



<p>ELECTRICAL AND MINOR WORKS AT OAKMOORE STATION</p>

SCOPE, SPECIFICATIONS AND SCHEDULE OF QUANTITIES

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ANNEXURE A CIVIL WORKS: SCHEDULE OF QUANTITIES

PROVISIONAL SCHEDULE OF QUANTITIES

MINOR UPGRADES AT OAKMOORE 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 down and removing ceiling					
1	Suspended ceiling	m ²	300	R -	R -
Taking out and removing glass, beads, etc					
2	Broken window pane from aluminum frame including upgrading, cleaning and preparation to receive new	m ²	30	R -	R -
Taking out and removing doors from steel frame					
3	813 x 2032mm Timber single doors	No.	15	R -	R -
SERVICING, REPAIRING, RE-FIXING, CLEANING, ETC OF EXISTING WORK					
4	930 x 2100 Internal strong door (RG 28mm and frame, mag lock, door lock, kick plate, and refurbishment of the board)	No.	1	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 exterior 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	-
	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					
2	813 x 2032 x 44mm single leaf solid core with commercial veneer for paint. pricing shall include painting as per manufactures specification	No.	25	R -	R	-
	<u>Level G3 bullet resistant Anti-bandit door, complete with 100 x 50 x 3mm gauge mild steel rectangular frame and 25 x 25 x 3mm MS anlg rebates, overall size 930 x 2100mm high in powder coating and or galvinised cladding with peep hole, supplied with a 6 pin tumbler key system, mortice dead lock with an additional heavy duty magnetic lock and striker including key switch and surface mounted casing, 6 Amp power supply, push buttons and interlock system, heavy duty aluminium continuous hinge, aluminium slam bar with heavy duty door closer and D-style pull handles. Door to comply to SABS 1658-1996</u>					
3	Level G3 bullet resistant anti-badit external door	No.	1	R -	R	-
	<u>FITTINGS</u>					
	<u>The following in modular timber cupboards, counters, duty stations, desk etc. as per Cupboard Connections Specification</u>					

4	<p><u>Carcasses of 16mm thick particle board with both faces white melamine with white Masonite backs. Shelving of 16mm particle board, both faces white melamine and front edge in white PVC. Doors of 16mm particle board with post formed vertical edges and laminated in Renolit. Tops of 32mm particle board with post formed leading edges and laminated in high pressure decorative laminate. All butt edges and edges against walls to be sealed with silicon sealant. Hinges to be “Hettich”. Drawer runners to be metal 500mm series with nylon runners or similar. All units complete with door, handles, hinges, cupboards, door, locks, barrel bolts and shelves. Floor unit complete with kick plates. (Formica tops measured elsewhere)</u></p> <p>Kitchen sink floor cupboard 2000 x 600 x 900mm high with sides, bottom, back, 3 hinged doors and one drawer completely working including handles, etc. top and sink measured else where</p>	No.	1	R -	R -
	Carried to final summary				R -
1	<p><u>BILL NO 3</u></p> <p><u>CEILING WORK</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Description</u></p> <p>Items described as “nailed” shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p> <p>Items described as “plugged” shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as “bolted”, bolts priced elsewhere</p> <p>6mm “Everite Nutec” fibre cement boards with H-type pressed steel jointing including painting with one coat of alkali resistance primer, one undercoat and two coat eggshell enamel paint</p> <p>ceiling generally 600mm wide including 38 x 38mm sawn softwood bandering at maximum 600mm centres nailed to and including 75 x 50mm sawn softwood bearers at 900mm centres suspended</p>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>	<u>Amount</u>
		m ²	300	R -	R -

