

BID DESCRIPTION: APPOINTMENT OF AN 3GB OR HIGHER BUILDING CONTRACTORS FOR THE REFURBISHMENT AND MINOR WORKS AT CLUSTER 1 (MULDERSVLEI, DUTOIT) AND CLUSTER 2 (STELLENBOSCH, AND VAN DER STEL) STATIONS FOR A PERIOD OF 6 MONTHS FROM THE DATE OF SITE HANDOVER IN THE WESTERN CAPE REGION

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CLUSTER 1 (DU TOIT AND MULDERSVLEI STATION) BILL OF QUANTITIE (BOQ)

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REFURBISHMENT FOR DU TOIT STATION (BUILDINGS, ELECTRICAL AND PLATFORM RESURFACING)					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<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>				
	-				
1.1	The Contractor shall allow for all Preliminary Items as set out below in the tender price	Item	1.00		R -
	-				
	<u>BUILDING AGREEMENT AND PRELIMINARIES</u>				
	-				
	The JBCC Principal Building Agreement (Minor works agreement Edition 5.2 - 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>				
	-				

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	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 supplementary preambles				
	BILL OF QUANTITIES				
	Please note that the Bill of Quantities is measured in accordance with the standard system of measuring building works				

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	-				
	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.				

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	View site: Du Toit 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.				
	-				
	<u>OCCUPATIONAL HEALTH AND SAFETY</u>				
	-				
1.2	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 Act 85 of 1993 Occupational Health and Safety, Act 16 of 2002 Railway Safety Act and Covid 19 requirements as per the Department of labour.				
	Designated health and safety personnel, committee, etc as required and Health and Safety file				

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	<u>Carried to summary</u>				R	-
	<u>BILL NO. 2</u>					
	-					
	<u>ALTERATIONS, DEMOLITIONS, ETC</u>					
	REMOVAL OF EXISTING WORK					
	<u>Taking down and removing, ceilings, partitions, etc.</u>					
2.1	Gypsum plasterboard ceilings including cornices, timber brandering, etc	m ²	40.00		R	-
	<u>Hacking up/off and removing tile floor and including removing mortar bed or backing and preparing concrete surfaces for new screed, tile finisher</u>					
2.2	Wall Tiles	m ²	25.00		R	-
	<u>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).</u>					
2.3	Timber single door exceeding 2,5m ² and not exceeding 5,0m ² from one brick wall	No	11.00		R	-
	<u>Take up and remove floor covering carpeting.</u>					
2.4	Carpet tile floor covering including preparing screed for floor covering	m ²	50.00		R	-

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	<u>Take out and removing piping, sanitary fittings, etc, including cutting off as necessary, disconnecting piping from fittings and making good floor and wall finishes.</u>				
2.5	WC pan with cistern	No	4.00	R	-
2.6	Wash hand basin	No	6.00	R	-
	<u>Taking out and removing doors, windows, etc. from brickwork to be demolished</u>				
2.7	Glazed aluminium window frame and glazing not exceeding 2,5m ²	No	10.00	R	-
	<u>Plaster exposed water pipe</u>				
2.8	Plaster exposed High density polyethylene water pipes in the wall including making good plaster to receive new wall paint	m ²	15.00	R	-
	<u>Earth filling supplied by the contractor compacted to 95% Mod AASHTO density.</u>				
2.9	Backfill to holes, including compaction test	m ³	10.00	R	-
	<u>BUILDING UP OPENINGS</u>				
	<u>Brickwork in NFP bricks in class II mortar in building up openings</u>				
2.10	Double brick walls	m ²	8.00	R	-

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	<u>Demolition of concrete blocks and opening up a building</u>				
2.11	Removal/demolition of concrete blocks within walls	m ²	7.00		R -
	<u>Carried to summary</u>				R -
	<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, transoms, 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>				
3.1	40mm Single leaf Door 900 x 2100mm. high with rebated meeting styles	No	9.00		R -

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3.2	40mm Double leaf door 2000 x 2100mm high, with rebated meeting styles	No	2.00		R -
	<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>				
3.3	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		R -
	-				
	<u>Carried to Summary</u>				R -
	-				
	<u>BILL NO. 4</u>				
	-				
	<u>IRONMONGERY</u>				
	<u>LOCKS, HANDLES, INDICATORS ETC</u>				
3.4	2 lever lock set SABS approved	No	9.00		R -

