.	No	6					
Total Carried Forward To Summary								

North West Provincial Government: Dpt. of Health
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RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
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Schedule 4: Block E

Section 4: Lighting

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 4: LIGHTING							
4.1	CONDUITS							
	Supply and install conduit complete with all accessories including couplings, bends and fixings as specified:							
	PVC conduit cast in concrete or built in brick work:							
a	20 mm diameter.	m	250					
	PVC conduit suspended in ceiling void:							
b	20 mm diameter.	m	50					
4.2	CONDUIT BOXES							
	Supply and install conduit boxes complete with all accessories including conduit adaptors:							
	Round boxes including covers:							
a	PVC 60 mm, 25 mm deep for 20 mm conduit.	No	25					
	Outlet boxes excluding covers:							
b	100 mm x 50 mm x 50 mm pressed steel.	No	10					
4.3	CONDUCTORS							
	Supply and install PVC insulated Copper conductors in required colours, drawn into conduit or trucking:							
a	2.5 sq. mm.	m	1,500					
	Supply and install bare Copper earth wire drawn into conduit (appropriate PVC insulated Cu. earth wire shall be used in power skirting or trunking):							
b	2.5 sq. mm.	m	500					
4.4	LUMINAIRES							
	Supply, install and connect luminaires mounted as specified, complete with lamps, control gear and all accessories:							
a	Type A	No	26					
b	Type C3	No	52					
c	Type E	No	35					
d	Type E1	No	10					
e	Type F	No	5					
f	Type F1	No	6					
g	Type H	No	2					
h	Type J	No	22					
i	Type J1	No	40					
j	Type K	No	20					
k	Type O	No	1					
l	Non-maintained surface mount emergency escape luminaire (EXIT).	No	10					
4.5	MECHANICAL SWITCHES							
	Supply, install and connect light switch complete with steel cover plate and all accessories:							
a	16 A one lever, one way flush mount switch complete with cover plate.	No	2					
Total Carried Forward								

North West Provincial Government: Dpt. of Health
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Section 4: Lighting

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North West Provincial Government: Dpt. of Health
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ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 5: CHANNELING SYSTEMS							
5.1	POWER SKIRTING							
	Supply and install aesthetic textured to hospital grey finish multiskirt aluminum power skirting complete with all accessories including bends, elbows, end caps cover plates etc.							
a	2 compartment multi-skirt trunking fixed to brick work with cover plates.	m	50					
5.2	WIRING TRUNKING							
	Supply and install pregalvanized wiring trunking complete all accessories including suspension fixtures and fittings, bends, end caps etc. but excluding wiring.							
a	76 mm x 63 mm, 0.8 mm thick wiring trunking with 5 A socket outlet knockouts and cover plates.	m	25					
b	127 mm x 76 mm, 0.8 mm thickwiring trunking with cover plates.	m	10					
5.3	CABLE TRAYS							
	Supply and install medium duty hot dip galvanized welded wire mesh cable tray complete with all accessories including bends, junction units, suspension fixtures etc:							
a	100 mm wide, 50 mm high cable tray.	m	21					
b	300 mm wide, 50 mm high cable tray.	m	7					
5.4	CABLE LADDER							
	Supply and install hot-dip galvanised litespan cable ladder complete with all accessories and detailed on the drawings. Rate to include all accessories including bends, T-pieces suspension fixtures etc:							
a	300 mm wide cable ladder.	m	20					
5.5	POWER POLE							
a	floor to ceiling power pole conduit system complete assembly with pvc frame and lid, ingress prevention plate, modular outlet plate etc., for power, voice, and data outlets.	No	2					
5.6	ACCESS FLOOR BOX							
a	Underscreed ducted access floor box conduit system complete assembly with pvc frame and lid, ingress prevention plate, modular outlet plate etc., for power, voice, and data outlets.	No	30					
Total Carried Forward To Summary								

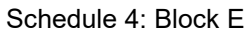
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Section 6: Conduit for Electronic Services

Total Carried Forward To Summary

North West Provincial Government: Dpt. of Health
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RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
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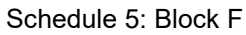


Schedule 4: Block E

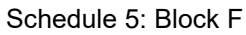
SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Distribution Boards	
2	Section 2: Power - General Purpose Outlets	.....
3	Section 3: Appliances	.....
4	Section 4: Lighting	.....
5	Section 5: Channeling Systems	.....
6	Section 6: Conduit for Electronic Services	.....
7	Section 7: Testing & Commissioning	.....
Total Carried Forward To Summary Of Schedules		

North West Provincial Government: Dpt. of Health
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RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

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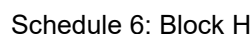


Schedule 5: Block F

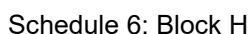
SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Distribution Boards	
2	Section 2: Testing & Commissioning	
Total Carried Forward To Summary Of Schedules		

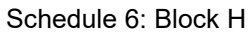
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RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
Electrical Installation



Schedule 6: Block H

Section 4: Lighting

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 4: LIGHTING							
4.1	CONDUITS							
	Supply and install conduit complete with all accessories including couplings, bends and fixings as specified:							
	PVC conduit cast in concrete or built in brick work:							
a	20 mm diameter.	m	50					
	PVC conduit suspended in ceiling void:							
b	20 mm diameter.	m	150					
4.2	CONDUIT BOXES							
	Supply and install conduit boxes complete with all accessories including conduit adaptors:							
	Round boxes including covers:							
a	PVC 60 mm, 25 mm deep for 20 mm conduit.	No	42					
	Outlet boxes excluding covers:							
b	100 mm x 50 mm x 50 mm pressed steel.	No	7					
4.3	CONDUCTORS							
	Supply and install PVC insulated Copper conductors in required colours, drawn into conduit or trucking:							
a	2.5 sq. mm.	m	400					
	Supply and install bare Copper earth wire drawn into conduit (appropriate PVC insulated Cu. earth wire shall be used in power skirting or trunking):							
b	2.5 sq. mm.	m	200					
4.4	LUMINAIRES							
	Supply, install and connect luminaires mounted as specified, complete with lamps, control gear and all accessories:							
a	Type B	No	12					
b	Type D	No	0					
c	Type E1	No	0					
d	Type F	No	5					
e	Type G	No	0					
f	Type H	No	0					
g	Type J	No	2					
h	Type K	No	4					
i	Type O	No	3					
j	Type P	No	0					
k	Type U	No	0					
l	Type Z	No	0					
m	Non-maintained surface mount emergency route escape luminaire.	No	1					
n	Non-maintained surface mount emergency escape luminaire (EXIT).	No	1					
4.5	MECHANICAL SWITCHES							
Total Carried Forward								

