

## ELECTRICAL INSTALLATIONS

TOTAL CARRIED FORWARD TO SUMMARY	
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ITEM	DESCRIPTION	UNIT	QTY	LABOUR RATE	MATERIAL RATE	TOTAL RATE
BROUGHT FORWARD						
2.16	c) 6mm² x 2C	No	6			
2.16	Allow for payment to NORED for connection fee	Sum	1			
2.17	Supply and insall siren in metal cage	No	1			
	Supply and installation of surface weatherproof lockable Meterboard including wiring and termination					
2.18	a) Enclosure with 50% spare space	No	1			
2.19	b) 60A/TP/CB	No	1			
2.20	b) 40A/DP/CB	No	1			
2.21	c) 25A/SP/CB	No	6			
2.22	d) 20A/SP/CB	No	1			
	<b>CLASSROOM BLOCKS (BRICK &amp; ZINC)</b>					
	Supply and installation of surface distribution boards complete with switchgear, doors, cables, locks.					
2.23	a) Enclosure with 20% spare space	No	8			
2.24	b) 40A DP CB	No	2			
2.25	c) 60A DP EL-Isolator, 6kA	No	8			
2.26	d) 5A to 40A SP CB 6kA sockets	No	32			
2.27	e) 10A SP MCB - 6kA - lights	No	16			
2.28	f) 16A Isolator, by-pass	No	2			
2.29	g) 20A TP Contactor	No	8			
	16 Amp surface wall mounted galvanised socket outlets including 4mm² wiring, steel conduits, saddles, bends, couplers, chasing etc.					
2.30	a) 16A SSO	No	17			
	Supply, delivery and installation of the following light fittings and bulbs:-					
TOTAL CARRIED FORWARD						

ITEM	DESCRIPTION	UNIT	QTY	LABOUR RATE	MATERIAL RATE	TOTAL RATE
BROUGHT FORWARD						
2.31	a) Type A	No	40			
2.32	b) Type B	No	20			
2.33	c) Type E	No	22			
2.34	Supply and installation of light points complete with 2,5mm² wiring, steel conduits etc.	No	82			
2.35	Supply and installation of earth rods plus connection to roof steel as per detail.	No	10			
2.36	Supply and installation of earth conductor connections as required to distribution board and bonding as required. Supply and installation of height switches:-	No	10			
2.37	a) one way	No	16			
2.38	b) daylight switch in bulkhead fitting	No	2			
<b>TOILET BLOCK</b>						
	Supply and installation of surface distribution boards complete with switchgear, doors, cables, locks.					
2.39	a) Enclosure weatherproof with 20% spare space	No	1			
2.40	b) 30A DP-Isolator, 6kA	No	1			
2.41	c) 16A SP MCB - 6kA	No	1			
2.42	d) 16A SP Isolator, by-pass	No	1			
2.43	e) 20A TP Contactor	No	1			
	Supply, delivery and installation of the following light fittings:-					
2.44	a) E	No	7			
2.45	Supply and installation of light points complete with 2,5mm² wiring, steel conduits etc.	No	7			
2.46	Supply and installation of earth rods plus connection to roof steel as per detail.	No	2			
2.47	Supply and installation of earth conductor connections as required to distribution board and bonding as required.	Sum	1			
TOTAL CARRIED FORWARD						

ITEM	DESCRIPTION	UNIT	QTY	LABOUR RATE	MATERIAL RATE	TOTAL RATE
BROUGHT FORWARD						
	Supply and installation of light switches:-					
2.48	a) one way surface weatherproof	No	1			
2.49	b) daylight switch in bulkhead fitting	No	1			
<b>CHURCH</b>						
2.50	Supply and installation of readyboard with baseplate, complete	No	1			
2.51	Supply and installation of prepaid meter with baseplate, complete	No	1			
	16 Amp surface wall mounted galvanised socket outlets including 4mm² wiring, steel conduits, saddles, bends, couplers, chasing etc.					
2.52	a) 16A SSO Supply, delivery and installation of the following light fittings:-	No	1			
2.53	a) Type A	No	2			
2.54	b) Type E	No	1			
2.55	Supply and installation of light points complete with 2,5mm² wiring, steel conduits etc.	No	3			
2.56	Supply and installation of earth rods plus connection to roof steel as per detail.	No	2			
2.57	Supply and installation of earth conductor connections as required to distribution board and bonding as required	Sum	1			
	Supply and installation of light switches:-					
2.58	a) one way	No	1			
<b>CLINIC</b>						
2.59	Supply and installation of readyboard with baseplate, complete	No	1			
2.60	Supply and installation of prepaid meter with baseplate, complete	No	1			
TOTAL CARRIED FORWARD						

