

ANNEXURE B
BILL OF QUANTITIES AND SPECIFICATIONS

Item No.	Description	Unit	Quantity	Rate	Amount
	<u>BILL No. 1</u>				
	<u>PRELIMINARY AND GENERAL</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	1. Tenderers are to refer to the Model Preambles for Trades (Latest Edition) and Supplementary Preambles for further description and amplification of work in this section.				
	2. The agreement is to be the General Conditions of Contract for Works of Civil Engineering Construction (2015) , published by the S. A. Institution Of Civil Engineering.				
	3. The Preliminaries are to be the Construction and management requirements for works contracts - Part 1: General engineering and construction works (SANS 1921-1: 2004 Edition 1) prepared by Standards South Africa and shall be deemed to be incorporated herein.				
	4. Tenderers are referred to the abovementioned documents for the full intent of the preliminaries thereof for which such allowance must be made as may be considered necessary.				
	5. Adjustment of the preliminaries: each item priced, is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time.				
	Carried forward				
	Bill No.1 Preliminaries and Generals				R

Brought forward 6. Time (T) related Preliminaries will only be adjusted for omissions or additions, issued by the Employer, or delays caused by the Employer, for which variation and extension of time has been granted. <u>The total price for Preliminaries and General shall be deemed to include a project specific documents and resources such as but not limited to:</u> Health and safety file Health and Safety Agent Personal protective clothing and equipment Insurances <u>Reference to be made on the sections as detailed in annexure B of the quotation document;</u> Section A: General Conditions of Contract Section B: SANS 1921-1:2004 (Edition 1): Construction and Management Requirements for Works Contracts: Part 1 Section C: Scope of Work in Accordance with SANS 10403 Section D: Specification Data Associated with Sans 1921-1:2004 (Table A.1) Section E: Specific Preliminaries Carried forward Bill No.1 Alterations and Generals		R	
		R	

Item No.	Description	Unit	Quantity	Rate	Amount
	<u>BILL No.2</u>				
	<u>ALTERATIONS</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Tenderers are to refer to the Model Preambles for Trades (Latest Edition) and Supplementary Preambles for further description and amplification of work in this section.				
	1. The Tenderer is advised to visit the site, inspect the existing premises and acquaint himself thoroughly with the nature of the himself thoroughly with the nature of the work specified.				
	2. All sizes and dimensions stated herein are approximate and deemed only sufficient to identify the item of work concerned.				
	3. No allowance for overbreak has been made to any of the adjoining structures, walls, finishes, etc., where removals or pockets occur (the nett opening size, etc., has been made good in later items of this bill where such making good has not been included with the item) and the Contractor must allow in his prices for making good any overbreak that may occur.				
	4. All new finishes are measured in the relevant trades for new work.				
	5. Provide all necessary propping, etc., required to ensure the safety and stability of the structure during the contract period and remove at completion.				
	6. Provide all necessary additional barricades, screens, overhead protections, etc., required to ensure the safety of persons, property, etc., and remove at completion.				
	Carried forward				
	Bill No.2				
	Alterations				

R

Brought forward 7. Allow for watering the works sufficiently to prevent nuisance from dust. 8. All alteration works described hereunder shall imply the use of an approved screed or plaster repairing compound and preparing existing surfaces to receive new. 9. All alteration work is within an existing facility. The contractor shall take utmost care to minimise damage to existing completed works in the vicinity of the alteration works. 11. Old material to be carted away: Old materials from the alterations, except where described to be re-used or handed over, as well as all rubbish, etc., must be regularly carted from the site and not be allowed to accumulate on or around the site. 12. Old material not to be re-used: None of the old materials are to be used for new work except where specifically described as being set aside for re-use. Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the Project Manager/Principal Agent Doors, fanlights, fittings, frames, linings, etc which are to be re- used shall be thoroughly overhauled before re-fixing, including taking off, easing and re-hanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-vanishing is given separately Carried forward Bill No.2 Alterations		R	
		R	

Brought forward			R	
Prices for taking out doors, windows, etc. shall include for removal of all beads, architraves, ironmongery, etc				
With regards to building up of openings in existing walls, cement screeds and paving, granolithic, tops of walls, etc. shall be levelled and prepared for raising of brickwork				
Making good finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary				
The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (Doors, windows, fittings, etc)				
<u>TEMPORARY BARRIERS, SCREENS, ETC</u>				
<u>Temporary barriers, screens, etc., including removal on completion</u>				
1	Allow to cover for all existing floors during construction	m ²	354	
<u>REMOVAL OF EXISTING WORK</u>				
<u>Remove old Sanitary Fittings, Items</u>				
2	Remove toilet pan and cistern	no.	12	
<u>Taking out doors, windows, etc.</u>				
3	Timber single door 813 x 2032mm high from door frame include preparing door frame to receive new door	no.	4	
Carried forward			R	
Bill No.2 Alterations				

Brought forward			R	
<u>Taking out doors, windows, etc. including thresholds, sills, etc. and setting aside for re-use (refixing and building up openings elsewhere)</u>				
4	Carefully disconnect existing mixer tap and 19400 x 550mm width laminate countertop	no.	1	
<u>Taking out and removing doors, windows, etc. including thresholds, sills, etc. and building up openings in brick walls including making good cement plaster on both sides (making good paintwork elsewhere).</u>				
5	Timber double door and timber door frame exceeding 2,5m ² and not exceeding 5,0m ² from half brick wall	no.	1	
6	Timber single door and frame not exceeding 2,5m ² from half brickwall	no.	1	
<u>Burglar Security Lock</u>				
7	Security lock from the steel burglar gate, including all associated fixings, making good any minor damage to the gate resulting from the removal, and leave the gate clean and ready for the installation of a new lock.	no.	2	
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
8	Gypsum plasterboard ceilings, including cornices	m ²	182	
9	Drywall partitioning 3000mm high including cable trunking , etc	m	2	
10	Fascia and barge boards	m	114	
Carried forward			R	
Bill No.2 Alterations				

Item No.	Description	Unit	Quantity	Rate	Amount
	<u>BILL NO. 3</u>				
	<u>WATERPROOFING</u>				
	<u>DAMPPROOFING OF WALLS</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Tenderers are to refer to the Model Preambles for Trades (Latest Edition) and Supplementary Preambles for further description and amplification of work in this section.				
	<u>Primer and two coats "Durabit" rubber bitumen emulsion waterproof coating on Corrugated and IBR Roof sheeting</u>				
	<u>On IBR, corrugated, etc. roof sheeting</u>				
	Supply all labour and material and seal all roofing screws, roof sheet joint overlaps and flashings against walls. Carefully remove all loose roofing screws and plug holes in rafters with wooden dowels dipped in wood glue and allow to dry. Refix in existing screw holes new 90mm long roofing screws with plastic and metal washer. Prop rivet the sides of the joints of all roof sheeting overlaps at every 600mm apart along the joints with a 4mm diameter pop rivet and rivet metal washer.				
	Carried forward				R
	Bill No.3				
	Waterproofing				