	approximately 250mm below timber trusses with 75 x 38mm vertical bearers at 600mm centres nailed to tie beams of trusses					
2	Extra over ceiling for 800 x 800mm trap door of 38 50mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	m ²	4	R	-	R -
	“Rhino” gypsum plasterboard cornice					
3	75mm coved cornices fixed to ceiling	m	300	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>IRONMONGERY</u>					
	<u>LOCKS</u>					
	<u>Supply and install</u>					
1	Ultra-security heavy duty locks	No.	8	R	-	R -
2	3 liver mortice lockset with handles	No.	15	R	-	R -
3	Indicator door lock chrome plated	No.	15	R	-	R -
	Carried to final summary					R -
	<u>BILL NO 5</u>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>		<u>Amount</u>
	<u>PLUMBING WORK</u>					
	<u>SANITARY FITTINGS</u>					
1	Anti-vandal High traffic suite complete black low level duct cistern with push button remote control, symphonic flush valve and internal overflow suite to includes CC Cistern and CC Pan	No.	12	R	-	R -
2	Close coupled suite colour White , comprising 90° outlet open rim pan with matching 9 litre front single flush cistern including lid and fitments and Jazz Thermoset seat.	No.	4	R	-	R -
3	Bemis vandal proof toilet seat	No.	16	R	-	R -

4	Wall mounted white Vandal Resistant Wash Hand Basin, 330mm (w) x 310 (d) x 325mm (h). Installation as per manufacturer's specification.	No.	10	R	-	R	-
5	Ceramic wash hand basin colour White, size 510 x 405mm with one tap hole including integrated overflow and chain stay hole bolted to wall with two x 10mm bolts and including Classic floor mounted pedestal and sealed with silicone sealant where basin meets wall.	No.	4	R	-	R	-
6	Double bowls stainless steel double end bowl inset sink, overall size 1200 x 535mm wide with two 340 x 370 x 150mm deep bowls, fitted onto cupboard (elsewhere specified) including 38mm waste fitting and PVC traps (traps elsewhere specified).	No.	1	R	-	R	-
7	50mm pipes with all connection and make good	m	20	R	-	R	-
TAPS, VALVES, ETC							
Supply and install							
8	15mm basin pillar tap for hot and cold water	No.	12	R	-	R	-
9	15mm chrome plated deck mounted sink mixer with overarm swivel outlet and adjustable flanges, manufactured in accordance with SANS 226:2004 Type 1.	No.	1	R	-	R	-
10	Flexi connector	No.	35	R	-	R	-
11	15 Brass Gate Valve	No.	5	R	-	R	-
12	Mini Ball Valve	No.	35	R	-	R	-
13	22mm Brass Gate Valve including cast iron valve box	No.	2	R	-	R	-
Extra over PVC pipes for fittings							
14	110mm pan connector completely	No.	16	R	-	R	-
WATER SUPPLIERS							
Class "O" copper pipe							
15	15mm pipes	m	30	R	-	R	-
16	15mm pipes chased into brick walls and make good	m	30	R	-	R	-

17	22mm pipes	m	20	R	-	R	-
18	22mm pipes chased into brick walls	m	20	R	-	R	-
	Extra over class “O” copper pipes for capillary fittings						
19	15mm fitting	No.	20	R	-	R	-
20	22mm fitting	No.	20	R	-	R	-
21	15mm Tee	No.	26	R	-	R	-
22	22mm Tee	No.	10	R	-	R	-
	SOIL DRAINAGE						
	Upvc class 34 pipes including excavation, bedding, backfilling and compaction and disposal of surplus material						
23	110mm pipes laid in and including trenches not exceeding 1m deep	m	40	R	-	R	-
	Extra over Upvc class 34 pipes for fittings						
24	110 Bend	No.	5	R	-	R	-
25	110mm junction	No.	4	R	-	R	-
26	110mm Access bend	No.	4	R	-	R	-
	Upvc Gulley						
27	110mm Gulley not exceeding 1m deep formed of trap, vertical pipe and gully head with loose grating, encased in 15MPa unreinforced concrete, with top of gully 50mm above surrounding finished surfaces, top surface of concrete splayed and with 1:3 cement plaster on exposed surfaces	No.	4	R	-	R	-
	Sundries						
28	110mm Upvc cleaning eye to end of 110 Upvc pipe	No.	2	R	-	R	-
29	350 x 350 x 50mm thick precast concrete inspection eye marker slab finished smooth on exposed surfaces with letters “I.E” or “I.O” on top and placed flush in ground or paving	No.	2	R	-	R	-
30	Testing soil drainage system	Item		R	-	R	-

