



SCM SUBMISSION: SPECIFICATION / SCOPE OF WORK

PURPOSE OF SUBMISSION	<p>APPOINTMENT: SERVICE PROVIDER TO SUPPLY AND INSTALL, FLORESCENT LIGHTS AND SOCKET OUTLET IN THE BRAAMFONTEIN ROLLING STOCK MAINTENANCE PITS.</p> <p>CIVIL WORKS: SERVICE PROVIDER TO APPLY 35 MPA SELF- LEVELLING /TOPPING CONCRETE ON UNEVEN CONCRETE SURFACES, DEMARCATING WITH RED AND GREEN ENAMEL EPOXY CONCRETE FLOOR PAINT, WHITE / YELLOW REFLECTING SAFETY LINES, REPAINTING OF ALL STEEL WORK FROM OLD YELLOW COLOURS TO PRASA BLUE AS WELL AS MINOR UPGRADES AT BRAAMFONTEIN CLINIC.</p>
DESCRIPTION OF GOODS / SERVICES / WORK	<p>SUPPLY AND INSTALL THE FLORESCENT LIGHTS AND INDUSTRIAL SOCKET OUTLET PLUGS.</p> <p>APPLY 35 MPA SELF- LEVELLING /TOPPING CONCRETE, DEMARCATING WITH RED AND GREEN ENAMEL EPOXY CONCRETE FLOOR PAINT, WHITE / YELLOW REFLECTING SAFETY LINES, REPAINTING OF ALL STEEL WORK AND MINOR UPGRADES AT BRAAMFONTEIN CLINIC.</p>
DIVISION	PRASA CRES
USER DEPARTMENT	PRASA CRES FACILITIES (SGR)
DATE SUBMITTED	JUNE 2023

1. INTRODUCTION

The work is appointment of a service provider to supply and install the fluorescent lights, socket outlet plugs at Braamfontein rolling stock on the pits in the Gauteng Region.

In Civil Engineering works, the service provider is expected to apply 35 Mpa self-levelling/ topping concrete on uneven concrete surfaces, demarcate with red and green enamel epoxy concrete floor paint, white and yellow reflecting safety lines, repainting of steelwork from old yellow colors to Prasa blue, as well as Minor upgrades at Braamfontein Clinic.

2. BACKGROUND OF THE PROJECT.

The maintenance pits at Braamfontein Rolling stock have no lights, this situation has become an occupational hazard, risk of injuries and has reduced productivity in this working environment. The application of 35 Mpa self-levelling/topping concrete is advised to eliminate the uneven concrete surfaces and the demarcation and repainting with color concrete painting is used for safety purposes. The Braamfontein Clinic is , therefore minor upgrades are advisable to retain the facility running and safe.

3. PRETORIALS





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ANNEXTURE A

4. SPECIFICATION AND SCOPE OF WORK.

Supply and installing of:

4.1 Supply and install 220 V telescopic twist lock lamp holders – pin florescent light fittings (4 foot).

Details of the lights to be installed: JB / IP65, 1600 Lumens, stainless stell clips and cool white.

4.2 Supply and install 220 V, industrial wall socket outlet single plug.

4.3 Preparation of surfaces and apply 35 MPa concrete topping to uneven surfaces and making a good even concrete surface.

4.4 Painting with red and green enamel epoxy concrete floor paint.

4.5 Painting with white and yellow reflecting safety lines.

4.6 Repainting of all steel work from the old yellow to Prasa blue.

4.7 Removal of old roofing and installation of a new roofing.

5. GENERAL STANDARDS AND ACTS

SANS ELECTRIC LIGHT AND POWER STANDARDS

SANS 60309-1	Plugs, Socket-outlets, lighting, and couplers for industrial purposes (Part 1: General requirements);
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SABS 1200 G	The making, storing, and testing of concrete test tubes.
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6. AREA TARGETED BY THIS PROJECT.

The place of work shall be in the Braamfontein rolling stock on the pits in the Gauteng South region.

7. OVERALL STAFFING AND KEY PROFESSIONAL STAFF.

7.1 The contractor shall provide qualified and experienced professional staff for the following positions.

- Electrician / Millwright / Electro Mech.
- Site Supervisor/Foreman
- Construction Health and Safety Officer
- Construction Manager/ Project Manager
- Qualified Site Agent

7.2 Electrician / Millwright / Electro Mech.

- Red seal trade test (NQF Level 4).
- Minimum 5 years' experience in the electrical field.

7.3 Site Supervisor/ Foreman

All work shall be supervised by a Site Supervisor in possession of a trade test qualification.

- Minimum 5 years' experience in electrical engineering field.

7.4 Construction Health and Safety Officer

The desired minimum qualifications for the Construction Health and Safety Officer are as follows:

- Minimum of 3 years industry experience as a health and safety officer.

7.5 Construction Manager/ Project Manager

The desired minimum qualifications for the Construction Manager/ Project Manager:

Qualified Construction Manager with a qualification in Civil Engineering or Construction Management or Building Science (Qualifications are National Diploma, B-Tech or Degree or Higher))

7.6 Qualified Site Agent

The desired minimum qualifications for the Site Agent:

Qualified Site Agent with a qualification in Civil Engineering or Construction Management or Building Science (*Qualifications are National Diploma, B-Tech or Degree or higher*)

8. CONCRETE WORKS

Concrete and Formwork

8.1.1 Concrete and cost of test

The cost of making, storing and testing of concrete test tubes as required under clause 7, “test” of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the test to the Architects. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Architect.

8.1.2 Formwork

Descriptions of formwork shall be deemed to include use and waste only (except where described as “left in” or “permanent”), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until newly constructed work is able to support itself.

Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse to the sides of the excavation, provision for which is made in "Earthworks".

9. PAINT WORK

For preambles see "Model Preambles for Trades" 2008 edition published by the Association of South African Quantity Surveyors

9.1.1 SUPPLEMENTARY PREAMBLES

Previously painted plastered surfaces

Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed, and cracks shall be opened, filled with a suitable filler and finished smooth.

Previously painted metal surfaces

Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal.

9.1.2 PAINTWORK ETC TO PREVIOUSLY PAINTED WORK

Clean Concrete Floors

Clean the concrete floors, concrete footings and side walls with a scraper, wire brush or stiff bristle brush, grinding of floors, remove all dirt, wax, dust, mildew and loose or separating material. Scrub with a high-powered detergent/degreaser to get rid of grease, waxes and oils.

Clean 650mm wide x 550mm deep open concrete channel pits with a scraper, wire brush or stiff bristle brush, remove all dirt, sludge, wax, dust, mildew and loose or separating material. Scrub with a high-powered detergent/degreaser to get rid of grease, waxes and oils.

10. REMOVAL AND INSTALLATION OF NEW ROOFING

Remove old building roofing and install new roofing. Installation of new roofing includes roof sheeting to be 0,8mm thick heavy industrial Z275 spelter galvanised steel sheeting with corrugated, ColorPlus, Colourbond or Global coat finish to one side and Grey other side and accessories, fixed to steel purlins using SL 700 approved clips and fasteners. Cover width 700mm. High wind - 120km/h plus - loading to be considered with installation and fixing must be in accordance with manufacturer's recommendations and specifications.