ITEM	DESCRIPTION	UNIT	QTY	LABOUR RATE	MATERIAL RATE	TOTAL RATE
BROUGHT FORWARD						
	16 Amp surface wall mounted galvanised socket outlets including 4mm² wiring, steel conduits, saddles, bends, couplers, chasing etc.					
2.61	a) 16A SSO	No	1			
	Supply, delivery and installation of the following light fittings:-					
2.62	a) Type A	No	2			
2.63	b) Type E	No	1			
2.64	Supply and installation of light points complete with 2,5mm² wiring, steel conduits etc.	No	3			
2.65	Supply and installation of earth rods plus connection to roof steel as per detail.	No	2			
2.66	Supply and installation of earth conductor connections as required to distribution board and bonding as required	Sum	1			
	Supply and installation of light switches:-					
2.67	a) one way	No	1			
TOTAL CARRIED FORWARD TO SUMMARY						

ITEM	DESCRIPTION	UNIT	QTY	LABOUR RATE	MATERIAL RATE	TOTAL RATE
3	<b>ONALUTHIPA PRIMARY SCHOOL</b>					
	<b>CIVIL WORK</b>					
3.1	Trench in pickable material for 600/1000V LT underground cables, complete with warning tape, backfill and compaction.	m	630			
3.2	50mm diameter PVC sleeves for cable entry installed complete including draw-wires.	m	10			
3.3	50mm diameter PVC long radius bends for cable entry to DB's.  Supply and installation of channel	No	1			
3.4	- P2000	m	10			
3.5	- P9000	m	1			
3.6	Allow for making good to damaged floors and walls  <b>1000V CABLE RETICULATION</b>  Supply and delivery and installation of 1000V PVC SWA PVC cables (copper).	Sum	1			
3.7	a) 16mm <sup>2</sup> x 4C (to School MeterBoard)	m	100			
3.8	b) 10mm x 2C (Brick Classroom, Clinic, Church)	m	480			
3.9	c) 6mm <sup>2</sup> x 2C (Ablution + Zinc Classroom)  Supply and delivery and installation of bare copper earth wire.	m	50			
3.10	a) 10mm <sup>2</sup>	m	100			
3.11	a) 6mm <sup>2</sup>	m	480			
3.12	a) 4mm <sup>2</sup>  Supply and delivery and installation of termination units including mechanical clamps, lugs, corrotion, proof bolts, nuts washers etc. to terminate the following cables:-	m	50			
3.13	a) 16mm <sup>2</sup> x 4C	No	2			
3.14	b) 10mm x 2C	No	20			
<b>TOTAL CARRIED FORWARD</b>						

ITEM	DESCRIPTION	UNIT	QTY	LABOUR RATE	MATERIAL RATE	TOTAL RATE
BROUGHT FORWARD						
3.15	c) 6mm² x 2C	No	4			
3.16	Allow for payment to NORED for connection fee	Sum	1			
3.17	Supply and insall siren in metal cage	No	1			
	Supply and installation of surface weatherproof lockable Meterboard including wiring and termination					
3.18	a) Enclosure with 50% spare space	No	1			
3.19	b) 60A/TP/CB	No	1			
3.20	b) 40A/DP/CB	No	1			
3.21	c) 25A/SP/CB	No	6			
3.22	d) 20A/SP/CB	No	1			
	<b>CLASSROOM BLOCKS (BRICK &amp; ZINC)</b>					
	Supply and installation of surface distribution boards complete with switchgear, doors, cables, locks.					
3.23	a) Enclosure with 20% spare space	No	9			
3.24	b) 40A DP CB	No	3			
3.25	c) 60A DP EL-Isolator, 6kA	No	9			
3.26	d) 5A to 40A SP CB 6kA sockets	No	36			
3.27	e) 10A SP MCB - 6kA - lights	No	18			
3.28	f) 16A Isolator, by-pass	No	3			
3.29	g) 20A TP Contactor	No	9			
	16 Amp surface wall mounted galvanised socket outlets including 4mm² wiring, steel conduits, saddles, bends, couplers, chasing etc.					
3.30	a) 16A SSO	No	13			
	Supply, delivery and installation of the following light fittings:-					
TOTAL CARRIED FORWARD						