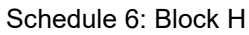
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Section 4: Lighting

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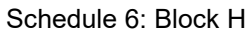
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RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
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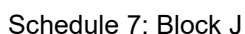


Schedule 6: Block H

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Distribution Boards	
2	Section 2: Power - General Purpose Outlets	.....
3	Section 3: Appliances	.....
4	Section 4: Lighting	.....
5	Section 5: Channeling Systems	.....
6	Section 6: Conduit for Electronic Services	.....
7	Section 7: Testing & Commissioning	
Total Carried Forward To Summary Of Schedules		

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RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
Electrical Installation



Schedule 7: Block J

Section 2: Power - General Purpose Outlets

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	Section 2: Power - General Purpose Outlets							
2.1	CONDUITS							
	Supply and install conduit complete with all accessories including couplings, bends and fixings as specified:							
	PVC conduit cast in concrete or built in brick work:							
a	20 mm diameter.	m	100					
	PVC conduit suspended in ceiling void:							
b	20 mm diameter.	m	100					
	PVC flexible conduit:							
c	20 mm diameter.	m	0					
2.2	CONDUIT BOXES							
	Supply and install conduit boxes complete with all accessories including conduit adaptors:							
	Outlet boxes excluding covers:							
a	100 mm x 100 mm x 50 mm pressed steel.	No	20					
2.3	WIRING CONDUCTORS							
	Supply and install PVC insulated Copper conductors in required colours, drawn into conduit or trunking:							
a	4.0 sq. mm.	m	300					
	Supply and install bare Copper earth wire drawn into conduit (appropriate PVC insulated Cu. earth wire shall be used in power skirting or trunking):							
b	2.5 sq. mm.	m	150					
2.4	SOCKETS OUTLETS							
	Supply, install and connect switched socket outlets mounted flush in wall or in power skirting or trunking as specified, complete with cover plates and all accessories:							
a	220 V, 16 A, standard 3 pin flush mounted, single switched socket outlet (White).	No	4					
b	220 V, 16 A, standard 3 pin flush mounted, double switched socket outlet (White).	No	6					
c	220 V, 16 A, standard 3 pin mounted on skirting trunking single switched socket outlet (White).	No	0					
d	220 V, 16 A, standard 3 pin flush mounted, single switched socket outlet (blue).	No	0					
e	220 V, 16 A, standard 3 pin flush mounted, double switched socket outlet (blue).	No	0					
f	220 V, 16 A, standard 3 pin mounted on skirting trunking with shaved earth pin single switched socket outlet for dedicated circuits (blue).	No	0					
g	220 V, 16 A, standard 3 pin, surface mount single switched socket outlet (white) complete with waterproof (york) box.	No	2					
h	220 V, 5 A, standard 3 pin wiring trunking socket module unswitched (white).	No	6					
2.5	ISOLATORS							
	Supply, install and connect switched socket outlets mounted flush in wall or in power skirting or trunking as specified, complete with cover plates and all accessories:							
a	220 V, 20 A, double pole isolator (white), flush mount.	No	0					
Total Carried Forward								

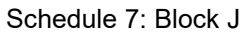
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Section 2: Power - General Purpose Outlets

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RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
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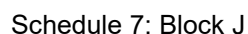


Schedule 7: Block J

Section 4: Lighting

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 4: LIGHTING							
4.1	CONDUITS							
	Supply and install conduit complete with all accessories including couplings, bends and fixings as specified:							
	PVC conduit cast in concrete or built in brick work:							
a	20 mm diameter.	m	50					
	PVC conduit suspended in ceiling void:							
b	20 mm diameter.	m	600					
4.2	CONDUIT BOXES							
	Supply and install conduit boxes complete with all accessories including conduit adaptors:							
	Round boxes including covers:							
a	PVC 60 mm, 25 mm deep for 20 mm conduit.	No	129					
	Outlet boxes excluding covers:							
b	100 mm x 50 mm x 50 mm pressed steel.	No	13					
4.3	CONDUCTORS							
	Supply and install PVC insulated Copper conductors in required colours, drawn into conduit or trucking:							
a	2.5 sq. mm.	m	1,300					
	Supply and install bare Copper earth wire drawn into conduit (appropriate PVC insulated Cu. earth wire shall be used in power skirting or trunking):							
b	2.5 sq. mm.	m	650					
4.4	LUMINAIRES							
	Supply, install and connect luminaires mounted as specified, complete with lamps, control gear and all accessories:							
a	Type LB	No	15					
b	Type E7	No	10					
c	Type F	No	12					
d	Type J	No	10					
e	Type K	No	2					
f	Type O	No	6					
f	Non-maintained surface mount emergency escape luminaire (EXIT).	No	10					
4.5	MECHANICAL SWITCHES							
	Supply, install and connect light switch complete with steel cover plate and all accessories:							
a	16 A one lever, one way flush mount switch complete with cover plate.	No	10					
b	16 A one lever, two way flush mount switch complete with cover plate.	No	2					
c	16 A two lever, one way flush mount switch complete with cover plate.	No	0					
d	16 A two lever, one way & 2 way flush mount switch complete with cover plate.	No	0					
e	16 A rotary dimmer switch unit.	No	1					
Total Carried Forward								

North West Provincial Government: Dpt. of Health
Electrical Installation



Section 4: Lighting

Total Carried Forward To Summary

RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health

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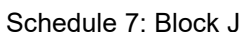


