



SCHEDULE OF QUANTITIES

UPGRADING AT MIDWAY SIGNAL DEPOT
SECTION B

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UPGRADE OF MIDWAY SIGNAL CABIN – SECTION B

PRASA SHALL NOT TAKE ANY RESPONSIBILITY FOR CONTRACTOR'S STAFF, EQUIPMENT, MATERIAL OR MACHINES USED ON PRASA PROPERTY WHILE PROJECT IS IN PROGRESS

Item	Description	Unit	Qty	Rate	Amt
	BILL NO 1			R	R
	ALTERATIONS (PROVISIONAL)				
	REMOVAL OF EXISTING WORK				
	Carefully breaking down and removing brickwork and partitioning etc.				
1	One brick wall	m ²	30	R	R
2	Partition wall	m ²	40	R	R
	Taking out and removing piping, sanitary fittings, etc. including disconnection piping from fittings				
3	Pan and cistern	Item	8	R	R
4	Kitchen sink cabinet	Item	3	R	R
5	Ceramic wash hand basin	Item	4	R	R
6	0.15 x 0.15m high box gutter including down pipes	m	88	R	R
7	0.25 x 0.2m high box gutter including down pipes	m	80	R	R
8	50mm uPVC piping including fittings and brackets	m	12	R	R
	Taking out and removing doors including ironmongery and steel frame from walls				
9	Timber single door and frame 813 x 2032mm high	Item	6	R	R
	Taking out and removing floor covering				
10	Vinyl tile/ceramic floor covering/mosaic floor tile/skirting including preparing screed to receive new floor tiling	m ²	180	R	R
	Hacking up/off and removing ceramic wall tile				
11	Tiles to walls	m ²	35	R	R
	Taking up and removing ceiling				
12	Rhino board ceilings including cornices, brandering, jointing strips, etc	m ²	40	R	R
	Taking out and removing glass from steel window frame				

13	Clear glass from steel window frames including cleaning out rebates and preparing for new glass	m ²	5	R	R
	Taking out and removing glazed steel window frame				
14	Glazed still window 2000 x 2000mm high from one brick wall	Item	4	R	R
	Taking out and removing Fascia and barge board				
15	Fascia and barge board not exceeding 300mm girth	m	60	R	R
	Clean down existing face brick façade, painted walls, etc. with water and brush				
16	External face brick walls	m ²	250	R	R
					R
	BILL NO 2				
	CARPENTRY AND JOINERY				
	DOORS				
	44mm thick interior grade flush solid core timber single door with 3 mm thick commercial ply on both sides with consolidated edges fitted and complying with SABS 545 in pressed steel frame. All painted in accordance with architects colour schedule.				
1	813 x 2032 x 44mm single interior leaf solid core	Item	12	R	R
	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				
2	813 x 2032 x 44mm single exterior leaf solid core	Item	6	R	R
	FITTINGS				
	The following in modular timber cupboards, counters, duty stations, desk etc. as per Cupboard Connections Specification				
	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)				
	Built in cupboards fittings				
3	Kitchen sink floor cupboard 3000 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	Item	3	R	R
	Grocery cabinet				
4	2.1m high x 0.5m wide x 0.6m 3 lockable separated parking compartment including locks and handles	Item	2	R	R
	Change room cabinet				
	Locker to combines steel body with supawood beech veneer doors. Locker body to be epoxy coated and oven baked for superior finish with grey colour Standard body.				
5	1800mm high x 450mm width x 500mm depth 2 door lockable lockers completely with heavy duty hinges and locks	Item	15	R	R
	Single sided Locker bench unit				
	Manufactured in angle iron (40x40x5mm), square (50x50x1.2mm or round tubing (50x1.2mm) heavy duty galvanized powder coated steel frame, with 6x70mm wide x 32mm thick Meranti slats, Electroplating powder coating legs and Adjustable feet and base plates				
6	400mm high x 1000mm width x 1500mm long single sided locker bench unit	Item	5	R	R
	CANTEEN BENCH UNIT				
	Legs manufactured with 75 x 75 mm square tubing, 1100mm wide x 280mm depth x 400mm high steel sheet seat, and table width of 1100 x 1100 x 700. All steel thickness to be 1.6mm thick galvanized powder coated with 70mm Oak hardwood for seats and tabletop finish				
7	1960 wide x 1960mm depth 4 legs canteen bench unit	Item	2	R	R
	COUNTERTOP				
8	Wrought hardwood to cupboards, etc.				
	19 x 70mm cleats	m	25	R	R
9	19 x 50mm cleats fixed for worktop support	m	25	R	R
	Interior type particle board with Formica veneer				
10	900 x 30mm thick granite with all exposed edges large bevel edged, fixed to supports using dabs of 100% black silicone adhesive along all supports with all joints filled with matching polyester resin glue. Granite surface to be sealed using an approved stone sealer, all in accordance with the manufacturer's recommendations.	Item	3	R	R
11	2mm thick edge strip 32mm wide	m	25	R	R

