

REFURBISHMENT FOR LAVISTOWN STATION (BUILDINGS,ELECTRICAL AND ASAPHALT PLATFORM RESURFACING)

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1	<p><u>PART A- BUILDINGS(TICKET OFFICE,TICKET VERIFICATION ,STAFF MESS ROOMS ,SHELTERS AND PUBLIC ABULUTIONS)</u></p> <p><u>BILL NO.1</u></p> <p><u>PRELIMINARIES AND GENERAL COSTS</u></p> <p>The Contractor shall allow for all Preliminary Items as set out below in the tender price</p> <p><u>BUILDING AGREEMENT AND PRELIMINARIES</u></p> <p>The JBCC Principal Building Agreement (Minor works agreement Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p><u>The JBCC Principal Building Agreement contract data form an integral part of this agreement</u></p> <p>The JBCC General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the JBCC Minor Works Agreement (Edition 5.2 – May 2018) shall be deemed to be incorporated in this project specific preliminaries, amended as hereinafter described</p> <p>The contractor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause</p> <p><u>PREAMBLES FOR TRADES</u></p> <p>The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in this Project Specific Preliminaries</p> <p>Supplementary preambles and/or specifications are incorporated in this Project Specific Preliminaries to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles</p> <p>The contractors prices for all items throughout these bills of quantities must take account of and include for all of the obligations ,requirements and specifications given in the Model preambles and any supplementary preambles</p> <p><u>BILL OF QUANTITIES</u></p> <p>Please note that the Bill of Quanties is measured in accordance with the standard system of measuring building works</p>	Item	1.00		

SECTION A : MINOR WORKS AGREEMENT

All standard clauses of the minor works agreement are applicable with the exception of the following

Clause 1.0 - Definitions and interpretation

Contract sum

The contract sum to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this agreement. Value Added Tax (VAT) is to be separately stated in the contract data

The contract sum shall include for all construction equipment, temporary works, services and other items and shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary

Value Added Tax

Provision is made in the contract data for inclusion in the contract sum of Value Added Tax (VAT)

GENERAL NOTES

Contractor is required to visit the site and inspect items before bidding for the tender.

View site : Strand Station

Before submitting, the Contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings.

WORK AND MATERIALS

Old material to become property of the contractor

Old materials from alterations, except where described to be re-used or handed over, become the property of the contractor who must allow credit for same in the Final Summary

All rubble and debris from the pulling down are to be carted away without delay and the site is to be left clean and tidy.

OCCUPATIONAL HEALTH AND SAFETY

Presentation, agreement and implementation of the health and safety plan including notifications to local health and safety authorities, open health and safety file inclusive of Covid 19 requirements as per the Department of labour

Designated health and safety personnel, committee, etc as required and Health and Safety file

Carried to summary

BILL NO. 2

ALTERATIONS, DEMOLITIONS, ETC

REMOVAL OF EXISTING WORK

Taking down and removing , ceilings, partitions, etc.

2	Gypsum plasterboard ceilings including cornices, timber brandering, etc	m ²	23.00
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**Hacking up/off and removing tile floor and including
removing mortar bed or backing and preparing concrete
surfaces for new screed, tile finisher**

3	Floor Tiles	m ²	28.00
4	Wall Tiles	m ²	40.00
5	Tile Skirting	m	10.00

**Take out and removing doors, etc. including thresholds, sills,
etc. and building up openings in brick walls including making
good cement plaster on both sides (making good paintwork).**

6	Timber double door exceeding 2,5m ² and not exceeding 5,0m ² from one brick wall	No	3.00
7	Timber single door exceeding 2,5m ² and not exceeding 5,0m ² from one brick wall	No	2.00

Take up and remove floor covering carpeting.