11. TO BE PROVIDED BY THE CONTRACTOR.

Site books (each in triplicate) to record:

11.1 All incidents as well as the progress of work during the occupation.

11.2 All instructions pertaining to the technical details of the work being performed at that time.

11.3 Upon appointment, the contractor shall supply machinery, equipment, material, labour, and consumables, etc. necessary for the undertaking and completion of the works to satisfaction of the client.

11.4 Any damage caused to the property of PRASA will be for the contractor's account.

12. SCRAPPING OF MATERIAL

The scrapping of material will be treated as follow:

The Prasa Cres (Facilities department) staff shall be allowed to scrutinize the scrap material and have first choice to remove re-useable materials to his/her stores. The contractor will be required to remove the scrap from site, load it onto suitable transport (steel to be cut as required, subject to the issue of the necessary permits), transport it to the langlaagte Depot and off load it there in a place to be designated by Superintendent / project Manager.

The abandoned steel components shall not be left unattended for prolonged period on site. The steel shall be removed away from walkways after each occurrence, safely stored temporarily (if required) and transported to the Langlaagte depot as soon as practically possible. All care shall be taken to avoid unlawful removal of these components from site.

13. SAFETY

- 13.1 The Contractor shall comply with the requirements of safety legislations and regulations in all respects.
- 13.2 All drivers shall be in possession of valid driver's licenses and Public Drivers Permits (PDP) where applicable. All vehicles shall be roadworthy.
- 13.3 The Contractor shall be responsible for all protective clothing and –equipment for his employees. All employees required to climb structures shall be issued with suitable harnesses.
- 13.4 The contractor shall be responsible for the security of personnel and material onsite as well as during transit.
- 13.5 An effective safety procedure to be followed by all personnel on any work site in the case of approaching rail traffic shall be compiled by the Contractor and implemented before any work commences. This procedure shall be updated whenever the need arises and any changes shall be communicated to all employees on the worksite before work proceeds.

- 13.6 It is the requirement of this contract that the contractor should provide PRASA with a detailed safety plan prior to being issued with a site access certificate.

14. PAYMENTS AND MEASUREMENTS

- 14.1 Claims for payment will be made after the completion of the work.

15. PENALTIES

- 15.1 If the Contractor fails to complete the Services within the time stipulated in this Contract for completion of Services or a part or portion of Services, the Contractor shall be liable to the Employer for an amount calculated at 0.05% of the Contract Price per delayed Day per order, which shall be paid for every [Day](#) which shall elapse between the [time for due completion](#) and completion of the relevant Services. However, the total amount due under this sub-clause shall not exceed the maximum of 10% of the Contract Price.
- 15.2 The imposition of such penalty shall not relieve the Contractor from its obligation to complete Services or from any of its obligations and liabilities under the Contract.

16. TESTING AND COMMISSIONING.

Designated PRASA personnel, in conjunction with the Contractor, shall carry out the final commissioning test. The Contractor shall carry out any remedial work, if necessary.

17. HANDING OVER.

The handovers shall be for each portion of the work when the Electrical System is tested and commissioned to the satisfaction of the Project Manager, in accordance with the details as set out in the handing over documentation of PRASA.

18. MANDATORY SECURITY REQUIREMENTS

- 18.1 All security companies used by the Contractor shall be PSIRA registered with valid letter of good standing.
- 18.2 Security personnel shall all be PSIRA registered with a clear criminal record no criminal pending cases and preferably be sourced from the local community.
- 18.3 All personnel employed by the Contractor including sub-contractors shall have undergone a Health and Safety Induction.
- 18.4 Permits to work (in line with Covid-19 regulations) shall be issued at the cost of the contractor to all personnel on that shall be signed and stamped by the authorized PRASA Official responsible for Risk Management.
- 18.5 The security to be provided by the contractor shall be responsible for both the appointed contractor's assets and PRASA's assets on site until the site is handed over to PRASA. A list of all functioning equipment that do not form part of this scope of work will be shared with the successful bidder and shall be signed off by both the successful bidder and PRASA's representative.
- 18.6 Any lost or stolen material shall be replaced by the contractor at his own cost.
- 18.7 Furthermore, it is the contractor's responsibility to ensure that valuable metal i.e. copper is adequately protected while in transit to and from site.
- 18.8 The contractor shall make sure that all material removed from site is quantified, counted, logged in the site diary and that it is co-signed by a PRASA representative on site before it is removed from site.
- 18.9 Scrap metal removed from the section shall be adequately protected until it is delivered to langlaagte depot.

19. WARRANT / LIABILITY PERIOD

The repaired components must be supplied with a 12- month warranty from date of the fitment for work that was carried out.

20. BUDGET

This is a once-off project with an estimated contract period of 6 months.

Class of Work & Grade?

Class of Work: Electrical Building (EB) Minimum

Grade: 4EB or above.

21. BILL OF QUANTITIES.

BILL OF QUANTITIES

BRAAMFONTEIN ROLLING STOCK. ELECTRICAL AND CIVIL WORKS FOR BRAAMFONTEIN SHADING WORKSHOP AND CLINIC

SCHEDULE OF QUANTITIES AND RATES / PRICE (S)					
Item No.	Description	Unit	Qty	Rate/unit (Excl VAT)	Total Price (Excl VAT)
1.	<p><u>SECTION 1: PRELIMINARY AND GENERAL.</u></p> <p><u>BILL 1</u></p> <p><u>PRELIMINARY AND GENERAL</u></p> <p>The JBCC Series 2000 Principal Building Agreement (July 2007 edition 5.0) prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter.</p> <p>The Preliminaries for use with the JBCC Series 2000 Principal Building Agreement (May 2005 edition) prepared by the Joint Building Contracts Committee, shall be deemed to be incorporated in these bills of quantities Contractors are referred to</p>				



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	<p>the above-mentioned documents for the full intent and meaning of each clause thereof These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above-mentioned documents.</p> <p>SECTION A: PRINCIPAL BUILDING AGREEMENT</p> <p>1 Clause 1.0 - Definitions and interpretation Interpretation (A1-A7)</p> <p><u>Preliminary and General</u></p> <p>All preliminary and general applicable to this project to include appointment of local CLO.</p>	Sum	1	R	-	R	-
2.	<p>OCCUPATIONAL HEALTH AND SAFETY</p> <p>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.</p> <p>Safety file shall be provided by the contractor prior to commencement of work.</p> <p>Note: All designated items should comply with local content threshold.</p> <p><u>Occupational Health and safety</u></p> <p>Compliance with Occupational Health and Safety Act (Act 85 of 1993) and its regulations and with the Employers Health and Safety</p>	Sum	1	R	-	R	-
Carried to final summary						R	-