12	Cut 50mm work top to fit end bowl sink, measured elsewhere	Item	3	R	R
	Nutec fibre cement				
13	3000 x 10 x 300mm fascia boards including PVC H-Profile fascia board joiner	m	40	R	R
14	3000 x 10 x 300mm barge boards including PVC H-Profile barge board joiner	m	20	R	R
	Glazed shower doors				
15	Tri-slider patterned obscure glazed shower door	Item	12	R	R
16	800 – 1020mm x 4mm tick obscure pivot shower door	Item	6	R	R
	Skirting				
17	20 x 120mm solid meranti skirting	m	200	R	R
					R
	BILL NO 3				
	CEILING WORK				
	SUPPLEMENTARY PREAMBLES				
	Description				
	Items described as “nailed” shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete				
	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				
	6.4mm “Rhino” gypsum plaster board with H-Type pressed steel jointing strips				
1	Ceiling including 38 x 38mm sawn softwood brander at 450mm centres	m ²	180	R	R
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	Item	4	R	R
	“Rhino” gypsum plasterboard cornice				
3	75mm coved cornices	m ²	120	R	R
					R
	BILL NO 4				

	IRONMONGERY				
	LOCKS				
1	3 liver union lock with handles	Item	15	R	R
2	Ultra-security heavy duty locks	Item	5	R	R
3	Stainless Steel Toilet Cubicle Indicator bolt & lock set, Grade 304Stainless Steel indicator bolt fixed to surface with matching stainless-steel screws.	Item	10	R	R
4	Satin stainless steel toilet roll holders for 2 rolls with central shaft system and cylinder lock, plugged and screwed to the wall with stainless steel screws. (vandal resistant)	Item	8	R	R
	SIGNAGE				
	External signage				
5	500 x 150mm High double-sided ceiling mounted directional sign anodized aluminium female and male ablutions pictogram door sign, suspended from ceiling grids with brass chains. Minimum of 2,1m above finished floor level.	Item	6	R	R
					R
	BILL NO 5				
	TILING				
	Prices:				
	Prices are to include for all square cutting and waste, cleaning off on completion and protection from injury. Areas are measured net to face of brickwork and concrete. Any additional area caused by the thickness of tiling and screed are to be allowed for in prices				
	FLOOR TILING				
	600x600mm Full Bodied polished Porcelain tiles with 3mm grouting lines				
1	On floors	m ²	600	R	R
	300x300x6mm Full Bodied polished Porcelain mosaic tiles with 3mm grouting lines				
2	On floors	m ²	35	R	R
	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.				
3	On walls	m ²	120	R	R
	300x300x6mm Full Bodied polished Porcelain mosaic tiles with 3mm grouting lines				
4	On walls	m ²	30	R	R
					R
	BILL NO 6				
	PLUMBING WORK				
	SANITARY FITTINGS				
1	Vaal Sanitary ware Hibiscus vitreous china 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.	Item	8	R	R
2	Vaal Sanitary ware Hibiscus vitreous china lavatory basin colour White, size 510 x 405mm with two 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.	Item	6	R	R
3	Top entry ceramic urinal basin with Junior flush master exposed chrome flush valve including flush pipe, spreader, etc.	Item	4	R	R
	WASTE UNINON ETC				
4	Bath and Basin waste, plug, chain, stay and backnut	Item	10	R	R
	TRAPS ETC				
5	365/40 CP bottle trap 40 x 40 INC CP/PVC adaptor to 40mm	Item	11	R	R
6	38mm sink "P" trap	Item	9	R	R
7	Brass shower P trap with square ss grating	Item	7	R	R
	SINK, BASIN, ETC				
8	90Mm Bsw 1200x500x180mm double bowl Kitchen stainless steel sink	Item	3	R	R
	TAPS, VALVES, ETC				
9	Kitchen sink Mixer taps	Item	3	R	R
10	Push button pillar tap for hot and cold water	Item	17	R	R