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3.5	3 lever lock set SABS approved	No	2.00		R	-
3.6	Mortice lock Indicator	No	4.00		R	-
	<u>HINGES, BOLTS, ETC</u>					
	"Halstead" or similar approved:					
3.7	100x70mm Brass butt hinges with concealed washers	No	22.00		R	-
	<u>DOOR SIGNAGE</u>					
	-					
	<u>Door mounted signs fixed to brickwork or concrete as per PRASA Blueprint Specification</u>					
3.8	300 x 300 Male Sign	No	2.00		R	-
3.9	300 x 300 Female Sign	No	2.00		R	-
3.10	300 x 300 Paraplegic Toilet sign	No	1.00		R	-
	<u>Carried to Summary</u>				R	-
	<u>BILL NO. 4</u>					
	-					
	<u>METALWORK</u>					
	-					
	<u>SUPPLEMENTARY PREAMBLES</u>					

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	-				
	Descriptions of bolts, anchors, etc				
	-				
	Descriptions of bolts shall be deemed to include nuts and washers				
	-				
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete				
	<u>GALVNISED STEEL SCREEN AND GATES</u>				
	<u>Burglar gates</u>				
4.1	Welded security gate for opening 2000 x 2100mm 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	No	1.00		R -
	<u>Canteen</u>				
	<u>Tubular metal table and metal Seating</u>				
4.2	6-Seater canteen table 1800 x 1307 x770mm high fixed to floor	No	2.00		R -
	<u>Steel locker</u>				
4.3	2 Tier two Door 1800 x300x450mm steel locker fixed to wall	No	1.00		R -
	<u>GALVANISED STEEL MESH STONEGUARD</u>				

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	Security wire mesh screens to frames as per PRASA CRES specification				
4.4	Welded security grille screen for opening 1500 x 1800mm high overall, with 25 x 25 x 3mm thick metal surround frame	No	2.00		R -
	<u>Steel Benches</u>				
4.5	3m Single Seat with straight leg wit Galvanised and polyurethane painted platform bench, set into concrete bed.	No	2.00		R -
	<u>Steel Bins</u>				
4.6	Steel litter bin size 400mm Ø x 750mm high / 72-litre capacity with steel ash tray, galvanised with a polyurethane pain	No	3.00		R -
	<u>ALUMINIUM WINDOWS, DOORS, ETC WINDOWS</u>				
	Install 38mm Natural anodised aluminium casement system windows, glazed in accordance with part N glazing regulations using 6.38mm laminated safety glass including all ironmongery, glass and polyurethane sealant. A barrier is to be applied between the steel and aluminium sections and machine screws to be used during installation. An aluminium flat bar is to be used to clad the existing steel frames to the interior of the windows:				
	Purpose made aluminium windows including ironmongery, glass and polyurethane sealant:				
4.7	Window Size 500mm wide x 500mm high overall	No	5.00		R -

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	<u>Carried to Summary</u>				R	-
	<u>BILL NO. 5</u>					
	-					
	<u>TILING</u>					
	-					
	<u>SUPPLEMENTARY PREAMBLES</u>					
	-					
	<u>Descriptions:</u>					
	-					
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding.					
	-					
	Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" or similar approved range of products as recommended by the manufacturer of the tiles					
	<u>Preparatory work to existing painted plastered surfaces</u>					
	Preparation of all existing painted plastered surfaces is to include for removing all loose and flaking material by wire brushing, thoroughly washing down and allowing to dry completely and applying one coat masonry bonding agent					
	<u>PORCELAIN TILES</u>					
	600 x 600 x 25mm Porcelain tiles, fixed with adhesive to screed and flush pointing with and including tinted grout:					

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	-				
5.1	On floors-	m ²	50.00		R -
5.2	On skirting -	m	39.00		R -
	<u>SUNDRIES</u>				
	<u>M-Trim Aluminium</u>				
5.3	ESA100.80 Straight edge trim	m	15.00		R -
5.4	EQS 100.84 Square stainless steel corner edge trim	m	23.00		R -
	<u>Carried to Summary</u>				R -
	<u>BILL NO. 6</u>				
	-				
	<u>CEILINGS AND PARTITIONING</u>				
	-				
	6.4mm "Rhino" gypsum plasterboard with 32mm wrought softwood				
	<u>Ceilings</u>				
6.1	Ceilings including 38 x 50mm sawn softwood branderling at 400mm centres	m ²	40.00		R -
	<u>Rhino gypsum plasterboard cornices</u>				