Schedule 7: Block J

Section 5: Stage Lighting & Sound System

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	Section 5: Stage Lighting & Sound System							
5.1	PREAMBLES							
	Tenderers are advised to study the "Specification of Materials and Methods to be used - General Specification for building contracts standard conditions". (GP ASC Rev 0)							
5.2	COMMON BOX							
a	Two flush mounted electrical common boxes (with doors that are lockable with a padlock, but with hinges that can be unclipped from frame) must be supplied. The first must be installed on the side wall of the stage, the second in the Multi Media Room of the hall as indicated on the drawing of Block A (Administration/Hall Lighting Layout). Must include projector input interface and DMX input for lighting control. Shop drawings to be approved by the Electrical Engineer.	No	2					
b	Presentation point box is secure, padlock lockable and flush mounted. Must include projector input interface and amplifier input interface. Shop drawings to be approved by the Electrical Engineer, (Socket outlet next to presentation point box)	No	1					
5.3	DMX CONTROLLER							
	Supply, install and connect DMX controller complete with steel cover plate and all accessories:							
a	Portable /removable stage light DMX controller console (10 Channel)	No	1					
b		No	2					
5.4	DMX SPLITTER							
	Supply, install and connect DMX splitter complete with steel cover plate and all accessories:							
a	Supply and Install 10 Channel DMX splitter complete with mounting accessories.	No	1					
5.5	CONDUCTORS							
a	Supply and Install DMX 0.22mm cable.	m	250					
5.6	SPEAKERS							
a	Supply and Install a portable 12 channel sound system complete with mixer, amplifier and 6x loud speakers as approved by the engineer. Loud speakers should accommodate the following: Full range frequency response (50Hz to 18KHz0. 500W RMS power (or other suitable for large venue) each. The amplifier should be capable of providing loud speaker rating continuous power per channel at loud speaker impedance rating with less than 0.1% THD.	No	2					
5.7	STAGE CAGE							
a	Supply and Install a lockable, vandal proof stage cage as per the engineer approval above the stage common box to house the DMX splitter, amplifier and UPS with batteries.	No	2					
5.8	UPS							
a	Supply and Install a 0.8kVA Single Phase UPS with 60minutes autonomy	No	2					
5.9	PROJECTOR							
a	Supply and Install an overhead large venue projector as indicated on drawings. The projector should have a resolution of 1920 x 1080 and a minimum brightness rating of 4000 Lumens.	No	1					
5.10	LUMINAIRES							
Total Carried Forward								

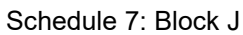
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Section 5: Stage Lighting & Sound System

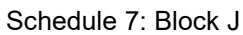
Total Carried Forward To Summary

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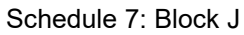
ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 6: CHANNELING SYSTEMS							
6.1	POWER SKIRTING							
	Supply and install aesthetic textured to hospital grey finish multiskirt aluminum power skirting complete with all accessories including bends, elbows, end caps cover plates etc.							
a	2 compartment multi-skirt trunking fixed to brick work with cover plates.	m	0					
6.2	WIRING TRUNKING							
	Supply and install pregalvanized wiring trunking complete all accessories including suspension fixtures and fittings, bends, end caps etc. but excluding wiring.							
a	76 mm x 63 mm, 0.8 mm thick wiring trunking with 5 A socket outlet knockouts and cover plates.	m	30					
b	127 mm x 76 mm, 0.8 mm thickwiring trunking with cover plates.	m	30					
6.3	CABLE TRAYS							
	Supply and install medium duty hot dip galvanized welded wire mesh cable tray complete with all accessories including bends, junction units, suspension fixtures etc:							
a	100 mm wide, 50 mm high cable tray.	m	10					
Total Carried Forward To Summary								

North West Provincial Government: Dpt. of Health
Electrical Installation



ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	Section 7: Conduit for Electronic Services							
7.1	CONDUITS							
	Supply and install conduit complete with all accessories including couplings, bends and fixings as specified:							
	PVC conduit cast in concrete or built in brick work:							
a	25 mm diameter	m	50					
	PVC conduit suspended in ceiling void.							
b	25 mm diameter.	m	250					
7.2	CONDUIT BOXES							
	Supply and install conduit boxes complete with all accessories including conduit adaptors:							
a	100 mm x 100 mm x 50 mm pressed steel outlet boxes for 25 mm dia. conduit with covers in brickwork.	No	5					
	Round boxes including covers:							
b	PVC 60 mm, 25 mm deep for 25 mm conduit.	No	39					
7.3	TELEPHONE DISTRIBUTION BOXES							
	Supply and install Distribution Board. DB shall be mild steel front access wall surface mounted with standard lockable latch type door handles. Body to be coloured "White" powder coating complete with all accessories and sheet metal and all frames, sub-frames.							
a	Recessed 600 mm x 450 mm x 125 mm telephone distribution board mounted onto wall.	No	1					
	Supply and install Distribution Board. DB shall be mild steel front access wall surface mounted with standard lockable latch type door handles. Body to be coloured "White" powder coating complete with all accessories and sheet metal and all frames, sub-frames.							
b	Recessed 450 mm x 300 mm x 125 mm telephone distribution board mounted onto wall.	No	1					
7.4	SUNDRIES							
a	Provide 2.0 mm dia. galvanized steel drawwire to all outlets.	kg	2					
b	Strip, remove, store away all existing fire alarm outlets, telephone/data outlets, control units, surface mounted conduit or trunking etc., Compile a list of all equipment removed and submit to the Engineer. Arrange with the Department to take away all reusable equipment.	Sum	1					
Total Carried Forward To Summary								

North West Provincial Government: Dpt. of Health
Electrical Installation

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RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

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Schedule 7: Block J

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Distribution Boards	
2	Section 2: Power - General Purpose Outlets	.....
3	Section 3: Appliances	.....
4	Section 4: Lighting	.....
5	Section 5: Stage Lighting & Sound System	.....
6	Section 6: Channeling Systems	.....
7	Section 7: Conduit for Electronic Services	.....
8	Section 8: Testing & Commissioning	.....
Total Carried Forward To Summary Of Schedules		.....

RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
Electrical Installation



Schedule 8: Block M&R

Section 1: Distribution Boards

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 1: DISTRIBUTION BOARDS							
	Service and maintain distribution board as follows;							
1.1	Clean DB1-R and remove stains, dirt and dust. Neatly arrange cables in DB. Ensure doors and panels fit and close appropriately. Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Identify any wires that are inappropriately sized and equipped with correct circuit protective devices. Tighten any loose connections.	No	1					
1.2	Clean DB2-R and remove stains, dirt and dust. Neatly arrange cables in DB. Ensure doors and panels fit and close appropriately. Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Identify any wires that are inappropriately sized and equipped with correct circuit protective devices. Tighten any loose connections.	No	1					
1.3	Clean DB3-R and remove stains, dirt and dust. Neatly arrange cables in DB. Ensure doors and panels fit and close appropriately. Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Identify any wires that are inappropriately sized and equipped with correct circuit protective devices. Tighten any loose connections.	No	1					
1.4	Clean DB4-R and remove stains, dirt and dust. Neatly arrange cables in DB. Ensure doors and panels fit and close appropriately. Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Identify any wires that are inappropriately sized and equipped with correct circuit protective devices. Tighten any loose connections.	No	1					
1.5	Clean DB1-M and remove stains, dirt and dust. Neatly arrange cables in DB. Ensure doors and panels fit and close appropriately. Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Identify any wires that are inappropriately sized and equipped with correct circuit protective devices. Tighten any loose connections.	No	1					
Total Carried Forward								

North West Provincial Government: Dpt. of Health
Electrical Installation



Section 1: Distribution Boards

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RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

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Electrical Installation

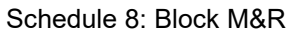


Schedule 8: Block M&R

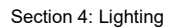
Section 2: Power - General Purpose Outlets

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	Section 2: Power - General Purpose Outlets							
2.1	CONDUITS							
	Supply and install conduit complete with all accessories including couplings, bends and fixings as specified:							
	PVC conduit cast in concrete or built in brick work:							
a	20 mm diameter.	m	25					
	PVC conduit suspended in ceiling void:							
b	20 mm diameter.	m	10					
2.2	CONDUIT BOXES							
	Supply and install conduit boxes complete with all accessories including conduit adaptors:							
	Outlet boxes excluding covers:							
a	100 mm x 100 mm x 50 mm pressed steel.	No	10					
2.3	WIRING CONDUCTORS							
	Supply and install PVC insulated Copper conductors in required colours, drawn into conduit or trucking:							
a	4.0 sq. mm.	m	50					
	Supply and install bare Copper earth wire drawn into conduit (appropriate PVC insulated Cu. earth wire shall be used in power skirting or trunking):							
b	2.5 sq. mm.	m	100					
2.4	SOCKETS OUTLETS							
	Supply, install and connect switched socket outlets mounted flush in wall or in power skirting or trunking as specified, complete with cover plates and all accessories:							
a	220 V, 16 A, standard 3 pin flush mounted, single switched socket outlet (White).	No	1					
b	220 V, 16 A, standard 3 pin flush mounted, double switched socket outlet (White).	No	2					
c	220 V, 16 A, standard 3 pin mounted on skirting trunking single switched socket outlet (White).	No	2					
d	220 V, 5 A, standard 3 pin wiring trunking socket module unswitched (white).	No	5					
2.5	ISOLATORS							
	Supply, install and connect switched socket outlets mounted flush in wall or in power skirting or trunking as specified, complete with cover plates and all accessories:							
a	220 V, 60 A, double pole isolator (white), flush mount.	No	1					
b	220 V, 60 A, double pole isolator (white), surface mount complete with waterproof (york) box.	No	1					
2.6	SUNDRIES							
a	Blank steel cover plate (White) for 100 mm x 100 mm conduit box.	No	1					
b	Strip, remove, store away all existing socket outlets, isolators, surface mounted conduit, conductors etc., Compile a list of all equipment removed and submit to the Engineer. Arrange with the Department to take away all reusable equipment.	Sum	1					
Total Carried Forward To Summary								

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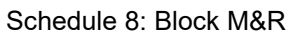
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Electrical Installation

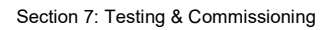


Section 5: Channeling Systems

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RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
Electrical Installation



Schedule 8: Block M&R

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Distribution Boards	.....
2	Section 2: Power - General Purpose Outlets	.....
3	Section 3: Appliances	.....
4	Section 4: Lighting	.....
5	Section 5: Channeling Systems	.....
6	Section 6: Conduit for Electronic Services	.....
7	Section 7: Testing & Commissioning	.....
Total Carried Forward To Summary Of Schedules		.....

RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
Electrical Installation



Schedule 9: Block S

Section 1: Distribution Boards

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 1: DISTRIBUTION BOARDS							
	Supply and install Distribution Board; DB shall be mild steel front access wall flush mounted with standard lockable latch type door handles.							
	Body to be coloured "White" powder coating complete with all accessories and sheet metal and all frames, sub-frames, busbars, fixtures, fittings, labels, signs, legend-cards etc.							
	Unit to be manufactured in three sections as noted below:							
	UPS section front plate (Blue)							
	Normal section front plate (White)							
	Generator section front plate (Red)							
	Service and maintain distribution board as follows;							
1.1	Clean DB1-S and remove stains, dirt and dust. Neatly arrange cables in DB. Ensure doors and panels fit and close appropriately. Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Identify any wires that are inappropriately sized and equipped with correct circuit protective devices. Tighten any loose connections.	No	1					
1.2	Clean DB2-S and remove stains, dirt and dust. Neatly arrange cables in DB. Ensure doors and panels fit and close appropriately. Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Identify any wires that are inappropriately sized and equipped with correct circuit protective devices. Tighten any loose connections.	No	1					
1.3	Clean DB7-S and remove stains, dirt and dust. Neatly arrange cables in DB. Ensure doors and panels fit and close appropriately. Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Identify any wires that are inappropriately sized and equipped with correct circuit protective devices. Tighten any loose connections.	No	1					
1.4	Clean DB8-S and remove stains, dirt and dust. Neatly arrange cables in DB. Ensure doors and panels fit and close appropriately. Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Ensure all circuits are correctly installed, i.e Live, Neutral & Earth. Ensure circuits feed correct appliances. Fix any Tripping circuits? Identify any wires that are inappropriately sized and equipped with correct circuit protective devices. Tighten any loose connections.	No	1					
Total Carried Forward								

