

Warehouse for SARS Musina**Warehouse building****PRICE SCHEDULE : BILL No 1****Preliminary & General**

Do not add VAT to the individual items. Add VAT in the final summary.

The prices for the items must be inclusive of all costs to provide a COMPLETE installation.

Item	Description		Qty	Rate	Amount
1.1	Allowance should be made for preliminary items which are not priced with the bills of quantities items as follows: SUBCONTRACT CONDITIONS AND PRELIMINARIES				
1.1.1	JBCC Series 2000 n/s subcontract agreement preliminaries	Sum	1		-
1.2	SHOP DRAWING & SAMPLE APPROVAL				
1.2.1	Allow for the preparation of shop drawings and material samples for examination and approval as specified.	Sum	1		-
1.3	TESTING AND COMMISSIONING				
1.3.1	Allow for inspection, testing and commissioning of the complete installation. The Engineer will witness.	Sum	1		-
1.4	CERTIFICATE OF COMPLIANCE				
1.4.1	Allow for the provision of a Certificate of Compliance in terms of the SANS specifications for each completed distribution board.	Sum	1		-
1.5	MAINTENANCE INSTRUCTION MANUALS				
1.5.1	Allow for the provision of a complete set (3 Copies) of maintenance and operating manuals of the complete electrical installation as specified.	Sum	1		-
1.6	RECORD AS BUILT DRAWINGS				
1.6.1	Allow for the provision of a complete set (3 Copies) of marked up record "as-built" drawings of the final layout of the electrical services.	Sum	1		-
1.7	MAINTENANCE				
1.7.1	Allow for a maintenance period of 12 months in terms of equipment, material and workmanship, wear and tear and normal maintenance excluded. Note: luminaire maintenance will include lamp replacement	Sum	1		-
1.8	GUARANTEE PERIOD				
1.8.1	Allow for a 12 months guarantee period on all the electrical equipment.	Sum	1		-
TOTAL FOR BILL NO 1 CARRY FORWARD TO SUMMARY					R -

Warehouse for SARS Musina**Warehouse building****PRICE SCHEDULE : BILL No 2****Lighting and Small Power**