Item No.	Description	Unit	Quantity	Rate	Amount
	<u>BILL No. 5</u>				
	<u>CARPENTRY AND JOINERY</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Tenderers are to refer to the Model Preambles for Trades (Latest Edition) and Supplementary Preambles for further description and amplification of work in this section				
	<u>DOORS ETC</u>				
	<u>Semi-solid flush door with sapele veneer on both sides hung to steel or timber frames</u>				
1	Door 813 x 2032mm high	no.	2		
	<u>Swartland</u>				
2	44mm "Kayo 8" Panel door 813 x 2032mm high	no.	3		
	<u>Wrought Meranti doors hung to steel frames</u>				
3	44mm "Kayo 8" Panel rebated double door 1800 x 2032mm high	no.	1		
	<u>Timber Door Frames</u>				
4	813 x 2 032 mm rebated single hardwood (Meranti) timber door frame	no.	1		
5	1 800 x 2 100 mm rebated double (Meranti) timber door frame	no.	1		
	Carried forward				
	Bill No.5				
	Carpentry and Joinery				

Brought forward			R
<u>FITTINGS</u>			
<u>General</u>			
The following cupboards 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>Wood Kitchen Cupboards</u>			
<u>Kitchen cupboards etc with approved hinges, handles and drawer sliders</u>			
6	Sink cupboard (double bowl) Size; 1940 x 550 x 850mm high with sides, bottom, division, shelf, back and double hinged doors (sink elsewhere) Descriptions of fibre-cement fascias and barge boards shall be deemed to include for mitres, end junctions, screws, bolts, wall anchors, holes, etc.	no.	1
<u>Everite high density plain Pressed Nutec-cement</u>			
7	225 x 12mm thick pressed fibre cement fascia boards, butt jointed in between barge boards and securely fixed to bottom purlin and to ends of rafters	m	114
Carried forward			R
Bill No.5 Carpentry and Joinery			

Item No.	Description	Unit	Quantity	Rate	Amount
	<u>BILL NO. 6</u>				
	<u>CEILING, PARTITIONS AND ACCESS FLOORING</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Tenderers are to refer to the Model Preambles for Trades (Latest Edition) and Supplementary Preambles for further description and amplification of work in this section				
	<u>Nailed-up ceilings</u>				
	<u>6.4mm "Rhino" gypsum plasterboard with H - Metal Cover strips</u>				
1	Ceilings including 38 x 50mm sawn softwood brander at 400mm centres	m ²	182		
2	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening on 20 x 20mm pressed steel angle	no.	3		
	<u>"Rhino" gypsum plasterboard cornice</u>				
3	75mm standard coved cornice	m	14		
	Carried forward			R	
	Bill No.6				
	Ceiling, Partitions And Flooring				

Brought forward		R
<u>Rhino-Drywall partition systems</u>		
<u>BPB Gypsum GypRoc Standard - 40 db (½ hour fire rating) Ultrasteel Stud Drywall consisting of stud and track system with 51mm Drywall Ultrasteel studs positioned at 600mm centres fixed into 51mm wide top and bottom track clad on both sides with 12,5mm thick taper edged Rhinoboard fixed with 25mm Drywall screws at 220mm centres and all corners fixed with Drywall Corner beads and all joints to be taped and jointed as per manufacture's specifications.</u>	m	2
Total carried to summary page Bill No.6 Ceiling, Partitions And Flooring		
		R

Bill No.6
Ceiling, Partitions And Flooring

Item No.	Description	Unit	Quantity	Rate	Amount
	<u>BILL No. 7</u>				
	<u>IRONMONGERY</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Tenderers are to refer to the Model Preambles for Trades (Latest Edition) and Supplementary Preambles for further description and amplification of work in this section				
	<u>Hinges, bolts, etc.</u>				
	<u>Union or equal and approved fixed to timber</u>				
1	100mm steel hinge	no.	12		
	<u>Locks</u>				
2	Three lever lockset (2 Keys) with striking plate fixed to metal and rectangular handles	no.	15		
3	ULTRA Large Single Pin Security Lock or equal and approved, fixed to existing steel burglar gate, complete with lock body, cylinder, two keys, strike plate and all necessary fixings.	no.	2		
4	51mm heavy-duty weatherproof padlock	no.	2		
	<u>CATCHES, CABIN HOOKS, ETC</u>				
5	Brass window handle	no.	1		
	Total carried to summary page				R
	Bill No.7				
	Ironmongery				

Brought forward			R
<u>Gates</u>			
4	Double-leaf galvanised mild steel tubular swing gate, 3000mm wide × 1800mm high, with diamond mesh infill, heavy-duty hinges, drop bolts, centre latch, and padlock arrangement.	no.	1
<u>Carport knitted Shade Net</u>			
5	6 000 × 6 000 mm HDPE (High-Density Polyethylene) knitted Royal Blue shade sail, 95% UV block, 240 GSM commercial grade, UV-stabilised, complete with reinforced edges, 316 stainless steel corner rings, stainless steel fixing accessories, tensioning hardware and all necessary fittings, with a minimum 8-year manufacturer's warranty.	no.	5
Total carried to summary page			R
Bill No.8			
Metalwork			

Item No.	Description	Unit	Quantity	Rate	Amount
	<u>BILL No. 9</u>				
	<u>PLASTERING</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Tenderers are to refer to the Model Preambles for Trades (Latest Edition) and Supplementary Preambles for further description and amplification of work in this section				
	<u>SCREEDS</u>				
	<u>Cement screeds wood/steel floated on concrete</u>				
1	25mm thick on floors and ramps	m ²	14		
	<u>INTERNAL AND EXTERNAL PLASTER</u>				
	<u>Repairing cracks in cement and sand plaster exceeding 1mm wide by hacking up/off and removing plaster 150mm wide on both sides of crack, preparing existing masonry surface, securely fixing galvanised chicken mesh to the substrate, and applying new cement and sand plaster, finished flush with the surrounding surface to match the existing finish.</u>				
2	On walls (vertical surfaces and horizontal surfaces)	m	128		
	Carried forward				
	Bill No.9 Plastering				R

Item No.	Description	Unit	Quantity	Rate	Amount
	<u>BILL No. 11</u>				
	<u>PAINTWORK</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Tenderers are to refer to the Model Preambles for Trades (Latest Edition) and Supplementary Preambles for further description and amplification of work in this section				
	<u>PAINTWORK, ETC. TO PREVIOUSLY PAINTED WORK</u>				
	<u>PREPARATORY WORK TO EXISTING WORK</u>				
	1. Paintwork to existing work shall be deemed to include preparing existing surfaces				
	<u>Previously painted plastered surfaces</u>				
	2. 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				
	Description of paintwork shall be deemed to include for allcutting in				
	<u>Previously painted metal surfaces</u>				
	Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed down to bare metal				
	<u>Previously painted wood surfaces</u>				
	Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth				
	Carried forward			R	
	Bill No.11				
	Paintwork				