11	Flexi connector	Item	12	R	R
12	15 Mini Ball Valve	Item	12	R	R
13	Single function vandal resistant shower head including shower arm, stainless steel polished body	Item	7	R	R
14	Chrome plated Shower tap mixer	Item	7	R	R
15	22mm Brass Gate Valve	Item	5	R	R
16	600kpa pressure control valve	Item	3	R	R
17	Relieve/safety valve	Item	6	R	R
18	Vacuum breaker	Item	6	R	R
19	Drain cock	Item	3	R	R
	0.8mm galvanized sheet iron				
20	125 x 100mm eaves gutter	m	50	R	R
21	Extra over 125 x 100mm eaves gutter for stopped end	Item	8	R	R
22	Extra over 125 x 100 eaves gutter for angle	Item	10	R	R
23	Extra over 125 x 100mm eaves gutter for outlet for 100 x 75mm pipe	Item	10	R	R
24	100 x 75mm rainwater pipes	m	25	R	R
25	Extra over 100 x 75mm rainwater pipe for shoe	Item	10	R	R
	0.9mm galvanized sheet iron				
26	250 x 200mm industrial eaves gutter including heavy duty brackets fixed at 500mm centers	m	40	R	R
27	Extra over 250 x 200mm eaves gutter for stopped end	Item	4	R	R
28	Extra over 250 x 200 eaves gutter for angle	Item	6	R	R
29	Extra over 125 x 100mm eaves gutter for outlet for 300mm pipe	Item	6	R	R
30	300mm rainwater pipes	m	25	R	R
31	Extra over 300mm rainwater pipe for shoe	Item	6	R	R
	Extra over PVC pipes for fittings				
32	110mm pan connector	Item	10	R	R
	WATER SUPPLIERS				
	Class "O" copper pipe				

33	15mm pipes chased into brick walls	m	50	R	R
34	22mm pipes	m	30	R	R
35	22mm pipes chased into brick walls and make good	m	50	R	R
	Extra over class "O" copper pipes for capillary fittings				
36	15mm fitting	Item	15	R	R
37	15mm Tee	Item	15	R	R
38	15mm bend	Item	5	R	R
39	22mm fitting	Item	20	R	R
40	22mm Tee	Item	15	R	R
41	22mm bend	Item	5	R	R
					R
	BILL NO 7				
	GLAZING				
	GLAZING TO ALUMINIUM WITH CLIP ON BEADS				
	4mm patterned glass				
1	Panes exceeding 0.1m ² and 0.5 m ²	m ²	10	R	R
	4mm clear float glass				
2	Panes exceeding 0.1m ² and 0.5 m ²	m ²	5	R	R
	MIRROR				
	6.5mm silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork				
3	Mirror 600 x 1200mm high with four screws	Item	8	R	R
					R
	BILL NO 8				
	METAL WORK				
	SECURITY GATES				

