



ELECTRICAL AND MINOR WORKS AT UNION STATION

SCOPE, SPECIFICATIONS AND SCHEDULE OF QUANTITIES

TABLE OF CONTENT

Contents	Page no
Annexure A Civil works BoQ.....	3 to 8
Annexure B Electrical work BoQ.....	9 to 13
Annexure C Final summary.....	13

ANNEXURE A CIVIL WORKS: SCHEDULE OF QUANTITIES

PROVISIONAL SCHEDULE OF QUANTITIES

MINOR UPGRADES AT UNION STATION

OCCUPATIONAL HEALTH AND SAFETY		<u>Unit</u>	<u>QTY</u>	<u>Rate</u>	<u>Amount</u>
<p>The contractor shall comply with all the requirements set out in the Construction Regulations, issued under The Occupational Health & Safety Act no 85 of 1993.</p> <p>Safety file shall be provided by the contractor prior to commencement of work.</p> <p>The contractor shall carry out the works with as little noise and mess as possible. All rubble shall be taken away from site on a daily basis.</p> <p>Note: All designated items should comply with local content threshold.</p>					
<u>BILL NO. 1</u>		<u>Unit</u>	<u>QTY</u>	<u>Rate</u>	<u>Amount</u>
<u>ALTERATIONS (PROVISIONAL)</u>					
<u>REMOVAL OF EXISTING WORK</u>					
Price shall include removal and disposal of rubble from site					
Taking out and removing piping, sanitary fittings, etc including disconnection piping from fittings					
1	WC completely pan and cistern	No.	6	R -	R -
Taking out and removing doors from steel frame					
2	Timber single door 813 x 2032mm high	No.	2	R -	R -
Taking out and removing glass, etc					
3	Glass from steel window frames including cleaning out rebates and preparing for new glass	m ²	5	R -	R -
Taking out and removing steel manhole frames					
4	600 x 500mm steel manhole frames and preparation of surfaces (removed frames to be returned to the employer)	No.	3	R -	R -

	Carried to final summary				R -
	<u>BILL NO 2</u>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>	<u>Amount</u>
	<u>CARPENTRY AND JOINERY</u>				
	<u>DOORS</u>				
	44mm thick interior grade flush solid core timber single door with 3mm thick commercial ply on both sides with consolidated edges fitted and complying with SABS 545 in pressed steel frame. All painted in accordance with architect's colour schedules				
1	813 x 2032 x 44mm single leaf solid core with commercial veneer for paint. pricing shall include painting as per manufactures specification	No.	3	R -	R -
	Carried to final summary				R -
	<u>BILL NO 3</u>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>	<u>Amount</u>
	<u>IRONMONGERY</u>				
	<u>LOCKS</u>				
	<u>Supply and install</u>				
1	Ultra-security heavy duty locks	No.	5	R -	R -
2	Indicator door lock chrome plated	No.	6	R -	R -
	Carried to final summary				R -
	<u>BILL NO 4</u>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>	<u>Amount</u>
	<u>PLUMBING WORK</u>				
	<u>SANITARY FITTINGS</u>				
	<u>SANITARY FITTINGS</u>				
	<u>Supply and install</u>				
1	Anti-vandal High traffic suite complete (Front flush), suite to includes CC Cistern, including CC Pan and and heavy duty seat.	No.	4	R -	R -

Urinal Basin							
2	Sanitary ware white vitreous china wall mounted urinal with top inlet (code 705426) or back inlet (code 7054Z1). Overall size 600x385x380mm. Supplied with 38mm c.p. domical grating, a spreader(with a 20mm tread) and two hanger brackets	No.	2	R	-	R	-
3	Wall mounted white Vandal Resistant Wash Hand Basin, 330mm (w) x 310 (d) x 325mm (h). Installation as per manufacturer's specification.	No.	2	R	-	R	-
4	50mm pipes with all connection and make good	m	20	R	-	R	-
TAPS, VALVES, ETC							
Supply and install							
5	15mm pillar tap for hot and cold water	No.	4	R	-	R	-
6	Exposed type flush valve with ball-o-stop, wall flange, chrome plate finish and non-hold open feature	No.	4	R	-	R	-
7	Flexi connector	No.	10	R	-	R	-
8	15 Brass Gate Valve	No.	2	R	-	R	-
9	Mini Ball Valve	No.	10	R	-	R	-
10	22mm Brass Gate Valve including cast iron valve box	No.	2	R	-	R	-
Extra over PVC pipes for fittings							
11	110mm pan connector completely	No.	6	R	-	R	-
WATER SUPPLIERS							
Class "O" copper pipe							
12	15mm pipes	m	30	R	-	R	-
13	15mm pipes chased into brick walls and make good	m	40	R	-	R	-
14	22mm pipes	m	10	R	-	R	-
15	22mm pipes chased into brick walls	m	30	R	-	R	-
Extra over class "O" copper pipes for capillary fittings							