Brought forward			R	
<u>Paint Specifications</u>				
<u>All painting shall be carried out in strict accordance with "Plascon" or equally approved specifications</u>				
<u>ON FLOATED PLASTER</u>				
<u>One coat plaster primer and two coats PVA paint</u>				
1	On internal walls including narrow widths not exceeding 300mm	m ²	1274	
2	On external walls including sills,etc	m ²	408	
<u>Supply and apply one coat of plaster primer and finish with two coats of low-sheen pure acrylic paint to plastered ceiling surfaces, including all necessary surface preparation, complete in accordance with the manufacturer's specifications.</u>				
3	On ceilings	m ²	641	
<u>One coat one coat of drywall primer/sealer and two coats superior acrylic PVA emulsion paint on new drywall partition</u>				
	On drywall partitions	m ²	6	
<u>ON FIBRE-CEMENT</u>				
<u>Two coats extremely durable UV-resistant, washable pure acrylic emulsion sheen paint</u>				
4	On fascias and barge boards	m ²	26	
<u>ON METAL</u>				
5	On steel door frames.	m ²	7	
Carried forward			R	
Bill No.11 Paintwork				

Item No.	Description	Unit	Quantity	Rate	Amount
	<u>BILL No. 12</u>				
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Tenderers are to refer to the Model Preambles for Trades (Latest Edition) and Supplementary Preambles for further description and amplification of work in this section				
	<u>Description</u>				
	Where "Replace" or "Replacing" appears in this document it shall be deemed to include taking up/out and carting away from site				
	<u>uPVC pipes and fittings</u>				
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings				
	uPVC pressure pipes and fittings				
	Pipes for water supply shall be of the class stated				
	Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC , all with similar push-in type joints				
	<u>Copper pipes</u>				
	Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard) class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fitting to copper waste, vent and anti-syphon pipes,				
	Carried forward				
	Bill No.12				
	Plumbing and drainage				
				R	-

Brought forward			R	-
<u>WASTE AND VENT PIPES STACKING - Freeflo</u>				
<u>Carefully take out and remove the damaged section of uPVC waste pipe and/or fittings, and replace with new uPVC waste pipe and fittings, including elbow joints, inspection eye fittings, and all necessary couplings, fixings, and accessories, complete and leave in good working order.</u>				
1	50mm Ø pipe	m	1	
<u>New Class 1 Hardrawn Copper pipes for Hot And Cold Water reticulations .</u>				
Locate, isolate affected area and replace damage to SABS 460 Class 1 hard drawn Copper piping and / or fittings including holderbats, pipe clips, etc. as necessary and leave in good working order.				
2	15mm Ø Pipes	m	1	
<u>Vitreous China Sanitaryware - "Vaal" or equally approved</u>				
3	Vitreous china WC suite with P-trap	no.	12	
<u>REPLACE DAMAGED TAPS, VALVES, ETC.</u>				
<u>Carefully take out and remove damaged item, replace with new including handle styles to match existing, washers, flanges, capnuts, couplers, etc. and making good existing finishers as necessary.</u>				
Carried forward			R	
Bill No.12 Plumbing and drainage				
Brought forward			R	

28/ Bill No.12

SCOPE OF WORK: REPAIRS AND MAINTENANCE OF BUILDINGS AT AGRI-PARKS IN GAUTENG PROVINCE:

PROJECT SPECIFICATIONS

The Brief Project specification should be used as a guide to the works.

All building repair and maintenance work shall be carried out in accordance with the National Building Regulations and Building Standards, the National Building Regulations, and SANS 10400: The Application of the National Building Regulations, where applicable.

All materials, components, and fittings incorporated into the Works shall comply with the applicable South African National Standards (SANS). Where certification is required, materials and products shall bear the SABS certification mark or other recognised proof of compliance with the applicable SANS standard.

Background/Deliberation: This is a supply, delivery, and installation invite. Specifications and quantity schedule must be read together as the project is required to be functionally installed. Contractor must acquaint with site conditions and availability of electricity and water - or no availability as this will be the responsibility of contractor to provide for during the installation period.

Eikenhof Agri-park

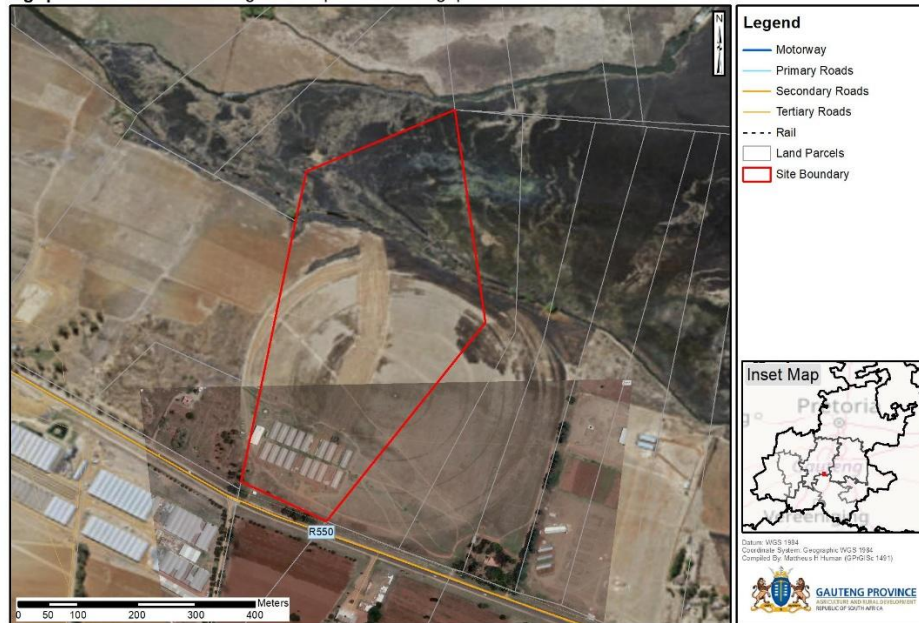
1. Location:

Eikenhof Agripark	-26.33860	28.01160	City of Johannesburg
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Existing Site Overview:

The site comprises two buildings: the Main Administration Office and the Guard House

Agriparks Maintenance: Regional Map - Eikenhof Agripark



2. Description of Work

ITEM NO.	AREAS OF WORK	TECHNICAL SPECIFICATION / SCOPE OF WORK
		TRADE: ALTERATIONS
1.	Admin Office and Guard House	<u>TEMPORARY BARRIERS, SCREENS, ETC</u> Protect all existing floors and floor finishes in areas affected by the Works with approved heavy-duty protective coverings. Maintain the protection in good condition throughout the Contract Period, replacing any damaged sections as necessary. On completion, remove all protective coverings, clean the floors, and make good any damage caused during the Works at the Contractor's expense.
		<u>REMOVAL OF EXISTING WORK</u>
2.	Office Toilet and Ablutions Block	<u>Remove old Sanitary Fittings, Items</u> Carefully remove the existing toilet pan and cistern, including all associated fittings, connections and fixings, without damaging adjacent finishes. Eikenhof Agri-park (Office Toilet and Ablutions Block) - 6 toilet suites