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6.2	75mm Coved cornices	m	28.00		R -
	<u>Carried to Summary</u>				R -
	<u>BILL NO. 7</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 dry completely before any paint is applied. Blistered or peeling paint shall be completely removed, and cracks shall be opened, filled with suitable filler and finished smooth				
	-				
	<u>Prepare surfaces and paint one coat plascon professional plaster primer and finish with two coats plascon wall and/ or similar and equally approved all as per PRASA colour specification</u>				
7.1	External wall	m ²	1152.00		R -

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	<u>Prepare surfaces and paint one coat plascon professional plaster primer and finish with two coats Plascon Low sheen wall and/ or similar and equally approved all as per PRASA colour specification</u>				
7.2	Internal walls-	m ²	460.00	R	-
	ON PLASTERBOARD SURFACES				
	<u>Prepare surfaces and paint one coat plascon professional plaster primer and finish with two coats Plascon Low sheen wall and/ or similar and equally approved all as per PRASA colour specification</u>				
7.3	Ceilings, cornice and Partitions-	m ²	136.00	R	-
	ON WOOD SURFACES				
	<u>Prepare surfaces and paint one coat 'Dulux 'Supergrip primer and one coat 'Dulux' Trade universal undercoat and two coats Dulux trade Pearl glo and or similar and equally approved all as per PRASA colour specification</u>				
7.4	On doors-	m ²	42.00	R	-
7.5	On Timber Door frames, etc-	m ²	24.00	R	-
	<u>Prepare surfaces and paint one coat plascon professional plaster primer and finish with two coats Plascon Low sheen wall and/ or similar and equally approved all as per PRASA colour specification</u>				
	-				

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7.6	Bargeboards-	m	178.00		R	-
	<u>Prepare surfaces and paint one coat 'Dulux ' primer for wood and one coat 'Dulux' Trade universal undercoat and two coats Dulux Trade Gloss enamel and/ or similar and equally approved all as per PRASA colour specification</u>					
	-					
7.7	Open slatted timber seating-	m	50.00		R	-
	<u>Prepare surfaces and paint one coat of ultra woodcare varnish and all as per PRASA colour specification</u>					
7.8	Heritage window, doors, frames etc.	m ²	30.00		R	-
	<u>Carried to Summary</u>				R	-
	-					
	<u>BILL NO.8</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>					
8.1	Clear float glass 4mm thick small panes exceeding 0.5m ² but not 1m ²	m ²	5.00		R	-
	<u>Carried to Summary</u>				R	-

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	<u>BILL NO.9</u>				
	-				
	<u>PLUMBING AND DRAINAGE</u>				
	<u>Stainless steel</u>				
	-				
9.1	Sink and drainer 900 x 530mm wide with one bow, all as per PRASA Blueprint specification	No	1.00		R -
	<u>Heavy Duty Urinal</u>				
	-				
9.2	Wall mounted urinal with back inlet with flushing mechanism, all as per PRASA Blueprint specification	No	3.00		R -
	<u>Taps and Flush Valves</u>				
	-				
9.3	Concealed vandal resistant push-button urinal flush valve with sleeve, all as per PRASA Blueprint specification	No	6.00		R -
9.4	15mm chrome plated deck mounted sink mixer with overarm swivel outlet and adjustable flanges (Code: NA-970), manufactured in accordance with SANS 226:2004 Type 1 (BS 5412). All as per PRASA Blueprint specification	No	1.00		R -
9.5	Basins self-closing push button pillar Tap, cold water supply only, chrome finish, code 08212 with flow time of 15 sec or equal approved. All as per PRASA Blueprint specification	No	6.00		R -
9.6	Concealed vandal resistant push-button toilet flush valve, all as per PRASA Blueprint specification	No	4.00		R -