	Supply and install Burglar door				
1	815 x 2100mm high Heavy duty 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	Item	5	R	R
	STEEL ROLLER SHUTTERS				
	Roll-Up solid galvanised, SABS 1461, & epoxy coated M/S manually hand chain operated push-up roller shutter for maximum opening 3000 x 3000mm high with standard bottom rail, 75 x 0.8mm thick end-locked slats, 120mm extra-wide tamper proof guides, 4.5mm end plates, closed shaft and 2 x slidebolts, extruded with Aluminium Tbar & Astragal rubber weather seal. Including galv. cover box and powder coated components incl. door curtain, end plates, cover box, guides & T-bar. Door fixed to brick, concrete or structural steel jambs and concrete or steel lintel over. Contractor to provide cavity of 160mm x 120mm for recessing guides				
2	Manual hand chain Push-up Roller Shutters, for openings not exceeding 3000mm x 2500mm high.	Item	3	R	R
	Supply and install Burglar windows				
3	600mm W x 600mm H Box windows guard constructed with 5mm of expanded metal and 50 x 50 x 6mm equal angles.	Item	4	R	R
4	1200mm W x 600mm H Box windows guard constructed with 5mm of expanded metal and 50 x 50 x 6mm equal angles.	Item	3	R	R
5	1500mm W x 900mm H Box windows guard constructed with 5mm of expanded metal and 50 x 50 x 6mm equal angles.	Item	5	R	R
	FENCING AND GATES				
	CLEAR VIEW FENCING				
	2500mm Panel Height, 2515mm Panel Width, 4.0mm Vertical Wire Dia, 3.15mm Horizontal Wire Dia, 72x72x2mm Post Section, 2400mm Post Length, 4 Bends, 16 Clamps, 33.00kgs Panel Weight and 9.50kgs Upright weight				
6	Supply and erect 2.5 m high galvanized clear view fencing as per specification	m	400	R	R
7	Supply and fit – heavy duty gate, with heavy duty industrial motor which allows to be operated manually also., allow all necessary fittings to be installed to the total completion of the job. 6m x 2.5m high	Item	1	R	R
					R
	BILL NO 9				
	PAINTWORK				

	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 plastered walls	m ²	390	R	R
	One coat professional plaster primer and two coats contractors White Gloss Enamel				
2	On gutters and downpipes	m ²	80	R	R
3	On fascia and barge boards	m ²	60	R	R
	One coat professional plaster primer and two coats contractors Brick and Slasto Dressing/Brick seal				
	ON WOOD				
	One coat wood primer, one Universal Undercoat and two coats PRASA Brown				
4	On Doors	m ²	70	R	R
	Sand with abrasive paper, leaving surface dry, clean and dust free. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Dulux or Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content of BD 2 scale (A1-A5) < 14% or less. Prime with one coat Varnish with an overcoating time of 6 hours and finish with two coats Varnish with 6 hours drying time between coats.				

	ON METAL				
	One coat zinc chromate primer, one Undercoat and two coats Professional Gloss Enamel				
6	On rails, bars, handrails, steel work, window frames, door frames, burglar gates and window, gates, gutters and down pipes	m ²	110	R	R
	One coat zinc chromate primer, one Undercoat and two coats Chromadek Prasa Kingfisher Blue suitable for roof				
7	On roofs	m ²	400	R	R
	PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK				
	Surface preparation and apply two coats acrylic paint				
8	On ceiling and cornices	m ²	400	R	R
	ON WOOD				
	Surface preparation and apply two coats PRASA Brown				
9	On Doors	m ²	50	R	R
	ON METAL				
	One coat zinc chromate primer, one Undercoat and two coats Professional Gloss Enamel				
10	On rails, bars, handrails, steel work, window frames, door frames, burglar gates and window, gates, gutters and down pipes	m ²	50	R	R
	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				
11	On internal walls	m ²	320	R	R
					R
	BILL NO 10				
	WATERPROOFING				
	Waterproofing to roofs				
1	Preparation of surfaces including replacing of worn nails, Roll top ridging and corrugated roof sheeting	m ²	400	R	R
2	Polyester Membrane or any other approved with the applicable guarantee of five years Applied to bolt heads and lap joints applied as per manufactures specification and certificate of 5-year guarantee submitted after completion Roof paint	m ²	400	R	R