ITEM	DESCRIPTION	UNIT	QTY	LABOUR RATE	MATERIAL RATE	TOTAL RATE
BROUGHT FORWARD						
3.31	a) Type A	No	36			
3.32	b) Type B	No	16			
3.33	c) Type E	No	20			
3.34	Supply and installation of light points complete with 2,5mm² wiring, steel conduits etc.	No	72			
3.35	Supply and installation of earth rods plus connection to roof steel as per detail.	No	10			
3.36	Supply and installation of earth conductor connections as required to distribution board and bonding as required. Supply and installation of height switches:-	No	10			
3.37	a) one way	No	11			
3.38	b) daylight switch in bulkhead fitting	No	3			
TOILET BLOCK						
	Supply and installation of surface distribution boards complete with switchgear, doors, cables, locks.					
3.39	a) Enclosure weatherproof with 20% spare space	No	1			
3.40	b) 30A DP-Isolator, 6kA	No	1			
3.41	c) 16A SP MCB - 6kA	No	2			
3.42	d) 16A SP Isolator, by-pass	No	1			
3.43	e) 20A TP Contactor	No	1			
	Supply, delivery and installation of the following light fittings:-					
3.44	a) E	No	7			
3.45	Supply and installation of light points complete with 2,5mm² wiring, steel conduits etc.	No	7			
3.46	Supply and installation of earth rods plus connection to roof steel as per detail.	No	1			
3.47	Supply and installation of earth conductor connections as required to distribution board and bonding as required.	Sum	1			
TOTAL CARRIED FORWARD						

ITEM	DESCRIPTION	UNIT	QTY	LABOUR RATE	MATERIAL RATE	TOTAL RATE
BROUGHT FORWARD						
	Supply and installation of light switches:-					
3.48	a) one way surface weatherproof	No	1			
3.49	b) daylight switch in bulkhead fitting	No	1			
<b>CHURCH</b>						
3.50	Supply and installation of readyboard with baseplate, complete	No	1			
3.51	Supply and installation of prepaid meter with baseplate, complete	No	1			
	16 Amp surface wall mounted galvanised socket outlets including 4mm² wiring, steel conduits, saddles, bends, couplers, chasing etc.					
3.52	a) 16A SSO Supply, delivery and installation of the following light fittings:-	No	1			
3.53	a) Type A	No	2			
3.54	b) Type E	No	1			
3.55	Supply and installation of light points complete with 2,5mm² wiring, steel conduits etc.	No	3			
3.56	Supply and installation of earth rods plus connection to roof steel as per detail.	No	2			
3.57	Supply and installation of earth conductor connections as required to distribution board and bonding as required	Sum	1			
	Supply and installation of light switches:-					
3.58	a) one way	No	1			
<b>CLINIC</b>						
3.59	Supply and installation of readyboard with baseplate, complete	No	1			
3.60	Supply and installation of prepaid meter with baseplate, complete	No	1			
TOTAL CARRIED FORWARD						

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ITEM	DESCRIPTION	UNIT	QTY	LABOUR RATE	MATERIAL RATE	TOTAL RATE
BROUGHT FORWARD						
4.15	c) 6mm² x 2C	No	6			
4.16	Allow for payment to NORED for connection fee	Sum	1			
4.17	Supply and insall siren in metal cage	No	1			
	Supply and installation of surface weatherproof lockable Meterboard including wiring and termination					
4.18	a) Enclosure with 50% spare space	No	1			
4.19	b) 60A/TP/CB	No	1			
4.20	b) 40A/DP/CB	No	1			
4.21	c) 25A/SP/CB	No	2			
4.22	d) 20A/SP/CB	No	1			
	<b>CLASSROOM BLOCKS (BRICK &amp; ZINC)</b>					
	Supply and installation of surface distribution boards complete with switchgear, doors, cables, locks.					
4.23	a) Enclosure with 20% spare space	No	1			
4.24	b) 40A DP CB	No	1			
4.25	c) 60A DP EL-Isolator, 6kA	No	1			
4.26	d) 5A to 40A SP CB 6kA sockets	No	4			
4.27	e) 10A SP MCB - 6kA - lights	No	2			
4.28	f) 16A Isolator, by-pass	No	2			
4.29	g) 20A TP Contactor	No	2			
	16 Amp surface wall mounted galvanised socket outlets including 4mm² wiring, steel conduits, saddles, bends, couplers, chasing etc.					
4.30	a) 16A SSO	No	2			
	Supply, delivery and installation of the following light fittings:-					
TOTAL CARRIED FORWARD						