North West Provincial Government: Dpt. of Health
Electrical Installation



Section 1: Distribution Boards

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
Brought Forward								
1.4	Supply and install Distribution Board; Distribution Board shall be hot deep galvanized steel front access wall surface mounted with standard lockable latch type door handles. DB shall be weatherproof with IP55 rating.	No	1					
	Body to be coloured "Electric Orange" powder coating, front plate "Electric Orange". complete with all accessories and sheet metal and all frames, sub-frames, busbars, fixtures, fittings, labels, signs, legend-cards etc.							
	Distribution Board DB9-S							
	Total Carried Forward To Summary							

RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
Electrical Installation



Schedule 9: Block S

Section 2: Power - General Purpose Outlets

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	Section 2: Power - General Purpose Outlets							
2.1	CONDUITS							
	Supply and install conduit complete with all accessories including couplings, bends and fixings as specified:							
	PVC conduit cast in concrete or built in brick work:							
a	20 mm diameter.	m	500					
	PVC conduit suspended in ceiling void:							
b	20 mm diameter.	m	50					
	PVC flexible conduit:							
c	20 mm diameter.	m	0					
2.2	CONDUIT BOXES							
	Supply and install conduit boxes complete with all accessories including conduit adaptors:							
	Outlet boxes excluding covers:							
a	100 mm x 100 mm x 50 mm pressed steel.	No	170					
2.3	WIRING CONDUCTORS							
	Supply and install PVC insulated Copper conductors in required colours, drawn into conduit or trucking:							
a	4.0 sq. mm.	m	2,850					
	Supply and install bare Copper earth wire drawn into conduit (appropriate PVC insulated Cu. earth wire shall be used in power skirting or trucking):							
b	2.5 sq. mm.	m	1,425					
2.4	SOCKETS OUTLETS							
	Supply, install and connect switched socket outlets mounted flush in wall or in power skirting or trucking as specified, complete with cover plates and all accessories:							
a	220 V, 16 A, standard 3 pin flush mounted, single switched socket outlet (White).	No	1					
b	220 V, 16 A, standard 3 pin flush mounted, double switched socket outlet (White).	No	1					
c	220 V, 16 A, standard 3 pin mounted on skirting trunking combination of single switched socket outlet (White).	No	75					
d	250 V, 16 A, mounted on skirting trunking combination, 3 gang switched socket outlet with 1 x standard round 3-pin & 2 x 3 small round pin ZA socket complete with steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 combination socket outlets as per SANS 10142-1 (2017) requirements.	No	75					
e	220 V, 16 A, standard 3 pin mounted on skirting trunking with shaved earth pin single switched socket outlet for dedicated circuits (blue).	No	4					
f	220 V, 16 A, standard 3 pin, surface mount single switched socket outlet (white) complete with waterproof (york) box.	No	2					
g	220 V, 5 A, standard 3 pin wiring trunking socket module unswitched (white).	No	22					
2.5	ISOLATORS							
	Supply, install and connect switched socket outlets mounted flush in wall or in power skirting or trucking as specified, complete with cover plates and all accessories:							
Total Carried Forward								

North West Provincial Government: Dpt. of Health
Electrical Installation



Section 2: Power - General Purpose Outlets

[illegible]

Total Carried Forward To Summary

RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
Electrical Installation



Schedule 9: Block S

Section 3: Lighting

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 4: LIGHTING							
4.1	CONDUITS							
	Supply and install conduit complete with all accessories including couplings, bends and fixings as specified:							
	PVC conduit cast in concrete or built in brick work:							
a	20 mm diameter.	m	50					
	PVC conduit suspended in ceiling void:							
b	20 mm diameter.	m	20					
4.2	CONDUIT BOXES							
	Supply and install conduit boxes complete with all accessories including conduit adaptors:							
	Round boxes including covers:							
a	PVC 60 mm, 25 mm deep for 20 mm conduit.	No	20					
	Outlet boxes excluding covers:							
b	100 mm x 50 mm x 50 mm pressed steel.	No	1					
4.3	CONDUCTORS							
	Supply and install PVC insulated Copper conductors in required colours, drawn into conduit or trucking:							
a	2.5 sq. mm.	m	300					
	Supply and install bare Copper earth wire drawn into conduit (appropriate PVC insulated Cu. earth wire shall be used in power skirting or trunking):							
b	2.5 sq. mm.	m	150					
4.4	LUMINAIRES							
	Supply, install and connect luminaires mounted as specified, complete with lamps, control gear and all accessories:							
a	Type E2d	No	65					
b	Type K	No	4					
c	Non-maintained surface mount emergency escape luminaire (EXIT).	No	4					
4.5	MECHANICAL SWITCHES							
	Supply, install and connect light switch complete with steel cover plate and all accessories:							
a	16 A rotary dimmer switch unit.	No	2					
4.6	CONTROL GEAR							
	Supply, install and connect control gear complete with all accessories:							
a	16 A photocell surface mounted.	No	2					
b	250V, 15 Ampere 2 wire dual technology 360 degree occupancy sensor ultrasonic and passive infrared ceiling sensor of ~ 50 sq. mm coverage, c/w power supply unit and interconnections:	No	2					
c	240 Volt AC timeswitch mounted in DB.	No	4					
Total Carried Forward To Summary								

RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
Electrical Installation

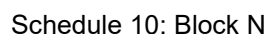


Schedule 9: Block S

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Distribution Boards	.....
2	Section 2: Power - General Purpose Outlets	.....
3	Section 3: Lighting	.....
5	Section 5: Channeling Systems	.....
6	Section 6: Conduit for Electronic Services	.....
7	Section 7: Testing & Commissioning	.....
Total Carried Forward To Summary Of Schedules		.....