<u>SECTION 2</u> <u>BILL 2</u> <u>GENERAL BUILDING AND ELECTRICAL WORKS AT BRAAMFONTEIN ROLLING STOCK SHADING WORKSHOP</u> <u>ELECTRICAL WORKS</u>						
3.	Remove and dispose of current fluorescent light fittings.	Sum	1200	R	-	R -
4.	Supply and install 220 Vac telescopic bi – pin florescent light fittings (4 foot) 1600 Lumens. with all accessories. Type: Cool white and Robust enclosures	Sum	1200	R	-	R -
5.	Supply and install 220V, industrial single socket outlet plug with all accessories.	Sum	285	R	-	R -
<u>CIVIL WORKS</u> <u>GENERAL BUILDING WORK AT BRAAMFONTEIN ROLLING STOCK SHADING WORKSHOP.</u> <u>CONCRETE WORK</u> <u>Concrete, Formwork and Reinforcement</u> <u>Cost of test:</u> The cost of making, storing and testing of Concrete test tubes as required CLAUSE 7 “test” of SABS 1200G shall include the Cost of providing cube moulds necessary For the purpose, for testing costs and for Submitting reports on the test to the Architects. The testing shall be undertaken By and independent firm or institution Nominated by the contractor to the Approval of the Architect. <u>Formwork</u> Descriptions of formwork shall be deemed						



	<p>To include use and waste only (except Where described as “left in” or “permanent , for fitting together in the required forms, Welding, plumbing and fixing to true angles And surfaces as necessary to ensure easy Release during stripping and for Reconditioning as necessary before re-use.</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until newly constructed work is able to support itself.</p> <p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse to the sides of the excavation, provision for which is made in “Earthworks”.</p> <p><u>ALTERATIONS</u></p> <p>Breaking up and removing of concrete</p>						
6.	<p>30mm thick concrete surface bed</p>	M ²	50	R	-	R	-
	<p><u>UNREINFORCED CONCRETE</u></p>						
7.	<p>Preparation of surfaces and apply 35MPa self-levelling concrete screed to uneven surfaces and making good.</p>	M ²	1000	R	-	R	-



<u>TEST BLOCKS</u>							
8.	Making and testing 150 x 150 x 150mm concrete strength test cube	No.	1	R	-	R	-
<u>CONCRETE SUNDRIES</u>							
Finishing top surface of concrete smooth with a steel float.							
9.	Surface beds, Floor slabs etc.	M ²	1000	R	-	R	-
<u>SMOOTH FORMWORK</u>							
<u>(DEGREE OF ACCURACY III)</u>							
Smooth Formwork to sides							
10.	Surface beds, floor slab, etc	M ²	400	R	-	R	-
<u>PAINT WORK</u>							
For preambles see “Model Preambles for Trades” 2008 edition published by the Association of South African Quantity Surveyors.							
SUPPLEMENTARY PREAMBLES							
Previously painted plastered surfaces							
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth.							
Previously painted metal surfaces							
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal.							



PAINTWORK ETC TO NEW WORK							
Surface preparations and apply three quote of enamel epoxy paint suitable for heavy duty concrete floors.							
11.	On Concrete floors	M ²	1000	R	-	R	-
PAINTWORK ETC TO PREVIOUSLY PAINTED SURFACES							
Clean the concrete floors, concrete footings and side walls with a scraper, wire brush or stiff bristle brush, griding offloors, remove all dirt, wax, dust, mildew and loose or separating material. Scrub with a high-powered detergent/degreaser to get rid of grease, waxes and oils.							
12.		M ²	20 000	R	-	R	-
Clean 600mm wide x 300mm deep open concrete channel pits with a scraper, wire brush or stiff bristle brush, remove all dirt, sludge, wax, dust, mildew and loose or separating material. Scrub with a high-powered detergent/degreaser to get rid of grease, waxes and oils.							
13.		M ²	3 300	R	-	R	-
Surface preparations and apply three quote of enamel epoxy paint suitable for heavy duty concrete floors.							
14.	On floors	M ²	14 000	R	-	R	-
Prepare and paint yellow/ white reflecting enamel road marking paint on concrete surfaces.							
15.	On Floors	M ²	7 100	R	-	R	-



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16.	<p>One coat professional plaster primer and two contractor PRASA NEUTRALS “OFFSHORE” interior quality professional superior low Sheen</p> <p>On Concrete Footings, side walls, etc</p> <p>ON METAL</p> <p>Surface preparation, One coat zinc chromate primer, one under coat and two coats professional gloss enamel paint</p>	M ²	7 000	R -	R -
17	<p>On all steel work</p>	M ²	12 550	R -	R -
Carried to final summary					R -

PROVISIONAL SCHEDULE OF QUANTITIES
MINOR UPGRADES AT BRAAMFONTEIN CLINIC

SECTION 3

**GENERAL BUILDING AND ELECTRICAL WORKS AT
BRAAMFONTEIN CLINIC**

BILL NO. 1

ALTERATIONS (PROVISIONAL)

REMOVAL OF EXISTING WORK

The contractor shall carry out the works with as little noise and mess as possible. All rubble shall be taken away from site on a daily basis.

Price shall include removal and disposal of rubble from site

Taking out and removing doors, windows, etc including thresholds, sills, etc and building up openings in brick wall including making good face brickwork on one side to match existing and cement plaster on other side (making good paint work elsewhere).

		<u>Unit</u>	<u>QTY</u>	<u>Rate</u>	<u>Amount</u>
1	Timber Double door and wooden frame 1695 x 2032mm high from one brick work.	No.	1	R -	R -
2	Timber single door and steel frame 813 x 2032mm high from one brick work.	No.	3	R -	R -
3	Timber single door 813 x 2032mm high from one wooden door frame.	No.	5	R -	R -
4	Glazed steel window frame 1500 x 1000mm high from one brick work.	No.	6	R -	R -
5	1.7m high Silver glazed aluminum profiles	m	8	R -	R -
	Breaking out for and forming openings through brick walls for new doors, windows, etc including necessary brick on edge lintels and making good face brick work to match existing on one side and				



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plaster on other side and into reveals (new windows, doors, etc and making good paintwork elsewhere)

6 Opening for door frame and door 813 x 2032mm high

No. 2 R - R -

Taking out and removing piping, sanitary fittings, etc including disconnection piping from fittings

7 WC completely pan and flush valve

No. 4 R - R -

8 Ceramic urinal basin

No. 1 R - R -

9 Ceramic wash hand basin with taps

No. 6 R - R -

10 150l geysers

No. 1 R - R -

11 Gutters and downpipes

m 150 R - R -

Taking out and removing ironmongery

12 3 Liver union door locks

No. 13 R - R -

13 Toilet paper holder

No. 4 R - R -

Taking out and removing tiling

14 Floor and wall ceramic/vinyl tiling

m² 150 R - R -

Taking out and removing glass, mirrors, putty, beads, etc

15 Glass from steel windows including cleaning out rebates and preparing for new glass

m² 25 R - R -

Taking down and removing roof, ceiling, etc

16 Flat corrugated roof

m² 450 R - R -

17 Suspended or gypsum ceiling including cornices, bandering, jointing strips, etc

m² 360 R - R -

Taking out and removing sundry joinery work, etc

18 Timber skirting, rails, etc not exceeding 300mm wide from brickwork

m 150 R - R -

19 Fascia and barge boards

m 110 R - R -



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Clean down existing face brick façade, wall and floor tiles, etc