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	<u>High density polyethylene class 16 pipes</u>				
	-				
9.7	25mm pipes with all other required connections laid in including wall trenching and plaster and make good	m	75.00		R -
9.8	Testing water supply system	Item	1.00		R -
	<u>WC,S</u>				
9.9	Whyte House vandal resistant WC pan and duct cistern (code 7109DP), complete with lid, fitments and duct flush pipe. Push button mechanism elsewhere specified. Should be used with any back inlet pan, All as per PRASA Blueprint specification	No	4.00		R -
	<u>Sanitary Fittings & Accessories</u>				
9.10	Automatic Soap/ Sanitiser Dispenser fixed to the walls	No	4.00		R -
	<u>Carried to Summary</u>				R -
	<u>PART B-TAR PLATFORM RE-SURFACING, FENCING & ELECTRICAL KIOSK BUILDING</u>				
	<u>BILL NO. 10</u>				
	<u>EXTERNAL WORKS</u>				
	Excavation				

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10.1	Remove existing Platform Tar and Excavation to reduce levels under platform areas	m ³	5.00		R -
	Earth filling supplied by the contractor under roads, parking areas, paving				
10.2	Sub-base layer G5 type material stabilized with 3% cement to obtain a C4 material compacted to 95% Modified AASHTO density	m ³	5.00		R -
	Compaction of surfaces				
10.3	Compaction of ground surface under roads and parking areas including , breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m ²	5.00		R -
	Tests				
10.4	Modified AASHTO Density" test to 93%	No	6.00		R -
	ASPHALT				
	Tar Surfacing (Platform)				
10.5	Tar road Platform resurfacing and making good	m ²	5.00		R -
	Concrete pavers surfacing				

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10.6	Reinstate to match existing 500 x 500mm concrete pavers	m	8.00		R -
10.7	Reinstate to match existing standard floor surface paving	m ²	24.00		R -
	Road marking paint on Tar surfacing with non - reflective paint complete as per existing road marking signs layout				
10.8	100mm wide solid yellow line	m	225.00		R -
	Manholes				
	<u>Realign manholes, cover, etc. to new tarmac resurfacing:</u>				
10.9	Size 550 X 700mm	No	1.00		R -
	ELECTRICAL KIOSK				
10.10	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		R -

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10.11	Manufacture, Build and install a existing electrical kiosk with steel doors and reinforced concrete flat top. Dimensions to be used in construction of kiosk: • Concrete slab width 145mm x length 2700mm x breadth 2700mm. • Special provision for removal of asbestos roof sheet removal and disposal (2700mm x 2700mm) • Steel doors 5mm thick. (1500mm x 2000mm) 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.	Item	1.00		R -
	<u>Carried to Summary</u>				R -
	Part - C Electrical supply and Electrical equipment to platforms, Building and shelters etc.				
	<u>BILL NO.11</u>				
	-				
	<u>ELECTRICAL WORK</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>Schedule of Quantities</u>				

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	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.				
11.1	10mm ² SWA cable	m	50.00		R -
11.2	Trenching and Backfilling	m	100.00		R -
11.3	16mm ² SWA cable	m	60.00		R -
11.4	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		R -
11.5	Inside anti-vandal cages for shelters - Following these dimensions – Length= 340, Width= 340 and height= 220 and they must be deep galvanized.	Item	20.00		R -
11.6	LED Flood lights for station building outside	Item	3.00		R -
11.7	Re-wire shop on platform	Item	1.00		R -
11.8	Platform Light fittings LED 4000Lm minimum	Item	7.00		R -
11.9	Contactor	Item	2.00		R -
11.10	Photocell	Item	2.00		R -
11.11	Twin & Earth 2,5mm ²	m	100.00		R -

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11.12	Hydroboil 10l	Item	1.00		R	-
11.13	Pole Circuit breaker inspection covers	Item	3.00		R	-
11.14	5-foot LED tubes	Item	60.00		R	-
	HVAC Systems					
11.15	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		R	-
	Carried to Total				R	-
	<u>BILL NO.12</u>					
	<u>SIGNAGES</u>					
	<u>Digitally printed Prohibition Signs</u>					
12.1	800mm x 300mm ea Digitally printed Prohibition Signs Digitally Printed Graphics (Refer to Code sign LL of Prasa Signages Blue print)	No	2.00			
	<u>End of Platform Sign - New Pole Required</u>					
12.2	300mm x 300mm 800mm x 300mm End of Platform Sign - on existing with Digitally Printed Graphics Mounted to New Pole at the End of the Platform (Refer to Code sign NN of Prasa Signages Blue print)	No	4.00			
	<u>Carried to Total-</u>				R	
	SUB TOTAL				R	-