3.	Office Toilet and Ablutions Block	<u>Taking out, doors, windows, etc. including thresholds, sills, etc.</u> Remove existing timber single door (813 × 2032 mm high) from door frame. Prepare existing frame to receive new door, including adjustment and necessary alignment to ensure proper operation. Eikenhof Agri-park (Office Toilet and Ablutions Block) - 3 door
4.	Kitchen	<u>Taking out sink cupboard, mixer tap, countertop etc. and setting aside for re-use (refixing and building up openings elsewhere)</u> Carefully disconnect the existing mixer tap and plumbing fittings and unseal and detach the existing sink. Carefully remove and store the laminate countertop (approximately 1940 mm × 550 mm) and sink safely on site for reuse. Dismantle and remove the damaged sink cupboard base unit beneath (approximately 1940 × 550 × 850 mm high) and set it aside for disposal under the main site clearance item. Eikenhof Agri-park (Kitchen) - Floor cupboard - x1
5.	Office Entrance Door	Carefully take out and remove the existing timber double door including timber door frame, exceeding 2.5 m² but not exceeding 5.0 m², from a one-brick wall. Make good the wall and apply cement plaster to both sides to match the existing finish. Eikenhof Agri-park (Office Entrance Door) - 1 door
6.	Storage, Male Toilets and Ablution Block	Carefully remove the existing damaged gypsum plasterboard ceilings, including cornices. Eikenhof Agri-park (Storage, Male Toilets and Ablution Block) - 182 m²
7.	Admin Office and Guard House	Carefully remove the existing damaged gypsum fascia and barge boards. Eikenhof Agri-park (Admin Office and Guard House) - 114m
8.	Office Guard House Entrance	<u>Hacking up/off and removing ceramic tile floor and wall finishers including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishers</u> Carefully hack up and remove existing ceramic floor tiles, including the skirting, mortar bed, adhesive, grout and all associated bedding materials. Prepare the existing concrete surface by removing all loose

		material and residual adhesive to provide a clean, sound surface suitable for the application of new screed or floor tile finishes. Remove all debris from site and leave the work area clean. Eikenhof Agri-park (Office Guard House Entrance) - 4m²
		TRADE: CARPENTRY AND JOINERY
1.	Office Toilet	<u>Doors etc</u> Supply and install semi-solid flush door with sapele veneer on both sides hung to steel or timber frames. Eikenhof Agri-park (Office Toilet) - 1 door
2.	Ablutions Block	Supply and install a Swartland 44mm "Kayo 8" panel door, size 813 × 2032mm high, or approved equivalent, hung and fitted to the existing door frame, including all necessary trimming, easing, adjustments and fixings, complete. Eikenhof Agri-park (Ablutions Block) - 2 doors
3.	Main Entrance	Supply and install a 1 800 × 2 100 mm rebated double hardwood timber door frame manufactured from Meranti or approved equivalent, suitable for a one-brick wall and a 44 mm thick double timber door, preparation for the lock strike plate, all necessary fixings, fitting and making good, installed plumb, level and square in accordance with the manufacturer's instructions. Eikenhof Agri-park (Main Entrance) -1 Double timber door
4.	Kitchen	<u>Wood Kitchen Cupboards</u> Supply and install 16mm medium density fiberboard (MDF) supagloss sink cupboard (double bowl) Size: 1940 long x 550 width x 850mm high with sides, bottom, division, shelf, back and double hinged doors, complete with approved hinges, handles, and drawer sliders (sink and countertop elsewhere). Eikenhof Agri-park (Kitchen) -1 door
5.	Admin Office and Guard House	<u>Everite high density plain Pressed Nutec-cement</u> Supply and install 225 × 12mm thick Everite High Density Plain pressed Nutec fibre-cement fascia boards, butt jointed between barge boards and securely fixed to the bottom purlin and ends of rafters with corrosion-resistant screws or nails in accordance with the manufacturer's recommendations.

		Include all jointing strips, fixings, cutting, drilling, sealing, making good and all necessary accessories, complete in accordance with the manufacturer's specifications. Eikenhof Agri-park (Admin Office and Guard House) - 114m
		TRADE: CEILING
1.	Storage, Ablution Block and Male Toilets	<u>Nailed-up ceilings</u> Supply and install 6.4mm "Rhino" gypsum plasterboard ceiling with H-section metal cover strips in accordance with the manufacturer's specification. Eikenhof Agri-park (Storage, Ablution Block and Male Toilets) - 182 m²
2.	Storage, Ablution block (Male toilets) and Guard house	<u>Ceiling trap doors</u> Supply and install extra over ceiling for 600 x 600mm trap door comprising 38 x 50mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross bracing, covered with ceiling board and fitted flush in opening on 20 x 20mm pressed steel. Eikenhof Agri-park (Storage, Ablution block (Male toilets) and Guard house - x3
3.	Storage, Ablution block (Male toilets and Guard house)	<u>"Rhino" gypsum plasterboard cornice</u> Supply and install 75 mm standard coved gypsum plasterboard cornice in accordance with the manufacturer's specifications. Eikenhof Agri-park (Storage, Ablution block (Male toilets and Guard house) - 14m
		TRADE: IRONMONGERY
1.	Office Toilet	<u>Hinges, bolts, etc.</u> Supply and install 100 mm pressed steel butt hinges, "Union" or other equal and approved, complete with matching screws, fixed to timber door and steel door frame (3 No. per door). Eikenhof Agri-park (Office Toilet) -9 steel butt hinges
2.	Office Toilet and Ablutions Block Passage	<u>Locks</u> Supply and install three-lever mortice lockset, "Union" or equal and approved, complete with two keys and striking plate, fixed to metal frame.

		Eikenhof Agri-park (Office Toilet and Ablutions Block Passage) - 3 lockset.
		TRADE: PLASTERING
1.	Office & Guard House entrances and Ramp	<u>Screeds</u> <u>On concrete floor</u> Prepare the existing concrete floor surface by cleaning and applying an approved bonding agent. Supply and lay a 25 mm thick cement and sand screed, finished with a smooth steel-trowel finish suitable to receive the specified final floor finish, including all necessary materials, mixing, placing, levelling, curing, and making good on completion. <u>On ramps</u> Prepare the existing concrete ramp surface by cleaning and applying an approved polymer bonding agent. Supply and lay a minimum 25 mm thick polymer-modified cement and sand screed, finished with a wood-float or broom finish to provide a non-slip surface, including all necessary materials, mixing, placing, levelling, curing, and making good on completion. Eikenhof Agri-park (Office & Guard House entrances and Ramp) - 8m² concrete floor and ramps
2.	Internal & External	Repair cracks in existing cement and sand plaster exceeding 1 mm in width by carefully hacking off and removing the plaster for a width of 150 mm on each side of the crack. Prepare the existing masonry substrate by cleaning and removing all loose material, securely fix galvanised chicken mesh to the substrate with suitable masonry fixings, and apply new cement and sand plaster to match the existing thickness. Finish the repaired area flush with the surrounding surface to match the existing texture and finish, including curing and making good on completion. On walls (vertical surfaces and horizontal surfaces). Eikenhof Agri-park (Internal & External) -18m
		TRADE: TILING
3.	Office and Guard House Entrances	<u>Floor Tiling</u> Supply and install 440 × 440 × 6 mm thick ceramic floor tiles on floor surfaces, fixed with an approved tile adhesive and pointed with cloud grey tinted waterproof grout, including all necessary cutting and fitting, and leaving the finished surface clean, true, level and in accordance with the manufacturer's instructions.