					R
	BILL NO 11				
	BLINDS				
1	25mm aluminium venetian blinds including brackets and mounting accessories to fit 2000 x 1300mm high window opening, measurements to be fully verified at the depot.	Item	4	R	R
2	25mm aluminium venetian blinds including brackets and mounting accessories to fit 1500 x 900mm high window opening, measurements to be fully verified at the depot	Item	12	R	R
3	25mm aluminium venetian blinds including brackets and mounting accessories to fit 600 x 600mm high window opening, measurements to be fully verified at the depot	Item	8	R	R
					R
	BILL NO 12				
	ELECTRICAL				
1	PV Modules Supply and fit PV Modules. Minimum: Peak power 300 Watts each PV modules to be fitted atop galvanized roof sheets such that maximum solar radiation is absorbed by solar panel. Include all brackets, cables, lugs and ferrules as per manufacturer's specifications.	Item	54	R	R
2	Inverter Supply and fit Minimum: 8000-Watt inverter. Nominal DC 48V. Output voltage 230VAC 50Hz at 8000 Watts. Include all relevant cables, lugs and ferrules as per manufacturer's specifications. Inverters to be connected in parallel.	Item	2	R	R
3	Batteries Supply and fit 48V 100AH deep cycle Lithium-Ion battery pack. Include all relevant cables, lugs and ferrules as per manufacturer's specifications.	Item	4	R	R
4	(Smart LED Solar Street lights with integrated Lithium Ion Battery and timer and mounting bracket) Supply and fit single unit Smart LED Solar Street lights with integrated Lithium Ion Battery and timer. Timer to be set for 100% illumination from 4h30 to 7h00. Lights off from 7h00 to 17h00. And then 100% illumination from 17h00 to 21h00. From 21h00 to 4h30 50% illumination. Solar lighting at minimum 3000 lumens per unit Integrated Battery pack Lithium Ion Protection Rating IP 65 Mounting bracket to conform to manufacturer's specifications Smart LED solar lamp to include all electrical protection in a single unit. Smart Solar lamps to be fitted to existing poles/ structures on site.	Item	8	R	R

5	Disconnect existing electrical geysers and aircons	Item	1	R	R
6	Remove fluorescent tubes and dispose	Item	400	R	R
7	Supply and fit 4-foot LED tubes. Re-wire existing fluorescent fitting to LED standard.	Item	400	R	R
8	(Test, certify and guarantee) Ensure power is restored. Ensure lights working. All relevant testing completed and certified. Prasa shall require a 12 month guarantee on all parts and workmanship	Item	1	R	R
					R

FINAL SUMMARY

	STATION NAME	PAGE	AMOUNT	
1	Alterations	3 to 4	R	-
2	Carpentry and Joinery	4 to 6	R	-
3	Ceiling	6	R	-
4	Ironmongery	6 to 7	R	-
5	Tiling work	7	R	-
6	Plumbing work	8 to 9	R	-
7	Glazing	10 to 11	R	-
8	Metal work	11 to 13	R	-
9	Painting work	13	R	-
10	Waterproofing	13	R	-
11	Electrical	14	R	-
	FINAL SUMMARY OF MIDWAY SIGNAL CABIN - SECTION B	SUB TOTAL	R	-
		ADD VAT @ 15%	R	-
		TOTAL	R	-

FINAL SUMMARY OF MIDWAY PERWAY DEPOT **AND** **MIDWAY SIGNAL DEPOT REFURBLISHMENT.**

FINAL SUMMARY SECTION A1 UPGRADE OF MIDWAY PERWAY DEPOT.	R
FINAL SUMMARY SECTION A2 BUILDING OF GUARD ROOM AT MIDWAY PERWAY DEPOT.	R
FINAL SUMMARY SECTION B UPGRADE OF MIDWAY SIGNAL DEPOT.	R
TOTAL SUMMARY	R