16	15mm fitting	No.	15	R	-	R	-
17	22mm fitting	No.	15	R	-	R	-
18	15mm Tee	No.	20	R	-	R	-
19	22mm Tee	No.	10	R	-	R	-
PLATFORM MANHOLE COVERS AND FRAMES The concrete manhole covers to be installed completely frame and cover as per the applicable Standard							
20	Type 9B MD concrete lid and frame including to make good after completion	No.	3	R	-	R	-
Carried to final summary						R	-
<u>BILL NO.5</u> <u>METAL WORK</u> SECURITY GATES Supply and install Burglar door 900 x 2100mm high Heavy duty single Burglar door and frame with 16mm steel round bar and 40 x 40 x 2.5mm square tubing as per attached drawing for single door		<u>Unit</u>	<u>QTY</u>	<u>Rate</u>		<u>Amount</u>	
1		No.	3	R	-	R	-
FENCING AND GATES <u>STEEL PALISADE FENCE</u> Supply and erect 2.4m galvanized steel palisade fence in concrete footings, complete with post, pales, ground beam, horizontal rails, fixing accessories and recess in rails to be epoxy cement Grouted including painting as per manufactures specifications with Prasa colours.		m	40	R	-	R	-
3	Supply and Install Hot dip Galvanized 2.4m high x 5m wide natural galvanizing Clearview sliding gate with anti-lift system and heavy duty lock completely with 16mm round bar diameter rail in trenches covered by 30 Mpa concrete	No.	1	R	-	R	-

Carried to final summary					R	-
	<u>BILL NO.6</u>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>	<u>Amount</u>	
	<u>GLAZING</u>					
	<u>GLAZED TO STEEL WITH PUTTY</u>					
	4mm clear float glass					
1	Panes exceeding 0.1 m ² and not exceeding 0.5m ²	m ²	5	R -	R	-
Carried to final summary					R	-

CIVIL WORKS FINAL SUMMARY**MINOR UPGRADES AT UNION STATION**

	STATION NAME	PAGE	AMOUNT
1	Alterations	3 to 4	R -
2	Carpentry and Joinery	4	R -
3	Ironmongery	4	R -
4	Plumbing work	4 to 6	R -
5	Metal work	6 to 7	R -
6	Glazing	7	R -
SUB TOTAL			R -
ADD VAT @ 15%			R -
TOTAL			R -

ANNEXURE B ELECTRICAL WORKS: SCHEDULE OF QUANTITIES

PROVISIONAL SCHEDULE OF QUANTITIES

Major Supply and Installation of Platform and Shelter Lighting at Union Station

	<u>Description</u>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>	<u>Amount</u>
	OCCUPATIONAL HEALTH AND SAFETY				
	The contractor shall comply with all the requirements set out in the Construction Regulations, issued under The Occupational Health & Safety Act no 85 of 1993.				
	Safety file shall be provided by the contractor prior to commencement of work.				
	The contractor shall carry out the works with as little noise and mess as possible. All rubble shall be taken away from site on a daily basis.				
	Note: All designated items should comply with local content threshold.				
	<u>Schedule of Quantities</u>				
	Unless otherwise stated the description of each item shall be deemed to include manufacturing, conveying, and delivering, unloading, storing, unpacking, hoisting, setting, fitting and fixing in position, cutting, waste, patterns, plant, temporary works, establishment charges, profit and other obligations arising out of the conditions of contract				
	<u>BILL NO. 1</u>				
	<u>ALTERATIONS (PROVISIONAL)</u>				
	<u>REMOVAL OF EXISTING WORK</u>				
	Taking out and removing electrical work				
1	4/5 foot fluorescent fittings	No.	40	R -	R -
2	Bulkhead fittings	No.	15	R -	R -