		Eikenhof Agri-park (Office and Guard House Entrances) - 4m ²
		TRADE: PAINTWORK
1.	Admin Office and Guard House	<u>Paintwork, etc. to Previously Painted Work</u> <u>On Floated Plaster</u> <u>On internal walls including narrow widths not exceeding 300mm</u> Supply and apply one coat of plaster primer and two coats of superior acrylic PVA emulsion paint to internal plastered wall surfaces, including all necessary surface preparation, complete in accordance with the manufacturer's specifications. Eikenhof Agri-park (Admin Office and Guard House) - 661m²
2.	Admin Office and Guard House	<u>On external walls including sills,etc</u> Supply and apply one coat of exterior-grade plaster primer and two coats of superior exterior acrylic PVA emulsion paint to external plastered wall surfaces, including all necessary surface preparation, complete in accordance with the manufacturer's specifications. Eikenhof Agri-park (Admin Office and Guard House) - 408m²
3.	Admin Office and Guard House	<u>On ceilings</u> Supply and apply one coat of plaster primer and finish with two coats of low-sheen pure acrylic paint to plastered ceiling surfaces, including all necessary surface preparation, complete in accordance with the manufacturer's specifications. Eikenhof Agri-park (Admin Office and Guard House) - 352m²
4.	Admin Office and Guard House	<u>On fascias and barge boards</u> Supply and apply one coat of appropriate primer and two coats of extremely durable, UV-resistant, washable pure acrylic emulsion sheen paint to new fascias and barge boards, including all necessary surface preparation, complete in accordance with the manufacturer's specifications. Eikenhof Agri-park (Admin Office and Guard House) - 26m²

5.		<u>On Metal Surfaces</u> Supply and apply one coat of water-based galvanised steel primer, one coat of alkyd-based universal undercoat and two coats of superior quality universal enamel paint to galvanised steel surfaces, including cleaning, degreasing, removing all contaminants, and carrying out all necessary surface preparation, complete in accordance with the manufacturer's specifications. On steel door frames (all sides). Eikenhof Agri-park - 5m²
6.		<u>On Wood Surfaces</u> Supply and apply one coat of wood primer, one coat of universal undercoat and two coats of "Plascon" Velvagro or other approved equivalent high gloss enamel paint to both sides of timber doors, including rubbing down, stopping nail holes and minor surface imperfections, sanding smooth, and carrying out all necessary surface preparation, complete in accordance with the manufacturer's specifications. Eikenhof Agri-park (Admin Office)- 31m²
7.	Admin office, Ablutions Block and Guard House	Supply and apply three coats of clear polyurethane suede varnish to timber door surfaces, including rubbing down between coats, sanding smooth, and carrying out all necessary surface preparation, complete in accordance with the manufacturer's specifications. Eikenhof Agri-park (Admin office, Ablutions Block and Guard House)- 25m²
		TRADE: PLUMBING & DRAINAGE
8.		<u>WC suite</u> Supply and install white vitreous China WC suite with P-trap, complete with cistern, toilet seat and cover, flush mechanism, fixing bolts, pan connector, and all necessary fittings. Eikehof Agri-park (Ablution block and Office toilet) - 6 toilet suites

9.		<u>Nose pillar taps</u> Supply and install a 15 mm raised nose pillar tap, Model 3314SB, to the existing handwash basin, complete with braided flexible connection pipe, fixing set, all necessary fittings and accessories, testing, commissioning, and leaving the installation in good working order. Eikenhof Agri-park (Female & Male Ablutions) - 8 taps
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RAND WEST AGRIPARK

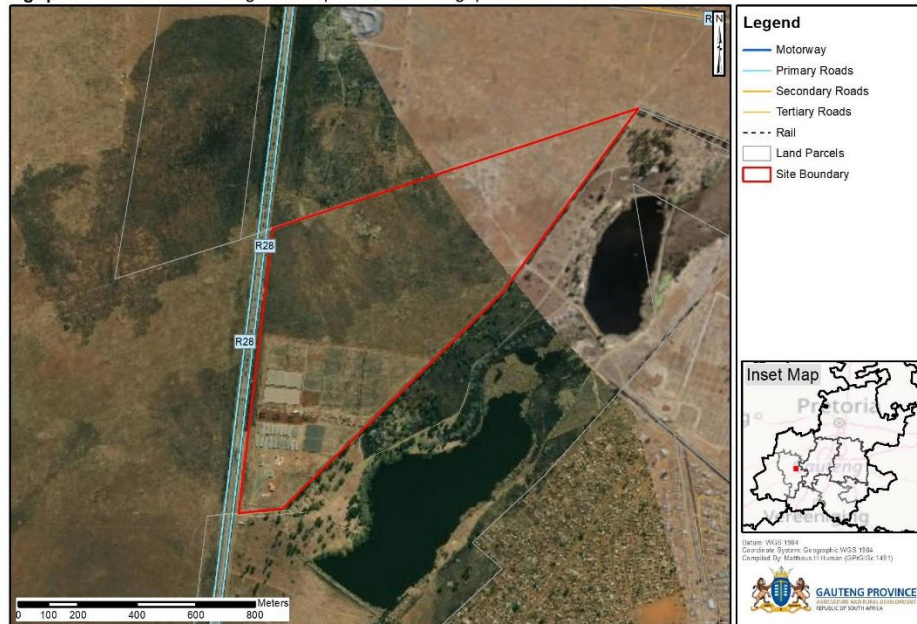
1. Location:

Rand West Agripark	-26.27902	27.68119	Rand West City LM
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2. Existing Site Overview:

The site comprises two buildings: the Main Administration Office and the Guard House.