20	External face brick walls	m ²	320	R	-	R	-
21	Internal ceramic floor and wall tiles	m ²	500	R	-	R	-
Clean down existing windowpanes							
22	Glazing to steel windows measured both sides	m ²	50	R	-	R	-

Carried to final summary R -

BILL NO 2

CONCRETE WORK

Cost of test:

The costs of making, storing and testing of concrete test cubes as required under clause 7, "test" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the test to the Architects. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

25MPa/20mm Concrete

		<u>Unit</u>	<u>QTY</u>	<u>Rate</u>		<u>Amount</u>	
1	Preparation of concrete surfaces to receive concrete	m ²	15	R	-	R	-
2	200mm deep concrete slab	m ³	3	R	-	R	-
TEST BLOCKS							
3	Making and testing 150 x 150 x 150mm concrete strength test cube	No.	1	R	-	R	-

CONCRETE SUNDRIES

Finishing top surface of concrete smooth with a power float

4	Surface beds, floor slab, etc	m ²	20	R	-	R	-
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Carried to final summary R -

BILL NO 2

CARPENTRY AND JOINERY

Wrought softwood

1	50 x 75mm purlins at 900mm center's to sides of trusses	m	80	R	-	R	-
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2	38mm x 114mm wall plates	m	100	R	-	R	-
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3	38mm x 100mm Grade M4 ridge beam	m	60	R	-	R	-
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Sundries

4	Two coats creosote on sawn timbers	m ²	200	R	-	R	-
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DOORS

Timber doors hang to steel/wooden door frames

44mm thick interior grade flush solid wooden single door with 3mm thick commercial ply on both sides with consolidated edges fitted and complying with SABS 545 in pressed steel frame. All painted in accordance with architect's colour schedules

5	813 x 2032 x 44mm single leaf solid core with commercial veneer for paint. pricing shall include painting as per manufactures specification	No.	10	R	-	R	-
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44mm thick exterior grade flush solid wooden single door with 3mm thick commercial ply on both sides with consolidated edges fitted and complying with SABS 545 in pressed steel frame.



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All painted in accordance with architect's colour schedules

813 x 2032 x 44mm single leaf solid core with commercial veneer for painting
. pricing shall include painting as per manufactures specification

6

No.

3

R

-

R

-

Emergency fire escape/exit door

1700 x 2032 x 55mm double leaf solid core including frame with commercial veneer for paint. pricing shall include painting as per manufactures specification

7

No.

1

R

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R

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FITTINGS

The following in modular timber cupboards, counters, duty stations, desk etc. as per Cupboard Connections Specification

Carcasses of 16mm thick particle board with both faces white melamine with white Masonite backs. Shelving of 16mm particle board, both faces white melamine and front edge in white PVC. Doors of 16mm particle board with post formed vertical edges and laminated in Renolit. Tops of 32mm particle board with post formed leading edges and laminated in high pressure decorative laminate. All butt edges and edges against walls to be sealed with silicon sealant. Hinges to be "Hettich". Drawer runners to be metal 500mm series with nylon runners or similar. All units complete with door, handles, hinges, cupboards, door, locks, barrel bolts and shelves. Floor unit complete with kick plates. (Formica tops measured elsewhere)

Built in cupboards fittings

General

The following cupboard fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be



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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 and paint or varnish finishes

Medical instrument cabinets

8	Epoxy coated sheet steel construction Floor cabinets 2000h x 600d x 2000mm wide completely with 5 shelves, etc and double hinged glass doors (Perspex) mounted on 4 adjustable feet	No.	2	R	-	R	-
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Vanity cabinets

9	floor cupboard 610w x 470 x 850mm high with sides, bottom, back, 2 hinged doors completely working including handles, etc. top and basin measured else where	No.	9	R	-	R	-
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Kitchen cupboards,etc.

10	Kitchen sink floor cupboard 3000 long x 600 depth x 900mm high with sides, bottom, back, 3 hinged doors and one drawer completely working including handles, etc. top and sink measured else where	No.	1	R	-	R	-
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11	Wall mounted cupboard 3000 long x 600 depth x 900mm high with sides, bottom, back, 4 hinged doors with shelscompletely working including handles, etc.	No.	1	R	-	R	-
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12	Supawood built in cupboards under counter 1090 x 600 x 720mm high with double hinged door sprayed with white duco finish	No.	3	R	-	R	-
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Supawood boards

13	450mm Supawood bulkhead boards fixed as per reception drawings, painted white with 25mm shadow line all around	m	10	R	-	R	-
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14	300mm high x 22mm supawood sprayed in black duco	m	10	R	-	R	-
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15	700 x 22mm Supawood boards fixed as per reception drawings, sprayed in black duco	m	10	R	-	R	-
	<u>Walnut timber slats</u>						
16	600 x 25 x 25mm walnut timber slats fixed to black duco sprayed cupboard backing. Screw fixed from cupboard side	m	10	R	-	R	-
	<u>Lettering</u>						
17	200 x 22mm clear Perspex cut out reception letters	No.	1	R	-	R	-
	Interior type particle board with Formica veneer						
18	900 x30mm thick granite with all exposed edges large bevel edged, fixed to supports using dabs of 100% black silicone adhesive along all supports with all joints filled with matching polyester resin glue. Granite surface to be sealed using an approved stone sealer, all in accordance with the manufacturer's recommendations.	m	15	R	-	R	-
19	800 x 50mm walnut veneer counter top	m	8	R	-	R	-
20	2mm thick edge strip 32mm wide	m	35	R	-	R	-
21	Cut 50mm work top to fit end bowl sink, measured else where	No.	10	R	-	R	-
	<u>EAVES, VERGES, ETC</u>						
	<u>Pressed fibre cement or Magna Board Fascias</u>						
22	Medium density plain ungrooved fascia boards, size 300 x 12mm thick, fixed to support battens between rafters screwed at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at board ends.	m	100	R	-	R	-
	Moulded fiber cement barge boards						
23	Moulded barge boards, size 330 x 250mm, fixed to	m	20	R	-	R	-



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PASSENGER RAIL AGENCY
OF SOUTH AFRICA

trimmer purlin, with aluminium H-profile barge
board joiners between boards and at roof apex.

Carried to final summary R -

BILL NO 3

Unit

QTY

Rate

Amount

CEILING WORK

SUPPLEMENTARY PREAMBLES

Description

Items described as "nailed" shall be deemed to be
fixed with hardened steel nails or pins or shot
pinned to brickwork or concrete

Items described as "plugged" shall be deemed to
include screwing to fibre, plastic or metal plugs at
not exceeding 600mm centres, and where
described as "bolted", bolts priced elsewhere

Finishes to suspended ceilings:

All finishes to be applied at the factory during the
manufacturing process and to be delivered on site
"pre-finished" as described. No applying of
finishes on site will be allowed

NAILED UP CEILING

**6mm "Everite Nutec" fibre cement boards with
H-type pressed steel jointing including painting
with one coat of alkali resistance primer , one
undercoat and two coat eggshell enamel paint**

Ceiling generally 600mm wide including 38 x
38mm sawn softwood bandering at maximum
600mm centres nailed to and including 75 x 50mm
sawn softwood bearers at 900mm centres
suspended approximately 250mm below timber
trusses with 75 x 38mm vertical bearers at 600mm
centres nailed to tie beams of trusses

1

m²

30

R

-

R

-

Extra over ceiling for 800 x 800mm trap door of 38
50mm wrought softwood rebated framing with

2

No.