	WATER SUPPLY PIPE					
	High density polyethylene class 16 pipes					
31	25mm pipes laid in and including trenches	m	100	R	-	R -
32	Testing water supply system	Item		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>METAL WORK</u>					
	SECURITY GATES					
	Supply and install Burglar door					
1	900 x 2100mm high Heavy duty Burglar door and frame with 16mm steel round bar and 40 x 40 x 2.5mm square tubing	No.	8	R	-	R -
2	1100 x 2100mm high Heavy duty Burglar door and frame with 16mm steel round bar and 40 x 40 x 2.5mm square tubing	No.	2	R	-	R -
	Supply and install Burglar windows					
3	10 x 10mm horizontal and vertical bars to fit 3000 x 2000mm high window opening	No.	2	R	-	R -
4	10 x 10mm horizontal and vertical bars to fit 2500mm W x 7000mm H opening.	No.	1	R	-	R -
5	10 x 10mm horizontal and vertical bars to fit 1600mm W x 655mm H windows openings.	No.	2	R	-	R -
6	10 x 10mm horizontal and vertical bars to fit 1025mm W x 655mm H windows opening.	No.	10	R	-	R -
7	10 x 10mm horizontal and vertical bars to fit 540mm W x 660mm H windows opening.	No.	10	R	-	R -
	PRESSED STEEL DOOR FRAMES					
	1.2mm double rebated frames suitable for one brick wall					

8	Frame for door 813 x 2032mm high	No.	8	R	-	R	-
STEEL WINDOWS							
Standard residential window							
9	Window type NE4 F7 1511 x 654mm high	No.	2	R	-	R	-
10	Window type NE2 F7 1022 x 654mm high	No.	10	R	-	R	-
11	Window type NE1 F7 533 x 654mm high	No.	10	R	-	R	-
Carried to final summary						R	-
<u>BILL NO.7</u>		<u>Unit</u>	<u>QTY</u>	<u>Rate</u>		<u>Amount</u>	
<u>GLAZING</u>							
<u>GLAZING TO ALUMINIUM WITH CLIP ON BEADS</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	20	R	-	R	-
4mm clear obscure glass							
2	Panes exceeding 0.1 m ² and not exceeding 0.5 m ²	m ²	20	R	-	R	-
Carried to final summary						R	-
<u>BILL NO.8</u>		<u>Unit</u>	<u>QTY</u>	<u>Rate</u>		<u>Amount</u>	
<u>PAINTWORK</u>							
For preambles see “Model Preambles for Trades” 2008 edition published by the Association of South African Quantity Surveyors							
SUPPLEMENTARY PREAMBLES							

Previously painted plastered surfaces							
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth							
Previously painted metal surfaces							
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal							
Previously painted wood surfaces							
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with a suitable filler and finished smooth							
PAINTWORK, ETC TO NEW WORK							
ON FLOATED PLASTER							
One coat professional plaster primer and two coats acrylic paint							
1	On ceiling and cornices	m ²	300	R	-	R	-
ON WOOD							
One coat wood primer, one Universal Undercoat and two coats Prasa Oakley Brown enamel paint							
2	On doors	m ²	120	R	-	R	-
ON METAL							
One coat zinc chromate primer, one under coat and two coats professional white gloss enamel paint							
3	On buglers, gates, door frames, window frames, etc	m ²	100	R	-	R	-
Surface preparations, one coat plaster primer, one							