Agriparks Maintenance: Regional Map - Rand West Agripark



3. Description of Work

ITEM NO.	AREAS OF WORK	TECHNICAL SPECIFICATION / SCOPE OF WORK
		TRADE: ALTERATIONS
1.	Admin Office and Guard House	<u>Temporary Barriers, Screens, etc</u>

		Protect all existing floors and floor finishes in areas affected by the Works with approved heavy-duty protective coverings. Maintain the protection in good condition throughout the Contract Period, replacing any damaged sections as necessary. On completion, remove all protective coverings, clean the floors, and make good any damage caused during the Works at the Contractor's expense.
		<u>REMOVAL OF EXISTING WORK</u>
2.	Male & Female toilets	<u>Remove old Sanitary Fittings, Items</u> Carefully remove the existing toilet pan and cistern, including all associated fittings, connections and fixings, without damaging adjacent finishes. Rand west Agri-park (Male & Female toilets) - 4 toilet
3.	Ablutions	<u>Taking out, doors, windows, etc. including thresholds, sills, etc.</u> Remove existing timber single door (813 × 2032 mm high) from door frame. Prepare existing frame to receive new door, including adjustment and necessary alignment to ensure proper operation. Rand west Agri-park (Ablutions) - 1 door
4.		Carefully take out and remove the existing timber single door including timber door frame, not exceeding 2.5 m² from a half-brick wall. Make good the wall and apply cement plaster to both sides to match the existing finish. Rand west Agri-park (Kitchen) -1 door
5.	Training room	Carefully dismantle and remove existing drywall partition, 2000mm wide x 3000 mm high, including cable trunking. Rand west Agri-park (Training room) - 2m
6.	Boardroom	<u>Hacking up/off and removing ceramic tile floor and wall finishers including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishers</u> Carefully hack up and remove existing ceramic floor tiles, including the skirting, mortar bed, adhesive, grout and all associated bedding materials. Prepare the existing concrete surface by removing all loose material and residual adhesive to provide a clean, sound surface suitable for the application of new

		screed or floor tile finishes. Remove all debris from site and leave the work area clean. Rand West Agri-park (Boardroom) -79m²
		TRADE: ROOF COVERINGS
1.	Admin Office	<u>Slates, Tiles and Shingles</u> Supply and install new terracotta roof tiles to match the existing roof tiles in profile, size, colour and finish, including all necessary cutting, fitting and fixing, complete. Rand west Agri-park (Admin Office) - 1m²
		TRADE: CARPENTRY AND JOINERY
1.	Kitchen	<u>Doors etc</u> Supply and install semi-solid flush door with sapele veneer on both sides hung to steel or timber frames. Rand West Agri-park (Kitchen) - 1 door
2.	Guard House	Supply and install a Swartland 44mm "Kayo 8" panel door, size 813 × 2032mm high, or approved equivalent, hung and fitted to the existing door frame, including all necessary trimming, easing, adjustments and fixings, complete Rand west Agri-park (Guard House) - 1 door
3.	Kitchen	<u>Timber door frames</u> Supply and install an 813 × 2 032 mm rebated single hardwood timber door frame manufactured from Meranti or approved equivalent, suitable for a half-brick wall and a 44 mm thick single timber door, preparation for the lock strike plate, all necessary fixings, fitting and making good, installed plumb, level and square in accordance with the manufacturer's instructions. Rand west Agri-park (Kitchen) -1 Single timber door
		TRADE: CEILING
1.	Admin Office	<u>Roofs, etc</u> Carefully remove the existing damaged 38 × 38 mm brandering. Supply and install new 38 × 38 mm sawn softwood Grade 4 brandering, securely fixed to the existing roof structure to support the soffit boards, including all necessary cutting, fitting, galvanised nails, screws, fixings and making good, complete. Rand west Agri-park (Admin Office) - 2m

2.	Training room	<u>Rhino-Drywall partition systems</u> Supply and install 3 000 mm high BPB Gypsum GypRoc Standard 40 dB (½-hour fire-rated) Ultra steel drywall partition, comprising a 51 mm galvanised steel stud and track system with studs at 600 mm centres, clad both sides with 12.5 mm taper-edged Rhino board fixed with 25 mm drywall screws at 220 mm centres. Include corner beads, taped and jointed board joints, all necessary fixings, trims, sealants, cutting, fitting and making good. Securely fix the bottom track to the floor and the top track to the suspended ceiling tees. Complete in accordance with the manufacturer's recommendations and the relevant SANS standards. Rand west Agri-park (Training room) - 2m
		TRADE: IRONMONGERY
1.	Guard House	<u>Hinges, bolts, etc.</u> Supply and install 100 mm pressed steel butt hinges, "Union" or other equal and approved, complete with matching screws, fixed to timber door and steel door frame (3 No. per door). Rand West Agri-park (Guard House) - 3 steel butt hinges
2.	Guard House, Kitchen, Female & Male toilets, Board room	<u>Locks</u> Supply and install three-lever mortice lockset, "Union" or equal and approved, complete with two keys and striking plate, fixed to metal frame. Rand West Agri-park - (Guard House, Kitchen, Female & Male toilets, Board room) - 8
		TRADE: METALWORK
3.	Training Room	<u>Galvanised Manual Push-up Roller Shutter</u> Carefully remove the existing galvanised manual push-up roller shutter, including guides, brackets and associated components, and dispose of the redundant shutter off site. Supply and install a new galvanised manual push-up roller shutter for a 2 440 × 2 000 mm high opening, manufactured from 76 mm galvanised interlocking steel slats, complete with guide channels, barrel, counterbalance spring, bottom rail, locking mechanism, brackets and all necessary fixings. Install plumb, level and secure to brickwork or concrete, adjust for smooth operation, and test in accordance with the manufacturer's recommendations.

		Rand West Agri-park (Training Room) -1 galvanised manual push-up roller shutter
		TRADE: PLASTERING
1.	Guard House	<u>Screeds</u> <u>On concrete floor</u> Prepare the existing concrete floor surface by cleaning and applying an approved bonding agent. Supply and lay a 25 mm thick cement and sand screed, finished with a smooth steel-trowel finish suitable to receive the specified final floor finish, including all necessary materials, mixing, placing, levelling, curing, and making good on completion. <u>On ramps</u> Prepare the existing concrete ramp surface by cleaning and applying an approved polymer bonding agent. Supply and lay a minimum 25 mm thick polymer-modified cement and sand screed, finished with a wood-float or broom finish to provide a non-slip surface, including all necessary materials, mixing, placing, levelling, curing, and making good on completion. Rand West Agri-park (Guard House) - 6m² concrete
2.	Internal Walls	Repair cracks in existing cement and sand plaster exceeding 1 mm in width by carefully hacking off and removing the plaster for a width of 150 mm on each side of the crack. Prepare the existing masonry substrate by cleaning and removing all loose material, securely fix galvanised chicken mesh to the substrate with suitable masonry fixings, and apply new cement and sand plaster to match the existing thickness. Finish the repaired area flush with the surrounding surface to match the existing texture and finish, including curing and making good on completion. On walls (vertical surfaces and horizontal surfaces). Rand West Agri-park (Internal Walls) -110m
3.	Admin office	<u>Repair of external structural cracks (Approximately 2 metres long)</u> Protect the work area and implement all necessary safety measures before commencing demolition works. Carefully remove and set aside the existing burglar bar door and any other materials or fixtures that may