2

R

-

R

-



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PASSENGER RAIL AGENCY
OF SOUTH AFRICA

one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening

"Rhino" gypsum plasterboard cornice

3

75mm coved cornices fixed to ceiling

m

50

R

-

R

-

SUSPENDED CEILING

Proprietary suspended ceiling

OWAcoustic(R) Constellation Premium biologically absorbable mineral wool ceiling tiles, NRC - 0.70 & CAC 33db, fire rating REI 180 (EN13501 - 2) size 1200 x 600 x 15mm with Square-edge and white painted finish, laid on fire rated OWAcconstruct(R) system S3 exposed demountable T24 suspension system, comprising galvanised main tees and cross tees with main tees suspended by means of galvanised hangers at centres not exceeding 1200mm with ceiling perimeter finished with OW A construct Shadowline W-trim, plugged and screwed at 200mm centres, and all installed to manufacturer's instructions

4

Suspended ceiling not exceeding 1m below soffits

m²

350

R

-

R

-

Carried to final summary

R

-

BILL NO 4

IRONMONGERY

LOCKS

Supply and install

1

Ultra-security heavy duty double pin locks

No.

4

R

-

R

-

2

Grade 304 stainless steel indicator bolt & privacy lock set fixed with matching stainless-steel screws

No.

4

R

-

R

-

3

Grade 304 Stainless steel Euro profile Mortice sash

No.

18

R

-

R

-

lock with reversible latch and deadbolt. Fore end to be stainless steel

4 Grey push bar suitable for double door with top and bottom shoots

No. 1 R - R -

HANDLES

5 Grade 304 Stainless steel round D lever **back to back Pull Handles** on a long back plate with a Euro profile cylinder opening. Fixing to door to be stainless steel male and female screws

No. 18 R - R -

KICK PLATES, PUSH AND PROTECTION PLATES

6 300x1,2mm Grade 304 Brushed Stainless Steel Kickplate, total width of door

m 20 R - R -

BATHROOM FITTINGS

7 Satin stainless steel soap dispensers with a replaceable and refillable 1 litre container, cylinder lock, plugged and screwed to the wall with stainless steel screws

No. 9 R - R -

8 Satin stainless steel paper towel dispenser with min 600 folded paper towels and cylinder lock, plugged and screwed to the wall with stainless steel screws.

No. 9 R - R -

9 Satin stainless steel sanitary towel disposal bins with capacity of min10 litres, free standing or wall mounted (plugged and screwed to the wall with stainless steel screws)

No. 9 R - R -

10 Satin stainless steel waste disposal bins with capacity of plus minus 20 litres and with a frame inside the dispenser to hold a liner, plugged and screwed to the wall with stainless steel screws.

No. 9 R - R -

11 Satin stainless steel full automatic industrial hand dryer with 2 vandal proof lock screws and key wrench, plugged and screwed to the wall with stainless steel screws. 2500 W motor with automatic power cut off after 90 seconds. With 5 year warranty.

No. 4 R - R -

12 Satin stainless steel toilet roll holders for 3 rolls with central shaft system and cylinder lock, plugged and screwed to the wall with stainless

No. 4 R - R -



steel screws. (vandal resistant)

SUNDRIES

13	Grade 304 Stainless Steel floor mounted door stop , plugged and screwed to floor with matching stainless steel screws	No.	20	R	-	R	-
----	---	-----	----	---	---	---	---

Door closer

14	Grade 304 Stainless Steel Rack and Cam Pinion door closer with sliding track arm. Non handed with a maximum 180 degree non hold opening as standard. Power adjustable by spring, latching and damping action. Must be suitable for interior solid doors.	No.	22	R	-	R	-
----	--	-----	----	---	---	---	---

SIGNAGE

Internal signage

15	150 x 150mm High double-sided ceiling mounted directional sign anodized aluminium female, male and pictogram door sign, suspended from ceiling grids with brass chains. Minimum of 2,1m above finished floor level.	No.	2	R	-	R	-
----	---	-----	---	---	---	---	---

16	150 x 150mm High door mounted sign anodized aluminium female and male pictogram door sign.	No.	2	R	-	R	-
----	--	-----	---	---	---	---	---

17	150 x 150mm High door mounted sign anodized aluminium emergency fire exit door sign.	No.	4	R	-	R	-
----	--	-----	---	---	---	---	---

Door name plates and lettering

18	300 x 80mm High door mounted silver anodized aluminium door name plate holder complete with white plastic name plate engraved in either Helvetica or roman type style in black letters (Consultation 1/2/3/4/5/6)	No.	9	R	-	R	-
----	---	-----	---	---	---	---	---

Aluminium louvres

19	Aluminium louvers for all door to match adjacent	No.	20	R	-	R	-
----	--	-----	----	---	---	---	---

Aluminium work



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PASSENGER RAIL AGENCY
OF SOUTH AFRICA

20	black powder coated aluminium fixing track fixed onto supawood bulkhead	m	20	R	-	R	-
	PUBLIC SEATING (NOT SUITABLE FOR OUTDOOR USE – MILD STEEL)						
	Arms and legs: 1.2mm steel tube-Chromed. Cross beam: 2mm steel square tube powder coated silver. Seat and back: cold rolled steel 1.3mm powder coated silver. Bolted to the floor with 4 additional plates. Pricing to include Supply, Delivery and Installation						
21	5 seater 2890mmW x 670mmD x 785mmH, public mild steel seating powder coated silver. NOT SUITABLE FOR OUTDOOR USE	No.	6	R	-	R	-
	Carried to final summary					R	-
	<u>BILL NO 5</u>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>		<u>Amount</u>	
	<u>PLUMBING WORK</u>						
	SANITARY FITTINGS						
	Supply and install						
1	Vaal Sanitaryware Hibiscus vitreous china close coupled suite colour White (Code: 772654), comprising 90° outlet open rim pan (Code: 772600) with matching 9 litre front single flush cistern (Code: 772402) including lid and fitments and Jazz Thermoset seat.	No.	4	R	-	R	-
2	Vaal Sanitaryware Iceberg vitreous china drop-in vanity basin colour White (Code: 7034), size 420 x 420mm fitted into opening in granite vanity top (elsewhere specified) and sealed with silicone sealant where basin rim meets vanity top. To be used in conjunction with wall mounted push on demand tap as specified V05-V06.	No.	9	R	-	R	-
3	Vaal Sanitaryware Hibiscus vitreous china lavatory basin colour White (Code: 7023), size 510 x 405mm with one taphole including integrated overflow and chainstay hole bolted to wall with two x 10mm bolts (Code: 8448Z0) and including Classic floor mounted pedestal (Code: 7150) and sealed with silicone sealant where basin meets wall. To be used in conjunction with cold water or mixer taps as specified, V08-V11.	No.	1	R	-	R	-



SINK, BASIN, ETC

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).