North West Provincial Government: Dpt. of Health
Electrical Installation

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RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
Electrical Installation



Schedule 10: Block N

Section 2: Power - General Purpose Outlets

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 2: POWER - GENERAL PURPOSE OUTLETS							
2.1	CONDUITS							
	Supply and install conduit complete with all accessories including couplings, bends and fixings as specified:							
	PVC conduit cast in concrete or built in brick work:							
a	20 mm diameter.	m	400					
b	25 mm diameter	m	80					
	PVC conduit suspended in ceiling void:							
c	20 mm diameter.	m	20					
	PVC flexible conduit:							
g	20 mm diameter.	m	10					
2.2	CONDUIT BOXES							
	Supply and install conduit boxes complete with all accessories including conduit adaptors:							
	Outlet boxes excluding covers:							
a	100 mm x 100 mm x 50 mm pressed steel.	No	43					
2.3	WIRING CONDUCTORS							
	Supply and install PVC insulated Copper conductors in required colours, drawn into conduit or trucking:							
a	4.0 sq. mm.	m	600					
b	10.0 sq. mm.	m	105					
	Supply and install bare Copper earth wire drawn into conduit (appropriate PVC insulated Cu. earth wire shall be used in power skirting or trunking):							
c	2.5 sq. mm.	m	300					
d	6.0 sq. mm.	m	35					
2.4	SOCKETS OUTLETS							
	Supply, install and connect switched socket outlets mounted flush in wall or in power skirting or trunking as specified, complete with cover plates and all accessories:							
a	220 V, 16 A, standard 3 pin flush mounted, single switched socket outlet (White).	No	1					
b	220 V, 16 A, standard 3 pin flush mounted, double switched socket outlet (White).	No	7					
c	220 V, 16 A, standard 3 pin flush mounted, single switched socket outlet (blue).	No	9					
d	220 V, 5 A, standard 3 pin wiring trunking socket module unswitched (white).	No	6					
2.5	ISOLATORS							
	Supply, install and connect switched socket outlets mounted flush in wall or in power skirting or trunking as specified, complete with cover plates and all accessories:							
a	220 V, 20 A, double pole isolator (white), flush mount.	No	10					
b	220 V, 20 A, double pole isolator (white), surface mount.	No	8					
c	220 V, 60 A, four pole isolator (white), surface mount complete with waterproof (york) box.	No	2					
2.6	SUNDRIES							
Total Carried Forward								

RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
Electrical Installation

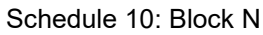


Schedule 10: Block N

Section 4: Lighting

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 4: LIGHTING							
4.1	CONDUITS							
	Supply and install conduit complete with all accessories including couplings, bends and fixings as specified:							
	PVC conduit cast in concrete or built in brick work:							
a	20 mm diameter.	m	50					
	PVC conduit suspended in ceiling void:							
b	20 mm diameter.	m	25					
4.2	CONDUIT BOXES							
	Supply and install conduit boxes complete with all accessories including conduit adaptors:							
	Round boxes including covers:							
a	PVC 60 mm, 25 mm deep for 20 mm conduit.	No	10					
	Outlet boxes excluding covers:							
b	100 mm x 50 mm x 50 mm pressed steel.	No	1					
4.3	CONDUCTORS							
	Supply and install PVC insulated Copper conductors in required colours, drawn into conduit or trucking:							
a	2.5 sq. mm.	m	100					
	Supply and install bare Copper earth wire drawn into conduit (appropriate PVC insulated Cu. earth wire shall be used in power skirting or trunking):							
b	2.5 sq. mm.	m	50					
4.4	LUMINAIRES							
	Supply, install and connect luminaires mounted as specified, complete with lamps, control gear and all accessories:							
a	Type E	No	35					
s	Non-maintained surface mount emergency escape luminaire (EXIT).	No	2					
4.5	MECHANICAL SWITCHES							
	Supply, install and connect light switch complete with steel cover plate and all accessories:							
a	16 A one lever, one way flush mount switch complete with cover plate.	No	1					
b	16 A one lever, two way flush mount switch complete with cover plate.	No	1					
4.6	CONTROL GEAR							
	Supply, install and connect control gear complete with all accessories:							
a	16 A photocell surface mounted.	No	1					
b	250V, 15 Ampere 2 wire dual technology 360 degree occupancy sensor ultrasonic and passive infrared ceiling sensor of ~ 50 sq. mm coverage, c/w power supply unit and interconnections:	No	6					
Total Carried Forward To Summary								

North West Provincial Government: Dpt. of Health
Electrical Installation

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RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
Electrical Installation



Schedule 10: Block N

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Distribution Boards	.....
2	Section 2: Power - General Purpose Outlets	.....
3	Section 3: Appliances	.....
4	Section 4: Lighting	.....
5	Section 5: Conduit for Electronic Services	.....
7	Section 7: Testing & Commissioning	.....
Total Carried Forward To Summary Of Schedules		.....

North West Provincial Government: Dpt. of Health
Electrical Installation

RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
Electrical Installation

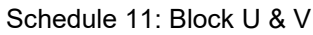


Schedule 11: Block U & V

Section 2: Power - General Purpose Outlets

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	Section 2: Power - General Purpose Outlets							
2.1	CONDUITS							
	Supply and install conduit complete with all accessories including couplings, bends and fixings as specified:							
	PVC conduit cast in concrete or built in brick work:							
a	20 mm diameter.	m	50					
	PVC conduit suspended in ceiling void:							
b	20 mm diameter.	m	0					
	PVC flexible conduit:							
c	20 mm diameter.	m	1					
	Conduit on surface:							
d	20 mm diameter galvanized steel conduit.	m	30					
2.2	CONDUIT BOXES							
	Supply and install conduit boxes complete with all accessories including conduit adaptors:							
	Outlet boxes excluding covers:							
a	100 mm x 100 mm x 50 mm pressed steel.	No	5					
2.3	WIRING CONDUCTORS							
	Supply and install PVC insulated Copper conductors in required colours, drawn into conduit or trunking:							
a	4.0 sq. mm.	m	80					
	Supply and install bare Copper earth wire drawn into conduit (appropriate PVC insulated Cu. earth wire shall be used in power skirting or trunking):							
b	2.5 sq. mm.	m	40					
2.4	SOCKETS OUTLETS							
	Supply, install and connect switched socket outlets mounted flush in wall or in power skirting or trunking as specified, complete with cover plates and all accessories:							
a	220 V, 16 A, standard 3 pin flush mounted, double switched socket outlet (White).	No	1					
b	220 V, 16 A, standard 3 pin mounted on skirting trunking single switched socket outlet (White).	No	3					
c	220 V, 16 A, standard 3 pin, surface mount single switched socket outlet (white) complete with waterproof (york) box.	No	2					
2.5	ISOLATORS							
	Supply, install and connect switched socket outlets mounted flush in wall or in power skirting or trunking as specified, complete with cover plates and all accessories:							
b	220 V, 20 A, double pole isolator (white), surface mount complete with waterproof (york) box.	No	2					
2.6	SUNDRIES							
a	Blank steel cover plate (White) for 100 mm x 100 mm conduit box.	No	1					
b	Strip, remove, store away all existing socket outlets, isolators, surface mounted conduit, conductors etc. at Guard House, Compile a list of all equipment removed and submit to the Engineer. Arrange with the Department to take away all reusable equipment.							
	Sum		1					
Total Carried Forward To Summary								

