

REFURBISHMENT FOR BONTEHEUWEL STATION (BUILDINGS,ELECTRICAL AND ASPHALT PLATFORM RESURFACING)

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1	<u>PART A- BUILDINGS(TICKET OFFICE,TICKET VERIFICATION ,STAFF MESS ROOMS ,SHELTERS AND PUBLIC ABULUTIONS)</u> <u>BILL NO.1</u> <u>PRELIMINARIES AND GENERAL COSTS</u> The Contractor shall allow for all Preliminary Items as set out below in the tender price <u>BUILDING AGREEMENT AND PRELIMINARIES</u> 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 <u>The JBCC Principal Building Agreement contract data form an integral part of this agreement</u> 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 The contractor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause <u>PREAMBLES FOR TRADES</u> 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 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 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 supplimentary preambles <u>BILL OF QUANTITIES</u> Please note that the Bill of Quanties is measured in accordance with the standard system of measuring building works	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 : Srand 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				
	<u>Carried to summary</u>				
	<u>BILL NO. 2</u>				
	<u>CARPENTRY AND JOINERY</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Joinery</u>				
	mullions, rails, etc				
	bolt holes				
	<u>Fixing</u>				
	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	1.00		
	<u>Solid flush door on both sides hung to steel frames</u>				
20	40mm Door 710mm x 1900mm. high	No	7.00		
	<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		
	<u>General</u>				
	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				
	<u>Kitchen cupboards etc with approved hinges, handles</u>				

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	
	<u>SKIRTINGS</u>			
	Wrought meranti			
22	20 x 120mm solid meranti skirting	m	20.00	
	<u>CUBICLES AND SHELVES</u>			
	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			
23	down lights, aluminium skirting .	No	4.00	
	<u>Carried to Summary</u>			
	<u>BILL NO. 3</u>			
	<u>IRONMONGERY</u>			
	<u>DOOR SIGNAGE</u>			
	<u>Door mounted signs fixed to brickwork or concrete</u>			
2	300 x 300 Male Sign	No	2.00	
3	300 x 300 Female Sign	No	2.00	
4	300 x 300 Paraplegic Toilet sign	No	2.00	
	<u>Carried to Summary</u>			
	<u>BILL NO. 4</u>			
	<u>METALWORK</u>			
	<u>Steel Benches</u>			
5	3m Single Seat with straight leg with Galvanised and polyurethane painted platform bench, set into concrete bed.	No	14.00	
	<u>Steel Bins</u>			
6	Steel litter bin size 400mm Ø x 750mm high / 72-litre capacity with steel ash tray, galvanised with a polyurethane pain	No	7.00	
	<u>Carried to Summary</u>			
	<u>BILL NO. 4</u>			

<u>CEILINGS AND PARTITIONING</u>					
softwood					
<u>Ceilings</u>					
7	centres	m ²	32.00		
<u>Rhino gypsum plasterboard cornices</u>					
8	75mm Coved cornices	m	30.00		
<u>Skylight</u>					
9	Skylight to roof of station building	m ²	20.00		
<u>Carried to Summary</u>					
<u>BILL NO. 5</u>					
<u>PAINTWORK</u>					
<u>PAINTWORK, ETC PREVIOUSLY PAINTED WORK</u>					
<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>					
<u>PREPARATORY WORK TO EXISTING WORK</u>					
Note: All surfaces shall be thoroughly washed down and allowed to					
<u>Prepare surfaces and paint one coat plascon professional plaster primer and finish with two coats plascon wall and all as per PRASA colour specification</u>					
10	External wall on concourse at elevated height	m ²	400.00		
10.1	Platform shelters	m ²	190.00		
<u>Prepare surfaces and paint one coat plascon professional plaster primer and finish with two coats Plascon Low sheen wall and all as per PRASA colour specification</u>					
11	Internal walls-	m ²	100.00		
<u>ON PLASTERBOARD SURFACES</u>					
<u>Prepare surfaces and paint one coat plascon professional plaster primer and finish with two coats Plascon Low sheen wall and all as per PRASA colour specification</u>					
12	Ceilings, cornice and Partitions-	m ²	54.00		
<u>ON WOOD SURFACES</u>					
<u>Prepare surfaces and paint one coat 'Dulux 'Supergrip primer and one coat 'Dulux' Trade universal undercoat and two coats Dulux trade Pearlqlo and all as per PRASA colour specification</u>					
13	On doors-	m ²	55.00		