	undercoat and two coat of two coats of interior quality Prasa Mocha Neutral Wheat					
4	On internal walls	m ²	350	R	-	R -
	Surface preparations, one coat plaster primer, one undercoat and two coat of two coats of interior quality Prasa Mocha Neutral Wheat					
5	On external walls	m ²	250	R	-	R -
	ON FLOORS					
	One coat primer, one under coat and two coats epoxy floor paint					
6	On floors	m ²	100	R	-	R -
	PAINTWORK ETC TO PREVIOUSLY PAINTED WORK					
	ON FLOATED PLASTER					
	Wash with polycell sugar soap and rinse with clean water to remove all traces of soap, remove all loose flaking paint and repair any cracks and defects, spot prime bare and repaired areas with bonding liquid and apply one coat sealer and two coats of interior quality Prasa neutral					
7	On internal walls	m ²	500	R	-	R -
	ON METAL					
	One coat zinc chromate primer, one under coat and two coats professional white gloss enamel paint					
8	On buglers, gates, door frames, window frames, gutters and down pipes	m ²	100	R	-	R -
						R -
	<u>BILL NO.9</u>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>	<u>Amount</u>	
	<u>MASONRY</u>					
	<u>BRICKWORK</u>					

	20-30MPa Silver-gray Travertine or similar approved Imperial FBX clay face brick, size 222 x 106 x 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in Class I mortar and pointed with flush vertical, flush horizontal joints, with every 6th horizontal joint to be recessed. Brickwork of NFP bricks in class II mortar						
1	One brick walls	m ²	10	R	-	R	-
2	Extra over brick work for brick on edge header course band	m	5	R	-	R	-
	Brick reinforcement						
3	230mm wide reinforcement built in horizontal	m	15	R	-	R	-
						R	-
	<u>BILL NO.10</u> <u>PLASTERING</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Preparatory work for textured finishes:</u> Textured finishes to be applied to plaster (plaster elsewhere) All surfaces are to be inspected and approved by Prasa representative before any work is commenced with <u>Price for texture finishes:</u> Prices are to include for all priming, preparatory work, etc <u>INTERNAL PLASTER</u> <u>Cement plaster on brick work</u>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>		<u>Amount</u>	
1	On walls	m ²	350	R	-	R	-
2	Narrow width	m ²	40	R	-	R	-

	<u>EXTERNAL PLASTER</u>					
	<u>Cement plaster on brick work</u>					
3	On walls	m ²	250	R	-	R -
4	Narrow width	m ²	40	R	-	R -
						R -
	<u>BILL NO.11</u>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>	<u>Amount</u>	
	<u>TILING</u>					
	WALL TILING					
	Matt Full Bodied Porcelain tiles, size 600 x 300mm x 12mm fixed to internal wall plaster backing with TAL tile adhesive mixed with TAL bonding liquid in lieu of water with joints continuous in both directions and grouted with TAL tile grout, excess grout on the surface to be cleaned with water as work proceeds.					
1	On walls	m ²	10	R	-	R -
						R -
	<u>BILL NO.12</u>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>	<u>Amount</u>	
	<u>PAVING WORK</u>					
	<u>PAVEMENT REHABILITATION</u>					
	<u>Earthworks</u>					
	Cut to spoil or stockpile for re-use, site to be located by the contractor					
1	Taking out paving block for re-use	m ²	500	R	-	R -
2	Rip to 200mm of all previous compacted areas.	m ³	150	R	-	R -
	Compaction of surfaces					

3	Compaction of ground surface under floors etc	m ²	500	R	-	R	-
	Cut and borrow to fill including all material, site to be located by the contractor						
4	G5 Material in compacted layer thickness 200mm less compacted to 90% modified AASHTO density	m ³	150	R	-	R	-
	Coarse river sand filling supplied by the contractor						
5	Geo textile membrane under paving blocks	m ²	500	R	-	R	-
6	40mm Under floor, etc	m ³	500	R	-	R	-
	Paving with butt joint on 50mm thick river sand bed with sand and cement mixture swept into joints and hosed down including preparation of ground or filling						
7	Relaying of removed paving blocks	m ²	500	R	-	R	-
8	New paving to match existing	m ²	30	R	-	R	-

