









**SECTION X4: ELECTRICAL INSTALLATION: LV DISTRIBUTION BOARDS COMPLETE WITH SWITCHGEAR**

ITEM NO	PAY-MENT CLAUSE	DESCRIPTION	UNIT	QTY	MATERIAL		LABOUR	
					RATE	TOTAL	RATE	TOTAL
					N\$	N\$	N\$	N\$
<b>4</b>		<b>LV DISTRIBUTION BOARDS COMPLETE WITH SWITCHGEAR</b>						
		As per standard and project specifications and according to wiring diagrams. Enclosure rates to include housing, busbars neutral bars, earth bars, busbar links, mounting plates, trays, architraves, doors or transparent covers with hinges as well as all fittings and fixtures for a complete distribution board installation and commissioning excluding switchgear (listed separately below). All boards to be sized for 35% switchgear spare capacity. All switchgear except to be suitable for DIN-rail mounting.						
<b>4.1</b>		<b>MDB:SCHOOL</b>						
4.1.1		Weatherproof Surface wall-mounted enclosure, Epoxy powder coated, and have top-hung doors with pad-lockable latches, equal to the GEM Manufacture	No	1				
4.1.2		Switchgear for the above, installed, wired , connected						
4.1.2.1		50A SP MCB	No	1				
4.1.2.2		30A SP MCB	No	5				
4.1.2.3		20A SP MCB	No	1				
4.1.2.4		10A SP MCB	No	1				
4.1.2.5		63A DP ELCB	No	1				
<b>4.2</b>		<b>DB-1:ABLUTION (EXISTING)</b>						
4.2.1		Switchgear for the above, installed, wired , connected						
4.2.1.1		30A SP MCB	No	1				
4.2.1.2		20A SP MCB	No	1				
4.2.1.3		10A SP MCB	No	1				
<b>4.3</b>		<b>DB-2:STAFF OFFICE (EXISTING)</b>						
4.3.1		Switchgear for the above, installed, wired , connected						
4.3.1.1		30A SP MCB	No	1				
4.3.1.2		20A SP MCB	No	1				
4.3.1.3		10A SP MCB	No	1				
<b>TOTALS CARRIED FORWARD TO NEXT PAGE</b>								

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ITEM NO	PAY- MENT CLAUS	DESCRIPTION	UNIT	QTY	MATERIAL		LABOUR	
					RATE	TOTAL	RATE	TOTAL
					N\$	N\$	N\$	N\$
<b>TOTALS BROUGHT FORWARD FROM PREVIOUS PAGE</b>								
<b>4.4</b>		<b>DB-3:BLOCK 3 (EXISTING)</b>						
4.4.1		Switchgear for the above, installed, wired , connected						
4.4.1.1		30A SP MCB	No	1				
4.4.1.2		20A SP MCB	No	1				
4.4.1.3		10A SP MCB	No	1				
<b>4.4</b>		<b>DB-3.1:HOSTEL 4 (EXISTING)</b>						
4.4.1		Switchgear for the above, installed, wired , connected						
4.4.1.1		30A SP MCB	No	1				
4.4.1.2		20A SP MCB	No	1				
4.4.1.3		10A SP MCB	No	1				
<b>4.4</b>		<b>DB-3.2:HOSTEL 5 (EXISTING)</b>						
4.4.1		Switchgear for the above, installed, wired , connected						
4.4.1.1		30A SP MCB	No	1				
4.4.1.2		20A SP MCB	No	1				
4.4.1.3		10A SP MCB	No	1				
<b>4.4</b>		<b>DB-4:HOSTEL 1 (EXISTING)</b>						
4.4.1		Switchgear for the above, installed, wired , connected						
4.4.1.1		30A SP MCB	No	1				
4.4.1.2		20A SP MCB	No	1				
4.4.1.3		10A SP MCB	No	1				
<b>TOTALS CARRIED FORWARD TO NEXT PAGE</b>								