8	Carpet tile floor covering including preparing screed for floor covering	m ²	30.00
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**Taking out and removing doors, windows, etc. from
brickwork to be demolished**

12	Removal of glazing not exceeding 2,5m ² on steel window frame	No	6.00
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Taking out and removing joinery fittings etc

13	Timber floor cupboard 5200 x 600 x 900mm high	No	1.00		
	<u>Taking out/off and removing sundry metalwork</u>				
14	Steel double leaf security gate exceeding 2,5m ² and not exceeding 5,0m ²	No	4.00		
	<u>Plaster exposed water pipe</u>				
15	Plaster exposed High density polyethylene water pipes in the wall including making good plaster to receive new wall paint	m ²	5.00		
	<u>Earth filling supplied by the contractor compacted to 95% Mod AASHTO density.</u>				
16	Backfill to holes, etc.	m ³	10.00		
	<u>Carried to summary</u>				
<u>BILL NO. 3</u>					
<u>CARPENTRY AND JOINERY</u>					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Joinery</u>					
Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc					
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes					
<u>Fixing</u>					
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete					
<u>Wrought Meranti doors hung to timber frames</u>					
19	40mm Double leaf door 1800 x 2100mm high, with rebated meeting styles	No	3.00		
	<u>Solid flush door on both sides hung to steel frames</u>				
20	40mm Door 710mm x 1900mm. high	No	4.00		
	<u>External Anti-Bandit Door</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 angle rebates, overall size 930 x 2100mm high in powder coating and or galvanised 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

No

2.00

General

The following cupboard fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc

Kitchen cupboards etc with approved hinges, handles

- 21 Sink cupboard size 1800 x 600 x 900mm high with sides, bottom, divisions, shelf, back and 3 single hinged doors, with a Granite Top cut size to fit stainless steel sink (sink & Taps elsewhere)

No

1.00

SKIRTINGS

Wrought meranti

- 22 20 x 120mm solid meranti skirting

m

20.00

CUBICLES AND SHELVES

- 23 Manufacture, supply and install : Ticket sale tinted glass cubicle size (2.7 high x2.5m wide), 900mm x2100mm complete Aluminium glass Door with 32mm thick Melamine wood grain "Vancouver Maple" or other colour board with 32 mm work-tops, vanity, tripple drawer units and edged all around in black hi-impact edging to suit. All new counters to include , counter holes for cash transit, two down lights, aluminium skirting .

No

4.00

Carried to Summary

BILL NO. 4

IRONMONGERY

LOCKS, HANDLES, INDICATORS ETC

- 24 3 lever lock set SABS approved

Set

3.00

- 25 Mortice lock Indicator

Set

4.00

HINGES, BOLTS, ETC

"Halstead" or similar approved:

26	100x70mm Brass butt hinges with concealed washers	No	20.00	
	<u>DOOR SIGNAGE</u>			
	<u>Door mounted signs fixed to brickwork or concrete</u>			
27	300 x 300 Male Sign	No	2.00	
28	300 x 300 Female Sign	No	2.00	
29	300 x 300 Paraplegic Toilet sign	No	2.00	
	<u>Carried to Summary</u>			
	<u>BILL NO. 5</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>GALVNISED STEEL SCREEN AND GATES</u>			
	<u>Burglar gates</u>			
	Welded security gate for opening 1400 x 1800mm high overall, 25mm square hollow tubing hinge to a frame surround fixed to brickwork including Grade 304 Stainless steel security deadlock with deadcase plated fixed in a frame with master key and push and pull handles			
30		No	2.00	
	Welded security gate for opening 900 x 1800mm high overall, 25mm square hollow tubing hinge to a frame surround fixed to brickwork including Grade 304 Stainless steel security deadlock with deadcase plated fixed in a frame with master key and push and pull handles			
31		No	2.00	
	<u>KROST Metal Shelving</u>			
	914 x 381 1875mm High pre-painted and bolted metal shelving consisting of six shelves all three units bolted together fixed to the wall.			
32		No	1.00	
	<u>Hot Dipped galvanised Roller shutter</u>			
	Galvanised steel roller shutters with 76mm slats (18kg/m), with epoxy powder coated finish, fixed to brickwork or concrete			
	Manual push up slatted roller shutter for 1000 x 1100mm high opening			
33		No	2.00	
	<u>Carried to Summary</u>			
	<u>BILL NO. 6</u>			

CEILINGS AND PARTITIONING**Ceilings**

38	6,4mm Rhino gypsum horizontal plasterboard ceilings including 38 x 38mm sawn softwood brander at 450mm centres	m ²	90.00
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39	Extra over ceilings for 0,60 x 0,60m trap door of 44 x 44mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	2.00
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Carried to Summary**BILL NO. 7****ROOF COVERING****SUPPLEMENTARY PREAMBLES**

Where battens for roof coverings form part of the plate nailed
timber roof trusses design it shall be included under the roof
construction in the carpentry and joinery trade and not under this
trade.