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	10 % Contingency				R -
	SUB TOTAL				R -
	15 % VAT				R -
	TOTAL				R -

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REFURBISHMENT FOR MULDERSVLEI STATION (BUILDINGS, ELECTRICAL AND PLATFORM RESURFACING)					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<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>				
	-				
1.1	The Contractor shall allow for all Preliminary Items as set out below in the tender price	Item	1.00		R -
	-				
	<u>BUILDING AGREEMENT AND PRELIMINARIES</u>				
	-				
	The JBCC Principal Building Agreement (Minor works agreement Edition 5.2 - 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>				
	-				

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	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 supplementary preambles				
	BILL OF QUANTITIES				
	Please note that the Bill of Quantities is measured in accordance with the standard system of measuring building works				
	-				

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	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.				

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	View site : Muldersvlei 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.				
	-				
	<u>OCCUPATIONAL HEALTH AND SAFETY</u>				
	-				
1.2	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 Act 85 of 1993 Occupational Health and Safety, Act 16 of 2002 Railway Safety Act and 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>				R -

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	<u>BILL NO. 2</u>				
	-				
	<u>ALTERATIONS, DEMOLITIONS, ETC</u>				
	REMOVAL OF EXISTING WORK				
	<u>Taking down and removing, ceilings, partitions, etc.</u>				
2.12	Gypsum plasterboard ceilings including cornices, timber brandering, etc	m ²	103.00		R -
	<u>Hacking up/off and removing tile floor and including removing mortar bed or backing and preparing concrete surfaces for new screed, tile finisher</u>				
2.2	Floor Tiles	m ²	45.00		R -
2.3	Wall Tiles	m ²	15.00		R -
	<u>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).</u>				
2.4	Timber single door exceeding 2,5m ² and not exceeding 5,0m ² from one brick wall	No	2.00		R -
	<u>Take up and remove floor covering carpeting.</u>				

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2.5	Carpet tile floor covering including preparing screed for floor covering	m ²	45.00		R	-
	<u>Take out and removing piping, sanitary fittings, etc, including cutting off as necessary, disconnecting piping from fittings and making good floor and wall finishes.</u>					
2.6	WC pan with cistern	No	1.00		R	-
2.7	Wash hand basin	No	1.00		R	-
	<u>Taking out and removing doors, windows, etc. from brickwork to be demolished</u>					
2.8	Glazed aluminium window frame and glazing not exceeding 2,5m ²	No	6.00		R	-
	<u>Taking out and removing joinery fittings etc</u>					
2.9	Timber floor cupboard 5200 x 600 x 900mm high	No	1.00		R	-
	<u>Taking out/off and removing sundry metalwork</u>					
2.10	Steel double leaf security gate exceeding 2,5m ² and not exceeding 5,0m ²	No	1.00		R	-
	<u>Plaster exposed water pipe</u>					
2.11	Plaster exposed High density polyethylene water pipes in the wall including making good plaster to receive new wall paint	m ²	5.00		R	-

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	<u>Earth filling supplied by the contractor compacted to 95% Mod AASHTO density.</u>				
2.12	Backfill to holes, including compaction test	m ³	20.00		R -
	<u>Taking out/off and removing existing mesh fence and gates</u>				
2.13	Make provision to grind off steel I-profile poles (1.5m high) connected to the mesh fence and remove existing mesh fence (185m and 1.5m high).	No	1.00		R -
2.14	Single swing pedestrian gate mesh steel gate (1200mm x 1500mm)	No	1.00		R -
2.15	Double swing pedestrian gate mesh steel gate (2000mm x 1500mm)	No	1.00		R -
	<u>Suspended wooden floor</u>				
2.16	Make provision to prepare and provide a missing wooden floor piece on the suspended foundation.	m ²	2.00		R -
	<u>Carried to summary</u>				R -
	<u>BILL NO. 3</u>				
	-				
	<u>CARPENTRY AND JOINERY</u>				
	-				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	-				