		obstruct the removal of brickwork, to allow for reinstatement upon completion. Ensure the work area is adequately secured and structurally safe throughout the execution of the works. Carefully remove the affected brickwork by breaking out the mortar joints using hand tools, including a hammer and chisel, to minimise damage to the existing bricks intended for re-use. Remove all loose and deteriorated mortar from the salvaged bricks, including stubborn mortar deposits, using a mill file or other hand tools, ensuring the bricks are cleaned and suitable for reinstatement. Provide and install additional structural support along the opening by means of a steel equal-leg angle section 200 x 200 x 16 mm at the required level to support the existing masonry and accommodate the reinstated brickwork and mortar. All steelworks shall be installed, levelled, and securely fixed in accordance with the requirements for brick replacement. Prepare and apply replacement mortar to match the existing mortar in colour, texture, and strength, using an approved mix consisting of restoration sand, Portland cement, and lime. Rebuild and make good all disturbed areas to match the existing adjacent finishes, ensuring a neat and structurally sound final appearance. Rand West Agri-park (Admin office) -Item description
		TRADE: TILING
1.	Boardroom	<u>Floor Tiling</u> Supply and install 440 × 440 × 6 mm thick ceramic floor tiles on floor surfaces, fixed with an approved tile adhesive and pointed with cloud grey tinted waterproof grout, including all necessary cutting and fitting, and leaving the finished surface clean, true, level and in accordance with the manufacturer's instructions. Rand west Agri-park (Boardroom) - 78m²

2.	Boardroom	<u>Skirtings</u> Supply and install 100 mm high skirtings of stretcher course ceramic tiles, fixed with an approved tile adhesive and pointed with cloud grey tinted waterproof grout, including all necessary cutting, mitring, fitting at internal and external corners, and leaving the finished surface clean, true, level and in accordance with the manufacturer's instructions. Rand west Agri-park (Boardroom) - 40m
		TRADE: PAINTWORK
1.	Admin Office and Guard House	<u>Paintwork, etc. to Previously Painted Work</u> <u>On Foated Plaster</u> <u>On Internal Walls Including Narrow Widths not Exceeding 300mm</u> Supply and apply one coat of plaster primer and two coats of superior acrylic PVA emulsion paint to internal plastered wall surfaces, including all necessary surface preparation, complete in accordance with the manufacturer's specifications. Rand west Agri-park (Admin Office and Guard House) - 613m²
2.	Admin Office and Guard House	<u>On ceilings</u> Supply and apply one coat of plaster primer and finish with two coats of low-sheen pure acrylic paint to plastered ceiling surfaces, including all necessary surface preparation, complete in accordance with the manufacturer's specifications. Rand west Agri-park (Admin Office and Guard House) - 289m²
3.	Training room	<u>On drywall partitions</u> Supply and apply one coat of drywall primer/sealer and two coats of superior acrylic PVA emulsion paint to new drywall partition surfaces, including preparing the surfaces by ensuring all joints are taped and filled, screw heads are stopped, surfaces are sanded smooth, and all necessary surface preparation is carried out, complete in accordance with the manufacturer's specifications. Rand west Agri-park (Training room) - 6m²

4.	Guard House	<u>On Metal Surfaces</u> Supply and apply one coat of water-based galvanised steel primer, one coat of alkyd-based universal undercoat and two coats of superior quality universal enamel paint to galvanised steel surfaces, including cleaning, degreasing, removing all contaminants, and carrying out all necessary surface preparation, complete in accordance with the manufacturer's specifications. On steel window frames with burglar bars (both sides). On steel window frames with burglar bars. Rand west Agri-park (Guard House) - 2m²
5.	Admin Office and Guard House	<u>On Wood Surfaces</u> Supply and apply one coat of wood primer, one coat of universal undercoat and two coats of "Plascon" Velvagro or other approved equivalent high gloss enamel paint to both sides of timber doors, including rubbing down, stopping nail holes and minor surface imperfections, sanding smooth, and carrying out all necessary surface preparation, complete in accordance with the manufacturer's specifications. Rand west Agri-park (Admin Office and Guard House)- 48m²
6.	Admin Office and Guard House	Supply and apply three coats of clear polyurethane suede varnish to timber door surfaces, including rubbing down between coats, sanding smooth, and carrying out all necessary surface preparation, complete in accordance with the manufacturer's specifications. <u>On timber doors (both sides).</u> Rand west Agri-park (Admin Office and Guard House) - 10m²
		TRADE: PLUMBING & DRAINAGE
1.	Male & Female toilets	<u>WC suite</u> Supply and install white vitreous China WC suite with P-trap, complete with cistern, toilet seat and cover, flush mechanism, fixing bolts, pan connector, and all necessary fittings.

		Rand west Agri-park (Male & Female toilets) - 4 toilet suites
2.	Male & Female Toilets	<u>Basin mixer pillar tap</u> Supply and install a basin mixer pillar tap with aerator (Code: 3392SB) or other equal and approved, installed to the existing handwash basin, complete with flexible connection pipes (flexi pipes), fixing kit, all necessary fittings and accessories, connected to the existing water supply, tested for leaks, commissioned, and left in proper working order. Rand west Agri-park (Male & Female Toilets) - 4 mixer pillar taps

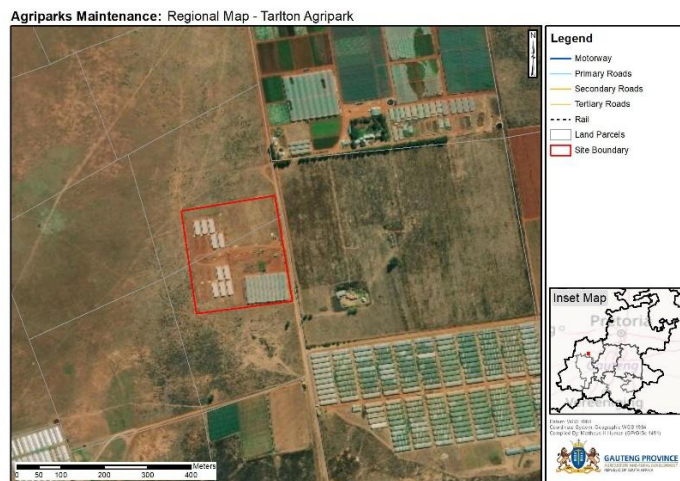
TARLTON AGRIPARK

1. Location:

Tarltan Agripark	-26.05739	27.66854	Mogale City LM
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2. Existing Site Overview:

The site comprises three buildings: the Boardroom, the Office, and the Ablutions.