4		No.	1	R	-	R	-
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WASTE UNINON ETC

Basin waste, plug, chain, stay and backnut

5		No.	10	R	-	R	-
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Urinal Basin

Vaal Sanitary ware Lavatera white vitreous china wall mounted urinal with top inlet (code 705426) or back inlet (code 7054Z1). Overall size 600x385x380mm. Supplied with 38mm c.p. domical grating, a spreader (with a 20mm tread) and two hanger brackets

6		No.	1	R	-	R	-
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TAPS, VALVES, ETC

Supply and install

Top entry exposed toilet flush valve with top entry flush pipe and connector, to match adjacent.

7		No.	3	R	-	R	-
---	--	-----	---	---	---	---	---

Single lever basin mixer. Chrome finish. SANS 226 Water taps

8		No.	10	R	-	R	-
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Cobra Watertech Noka 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).

9		No.	1	R	-	R	-
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600kpa pressure control valve

10		No.	2	R	-	R	-
----	--	-----	---	---	---	---	---

Relieve/safety valve

11		No.	2	R	-	R	-
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Vacuum breaker

12		No.	2	R	-	R	-
----	--	-----	---	---	---	---	---

Drain cock

13		No.	2	R	-	R	-
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Flexi connector

14		No.	15	R	-	R	-
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15 Brass Gate Valve

15		No.	2	R	-	R	-
----	--	-----	---	---	---	---	---

16	Mini Ball Valve	No.	15	R	-	R	-
17	22mm Brass Gate Valve including cast iron valve box	No.	1	R	-	R	-
TRAPS ETC							
18	365/40 CP bottle trap 40 x 40 INC CP/PVC adaptor to 40mm suitable for wash hand basin and urinal basin	No.	10	R	-	R	-
19	38mm sink "P" trap	No.	1	R	-	R	-
Extra over PVC pipes for fittings							
20	110mm pan connector completely	No.	4	R	-	R	-
WATER SUPPLIERS							
Class "O" copper pipe							
21	15mm pipes	m	100	R	-	R	-
22	15mm pipes chased into brick walls and make good	m	50	R	-	R	-
23	22mm pipes	m	10	R	-	R	-
24	22mm pipes chased into brick walls	m	20	R	-	R	-
Extra over class "O" copper pipes for capillary fittings							
25	15mm fitting	No.	15	R	-	R	-
26	22mm fitting	No.	5	R	-	R	-
27	15mm Tee	No.	10	R	-	R	-
28	22mm Tee	No.	5	R	-	R	-
0.8mm galvanized sheet iron							
29	125 x 100mm eaves gutter	m	200	R	-	R	-
30	Extra over 125 x 100mm eaves gutter for stopped end	No.	15	R	-	R	-



31	Extra over 125 x 100 eaves gutter for angle	No.	15	R	-	R	-
32	Extra over 125 x 100mm eaves gutter for outlet for 100 x 75mm pipe	No.	15	R	-	R	-
33	100 x 75mm rainwater pipes	m	45	R	-	R	-
34	Extra over 100 x 75mm rainwater pipe for shoe	No.	15	R	-	R	-
ELECTRIC WATER HEATERS							
Supply, deliver and install Electrical geysers with all other accessories							
35	150L 600i dual electric water heater Geyser completely with safety valve, drain cock, vacuum breaker, gate valve, tray and pressure regulating valve.	No.	1	R	-	R	-
Hydroboiler							
36	5 litre Stainless steel water boiler , with stainless steel tank, steam free boiling water, electronic controls, 15mm overflow, connected to 15mm cold water supply including isolating valve and 230 volt 1800 watt electrical power supply, plugged and screwed to wall and fitted under 1 year warranty.	No.	1	R	-	R	-
SOIL DRAINAGE							
Upvc waste pipes							
37	50mm pipes with all connection and make good	m	50	R	-	R	-
Upvc class 34 pipes including excavation, bedding, backfilling and compaction and disposal of surplus material							
38	110mm pipes vertical or ramped to cleaning eyes etc (no excavation)	m	10	R	-	R	-
39	110mm pipes laid in and including trenches not exceeding 1m deep	m	15	R	-	R	-
Extra over Upvc class 34 pipes for fittings							
40	110 Bend	No.	2	R	-	R	-

41	110mm junction	No.	2	R	-	R	-
42	110mm Access bend	No.	2	R	-	R	-
Upvc Gulley							
110mm Gulley not exceeding 1m deep formed of trap, vertical pipe and gully head with loose grating, encased in 15MPa unreinforced concrete, with top of gully 50mm above surrounding finished surfaces, top surface of concrete splayed and with 1:3 cement plaster on exposed surfaces							
43		No.	4	R	-	R	-
Sundries							
44	110mm Upvc cleaning eye to end of 110 Upvc pipe	No.	2	R	-	R	-
350 x 350 x 50mm thick precast concrete inspection eye marker slab finished smooth on exposed surfaces with letters "I.E" or "I.O" on top and placed flush in ground or paving							
45		No.	2	R	-	R	-
46	Testing soil drainage system	Item		R	-	R	-
WATER RETICULATION							
PREMBLES							
The contractor is referred to the General Preambles for trades 2017 published by the Association of South Africa Quantity Surveyors before pricing							
WATER PIPEWORK							
HDPE PE 100PN 12.5 pipes including excavation, bedding, backfilling, and compaction and disposal of surplus material							
47	25mm pipes laid in and including trenches not exceeding 1m deep	m	20	R	-	R	-
Extra over HDPE							
48	25mm elbow	No.	2	R	-	R	-
49	25mm equal tee	No.	2	R	-	R	-



50	25mm couplings pipe connectors	No.	2	R	-	R	-
Carried to final summary						R	-
	<u>BILL NO.6</u>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>		<u>Amount</u>	
	<u>METAL WORK</u>						
	STEEL DOOR FRAME						
	1.2mm Double rebated frames suitable for one brick walls						
1	Frame for door 813 x 2032mm high	No.	2	R	-	R	-
	1.2mm External Double rebated frames suitable for half brick walls						
2	Frame for door 813 x 2032mm high	No.	5	R	-	R	-
	1.6mm External Double rebated frames suitable for one brickwork for emergency door						
3	Frame for door 1800 x 2032mm high	No.	1	R	-	R	-
	ALUMINIUM WORK						
	1.2mm Double rebated frames suitable for one brickwork for emergency door						
4	1800mm high bronze aluminium profiles including post, rails, etc on top of one brick work (Glazing prized somewhere)	m	8	R	-	R	-
Carried to final summary						R	-
	<u>BILL NO.7</u>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>		<u>Amount</u>	
	<u>GLAZING</u>						
	<u>GLAZING TO STEEL WITH PUTTY</u>						