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	<u>Joinery</u>				
	-				
	Descriptions of frames shall be deemed to include frames, transoms, 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>				
3.1	40mm Single leaf Door 900 x 2100mm. high with rebated meeting styles	No	2.00		R -
	<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>				

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3.2	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		R	-
	-					
	<u>Carried to Summary</u>				R	-
	-					
	<u>BILL NO. 4</u>					
	-					
	<u>IRONMONGERY</u>					
	<u>LOCKS, HANDLES, INDICATORS ETC</u>					
4.1	2 lever lock set SABS approved	Set	6.00		R	-
4.2	3 lever lock set SABS approved	Set	2.00		R	-
4.3	Mortice lock Indicator	Set	6.00		R	-
	<u>HINGES, BOLTS, ETC</u>					
	"Halstead" or similar approved:					
4.4	100x70mm Brass butt hinges with concealed washers	No	4.00		R	-
	<u>DOOR SIGNAGE</u>					
	-					
	<u>Door mounted signs fixed to brickwork or concrete, as per Prasa Blueprint Specification</u>					
4.5	300 x 300 Male Sign	No	2.00		R	-

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4.6	300 x 300 Female Sign	No	2.00		R -
4.7	300 x 300 Paraplegic Toilet sign	No	1.00		R -
	<u>Carried to Summary</u>				R -
	<u>BILL NO. 5</u>				
	-				
	<u>METALWORK</u>				
	-				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	-				
	Descriptions of bolts, anchors, etc				
	-				
	Descriptions of bolts shall be deemed to include nuts and washers				
	-				
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete				
	<u>GALVNISED STEEL SCREEN AND GATES</u>				
	<u>Burglar gates</u>				
4.8	Welded security gate for opening 1500 x 2300mm 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	No	1.00		R -

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	<u>Canteen</u>				
	<u>Tubular metal table and metal Seating</u>				
4.9	6-Seater canteen table 1800 x 1307 x770mm high fixed to floor	No	1.00	R	-
	<u>GALVANISED STEEL MESH STONEGUARD</u>				
	Security wire mesh screens to frames as per PRASA CRES specification				
4.10	Welded security grille screen for opening 1600 x 900mm high overall, with 25 x 25 x 3mm thick metal surround frame	No	2.00	R	-
4.11	Welded security grille screen for opening 1200 x 1500mm high overall, with 25 x 25 x 3mm thick metal surround frame	No	1.00	R	-
	<u>Steel Bins</u>				
4.12	Steel litter bin size 400mm Ø x 750mm high / 72-litre capacity with steel ash tray, galvanised with a polyurethane pain	No	3.00	R	-
	<u>ALUMINIUM WINDOWS, DOORS, ETC WINDOWS</u>				
	Install 38mm Natural anodised aluminium casement system windows, glazed in accordance with part N glazing regulations using 6.38mm laminated safety glass including all ironmongery, glass and polyurethane sealant. A barrier is to be applied between the steel and aluminium sections and machine screws to be used during installation. An aluminium flat bar is to be used to clad the existing steel frames to the interior of the windows:				

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	Purpose made aluminium windows including ironmongery, glass and polyurethane sealant:				
	Window Size 800mm wide x 400mm high overall	No	1.00		R -
	<u>Carried to Summary</u>				R -
	<u>BILL NO. 5</u>				
	-				
	<u>TILING</u>				
	-				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	-				
	<u>Descriptions:</u>				
	-				
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding.				
	-				
	Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" or similar approved range of products as recommended by the manufacturer of the tiles				
	<u>Preparatory work to existing painted plastered surfaces</u>				
	Preparation of all existing painted plastered surfaces is to include for removing all loose and flaking material by wire brushing, thoroughly washing down				

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	and allowing to dry completely and applying one coat masonry bonding agent				
	<u>PORCELAIN TILES</u>				
	600 x 600 x 25mm Porcelain tiles, fixed with adhesive to screed and flush pointing with and including tinted grout:				
	-				
5.1	On floors-	m ²	45.00		R -
5.2	On skirting -	m	28.00		R -
	<u>SUNDRIES</u>				
	<u>M-Trim Aluminium</u>				
5.3	ESA100.80 Straight edge trim	m	15.00		R -
5.4	EQS 100.84 Square stainless steel corner edge trim	m	23.00		R -
	<u>Carried to Summary</u>				R -
	<u>BILL NO. 6</u>				
	-				
	<u>CEILINGS AND PARTITIONING</u>				
	-				
	6.4mm "Rhino" gypsum plasterboard with 32mm wrought softwood				
	<u>Ceilings</u>				