North West Provincial Government: Dpt. of Health
Electrical Installation

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RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1

COMPLETION PROJECT

North West Provincial Government: Dpt. of Health

Electrical Installation

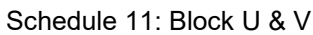


Schedule 11: Block U & V

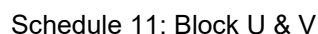
Section 4: Lighting

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 4: LIGHTING							
4.1	CONDUITS							
	Supply and install conduit complete with all accessories including couplings, bends and fixings as specified:							
	PVC conduit cast in concrete or built in brick work:							
a	20 mm diameter.	m	10					
	PVC conduit suspended in ceiling void:							
b	20 mm diameter.	m	25					
4.2	CONDUIT BOXES							
	Supply and install conduit boxes complete with all accessories including conduit adaptors:							
	Round boxes including covers:							
a	PVC 60 mm, 25 mm deep for 20 mm conduit.	No	6					
b	Round 60 mm diameter, 25 mm deep for 20 mm galvanized steel conduit box.	No.	2					
	Outlet boxes excluding covers:							
c	100 mm x 50 mm x 50 mm pressed steel.	No	2					
4.3	CONDUCTORS							
	Supply and install PVC insulated Copper conductors in required colours, drawn into conduit or trucking:							
a	2.5 sq. mm.	m	50					
	Supply and install bare Copper earth wire drawn into conduit (appropriate PVC insulated Cu. earth wire shall be used in power skirting or trunking):							
b	2.5 sq. mm.	m	25					
4.4	LUMINAIRES							
	Supply, install and connect luminaires mounted as specified, complete with lamps, control gear and all accessories:							
a	Type F	No	4					
b	Type K	No	1					
c	Type O	No	1					
d	Type Y	No	6					
e	Non-maintained surface mount emergency escape luminaire (EXIT).	No	1					
4.5	MECHANICAL SWITCHES							
	Supply, install and connect light switch complete with steel cover plate and all accessories:							
a	16 A one lever, one way flush mount switch complete with cover plate.	No	2					
4.6	CONTROL GEAR							
	Supply, install and connect control gear complete with all accessories:							
a	16 A photocell surface mounted.	No	1					
Total Carried Forward To Summary								

North West Provincial Government: Dpt. of Health
Electrical Installation

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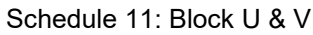
North West Provincial Government: Dpt. of Health
Electrical Installation



Section 6: Conduit for Electronic Services

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North West Provincial Government: Dpt. of Health
Electrical Installation

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RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
Electrical Installation



Schedule 11: Block U & V

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Distribution Boards	.....
2	Section 2: Power - General Purpose Outlets	.....
3	Section 3: Appliances	.....
4	Section 4: Lighting	.....
5	Section 5: Channeling Systems	.....
6	Section 6: Conduit for Electronic Services	.....
7	Section 7: Testing & Commissioning	.....
Total Carried Forward To Summary Of Schedules		.....

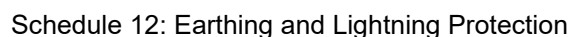
North West Provincial Government: Dpt. of Health
Electrical Installation



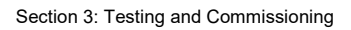
Section 1: Earthing

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North West Provincial Government: Dpt. of Health
Electrical Installation

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North West Provincial Government: Dpt. of Health
Electrical Installation

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RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
Electrical Installation



Schedule 12: Earthing and Lightning Protection

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Earthing	.....
2	Section 2: Lightning Protection	.....
3	Section 3: Testing and Commissioning	.....
Total Carried Forward To Summary Of Schedules		.....

RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health

Electrical Installation



Schedule 13: Security and Streetlighting

Section 1: Security Lighting

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 1: SECURITY LIGHTING							
1.1	EXCAVATION							
a	Excavate a trench 450 mm wide x 500 mm deep to lay cable, marker tape, backfill, compaction and reinstatement of surfaceExcavate a trench 450 mm wide x 500 mm deep to lay cable, marker tape, backfill, compaction and reinstatement of surface.	m	800					
b	Excavation of 600 mm deep holes for planting of poles.	No	25					
1.2	LIGHTING SUPPORTS							
	All street lighting supports to be supplied complete with poles, switchgear compartment & cover plates, base plates where applicable etc.							
a	Supply & install 76 mm top diameter hot dipped galvanised steel mast of mineral grey paint finish with overall length of 3.6 m for direct embedment in ground and complete with accessories including 2,5 mm ² internal wiring, BCEW, pole earthing and access cover as per specifications	No	25					
b	Supply & install 76 mm top diameter hot dipped galvanised steel mast of mineral grey paint finish with overall length of 3 m for base mounting and complete with accessories including base plate, 2,5 mm ² internal wiring, BCEW, pole earthing and access cover as per specifications	No					Rate Only	
1.3	LUMINAIRES							
	All luminaires to be supplied complete with control gear.							
a	Supply and install powder coated high-pressure die-cast aluminium post top LED luminaire with IP66 and symmetrical distribution for mounting onto matching 76 mm diameter steel pole equal or equivalent to Beka's ZELA LED 55W with 24 LEDs.	No	25					
b	Supply, install and connect up die cast aluminium body with tempered glass LED floodlight Luminaire equipped with motion sensor. Total power rating of LEDs to be 30W with builtin driver. Adjustable sensor for Lux, time and sensitivity of 25 metre range throughput. IP rating of IP65.	No.	5					
1.4	FUSE							
	Supply and install low voltage fuses and related equipment							
a	Bussmann fuse carrier part no. CHD1038D, or equivalent	No	0					
b	Bussmann fuse part no. C10M10, or equivalent	No	0					
c	DIN Rail	No	0					
1.5	STREETLIGHTING CONTROL PANEL CONNECTIONS							
a	Connect street light poles into streetlight circuits.	Sum						
b	Labeling for this section	Sum						
1.6	MISCELLANEOUS							
a	Any additional work which the tenderer deem necessary specific to this equipment to successfully complete this section. (Tenderer to qualify in cover letter)	Sum						
1.7	CABLES							
	Supply and install 600/1000V in trenches prepared as per specifications. i.e. 600mm depth and 450mm wide							
a	4 mm ² 4-core PVC/PVC/SWA/PVC Cu cable.	m	700					
b	4 mm ² Bare Copper Earth Wire.	m	700					
c	4 mm ² 4-core PVC/PVC/SWA/PVC cable terminations.	No	26					
Total Carried Forward								