R -

	<u>BILL NO.13</u>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>		<u>Amount</u>	
	<u>FENCING AND GATES</u>						
	Constructed of galvanized steel sections, palisade fence with an 2400mm min height. The materials, construction and installation procedure for steel palisade fences to be in accordance with SANS 30112:2004 " South African National Standard for fence part 12 specifications for steel Palisade fences". Reference to applicable SANS specifications for full details.						
1	2400mm high galvanized steel palisade fencing and post at 3m centers	m	100	R	-	R	-
2	1000mm wide x 2400mm high galvanized steel palisade pedestrian gate and posts including large pad locks on 200mm electro galvanized pad bolt lock welded on the gate	No.	2	R	-	R	-

							R -

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

	STATION NAME	PAGE	AMOUNT
1	Alterations	3 to 4	R -
2	Carpentry and Joinery	4 to 5	R -
3	Ceiling work	5 to 6	R -
4	Ironmongery	6	R -
5	Plumbing work	6 to 9	R -
6	Metal work	9 to 10	R -
7	Glazing	10	R -
8	Paint work	10 to 12	R -
9	Masonry	12 to 13	R -
10	Plastering	13 to 14	R -
11	Tiling	14	R -
12	Paving rehabilitation	14 to 15	R -
13	Fencing	15 to 16	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
Oakmoore 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	400W HPS bulbs and ballast	No.	16	R -	R -
2	400W HPS fittings	No.	6	R -	R -
3	Bulkhead fittings	No.	15	R -	R -

4	4/5 foot fluorescent fittings	No.	180	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.	150	R	-	R	-
2	1200m (4 foot) 2x36w Open channel cool white LED Fluorescent fittings double tubes for ticket office building	No.	45	R	-	R	-
	Bulkhead fittings						
3	7w LED bulk head fittings completely with bulbs	No.	17	R	-	R	-
	The luminaire to consists of a separate lamp, control gear and spigot compartment. The control gear housing to be separated from the lamp housing for thermal reasons. To be designed to operate 70/400W mercury vapour and 70/400W high- pressure sodium/metal halide lamps.						
	High mast pole street light fitting						
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	1	R	-	R	-
5	Side entry 900 x 455 x 380mm high 400W HPS-T SE /230V C/W LAMP with 4800 lumen and the laminair to bear SANS 475 (Complete with lamp, control gear and spigot compartment	No.	4	R	-	R	-
6	400W HPS BALLAST AND LAMP	No.	16	R	-	R	-
7	Wall mounted 380 x 345 x 275mm, 150w LED Flood lights, 100 – 240 Vac input voltage, 13500 lumens, 6500K cool white, 141 degrees beam angle, die cast	No.	15	R	-	R	-

	aluminium black housing and IP65 ingress protection						
	<u>SWITCHES</u>						
8	Day light switches	No.	6	R	-	R	-
9	11 kw contactors	No.	4	R	-	R	-
10	White 1 lever 2 way switch	No.	15	R	-	R	-
11	White 2 lever 1 way switch	No.	5	R	-	R	-
	Electrical cables						
12	50mm ² 4 core cable on sleeves (priced elsewhere)	m	20	R	-	R	-
13	35mm ² 4 core cable on sleeves (priced elsewhere)	m	50	R	-	R	-
14	10mm ² 4 core cable on sleeves (priced elsewhere)	m	800	R	-	R	-
15	4mm ² GP wires for stove and geyser	m	20	R	-	R	-
16	2.5mm ² GP wires (Red, white, blue, black and earth) for lights rewiring of shelters, footbridge, ablutions and access points in 3 phase system	m	500	R	-	R	-
17	2.5mm ² suffix cable or GP wire for plugs	m	300	R	-	R	-
18	1.5mm ² suffix cable or GP wire for lights	m	300	R	-	R	-
	Electrical casing						
19	25 x 40mm PVC trunking	m	30	R	-	R	-
20	20mm galvanized SABS conduit completely with all the couplings, galvanized saddle, spacer bar assembly and heavy duty U clamps	m	100	R	-	R	-
21	20mm PVC SABS conduit completely with all the couplings, saddle, spacer bar assembly and heavy duty U clamps	m	200	R	-	R	-