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Item	Description	Unit	Qty	Rate	Amount
2	Supply, installation, connections, testing, commissioning and handing over in working order of the lighting and small power point installations complete with conduits, conduit ends, draw boxes, switches, socket outlets, Pratley boxes, wiring, lugs, all fixing materials, bolts, nuts and washers, brackets and all small materials as required:				
2.1	CONDUIT AND ACCESSORIES				
	SANS approved PVC and galvanised steel conduits equipped with draw wire, included bending, threading, jointing, draw boxes, couplings, bends, tees, saddles etc. as specified.				
2.1.1	Built in brick or concrete				
a	20mm PVC Conduit - Supply	m	105		-
b	20mm PVC Conduit - Install	m	105		-
c	25mm PVC Conduit - Supply	m	200		-
d	25mm PVC Conduit - Install	m	200		-
e	25mm galvanised Conduit - Supply	m	180		-
f	25mm galvanised Conduit - Install	m	180		-
2.1.2	Surface mounted to any surface or in ceiling void				
a	20mm PVC Conduit - Supply	m	105		-
b	20mm PVC Conduit - Install	m	105		-
c	25mm PVC Conduit - Supply	m	100		-
d	25mm PVC Conduit - Install	m	100		-
2.2	CONDUIT BOXES				
2.2.1	Surface or flush mounted conduit boxes including fixing to conduit with necessary locknuts, adaptors, bushes, cover plates etc. as specified.				
a	100mm x 50mm x 50mm Galv Wall Box - Supply	No	24		-
b	100mm x 50mm x 50mm Galv Wall Box - Install	No	24		-
c	60mm dia Galv Round Draw Box - Supply	No	28		-
d	60mm dia Galv Round Draw Box - Install	No	28		-
2.3	WIREWAYS				
2.3.1	Wiring ducts and unistruts complete with splices, end caps, elbows, tees, crossovers, covers, hanger brackets, bolts, nuts, washers, screws, threaded rods, etc. as specified.				
a	P2000 Galv Trunking - Supply	m	620		-
b	P2000 Galv Trunking - Install	m	620		-
c	P8000 Galv Trunking - Supply	m	44		-
d	P8000 Galv Trunking - Install	m	44		-
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Item	Description	Unit	Qty	Rate	Amount
	TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE				R -
e	P9000 Galv Trunking - Supply	m	15		-
f	P9000 Galv Trunking - Install	m	15		-
2.4	CONDUCTORS FOR LIGHTING AND POWER POINTS				
2.4.1	600/1000V PVC insulated conductors, SABS approved, drawn into conduits, trunking or powerskirting including identification labels, terminating, etc.as indicated on the single line diagram.				
a	Lighting - 2.5mm ² Conductors - Supply	m	4200		-
b	Lighting - 2.5mm ² Conductors - Install	m	4200		-
c	Socket Outlet - 4mm ² Conductors - Supply	m	480		-
d	Socket Outlet - 4mm ² Conductors - Install	m	480		-
e	Isolator - 4mm ² Conductors - Supply	m	560		-
f	Isolator - 4mm ² Conductors - Install	m	560		-
2.4.2	Bare copper earth conductors drawn into conduits, trunking or powerskirting including identification labels, terminating etc. as indicated on the single line diagram.				
a	Lighting - 2.5mm ² BCEW - Supply	m	2100		-
b	Lighting - 2.5mm ² BCEW - Install	m	2100		-
c	Socket Outlet - 2.5mm ² BCEW - Supply	m	120		-
d	Socket Outlet - 2.5mm ² BCEW - Install	m	120		-
e	Isolator - 2.5mm ² BCEW - Supply	m	140		-
f	Isolator - 2.5mm ² BCEW - Install	m	140		-
2.5	LIGHT SWITCHES				
2.5.1	Light switch and accessories as specified in the specification. Allowance should be made for 16 Ampere 250V light switch c/w cover plates, screws etc. installed in flush wall boxes.				
a	1 Lever 1 Way - Supply	No	14		-
b	1 Lever 1 Way - Install	No	14		-
c	1 Lever 2 Way - Supply	No	2		-
d	1 Lever 2 Way - Install	No	2		-
e	Rotary type weatherproof light switches - Supply	No	4		-
f	Rotary type weatherproof light switches - Install	No	4		-
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Item	Description	Unit	Qty	Rate	Amount
2.7	TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE SWITCHED SOCKET OUTLETS				R -
2.7.1	Switched socket outlet and accessories as specified in the specification. Allowance should be made for the following flush mounted switched socket outlets c/w cover plates, screws etc. installed in flush wall boxes.				
a	16A 3 Pin single SSO - Supply	No	2		-
b	16A 3 Pin single SSO - Install	No	2		-
2.8	ISOLATORS				
2.8.1	Isolators and accessories as specified in the specification. Allowance should be made for the following surface mounted isolators c/w box, cover plates, screws etc. installed on any surface.				
a	30A 3 Pole isolator - Supply	No	2		-
b	30A 3 Pole isolator - Install	No	2		-
2.9	LUMINAIRES				
	SABS approved luminaires and accessories as specified in the schedules of luminaires. Allowance should be made for the following luminaires including fixing to any surface, connections, etc. as specified and as indicated on the drawings.				
2.9.1	Type F1				
a	Supply by Client from existing administration building	No	0		-
b	Clean	No	1		-
c	Install	No	1		-
2.9.2	Type F3				
a	Remove	No	1		-
b	Clean	No	1		-
c	Supply	No	1		-
d	Install	No	2		-
2.9.2	Type F5				
a	Remove (including access to roof at approximately 7m high)	No	18		-
b	Clean	No	16		-
c	Supply	No	16		-
d	Install	No	16		-
2.9.3	Type F6				
a	Supply	No	7		-
b	Install	No	7		-
2.9.4	Type F6E				
a	Supply	No	1		-
b	Install	No	1		-
	PAGE TOTAL - CARRIED TO NEXT PAGE				R -