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6.1	Ceilings including 38 x 50mm sawn softwood brandering at 400mm centres	m ²	103.00		R	-
	<u>Rhino gypsum plasterboard cornices</u>					
6.2	75mm Coved cornices					
		m	55.00		R	-
	<u>Carried to Summary</u>				R	-
	<u>BILL NO. 7</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 dry completely before any paint is applied. Blistered or peeling paint shall be completely removed, and cracks shall be opened, filled with suitable filler and finished smooth					
	-					
	<u>Prepare surfaces and paint one coat plascon professional plaster primer and finish with two coats plascon wall and / or similar and equally approved all as per PRASA colour specification</u>					
7.1	External wall	m ²	986.00		R	-

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	<u>Prepare surfaces and paint one coat plascon professional plaster primer and finish with two coats Plascon Low sheen wall and/ or similar and equally approved all as per PRASA colour specification</u>				
7.2	Internal walls-	m ²	402.00	R	-
	ON PLASTERBOARD SURFACES				
	<u>Prepare surfaces and paint one coat plascon professional plaster primer and finish with two coats Plascon Low sheen wall and/ or similar and equally approved all as per PRASA colour specification</u>				
7.3	Ceilings, cornice and Partitions-	m ²	176.00	R	-
	ON WOOD SURFACES				
	<u>Prepare surfaces and paint one coat 'Dulux 'Supergrip primer and one coat 'Dulux' Trade universal undercoat and two coats Dulux trade Pearl glo and / or similar and equally approved all as per PRASA colour specification</u>				
7.4	On doors-	m ²	10.00	R	-
7.5	On Timber Door frames, etc-	m ²	4.00	R	-
	<u>Prepare surfaces and paint one coat plascon professional plaster primer and finish with two coats Plascon Low sheen wall and / or similar and equally approved all as per PRASA colour specification</u>				
	-				
7.6	Bargeboards-	m	199.00	R	-

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	<u>Prepare surfaces and paint one coat 'Dulux ' primer for wood and one coat 'Dulux' Trade universal undercoat and two coats Dulux Trade Gloss enamel and / or similar and equally approved all as per PRASA colour specification</u>				
	-				
7.7	Open slatted timber seating-	m	50.00		R -
	<u>Carried to Summary</u>				R -
	-				
	<u>BILL NO.8</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>				
8.1	Clear float glass 4mm thick small panes exceeding 0.5m2 but not 1m2	m ²	6.00		R -
	<u>Carried to Summary</u>				R -
	<u>BILL NO.9</u>				
	-				
	<u>PLUMBING AND DRAINAGE</u>				
	<u>Taps and Flush Valves</u>				
	-				
9.1	15mm chrome plated deck mounted sink mixer with overarm swivel outlet and adjustable flanges (Code: NA-970), manufactured in accordance with SANS 226:2004 Type 1 (BS 5412).	No	1.00		R -

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	<u>Sanitary Fittings & Accessories</u>				
9.2	Automatic Soap/ Sanitiser Dispenser fixed to the walls	No	4.00		R -
	<u>Carried to Summary</u>				R -
	<u>PART B-TAR PLATFORM RE-SURFACING, FENCING & ELECTRICAL KIOSK BUILDING</u>				
	<u>BILL NO. 10</u>				
	<u>EXTERNAL WORKS</u>				
	Excavation				
10.1	Remove existing Platform Tar and Excavation to reduce levels under platform areas	m ³	20.00		R -
	Earth filling supplied by the contractor under roads, parking areas, paving				
10.2	Sub-base layer G5 type material stabilized with 3% cement to obtain a C4 material compacted to 95% Modified AASHTO density	m ³	20.00		R -
	Compaction of surfaces				