	Carried to final summary				R	-
	<u>BILL NO.2</u>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>	<u>Amount</u>	
	<u>ELECTRICAL WORK</u>					
	Fluorescent fittings waterproofed fixture white including 2x58w T8 LED Fluorescent tubes and polycarbonate base with clear polycarbonate cover IP65					
1	Waterproof polycarbonate LED 5ft 2 x58w T8 fluorescent fitting including 2 LED tubes	No.	10	R -	R	-
	Bulkhead fittings					
2	Vandal proof incandescent compact ceiling light fittings 75w power, 1210 lumens with Die cast aluminum housing and tough polycarbonate refractors	No.	30	R -	R	-
	High mast pole street light fitting					
3	279W LED Luminaire (34460 lumen) with 3 an optical compartment with LED engine, glass protector, LED warm light with colour temperature of 3000 kelvin, gear compartment and a spigot top entry adjustable compartment. Both optical and gear compartments to be rated IP 66. 20kV/kA surge protection. The luminaire housing to be manufactured of marine grade cast aluminium (EN 1706 AC-44300). Including 1 opening tool	No.	9	R -	R	-
4	The use of cherry picker/scaffolder or any other equipment to be used for replacing of masts pole fittings and bulbs for the duration of the project	Item		R -	R	-
	<u>SWITCHES</u>					
5	Day light switches	No.	6	R -	R	-
6	11 kw contactors	No.	4	R -	R	-
	Electrical cables					
7	35mm2 4 core cable on sleeves (priced elsewhere)	m	50	R -	R	-

8	10mm2 4 core cable on sleeves (priced elsewhere)	m	800	R	-	R	-
9	2.5mm2 GP wires (Red, white, blue, black and earth) for lights rewiring of shelters, footbridge, ablutions and access points in 3 phase system	m	150	R	-	R	-
Electrical casing							
10	20mm galvanized SABS conduit completely with all the couplings, galvanized saddle, spacer bar assembly and heavy duty U clamps	m	100	R	-	R	-
Circuit breakers							
11	10 A 1P 6KA single circuit breaker	No.	20	R	-	R	-
12	10 A 3P 6KA circuit breaker	No.	5	R	-	R	-
13	12 A 3P Contactor	No.	2	R	-	R	-
14	20 A 1P 6KA single circuit breaker	No.	18	R	-	R	-
15	20 A 3P 6KA circuit breaker	No.	3	R	-	R	-
16	30 A 1P 6KA circuit breaker	No.	3	R	-	R	-
17	30 A 2P 6KA circuit breaker	No.	3	R	-	R	-
18	40 A 2P 6KA circuit breaker	No.	3	R	-	R	-
19	60 A 3P 6KA circuit breaker	No.	3	R	-	R	-
20	60 A 3P AC1 Contactor	No.	2	R	-	R	-
21	63 A 2P 6KA circuit breaker	No.	2	R	-	R	-
22	63 A 3P 6KA circuit breaker	No.	2	R	-	R	-
23	63 A 30Ma 3P + N Earth leakage	No.	2	R	-	R	-

24	250 A 3P Isolator	No.	1	R	-	R	-
DB BOARDS							
25	Lockable fiber glass water proofed 12 way CBIDB Eaves box to be mounted on external walls for platform shelters, waiting areas, access point, ablutions, etc	No.	13	R	-	R	-
<u>ELECTRICAL COMPLIANCE</u>							
26	All work to comply to SANS 10142 Compliance certificate to be provided on completion Pricing to include all necessary complete connection Certificate of compliance and all other testing required including 12 month guarantee certificate	Item	1	R	-	R	-
Carried to final summary						R	-
<u>BILL NO. 3</u>							
<u>EARTHWORKS</u>							
<u>EXCAVATION, FILLING, ETC</u>							
1	Cutting of tar and apply hot mix asphalt re-surfacing after cable has been laid	m ²	500	R	-	R	-
Excavation in earth not exceeding 1m deep							
2	Trenches	m ³	350	R	-	R	-
15 Mpa/20 mm unreinforced concrete							
3	15 Mpa/20mm unreinforced concrete on top of underground cable	m ³	100	R	-	R	-
Earth filing obtain from the excavation and/or prescribed stock piles on site compacted to 90% Mod AASHTO density							
4	Backfilling to holes after concrete has been laid	m ³	500	R	-	R	-
Carried to final summary						R	-

ELECTRICAL WORK FINAL SUMMARY**Major Supply and Installation of Platform and Shelter Lighting at Union Station**

	STATION NAME	PAGE	AMOUNT
1	Alterations	9 to 10	R -
2	Electrical work	10 to 12	R -
3	Earthworks	12	R -
SUB TOTAL			R -
ADD VAT @ 15%			R -
TOTAL			R -

ELECTRICAL AND MINOR WORKS AT UNION FINAL SUMMARY

	DESCRIPTION	PAGE	AMOUNT
1	Annexure A Civil works BoQ Final summary	3 to 8	R -
2	Annexure B Electrical works BoQ Final summary	9 to 13	R -
SUB TOTAL			R -
ADD VAT @ 15%			R -
TOTAL			R -