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ITEM NO	PAY- MENT CLAUS	DESCRIPTION	UNIT	QTY	MATERIAL		LABOUR	
					RATE	TOTAL	RATE	TOTAL
					N\$	N\$	N\$	N\$
<b>TOTALS BROUGHT FORWARD FROM PREVIOUS PAGE</b>								
<b>4.5</b>		<b>DB-4.1:HOSTEL 2 (EXISTING)</b>						
4.5.1		Switchgear for the above, installed, wired , connected						
4.5.1.1		30A SP MCB	No	1				
4.5.1.2		20A SP MCB	No	1				
4.5.1.3		10A SP MCB	No	1				
<b>4.6</b>		<b>DB-4.2:KITCHEN (NEW)</b>						
4.6.1		Weatherproof Surface wall-mounted enclosure, Epoxy powder coated, and have top-hung doors with pad- lockable latches, equal to the GEM Manufacture	No	1				
4.6.2		Switchgear for the above, installed, wired , connected						
4.6.2.1		30A SP MCB	No	1				
4.6.2.2		20A SP MCB	No	1				
4.6.2.3		10A SP MCB	No	1				
4.6.2.4		63A DP ELCB	No	1				
<b>4.7</b>		<b>DB-4.3:HOSTEL 3 (EXISTING)</b>						
4.7.1		Switchgear for the above, installed, wired , connected						
4.7.1.1		30A SP MCB	No	1				
4.7.1.2		20A SP MCB	No	1				
4.7.1.3		10A SP MCB	No	1				
<b>4.8</b>		<b>DB-5:BLOCK 2 (EXISTING)</b>						
4.8.1		Switchgear for the above, installed, wired , connected						
4.8.1.1		30A SP MCB	No	1				
4.8.1.2		20A SP MCB	No	1				
4.8.1.3		10A SP MCB	No	1				
<b>TOTALS CARRIED FORWARD TO NEXT PAGE</b>								



**SECTION X5: ELECTRICAL INSTALLATION:OUTLETS AS SPECIFIED**

ITEM NO	PAY- MENT CLAUS	DESCRIPTION	UNIT	QTY	MATERIAL		LABOUR	
					RATE	TOTAL	RATE	TOTAL
					N\$	N\$	N\$	N\$
5		<b>OUTLETS AS SPECIFIED</b>						
5.1		<b>Switched socket outlet "Mains Power" flush wall mounted single type.</b> Supply, delivery, and installation of single switched socket outlet for <b>16A - 3 Pin/230V</b> South African Standard plugs type <b>Legrand Arteor Colour White</b> . The rate shall include all conduiting, ducting, and wiring from the DB. 2.5mm <sup>2</sup> PVC insulated copper wire shall be used for live and neutral conductors, and 2,5 mm <sup>2</sup> PVC insulated copper wire shall be used for the earth conductor. The socket shall be installed inside a flush-mounted 100 x 100 mm PVC box. <b>Note:</b> Each Socket-outlet point shall include socket outlets complying with the dimensions of <b>SANS 164-1</b> in addition to the <b>SANS 164-2</b> socket-outlet.	No	20				
5.2		<b>Light Points Standard.</b> Supply, delivery and installation of fixed outlet point for light fitting, Outlets may be flush-in brick wall, cast in concrete, or surface mounted on wall or void. The rate shall be for one light point based on an average wiring distance of 10m looping from point to point. 3x2.5mm <sup>2</sup> insulated copper wire shall be used used for live, neutral and earth. Light fittings are measured elsewhere.	No	65				
5.3		<b>Light Switch Single Lever One-Way Flush Wall Mounted.</b> Supply, deliver and installation of single lever one way light switch including cover plate and installed in flush mounted 100 x 50 mm galvanized steel box	No	14				
5.4		<b>Stove Isolator Switch Flush Wall Mounted.</b> Supply, deliver and installation of domestic flush wall mounted stove isolator rated 60A DP. The rate shall include all wiring from the DB. 6mm <sup>2</sup> PVC insulated copper wire shall be used for live and the neutral conductors. The rate shall further include a 60mm dia round box with cover plate and cable compression gland as well as 3m long 5 Core 6mm <sup>2</sup> flexible cable for the connection of the stove to the isolator	No.	2				
5.5		<b>Bell Siren.</b> Supply, delivery, and installation of School Bell / Siren with press release button. Similar or equal to <b>SIRENCO 500SL</b> ,		1				
5.6		<b>Daylight Switches</b> -Supply,delivery, installation, wiring and connection of daylight switch mounted inside a circle bulkhead light fitting over a round outlet box with a blank cover plate / or alternatively installed inside the DB - rated at 16 A, - complete - with bypass circuitbreaker.	No.	13				
5.7		Commissioning of the existing installation including testing of all circuits and earthing per DB	No	10				
5.8		<b>Any other items necessary to complete the above OUTLETS AS SPECIFIED not listed elsewhere</b> <u>Specify:</u>						
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>								