3. Description of Work

ITEM NO.	AREAS OF WORK	TECHNICAL SPECIFICATION / SCOPE OF WORK
		TRADE: ALTERATIONS
1.	Boardroom, Office, Ablution	<u>Temporary Barriers, Screens, etc</u> Protect all existing floors and floor finishes in areas affected by the Works with approved heavy-duty protective coverings. Maintain the protection in good condition throughout the Contract Period, replacing any damaged sections as necessary. On completion, remove all protective coverings, clean the floors, and make good any damage caused during the Works at the Contractor's expense.
		<u>Removal of Existing Work</u>
2.	Female & Male toilets	<u>Remove old Sanitary Fittings, Items</u> Carefully remove the existing toilet pan and cistern, including all associated fittings, connections and fixings, without damaging adjacent finishes. Tarlton Agri-park (Female & Male toilets) - 2 toilet suites
3.	Boardroom & Male toilets	<u>Removal of Existing Security Lock</u> Carefully remove the existing security lock from the steel burglar gate, including all associated fixings, making good any minor damage to the gate resulting from the removal, and leave the gate clean and ready for the installation of a new lock. Tarlton Agri-park (Boardroom & Male toilets) - 2 security locks
		TRADE: WATERPROOFING
1.	Boardroom and Offices	<u>Primer and two coats "Durabit" rubber bitumen emulsion waterproof coating on Corrugated and IBR Roof sheeting</u> Prepare, supply, apply one (1) primer coat rubberized liquid with a polyurethane base or similar approved waterproofing material along the full length of all joints and roofing screws and flashings against walls. Apply one (1) saturation coat over primer coat and simultaneously embed a fine-textured membrane on

		roof sheeting overlaps, roofing screws and flashings and thereafter apply one (1) final coat of liquid over the membrane, all strictly in accordance with the manufacturer's specification and instructions to ensure for the total sealing of all the roofing screws, roof joint overlaps and flashings against brick walls. Tarlton Agri-park (Boardroom and Offices) - 40 m²
		TRADE: IRONMONGERY
2.	Board room, Office no.2 Female & Male toilets	<u>Locks</u> Supply and install three-lever mortice lockset, "Union" or equal and approved, complete with two keys and striking plate, fixed to metal frame. Tarlton Agri-park (Board room, Office no.2 Female & Male toilets) - 4 lockset.
3.	Board room and Male toilet	<u>ULTRA Large Single Pin Security Lock or equal and approved</u> Supply and install ULTRA Large Single Pin Security Lock or equal and approved to existing steel burglar gate, complete with lock body, cylinder, keys, strike plate, all necessary screws, fixings and accessories. Install in accordance with the manufacturer's instructions, including all necessary cutting, drilling, fitting, adjusting, welding where required, corrosion protection to disturbed metal surfaces, and making good, ensuring smooth operation, complete. Tarlton Agri-park (Board room and Male toilet) - 2 Security Locks.
3.	external Area	<u>Heavy-Duty Locks</u> Supply and fit a 51mm heavy-duty weatherproof padlock, or equal and approved, suitable for external use, complete with a hardened steel shackle, corrosion-resistant body, high-security locking mechanism, and three (3) keys. Tarlton Agri-park (external Area) - 1 padlock
4.	Boardroom	<u>Window handles</u> Supply and install brass window handle, "Union" or other equal and approved, complete with matching screws and all necessary fixing accessories, fixed to the steel window casement.

		Tarltan Agri-park (Boardroom) - 1 window handle
		TRADE: METALWORK
1.	external Area	<u>Galvanised Steel Mesh Fence</u> Supply and install a 1 800 mm high galvanised steel diamond mesh fence comprising 2.5 mm galvanised steel wire with 50 mm aperture, complete with galvanised steel Y-standards or tubular posts, line wires, straining wires, droppers, stays, struts and all necessary fittings and fixings. Set posts plumb and securely in 20 MPa concrete foundations where required, tension the mesh and line wires, and erect the fence straight, true and secure in accordance with the manufacturer's recommendations. Tarltan Agri-park (external Area) - 4m <u>Galvanised steel mesh fence</u>
2.	external Area	<u>Corner/End/Straining Posts</u> Supply and install galvanised tubular steel corner, end and straining posts, complete with stays, struts, caps, fittings and all necessary accessories. Set posts plumb and securely embed in 20 MPa concrete foundations of the required size and depth in accordance with the manufacturer's recommendations. Ensure all posts are correctly aligned, firmly braced and suitable to withstand the required fence tension. Tarltan Agri-park (Internal Area)- 3 posts
3.	external Area	<u>Galvanised Steel Mesh Gate</u> Supply and install a 3 000 × 1 800 mm high double-leaf galvanised mild steel tubular swing gate with diamond mesh infill, complete with heavy-duty hinges, drop bolts, centre latch, padlock arrangement, gate posts, bracing, fittings and all necessary fixings. Set gate posts plumb and securely in 20 MPa concrete foundations, align and hang the gate to ensure smooth operation, and test for proper opening, closing and secure locking in accordance with the manufacturer's recommendations. Tarltan Agri-park (Internal Area)- 1 galvanised steel tubular swing gate
4.	external Area	Supply and install a 6 000 × 6 000 mm HDPE (High-Density Polyethylene) knitted Royal Blue shade sail manufactured from 240 GSM commercial-grade, UV-stabilised HDPE fabric providing 95% UV protection. Complete with reinforced edges, 316 stainless steel

		corner rings, stainless steel fixing accessories, tensioning hardware and all necessary fittings. Installation in accordance with the manufacturer's recommendations to provide a secure, taut installation. Provide a minimum 8-year manufacturer's warranty against UV degradation and material defects. Tarlton Agri-park - 1
		TRADE: PLUMBING & DRAINAGE
1.	Male toilet	<u>Replacement of 50 mm Ø uPVC Waste Pipes and Fittings</u> Carefully remove the existing 50 mm Ø uPVC waste pipes and fittings without damaging adjacent pipework or building finishes. Supply and install new 50 mm Ø uPVC waste pipes, including all necessary elbows, inspection eyes, couplings, supports, fixings and accessories. Ensure all joints are watertight, properly aligned and securely fixed. Test the installation for leaks and leave the system complete, fully operational and in good working order. Tarlton Agri-park (Male toilet) -1m of 50mm Ø uPVC waste pipes
2.	Male toilet	<u>15mm Ø Copper</u> Supply and install SABS 460 Class 1 hard drawn 15mm Ø Copper pipe and fittings including holderbats, pipe clips, etc. as necessary and leave in good working order. Tarlton Agri-park (Male toilet) - 1m (15mm Ø Copper)
3.	Female & Male toilets	<u>WC suite</u> Supply and install white vitreous China WC suite with P-trap, complete with cistern, toilet seat and cover, flush mechanism, fixing bolts, pan connector, and all necessary fittings. Tarlton Agri-park (Female & Male toilets) - 2 toilet suites
4.	External Area	<u>Flexible Stainless Steel Braided Connector</u> Supply and install 15 mm × 450 mm long flexible stainless steel braided connectors, complete with all necessary fittings, washers and connections, securely installed and tested, leaving the installation leak-free and in good working order.

		Tarlton Agri-park (External Area)- 1 flexible stainless steel
5.	Pump	<u>Replacement of fittings</u> Supply and install the following Plasson mechanical compression fittings, or equal and approved, strictly in accordance with the manufacturer's recommendations: 25mm pipe adaptors and ball valves (for transition to existing uPVC pipework), 25mm elbows, 32mm HDPE ball valves, 32mm HDPE couplers. The installation shall include all necessary jointing materials, sealants, inserts, and fixings. Test all joints for leaks and leave the installation complete, fully operational, and in good working order. Tarlton Agri-park (Pump) - 5 Pipes fittings