PROFILED METAL SHEETING AND ACCESSORIES

40	Inspect possible leaks and repair	item	1.00
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Carried to Summary**BILL NO. 8****PAINTWORK****PAINTWORK, ETC PREVIOUSLY PAINTED WORK****ON EXTERNAL FLOATED PLASTER SURFACES****PREPARATORY WORK TO EXISTING WORK**

Note: All surfaces shall be thoroughly washed down and allowed to

Prepare surfaces and paint one coat plascon professional plaster
primer and finish with two coats plascon wall and all as per
PRASA colour specification

41	External wall	m ²	70.00		
	<u>primer and finish with two coats Plascon Low sheen wall and all as</u>				
42	Internal walls-	m ²	50.00		
ON PLASTERBOARD SURFACES					
	<u>primer and finish with two coats Plascon Low sheen wall and all as</u>				
43	Ceilings, cornice and Partitions-	m ²	90.00		
ON WOOD SURFACES					
	<u>and one coat 'Dulux' Trade universal undercoat and two coats</u>				
44	On doors-	m ²	33.00		
45	On Timber Door frames, etc-	m ²	3.50		
	<u>Carried to Summary</u>				
<u>BILL NO.9</u>					
<u>GLAZING</u>					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Glazing to steel with putty</u>					
<u>4mm Float Glass</u>					
<u>Repair glass panes and secure with window putty</u>					
46	Panes not exceeding 0,1m ²	m ²	2.50		
47	Panes exceeding 0,1m ² and not exceeding 0,5m ²	m ²	7.00		
	<u>edges fixed with chromium plate dome headed mirror screws</u>				
48	Mirror size 300 x 450mm high	No	3.00		
49	Mirror size 450 x 600mm high	No	3.00		
	<u>Carried to Summary</u>				

BILL NO.10**PLUMBING AND DRAINAGE****SUPPLEMENTARY PREAMBLES****PIPES AND FITTING**

All rates supplied in this bill of quantities will be deemed to include scaffolding to any height and fixing of cold and hot water pipes up to and including roof height

All pipes shall be deemed to include in the rates all necessary hanger brackets, threaded rod (irrespective of the suspension length), nuts, washers, anchors and drilling of holes in the concrete slab.

All cold & hot water supply pipes are to be chased into walls except where pipes are to be surface-mounted on wall face and fixed with standard type pipe saddles and brackets

Allow the sum of R2000 for Testing water supply system

50

item

1.00

COPPER PIPE

Supply and install Class 1 copper pipes with and including brackets, fittings fixed to walls, etc. Note : Rate to include all fittings; bends, elbows, t pieces, reducers, couplers, etc.

51 15 mm Pipe

m

2.00

52 22 mm Pipe

m

2.00

53 28 mm Pipe

m

2.00

54 35 mm Pipe

m

2.00

55 42 mm Pipe

m

2.00

56	54 mm Pipe	m	2.00		
57	76 mm Pipe	m	2.00		
	<u>Carried to Summary</u>				
	<u>BILL NO. 11</u>				
	<u>EXTERNAL WORKS</u>				
	SUPPLEMENTARY PREAMBLES				
	FENCING				
	<u>Fence Repair and patch works</u>				
	Security fencing, gates, etc, including two coats aluminium paint on metal standards, posts, etc, bolts, straining eye bolts, site clearance and preparation of ground				
	Palisade Fencing				
60	New Palisade fencing around the ticket office, 1,8m high above ground with top and bottom rails and post 2,0m long at 2,0m centres cast in and including 400x 500 x 600mm concrete base in the ground to secure the post	m	200.00		
	<u>Clearview - fencing</u>				