	Circuit breakers						
22	10 A 1P 6KA single circuit breaker	No.	20	R	-	R	-
23	10 A 3P 6KA circuit breaker	No.	5	R	-	R	-
24	12 A 3P Contactor	No.	2	R	-	R	-
25	20 A 1P 6KA single circuit breaker	No.	25	R	-	R	-
26	20 A 3P 6KA circuit breaker	No.	3	R	-	R	-
27	30 A 1P 6KA circuit breaker	No.	3	R	-	R	-
28	30 A 2P 6KA circuit breaker	No.	3	R	-	R	-
29	40 A 2P 6KA circuit breaker	No.	3	R	-	R	-
30	60 A 3P AC1 Contactor	No.	2	R	-	R	-
31	63 A 2P 6KA circuit breaker	No.	2	R	-	R	-
32	63 A 3P 6KA circuit breaker	No.	2	R	-	R	-
33	63 A 30Ma 3P + N Earth leakage	No.	2	R	-	R	-
34	250 A 3P Isolator	No.	1	R	-	R	-
35	40 A stove Isolator	No.	1	R	-	R	-
36	30A Air conditioner Isolator	No.	2	R	-	R	-
	DB BOARDS						
37	1000h x 400w x 400d x 2.0mm stainless steel orange IP 65 weatherproofed floor mounted lockable Station kiosk with 1 door completely rewired with all the circuit breakers mounted on din rail as per above and all other accessories, connected to the station	No.	1	R	-	R	-

38	1800h x 600w x 400d x 2mm stainless steel orange IP 65 weatherproofed floor mounted lockable Station kiosk with 2 door completely rewired with all the circuit breakers mounted on din rail as per above CB including renaming and all other accessories, connected to the station	No.	1	R	-	R	-
39	Flush mounted min distribution board completely	No.	2	R	-	R	-
40	Lockable fiber glass water proofed 12 way CBI DB Eaves box to be mounted on external walls for platform shelters, waiting areas, access point, ablutions, etc	No.	2	R	-	R	-
HVAC Systems							
41	Supply, install and commission new 24000 BTU split unit, inverter technology air conditioner completely with all accessories (drain pipe, amorflex, copper pipe, refrigerant, cable, communication wire, brackets, circuit breaker, isolator, etc)	No.	2	R	-	R	-
<u>ELECTRICAL COMPLIANCE</u>							
All work to comply to SANS 10142 Compliance certificate to be provided on completion Pricing to include all necessary complete connection							
42	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>Unit</u>	<u>QTY</u>	<u>Rate</u>		<u>Amount</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 2m deep							
2	Trenches	m ³	300	R	-	R	-
15 Mpa/20 mm unreinforced concrete							

3	1m long * 0.5m wide x 0.1m thick Concrete block on every ten meter interval on top of underground cable	m ³	60	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	-
	<u>BILL NO. 4</u>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>		<u>Amount</u>	
	<u>MANHOLE COVERS</u>						
1	630mm Heavy Duty 2A cover and frame including Paddle lock, fishtail and polymer key. Lids to be branded PRASA CRES SGR	No.	10	R	-	R	-
	Carried to final summary					R	-

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

	STATION NAME	PAGE	AMOUNT
1	Alterations	18 to 19	R -
2	Electrical work	19 to 22	R -
3	Earthworks	22 to 23	R -
4	Manhole covers	23	R -
SUB TOTAL			R -
ADD VAT @ 15%			R -
TOTAL			R -

MINOR UPGRADES AT OAKMOORE STATION

	DESCRIPTION	PAGE	AMOUNT
1	Annexure A Civil works BoQ Final summary	3 to 16	R -
2	Annexure B Electrical works BoQ Final summary	18 to 24	R -
SUB TOTAL			R -
ADD VAT @ 15%			R -
TOTAL			R -