ITEM	DESCRIPTION	UNIT	QTY	LABOUR RATE	MATERIAL RATE	TOTAL RATE
BROUGHT FORWARD						
4.31	a) Type A	No	1			
4.32	c) Type E	No	8			
4.33	Supply and installation of light points complete with 2,5mm <sup>2</sup> wiring, steel conduits etc.	No	9			
4.34	Supply and installation of earth rods plus connection to roof steel as per detail.	No	2			
4.35	Supply and installation of earth conductor connections as required to distribution board and bonding as required. Supply and installation of height switches:-	No	2			
4.36	a) one way	No	1			
4.37	b) daylight switch in bulkhead fitting	No	1			
TOILET BLOCK						
	Supply and installation of surface distribution boards complete with switchgear, doors, cables, locks.					
4.38	a) Enclosure weatherproof with 20% spare space	No	1			
4.39	b) 30A DP-Isolator, 6kA	No	1			
4.40	c) 16A SP MCB - 6kA	No	2			
4.41	d) 16A SP Isolator, by-pass	No	1			
4.42	e) 20A TP Contactor	No	1			
	Supply, delivery and installation of the following light fittings:-					
4.43	a) E	No	1			
4.44	Supply and installation of light points complete with 2,5mm <sup>2</sup> wiring, steel conduits etc.	No	1			
4.45	Supply and installation of earth rods plus connection to roof steel as per detail.	No	1			
4.46	Supply and installation of earth conductor connections as required to distribution board and bonding as required.	Sum	1			
TOTAL CARRIED FORWARD						

ITEM	DESCRIPTION	UNIT	QTY	LABOUR RATE	MATERIAL RATE	TOTAL RATE
BROUGHT FORWARD						
	Supply and installation of light switches:-					
4.47	a) one way surface weatherproof	No	1			
4.48	b) daylight switch in bulkhead fitting	No	1			
<b>CHURCH</b>						
4.49	Supply and installation of readyboard with baseplate, complete	No	1			
4.50	Supply and installation of prepaid meter with baseplate, complete	No	1			
	16 Amp surface wall mounted galvanised socket outlets including 4mm <sup>2</sup> wiring, steel conduits, saddles, bends, couplers, chasing etc.					
4.51	a) 16A SSO Supply, delivery and installation of the following light fittings:-	No	1			
4.52	a) Type A	No	2			
4.53	b) Type E	No	1			
4.54	Supply and installation of light points complete with 2,5mm <sup>2</sup> wiring, steel conduits etc.	No	3			
4.55	Supply and installation of earth rods plus connection to roof steel as per detail.	No	2			
4.56	Supply and installation of earth conductor connections as required to distribution board and bonding as required	Sum	1			
	Supply and installation of light switches:-					
4.57	a) one way	No	1			
<b>CLINIC</b>						
4.58	Supply and installation of readyboard with baseplate, complete	No	1			
4.59	Supply and installation of prepaid meter with baseplate, complete	No	1			
TOTAL CARRIED FORWARD						

ITEM	DESCRIPTION	UNIT	QTY	LABOUR RATE	MATERIAL RATE	TOTAL RATE
BROUGHT FORWARD						
	16 Amp surface wall mounted galvanised socket outlets including 4mm <sup>2</sup> wiring, steel conduits, saddles, bends, couplers, chasing etc.					
4.60	a) 16A SSO	No	1			
	Supply, delivery and installation of the following light fittings:-					
4.61	a) Type A	No	2			
4.62	b) Type E	No	1			
4.63	Supply and installation of light points complete with 2,5mm <sup>2</sup> wiring, steel conduits etc.	No	3			
4.64	Supply and installation of earth rods plus connection to roof steel as per detail.	No	2			
4.65	Supply and installation of earth conductor connections as required to distribution board and bonding as required	Sum	1			
	Supply and installation of light switches:-					
4.66	a) one way	No	1			
TOTAL CARRIED FORWARD TO SUMMARY						



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