4mm clear float glass

1	Panes exceeding 0.5 m ² and not exceeding 1.0 m ²	m ²	10	R	-	R	-
---	---	----------------	----	---	---	---	---

4mm clear obscure glass

2	Panes exceeding 0.5 m ² and not exceeding 1.0 m ²	m ²	20	R	-	R	-
---	---	----------------	----	---	---	---	---

6mm clear float glass

3	6mm clear toughened safety glass with polished edges, all glazing butt jointed frameless glass with no silicon Panes exceeding 0.5 m ² and not exceeding 1.0 m ²	m ²	15	R	-	R	-
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4	Cutting of 160mm diameter hole speak thru on 6mm glass	No.	2	R	-	R	-
---	--	-----	---	---	---	---	---

5	Cutting of 100mm high and 300mm long diameter hole on 6mm glass	No.	2	R	-	R	-
---	---	-----	---	---	---	---	---

Mirrors

1mm stainless steel mirror heavy duty with 7mm thief resistance concealed plastic backing.

6	Mirror 595 x 495mm x 1mm thick	No.	3	R	-	R	-
---	--------------------------------	-----	---	---	---	---	---

Modern framed mirror on mirror

7	Mirror 1000 x 70mm with four screws	No.	1	R	-	R	-
---	-------------------------------------	-----	---	---	---	---	---

Carried to final summary R -

BILL NO.8

PLASTERING

SUPPLEMENTARY PREAMBLES

Preparatory work for textured finishes:

Textured finishes to be applied to plaster (plaster elsewhere)

Unit

QTY

Rate

Amount



All surfaces are to be inspected and approved by Prasa representative before any work is commenced with

Price for texture finishes:

Prices are to include for all priming, preparatory work, etc

INTERNAL PLASTER

Preparation and Cement plaster on brick work

1	walls	m ²	50	R	-	R	-
2	Narrow width	m ²	10	R	-	R	-

Carried to final summary R -

BILL NO.9

PAINTWORK

For preambles see "Model Preambles for Trades" 2008 edition published by the Association of South African Quantity Surveyors

SUPPLEMENTARY PREAMBLES

Previously painted plastered surfaces

Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth

Previously painted metal surfaces

Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal

Unit

QTY

Rate

Amount



Previously painted wood surfaces

Surfaces shall be thoroughly cleaned down.
Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with a suitable filler and finished smooth

PAINT SPECIFICATION

Water based: Low odor and easy cleaning.

Highly durable and UV resistant for South African harsh climate.

Quick drying.

Excellent wear resistance properties.

Washable: Meets the requirements of the SABS and ASTM scrub resistant test methods.

•

Mar and scratch resistant.

Good color stability.

Non Yellowing: Unlike alkyd based paints whites and colors will not yellow.

Water and steam resistant.

Excellent resistance to spatter.

Excellent adhesion, good flow and excellent opacity.

Very low levels of VOC. 16g / Lt.

PAINTWORK, ETC TO NEW WORK

ON FLOATED PLASTER

One coat professional plaster primer and two coats acrylic paint anti-bacterial paint

1	On ceiling and cornices	m ²	50	R	-	R	-
---	-------------------------	----------------	----	---	---	---	---



ON WOOD

One coat professional plaster primer and two coats contractors high performance satin/mid sheen flexible wall anti-bacterial paint

2	On doors	m ²	100	R	-	R	-
---	----------	----------------	-----	---	---	---	---

Sand with abrasive paper, leaving surface dry, clean and dust free. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content of BD 2 scale (A1-A5) < 14% or less. Prime with one coat Varnish with an overcoating time of 6 hours and finish with two coats Varnish with 6 hours drying time between coats.

3	On skirting	m ²	100	R	-	R	-
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ON METAL

One coat zinc chromate primer, one under coat and two coats professional white gloss enamel anti-bacterial paint paint

4	On buglers, gates, door frames, window frames, gutters and down pipes	m ²	150	R	-	R	-
---	---	----------------	-----	---	---	---	---

Surface preparations, and apply three quote of exterior Brick and Slasto Dressing to face brick work

5	On walls	m ²	360	R	-	R	-
---	----------	----------------	-----	---	---	---	---

CONCRETE

Wash with polycell sugar soap and rinse with clean water to remove all traces of soap, remove all loose flaking paint and repair any cracks and defects, spot prime bare and repaired areas with bonding liquid and apply one coat sealer and two coats of exterior quality floor epoxy paint

6	On concrete floors	m ²	240	R	-	R	-
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PASSENGER RAIL AGENCY
OF SOUTH AFRICA

PAINTWORK ETC TO PREVIOUSLY PAINTED WORK

ON WOOD

One coat professional plaster primer and two coats contractors high performance satin/mid sheen flexible wall anti-bacterial paint

7	On doors	m ²	90	R	-	R	-
---	----------	----------------	----	---	---	---	---

ON METAL

One coat zinc chromate primer, one under coat and two coats professional white gloss enamel paint

8	On buglers, gates, door frames, window frames, gutters and down pipes	m ²	150	R	-	R	-
---	---	----------------	-----	---	---	---	---

Wash with polycell sugar soap and rinse with clean water to remove all traces of soap, remove all loose flaking paint and repair any cracks and defects, spot prime bare and repaired areas with bonding liquid and apply one coat sealer and two coats contractors high performance satin/mid sheen flexible wall anti-bacterial paint

9	On internal walls	m ²	810	R	-	R	-
---	-------------------	----------------	-----	---	---	---	---

Carried to final summary

R	-
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BILL NO.10

MASONRY

BRICKWORK

Sizes in descriptions:

Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick

Unit

QTY

Rate

Amount



SUPERSTRUCTURE

Brickwork of NFP bricks in class II mortar

1	One brick walls	m ²	30	R	-	R	-
---	-----------------	----------------	----	---	---	---	---

2	Half brick walls	m ²	30	R	-	R	-
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15MPa/20mm concrete

3	50mm blinding layer	m ³	10	R	-	R	-
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Striking and Pointing on face brick work

4	Striking and pointing on face brick work	m ²	100	R	-	R	-
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Face brick coping

5	Coping on top of one brick wall	m	5	R	-	R	-
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BRICKWORK SUNDRIES

Brick reinforcement

6	230mm wide reinforcement built in horizontal	m	50	R	-	R	-
---	--	---	----	---	---	---	---

Carried to final summary

R	-
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BILL NO.11

Unit

QTY

Rate

Amount

TILING

FLOOR TILING

Full bodied porcelain tiles, size 600 x 600mm x 10mm fixed to internal floor screed with TAL tile adhesive mixed with TAL bonding liquid in lieu of water with diagonal joints continuous in both directions and grouted with TAL tile grout, excess



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PASSENGER RAIL AGENCY
OF SOUTH AFRICA

grout on the surface to be cleaned with water as work proceeds.