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Item	Description	Unit	Qty	Rate	Amount
	TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE				R -
2.9.5	Type F7 (Voltex R1/R 2x54W ECG or similar approved)				
a	Supply	No	13		-
b	Install	No	13		-
2.9.6	Type B1				
a	Remove	No	34		-
b	Clean	No	34		-
c	Supply	No	42		-
d	Install	No	72		-
2.10	POWER SET BOXES (BELOW DESK)				
2.10.1	Under desk power set boxes with 2m red and white 1.5mm ² flyleads complete with one overload switch, 2 x 16A SSOs, 2 x 16A DSSOs , 1 x un-earthed two pin as manufactured by D4 (grid range) or Multibox (Multibox range)				
	Supply	No	6		-
	Install	No	6		-
2.11	EXISTING SERVICES				
2.11.1	Safely discard lamps	No	72		-
2.11.2	Remove light switch	No	2		-
2.11.3	Replace 85W CFL lamps - Type B2 (at approximately 7m AFFL)	No	6		-
2.11.4	Replace 2x9W PL lamps - Type B3 (approximately 5m AFFL)	No	27		-
TOTAL FOR BILL NO 2					R -
CARRY FORWARD TO SUMMARY					

Warehouse for SARS Musina

Warehouse building

PRICE SCHEDULE : BILL No 3

Low Voltage Reticulation

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Item	Description		Qty	Rate	Amount
3.1	NEW FEEDER CIRCUIT BREAKERS IN EXISTING DISTRIBUTION BOARDS				
3.1.1	Supply and installation of new feeder circuit breakers in existing distribution boards, complete with frames, busbars, wiring, connections, mounting in board, fixing materials, bolts, nuts and washers, labels including testing and commissioning. Circuit breakers to be of the same manufacturer as the existing circuit breakers in the distribution board. Fault level of circuit breaker shall be rated to withstand the fault level of the distribution board. Busbar droppers shall be rated to withstand the fault level of the distribution board and the current rating of the circuit breakers.				
a	5A single pole iC60a	No	9		-
	Supply	No	9		-
	Install	No	9		-
b	10A single pole iC60a	No	25		-
	Supply	No	25		-
	Install	No	25		-
c	10A three pole iC60a	No	2		-
	Supply	No	2		-
	Install	No	2		-
d	10A three pole iC60a	No	2		-
	Supply	No	2		-
	Install	No	2		-
e	20A one pole iC60a	No	3		-
	Supply	No	3		-
	Install	No	3		-
f	20A three pole iC60a	No	2		-
	Supply	No	2		-
	Install	No	2		-
g	63A Single phase double pole earth leakage unit with overload protection	No	1		-
	Supply	No	1		-
	Install	No	1		-
h	2.8kW AC1 contactor	No	2		-
	Supply	No	2		-
	Install	No	2		-
i	4.5kW AC1 contactor	No	1		-
	Supply	No	1		-
	Install	No	1		-
j	Surge protection class 2 with integral fuse. Dehnguard MTT 275 Part No 952 322 to be amended to the integral fused type	No	1		-
	Supply	No	1		-
	Install	No	1		-
PAGE TOTAL - CARRIED TO NEXT PAGE					R -

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PRICE SCHEDULE : BILL No 3

Low Voltage Reticulation

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Item	Description		Qty	Rate	Amount
	TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE				R -
3.2	WIRE BASKET				
	Galvanised 300mm wide welded wire mesh cable tray complete with covers, hangers, fixing anchors, lock nuts, bolts and all accessories to fix trunking to steel purlins				
3.2.1	300mm wide heavy duty wire mesh cable tray				
	Supply	m	220	R	-
	Install	m	220	R	-
3.2.2	Horizontal bend 90°				
	Supply	No	8	R	-
	Install	No	8	R	-
3.2.3	Riser / dropper				
	Supply	No	2	R	-
	Install	No	2	R	-
3.6.4	Tee radiused				
	Supply	No	5	R	-
	Install	No	5	R	-
3.7.1	150mm wide heavy duty wire mesh cable tray				
	Supply	m	50	R	-
	Install	m	50	R	-
3.8	Openings in wall for trunking				
3.8.1	Openings in 220mm thick brick wall for the following:				
a	75mm x 75mm high	No	6	R	-
TOTAL FOR BILL NO 3					R -
CARRY FORWARD TO SUMMARY					