61	<p>Black coated clear view high density security galvanised mesh fence with min 3.15mm horizontal wire diameter and 4mm vertical wire diameter. Panels: Appertures to be 76x12mm inner and min 3050mm wide panels to be reinforced with 4x 50mm V formation horizontal recessed bands. Height above the ground to be min 3000mm. All fixtures to be on the inside of the fence line. Panel to be fixed over 48 line wires with Double and single bolt clamps using Anti Vandal bolts. Posts to embedded into concrete and must have moisture proof caps for all posts. Pending on the security risk area; a) Razor mesh panels 600mm high b) Shark tooth spike rails and or c) 100mm Castle type spike rails can be installed on top of mesh. Posts to be 85mm width which includes Locking recess mechanism, posts to be sealed with UV stabilized polymer cap and post to be Hot Dipped galvanized. A 10 year underwritten Anti - Corrosion Gurantee life span to be provided. Product to comply with SANS 10244-2:2003 ISO 1461 hot dip galvanising. Anti - Burrow options: from 300 - 600mm Mesh extension shall be secured to to the panels underside for additional security and or a 200mm concrete sill shall be secured to the panel's lower edge angle. Any concrete work to be certified by an engineer.</p> <p>Concrete to fencing bases</p>	m	370.00			
62	<p>Mass concrete, strength as specified by engineer.</p> <p>Asphalt base & surfacing/patching</p> <p>Soil poisoning</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>Approved brand of antiterminate soil poison applied by a registered pest control companyand guaranteed against termite infestation for ten years.</p>	m3	6.00			
63	<p>Application of soil poisoning to platforms</p> <p>Bituminous surface treatment prime coat</p>	m ²	2300.00			
64	<p>50/70 penetration-grade bitumen (0,7l/m2)</p> <p>Tack Coat</p>	m ²	800.00			
65	<p>Tack coat of 30% stable grade emulsion (0,55l/m2)</p> <p>Asphalt Surfacing (Platform)</p>	m ²	800.00			
66	<p>Asphalt to platform for resurfacing and making good</p> <p>paint complete as per existing road marking signs layout</p>	m ²	1200.00			
67	<p>100mm wide solid yellow line</p> <p>Manholes</p>	m	400.00			

	<u>Realign manholes, cover, etc. to new tarmac resurfacing :</u>				
68	Size 350 X300mm	No	10.00		
	ELECTRICAL KIOSK				
	Manufacture, Build and install a new electrical kiosk with clay brick walls, steel reinforced concrete flat top. Dimensions to be used in construction of kiosk:				
	• Concrete slab width 145mm x length 2300mm x breadth 1500mm.				
	• Brick part length 2000mm x breadth 1200mm.				
	• Steel doors 5mm thick.				
	• 740mm width x 1530mm length.				
	• Structure height 1800mm. Doors to be manufactured of 5mm thick mild steel plate with heavy duty hinges and a locking mechanism. Doors to have a 5mm thick mild steel box to cover lock and handle. Doors and frames to be galvanized. Brick structure to be painted with 3 layers of etch primer and two layers of Prasa blue.				
69		Item	1.00		
	<u>Carried to Summary</u>				
	<u>BILL NO.12</u>				
	<u>ELECTRICAL WORK</u>				
	<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				
	Supply, install test commission and hand over in good working conditions complete the electrical system as per BoQ, specifications, IEE wiring regulations. All the material to be supplied to bear SABS mark or SABS mark of compliance.				
69	Supply and install 13W 2D LED Round Bulkhead light fittings for shelters. Bolt light fittings onto brick wall. Chasing into wall to hide cables.	Item	20.00		
70	– Length= 340, Width= 340 and height= 220 and they must be	Item	20.00		
71	LED Flood lights for station building outside	Item	3.00		
	Re-wire shop on platform	Item	1.00		
72	Platform Light fittings LED 4000Lm minimum	Item	7.00		
73	Contactors	Item	2.00		
74	Photo cell	Item	2.00		
75	Twin & Earth 2,5mm ²	m	100.00		
76	Hydroboil 10l	Item	1.00		
77	Pole Circuit breaker inspection covers	Item	3.00		