North West Provincial Government: Dpt. of Health
Electrical Installation



Section 1: Security Lighting

[illegible]

RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
Electrical Installation



Schedule 13: Security and Streetlighting

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Security Lighting	.....
Total Carried Forward To Summary Of Schedules		_____

North West Provincial Government: Dpt. of Health
Electrical Installation

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RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
Electrical Installation

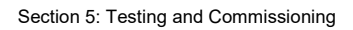


Schedule 14: Low Voltage Site Distribution

Section 2: Trenching

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT	
							R	c
	SECTION 2: TRENCHING							
	"Rates for trenching shall be inclusive of re-instatement of excavated materials. All sleeves shall be laid on a 150 mm thick bedding of sifted river sand as well as a covering of an equal thickness of the same material where required."							
	All trenches for MV cable shall be excavated to a minimum depth of 1000mm below the finished ground level irrespective of the size of sleeve installed.							
2.1	TRENCHES FOR LOW VOLTAGE CABLES							
	Trenching and re-instatement for 450 mm x 700 mm measured in linear length.							
a	In hand-pickable soil.	m	75					
b	In soft rock.	m	300					
c	In hard rock.	m	50					
d	Supply and installation of sifted sand in trenches.	m³	53					
e	PVC danger warning tape installed 300 mm above cable.	m	500					
2.2	TRENCHES FOR ELECTRONIC SERVICES CABLES							
	Trenching and re-instatement for 450 mm x 800 mm measured in linear length.							
a	In hand-pickable soil.	m	50					
b	In soft rock.	m	200					
c	In hard rock.	m	50					
d	Supply and installation of sifted sand in trenches.	m³	30					
e	PVC danger warning tape installed 400 mm above cable.	m	450					
2.3	CABLE SLEEVES							
a	Supply and install 110 mm diameter HDPE sleeves (Code Name Kabelflex - Black) or similar including sealing of sleeve ends excluding excavation.	m	50					
b	Supply and install 110 mm diameter HDPE sleeves (Code Name Kabelflex - Green) or similar including sealing of sleeve ends excluding excavation.	m	300					
c	Supply and install 50 mm diameter HDPE sleeves (Code Name Kabelflex - Black) or similar including sealing of sleeve ends excluding excavation.	m	50					
d	Supply and install 50 mm diameter HDPE sleeves (Code Name Kabelflex - Green) or similar including sealing of sleeve ends excluding excavation.	m	100					
e	Provide 5.0 mm dia. drawwire.	kg	10					
2.4	INSPECTION PIT							
a	Supply and install in ground round fibre cement chamber, base and concrete coping with a steel lid & mechanical lock 500 mm dia. x 500 mm deep precast handhole.	No	3					
b	Supply and install in ground round fibre cement chamber, base and concrete coping with a steel lid & mechanical lock 1000 mm dia. x 1000 mm deep precast manhole.	No	1					
4.5	SUNDRIES							
a	Supply and install cable markers indicating ring cable route as specified in the Technical Specification.	No.	30					
b	Provide all notices and danger warning signs as required by law and as described.	Sum						
Total Carried Forward To Summary								

North West Provincial Government: Dpt. of Health
Electrical Installation

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RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
Electrical Installation



Schedule 14: Low Voltage Site Distribution

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Low Voltage Cabling	.....
2	Section 2: Trenching	.....
5	Section 5: Testing and Commissioning	.....
Total Carried Forward To Summary Of Schedules		.....

North West Provincial Government: Dpt. of Health
Electrical Installation

[illegible]

North West Provincial Government: Dpt. of Health
Electrical Installation

[illegible]

RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
Electrical Installation



Schedule 15: Emergency and Stand-by Power Systems

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Standby Generators	.....
2	Section 2: Uninterruptible Power Supply	.....
Total Carried Forward To Summary Of Schedules		.....

North West Provincial Government: Dpt. of Health
Electrical Installation



Section 1: Traffic Signals

[illegible]

RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
Electrical Installation



Schedule 16: PC and Provisional Sums

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	Section 1: Traffic Signals	.....
Total Carried Forward To Summary Of Schedules		_____

RENOVATIONS AND EXTENSIONS FOR EXCELSIUS NURSE COLLEGE - PHASE 1 COMPLETION PROJECT

North West Provincial Government: Dpt. of Health
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SUMMARY OF SCHEDULES

SCHEDULE	DESCRIPTION	AMOUNT (RAND)
1	Schedule 1: Preliminaries and General	
1	Schedule 1: Preliminaries & General	.....
2	Schedule 2: Block C	.....
3	Schedule 3: Block D	.....
4	Schedule 4: Block E	.....
5	Schedule 5: Block F	.....
6	Schedule 6: Block H	.....
7	Schedule 7: Block J	.....
8	Schedule 8: Block M&R	.....
9	Schedule 9: Block S	.....
10	Schedule 10: Block N	.....
11	Schedule 11: Block U & V	.....
12	Schedule 12: Earthing and Lightning Protection	.....
13	Schedule 13: Security and Streetlighting	.....
14	Schedule 14: Low Voltage Site Distribution	.....
15	Schedule 15: Emergency and Stand-by Power Systems	.....
16	Schedule 16: PC and Provisional Sums	.....
	SUBTOTAL	.....
1	Add 10% Contingency	.....
	SUBTOTAL	.....
2	Add 15% VAT	.....
	Total	.....