Warehouse for SARS Musina

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PRICE SCHEDULE : BILL No 4

Earthing, bonding and lightning protection system installation

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Item	Description	Unit	Qty	Rate	Amount
	NOTE: Tenderers are advised to study the specification before pricing the bill. A SPECIALIST EARTHING AND LIGHTNING PROTECTION SUB-CONTRACTOR MUST BE USED FOR THIS INSTALLATION.				
4.1	Supply, delivery, installation, testing, commissioning and handing over in working condition and maintenance during the guarantee period of a complete earthing installation in accordance with the relevant SANS standards and as specified.				
	BUILDING EARTH SYSTEMS				
4.1.1	Carry out soil resistivity survey on site	Sum	1		R -
	Evaluation of soil resistivity survey, including soil survey graph and report.	Sum	1		R -
4.1.2	Earthing and lightning protection system and accessories as specified. Allowance should be made for the complete supply, delivery, installation, testing, commissioning and handing over in working condition and maintenance during the guarantee period of a complete earthing and lighting protection system as per the specification and the relevant SANS standards. A specialist Contractor to be appointed by the electrical Contractor for this installation.				
	9,5mmØ solid aluminium earth rod				
a	Supply	m	320		R -
b	Install	m	320		R -
	Roof conductor holder for 9.5mmØ aluminium conductor				
c	Supply	No	0		R -
d	Install	No	0		R -
	1.5m long copper clad earth electrode 20mmØ c/w clamp and connecting accessories, etc. (top of electrode 600mm below natural ground level)				
e	Supply	No	42		R -
f	Install	No	42		R -
	35mm² Kwena conductor to be laid in trench 650mm deep (trench by others)				
g	Supply	m			R -
h	Install	m			R -
	M10 Hex bolt with flat washer and brass nut				
i	Supply	No	2		R -
j	Install	No	2		R -
	Crosby clamp				
k	Supply	No	2		R -
l	Install	No	2		R -
	50mm² Stranded BCEW installed between earth electrode and air termination c/w with clamps, lugs, washers and accessories				
m	Supply	m	5		R -
n	Install	m	5		R -
	PAGE TOTAL - CARRIED TO NEXT PAGE				R -

Warehouse for SARS Musina

Warehouse building

PRICE SCHEDULE : BILL No 4

Earthing, bonding and lightning protection system installation

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Item	Description	Unit	Qty	Rate	Amount
	TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE				R -
o	Test joint c/w suitably-sized wallbox, cover plate, lightning	No	0		R -
p	Supply	No	0		R -
	Install				
q	Air terminations	No	0		R -
r	Supply	No	0		R -
	Install				
s	Roof terminations	No	42		R -
t	Supply	No	42		R -
	Install				
u	Foundation terminations	No	0		R -
v	Supply	No	0		R -
	Install				
y	SANS approved PVC, galvanised conduits equipped with draw wire, included bending, threading, jointing, draw boxes, couplings, bends, tees, saddles etc. as specified.	m	126		-
z	20mmø galv Conduit - Supply	m	126		-
	20mmø galv Conduit - Install				
aa	Earthing of steel structure including steel gutters and geysers	Sum	1		-
4.2	TESTING AND COMMISSIONING				
	Allow for inspection, testing and commissioning of the complete earthing and bonding installation included in this Bill No 4.	Sum	1		R -
4.3	EARTH TEST CERTIFICATE				
	Allow for the provision of a Certificate of Compliance in terms of the SANS specifications for the complete earthing and lightning protection system in this Bill No 4.	Sum	1		R -
4.4	MAINTENANCE AND OPERATING MANUALS				
	Allow for the provision of a complete set (3 Copies) of maintenance and operating manuals of the complete earthing and lightning protection system in this Bill No 4.	Sum	1		R -
4.5	AS BUILT DRAWINGS				
	Allow for the provision of a complete set (3 Copies) of marked up "as-built" drawings of the final layout of the earthing and lightning protection system in this Bill No 4.	Sum	1		R -
4.6	MARK-UP BY ELECTRICAL CONTRACTOR ON LIGHTNING PROTECTION CONTRACTOR WORK	%			R -
TOTAL FOR BILL NO 4					R -
CARRY FORWARD TO SUMMARY					

Warehouse for SARS Musina
Warehouse building

PRICE SCHEDULE : SUMMARY FOR THE ELECTRICAL INSTALLATION

Do not add VAT. Add VAT in the final summary.

Item	Description	Amount	Total
1	Bill No 1 : Preliminaries & general	R	
2	Bill No 2 : Lighting and small power	R	
3	Bill No 3 : Low voltage reticulation	R	
4	Bill No 4 : Earthing, bonding and lightning protection system installation	R	
5	Sub-total	R	
6	Add 15% Contingency	R	
*TOTAL FOR ELECTRICAL INSTALLATION CARRIED TO FINAL SUMMARY (EXCL VAT)		R	