1	On floors	m ²	100	R	-	R	-
	Matt Full Bodied Porcelain tiles, size 600 x 300mm x 12mm fixed to internal wall plaster backing with TAL tile adhesive mixed with TAL bonding liquid in lieu of water with joints continuous in both directions and grouted with TAL tile grout, excess grout on the surface to be cleaned with water as work proceeds.						
2	On walls	m ²	80	R	-	R	-

Carried to final summary

R -

BILL NO.14

ROOF COVERING ETC

PROFILED METAL SHEETING AND ACCESSORIES

Roof sheeting to be 0,8mm thick heavy industrial Z275 spelter galvanised steel sheeting with corrugated, ColorPlus, Colourbond or Globalcoat finish to one side and Grey other side and accessories, fixed to steel purlins using SL 700 approved clips and fasteners. Cover width 700mm. High wind - 120km/h plus - loading to be considered with installation and fixing must be in accordance with manufacturer's recommendations and specifications.

		<u>Unit</u>	<u>QTY</u>	<u>Rate</u>		<u>Amount</u>
1	pitch not exceeding 30 degrees	m ²	600	R	-	R -
2	450mm galvanized steel roll top ridge	m	70	R	-	R -

Carried to final summary

R -

BILL NO.14

BLINDS

50 horizontal venetian silver 902 with valances

Unit QTY Rate Amount



1	To fit 1500 x 1000mm high opening	No.	3	R	-	R	-
2	To fit 500 x 2500mm high opening	No.	1	R	-	R	-
3	To fit 2000 x 2000mm high opening	No.	2	R	-	R	-
4	To fit 3000 x 2000mm high opening	No	5	R	-	R	-

Carried to final summary

R -

	<u>BILL NO.15</u> <u>AUDIO ROOM SOUND PROOFING</u> <u>Ceiling insulation</u>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>	<u>Amount</u>
1	Insulbatt with sonic liner 60kg density 1200 x 600 x 50mm	m ²	15	R -	R -
	Walls				
2	Acoustic Boards	m ²	20	R -	R -
3	Cavity batt 60kg/> density	m ²	25	R -	R -
4	Noiseproofing Compound	No.	5	R -	R -
5	Noise proofing sealant	m	3	R -	R -
	Floor				
6	Rubberized flooring	m	10	R -	R -
	Ceiling insulation				
7	Automatic Drop down seal	No.	1	R -	R -
8	Perimeter seal	No.	1	R -	R -
9	Light Acoustic door	No.	1	R -	R -
				Carried to final summary	R -



ELECTRICAL WORKS – BRAAMFONTEIN CLINIC

BILL NO.16

LIGHT FITTINGS

1	Rectangular 1200x600mm LED recessed for suspended ceiling, 53W: Max height 4000mm. Supply, Delivery, and Installation	No.	38	R	-	R	-
2	Fully recessed LED Downlighter Luminaires, 22W: Supply, Delivery, and Installation	No.	0	R	-	R	-
3	Fully recessed LED Flat Downlighter Luminaires, 22W: Supply, Delivery, and Installation	No.	22	R	-	R	-
4	High corrosion resistant surface mount LED luminaire, 30W: Supply, Delivery, and Installation	No.	12	R	-	R	-
<u>POWER UTILITIES</u>							
5	16 A, 3-pin standard double white SSO (SANS 164-1) + 16 A, double 3-pin Euro Socket (SANS 164-2): Supply, Delivery, and Installation.	No.	17	R	-	R	-
6	16 A, 3-pin standard Single white SSO (SANS 164-1) + 16 A, double 3-pin Euro socket (SANS 164-2): Supply, Delivery, and Installation.	No.	6	R	-	R	-
7	Power skirting mounted 16 A, 3-pin dedicated red SSO (SANS 164-4): Supply, Delivery, and Installation.	No.	6	R	-	R	-



HVAC

8	Supply, Delivery, and Installation: 12000 BTU air conditioner.	No.	1	R	-	R	-
9	Supply, Delivery, and Installation: 6000 BTU air conditioner.	No.	3	R	-	R	-

DISINFECTION/UV LIGHTS

10	Ultra-violet surface disinfection systems assist in the disinfection, 75W – Ceiling Height 2.5m – 9m ² at 10µ/W ² : Supply, Delivery, and Installation.	No.	11	R	-	R	-
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WIRE WAYS

Supply, delivery and installation of PVC conduits, surface mounted in ceiling voids and fixed to walls or cast-in or built into walls, including all fixing materials, bends, terminations, draw boxes, etc.

11	20mm diameter PVC Conduit, inclusive of all necessary accessories for installation: Supply, Delivery, and installation	M	110	R	-	R	-
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Supply, delivery and installation of the 3 compartments, 3 cover Midland power skirting complete with all accessories including internal/external bends, end caps etc. power skirting complete with all accessories including internal/external bends, end caps etc.

12	Inclusive of supply, delivery and installation	M	80	R	-	R	-
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13	Sundries (All wiring necessities)	SUM	1	R	-	R	-
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CABLES AND WIRING

14 2,5mm² Suffix insulated conductor Supply, delivery and Installation

M

100

R

-

R

-

15 6mm² 4 core Suffix (For HVAC) Supply, delivery and Installation

M

80

R

-

R

-

ISOLATOR SWITCHES

**All work to comply to SANS 10142
Compliance certificate to be provided on completion.**

Pricing to include all necessary complete connection

16 1 Phase Dual Pole 20A isolator for AC supply

No.

4

R

-

R

-

17 Day Light switch, Supply, and installation

No.

1

R

-

R

-

18 Occupancy sensors

No.

14

R

-

R

-

19 One lever, one-way light switch

No.

1

R

-

R

-

20 Two lever, one way switch

No.

1

R

-

R

-

TELECOMMS

21 Blank cover plate suitable for RJ 11 telephone outlet.

No.

10

R

-

R

-

22 Blank cover plate suitable for RJ 49 data outlet

No.

10

R

-

R

-

23 Cat 5 network cable

M

60

R

-

R

-



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PROVISIONS

Lightning protection

24

Supply, installation, testing and commissioning of lightning protection by lightning specialist approved by the Engineer.

SUM

1

R

-

R

-

25

Issuing of Lightning Protection COC

SUM

1

R

-

R

-

R

-



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No.	Description	Page	Amount
1	Preliminary and General	13 to 14	R -
2	General Building and electrical works at Rolling stock Shading workshop	15 to 19	R -
	Braamfontein Clinic General Building and Electrical Works		
1	Alterations	20 to 22	R -
2	Concrete work	22 to 23	R -
3	Carpentry and Joinery	23 to 27	R -
4	Ceiling work	27 to 28	R -
5	Ironmongery	28 to 31	R -
6	Plumbing work	31 to 36	R -
7	Metal work	36	R -
8	Glazing	36 to 37	R -
9	Plastering	37 to 38	R -
10	Paint work	38 to 41	R -
11	Masonry	41 to 42	R -
12	Tiling	42 to 43	R -
13	Roof covering	43	R -
14	Blinds	43 to 44	R -
15	Audio Room	44	R -
16	Electrical works	45 to 48	
SUB TOTAL			R -
ADD VAT @ 15%			R -
TOTAL			R -



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