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10.3	Compaction of ground surface under roads and parking areas including, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m ²	20.00		R	-
	Tests					
10.4	Modified AASHTO Density" test to 93%	No	6.00		R	-
	ASPHALT					
	Tar Surfacing (Platform)					
10.5	Tar road Platform resurfacing and making good	m ²	20.00		R	-
10.6	Application of Bitumen emulsion spraying over aplatform surface.	M ²				
	Concrete pavers surfacing (Platform)					
10.7	Reinstate to match existing 500 x 500mm concrete pavers	m	9.00		R	-
	Road marking paint on Tar surfacing with non - reflective paint complete as per existing road marking signs layout					
10.8	100mm wide solid yellow line	m	960.00		R	-
	ELECTRICAL KIOSK					
10.9	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	Item	1.00		R	-

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	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.				
	FENCING				
	<u>Palisade fence</u>				
	Should consist of three horizontal cross members or rails which can be punched with a profiled slot which allows the vertical pales to be slid through the cross member. They can be bolted or welded to the horizontal cross members				
	The standard opening between palisades (pales) should be 100mm, with the standard distance between palisade (pales) canters				
	No claim for excavation, Backfilling and compacting will be entertained, Shall deemed to be included on the tendered rates.				
	<u>NEW FENCING</u>				
	-				
	<u>"Hot Dipped galvanised Palisade Fence" or similar and approved fencing:</u>				
	-				

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	Galvanised vandal proof Palisade Fencing 2100mm high comprising of 76x76x2mm square hollow section posts x 2700mm set 600mm deep in 300x300 concrete bases at 3000mm centres, with 40x40mm top and bottom beam frame bolted to post, 25x25mm vertical members spaced at 100mm centres with Tiger spikes welded to top beam.				
	-				
10.10	2100mm Galvanised steel fencing including posts complete, installed as per manufacturer's instructions	m	785.00		R -
	-				
	<u>Single pedestrian gate including lock mechanisms, etc complete</u>				
	-				
10.11	1200 x 1800mm High galvanised "Palisade Gate" or similar approved	No	1.00		R -
10.12	2000 x 1800mm High galvanised "Palisade Gate" or similar approved	No	1.00		R -
	<u>Carried to Summary</u>				R -
	Part - C Electrical supply and Electrical equipment to platforms, Building and shelters etc.				
	<u>BILL NO.11</u>				
	-				
	<u>ELECTRICAL WORK</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.				

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	All rubble shall be taken away from site on a daily basis.				
	<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.				
	-				
11.1	10mm ² SWA cable	m	50.00		R -
11.2	Trenching and Backfilling	m	100.00		R -
11.3	16mm ² SWA cable	m	60.00		R -
11.4	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		R -
11.5	Inside anti-vandal cages for shelters - Following these dimensions – Length= 340, Width= 340 and height= 220 and they must be deep galvanized.	Item	20.00		R -
11.6	LED Flood lights for station building outside	Item	3.00		R -
11.7	Re-wire shop on platform	Item	1.00		R -

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11.8	Platform Light fittings LED 4000Lm minimum	Item	7.00		R	-
11.9	Contactor	Item	2.00		R	-
11.10	Photocell	Item	2.00		R	-
11.11	Twin & Earth 2,5mm ²	m	100.00		R	-
11.12	Hydroboil 10l	Item	1.00		R	-
11.13	Pole Circuit breaker inspection covers	Item	3.00		R	-
11.14	5-foot LED tubes	Item	60.00		R	-
	HVAC Systems					
11.15	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		R	-
	Carried to Total				R	-
	<u>BILL NO.12</u>					
	<u>SIGNAGES</u>					
	<u>Digitally printed Prohibition Signs</u>					
12.1	800mm x 300mm ea Digitally printed Prohibition Signs Digitally Printed Graphics (Refer to Code sign LL of Prasa Signages Blue print)	No	2.00			
	<u>End of Platform Sign - New Pole Required</u>					

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12.2	300mm x 300mm 800mm x 300mm End of Platform Sign - on existing with Digitally Printed Graphics Mounted to New Pole at the End of the Platform (Refer to Code sign NN of Prasa Signages Blue print)	No	4.00		
	<u>Carried to Total-</u>				
	SUB TOTAL				R -
	10 % Contingency				R -
	SUB TOTAL				R -
	15 % VAT				R -
	TOTAL				R -