14	On Timber Door frames, etc-	m ²	6.00		
	<u>Carried to Summary</u>				
	<u>BILL NO.9</u>				
	<u>GLAZING</u>				
	<u>Glazing to steel with putty</u>				
	<u>Carefully take out remove glass and clean steel window frames to receive new glass</u>				
15	Clear float glass 4mm thick small panes not exceeding 0.1 m2	m ²	1.00		
	<u>4mm Silvered float glass copper backed mirrors with polished edges fixed with chromium plate dome headed mirror screws</u>				
16	Mirror size 300 x 450mm high	No	2.00		
17	Mirror size 450 x 600mm high	No	2.00		
	<u>Carried to Summary</u>				
	<u>BILL NO.10</u>				
	<u>PLUMBING AND DRAINAGE</u>				
18	Allow R20 000 for fixing and making good plumbing and drainage	Item	1.00		
19	Testing water supply system	Item	1.00		
	<u>PVC gutters and down pipes</u>				
	<u>Rainwater Disposal</u>				
20	PVC Gutter	m	130.00		
21	PVC downpipes	m	60.00		
22	50 x 20mm high overflow spigot	No	12.00		
	<u>Carried to Summary</u>				
	<u>BILL NO. 11</u>				
	<u>EXTERNAL WORKS</u>				
	<u>Asphalt base & surfacing/patching</u>				
	<u>ASPHALT</u>				
	Asphalt patch work				

23	50mm thick Asphalt patch work to existing tarred platforms	m ²	580.00		
	Soil poisoning				
	Approved brand of antiterminate soil poison applied by a registered				
24	Application of soil poisoning to platforms	m ²	2700.00		
	Prime Coat				
25	50/70 penetration-grade bitumen (0,7l/m2)	m ²	2700.00		
	Tack Coat				
26	Tack coat of 30% stable grade emulsion (0,55l/m2)	m ²	2700.00		
	Asphalt Surfacing (Platform)				
27	50mm thick Asphalt to platform for resurfacing and making good	m ²	2700.00		
	Road marking paint on Tar surfacing with non - reflective paint complete as per existing road marking signs layout				
28	100mm wide solid yellow line	m	2700.00		
	External Anti-Bandit Door				
	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		
29	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.	Item	1.00		
30	FENCING				

Palisade fence

31	New Palisade fencing, 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. No claim for excavation ,Backfilling and compacting will be entertained ,Shall deemed to be included on the tendered rates. Incl. mass concrete to bass, specified by engineer.	m	350.00
----	--	---	--------

Fence - Clearview

31	Black coated clearview fencing - 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.	No	20.00
----	---	----	-------

Single pedestrian gate including lock mechanisms, etc complete

32	1000 x 1800mm High galvanised "Palisade Gate" or similar approved	No	2.00
----	---	----	------

Carried to Summary
BILL NO.12
ELECTRICAL WORK

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.

33	Supply and install 13W 2D LED Round Bulkhead light fittings for shelters. Bolt light fittings onto brick wall. Chasing into wall to hide cables.		25.00
34	Inside anti-vandal cages for shelters - Following these dimensions – Length= 340, Width= 340 and height= 220 and they must be deep galvanized.	Item	25.00
35	LED Flood lights for station building outside	Item	4.00
36	Platform Light fittings LED 4000Lm minimum	Item	8.00
37	Contactor	Item	3.00
38	Photo cell	Item	3.00
39	Twin & Earth 2,5mm ²	m	200.00
40	Hydroboil 10l	Item	1.00
41	Pole circuit breaker inspection covers	Item	3.00
42	5 foot LED tubes	Item	70.00
<u>HVAC Systems</u>			
43	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	2.00
Carried to Total			
<u>BILL NO.13</u>			
<u>SIGNAGE</u>			
<u>Wall Mounted Station Name</u>			
80	500mm x 3000mm Wall Mounted Station name (BONTEHEUWEL 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 (BONTEHEUWEL 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>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.

54 Deep cleaning of site after completion of works

Item

1.00

Carried to Total

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