78	5 foot LED tubes	Item	60.00	
	HVAC Systems			
79	Supply, install and commission new 24000 BTU split unit,	No	2.00	
	Carried to Total			
	<u>BILL NO.13</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.			
	All rubble shall be taken away from site on a daily basis.			
	<u>BILL NO.14</u>			
	<u>SIGNAGES</u>			
	<u>Wall Mounted Station Name</u>			
80	500mm x 3000mm Wall Mounted Station name (LAVISTOWN STATION) Illuminated Text with ACM Cladded steel structure with routed out graphics (Refer to Code sign B3.1 of Prasa Signages Blue print)	No	1.00	
	<u>Double Sided Floor Mounted Platform Station Name</u>			
81	2600mm x 3000mm Double sided platform station name (LAVISTOWN STATION) with ACM Cladded steel structure with vinyl graphic overlay suspended with two support 2.1m high poles (Refer to Code sign E2.1 of Prasa Signages Blue print)	No	2.00	
	<u>Double Sided Projecting Directional Sign</u>			
82	940mm x 1500mm Double Sided Projecting Directional Sign with ACM Cladded steel structure with vinyl graphic overlay and wall mounted (Refer to Code sign B1.4 of Prasa Signages Blue print)	No	1.00	
	<u>Wall Mounted and Door Mounted Internal Sign</u>			
83	300mm x 300mm Wall and Door Mounted Internal Sign with ACM Cladded steel structure with vinyl graphic overlay (Refer to Code sign J2.1 of Prasa Signages Blue print)	No	6.00	
	<u>Wall Mounted Single Sided Iconography Sign</u>			

84	500mm x 500mm Side Mounted Double Sided Informational Sign with ACM Cladded steel structure with vinyl graphic overlay (Refer to Code sign B2.1 of Prasa Signages Blue print)	No	5.00		
	<u>Ticket Sales Decals - ABS and Vinyl</u>				
85	100mm x 530mm Ticket Sales Decals - ABS and Vinyl with Digitally printed Graphics with ABS backing (Refer to Code sign F2.1 of Prasa Signages Blue print)	No	4.00		
	<u>Pole Mounted Double Sided Platform Number</u>				
86	500mm x 500mm Pole Mounted Double Sided Platform Number (1) with ACM Cladded steel structure with vinyl graphic overlay (Refer to Code sign C2.1 of Prasa Signages Blue print)	No	2.00		
	<u>Digitally printed Prohibition Signs</u>				
87	800mm x 300mm ea Digitally printed Prohibition Signs Digitally Printed Graphics mounted on walls (Refer to Code sign J1.1 of Prasa Signages Blue print)	No	4.00		
	<u>End of Platform Sign - New Pole Required</u>				
88	300mm x 1800mm End of Platform Sign - New Pole Required with Digitally Printed Graphics Mounted to New Pole at the End of the Platform (Refer to Code sign E1.3 of Prasa Signages Blue print)	No	2.00		
	<u>Carried to Total-</u>				
	<u>BILL NO 14</u>				
	<u>PROVISIONAL SUMS</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Budgetary allowance</u>				
	The following budgetary allowances are generally for work to be executed by specialist suppliers to be appointed by the contractor. Quotations shall be obtained from suppliers and get agreed upon by the Prasa Project Manager and the contractor for each Trade of the budgetary allowance items.				
	Building, Electrical and External work trades.	Item	1.00		
	Deep cleaning	Item	1.00		

	Carried to Total				

ITEM	SUMMARY	AMOUNT(S)
	<u>PART A- BUILDING</u>	
1	PRELIMINARIES AND GENERAL COSTS	
2	ALTERATIONS, DEMOLITIONS, ETC-	
3	CARPENTRY AND JOINERY-	
4	IRONMONGERY-	
5	METALWORK-	
6	CEILINGS AND PARTITIONING-	
7	PAINTWORK-	
8	ROOF COVERING-	
8	GLAZING-	
9	PLUMBING AND DRAINAGE-	
	<u>PART B-TAR PLATFORM RE-SURFACING</u>	
10	EXTERNAL WORKS-	
	<u>PART C -ELECTRICAL & SIGNAGES</u>	
11	ELECTRICAL WORKS-	
	SIGNAGES-	
	<u>PART D-PROVISIONS</u>	
13	BUDGETARY ALLOWANCE-	
	<u>Total</u>	
	<u>VAT (15%)</u>	
	<u>GRAND TOTAL</u>	