



86 **Adjustment of preliminaries**

Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) working days of taking possession of the site" with "when submitting his priced bills of quantities / lump sum document"

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

87 **Payment certificate cash flow**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**11: GENERAL**

88 **Protection of the works**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

89 **Protection / isolation of existing / sectionally occupied works**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

90 **Security of the works**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

91 **Notice before covering work**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

92 **Disturbance**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

93 **Environmental disturbance**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

94 **Works cleaning and clearing**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

95 **Vermin**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

Carried to Collection

R

Section No. 1  
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96 **Overhand work**  
Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

97 **Instruction manuals and guarantees**  
Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

98 **As built information**  
Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

99 **Tenant installations**  
Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**12: SCHEDULE OF VARIABLES**

100 **Schedule of Variables**  
Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

This **schedule** contains all variables referred to in this document and is divided into pretender and post tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post tender categories form part of these Preliminaries.

Spaces requiring information must be filled in, shown as "not applicable" or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted.

Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the **schedule**. Key cross reference clauses are italicised in [ ] brackets

**12.1 PRE TENDER INFORMATION**

**12.1.1 Provisional Bills of Quantities**

[2.2] The quantities are provisional **YES**

**12.1.2 Availability of construction documentation**

[2.3] *Construction of documentation is complete* **NO**

**12.1.3 Interest of agents**

[2.4] Details: None

**Carried to Collection**

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- 12.1.4 **Defined works area**  
[3.1] Details: As defined in the tender drawings issued
  
- 12.1.5 **Geotechnical investigation**  
[3.2] Details: Not done
  
- 12.1.6 **Existing premises occupied**  
[3.4] Specific requirements: The premise will be occupied during construction
  
- 12.1.7 **Previous work - dimensional accuracy**  
[3.5] Details: None
  
- 12.1.8 **Previous work - defects**  
[3.6] Details: None
  
- 12.1.9 **Services - known**  
[3.7] Details: As defined in the tender drawings issued
  
- 12.1.10 **Protection of trees**  
[3.9] Specific requirements: None
  
- 12.1.11 **Inspection of adjoining properties**  
[3.11] Specific requirements: None
  
- 12.1.12 **Enclosure of the works**  
[6.2] Specific requirements: None
  
- 12.1.13 **Offices**  
[6.4.3] Specific requirements: None
  
- 12.1.14 **Main notice board**  
[6.5] Specific requirements: N/A
  
- 12.1.15 **Subcontractors' notice board**  
[6.6] A notice board is required

Specific requirements:

NO

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12.1.23 **Disturbance**

[11.5] Specific requirements:

The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent

12.1.24 **Environmental disturbance**

[11.6] Specific requirements:

12.2 **POST TENDER INFORMATION**

12.2.1 **Payment of preliminaries**

[10.2] Option A (prorated)

YES

Option B (calculates)

NO

12.2.2 **Adjustment of preliminaries**

[10.3] Option A (three categories)

YES

Option B (detailed breakdown)

NO

12.2.3 **Additional agreed preliminaries items**

Details:

**SECTION C: SPECIFIC PRELIMINARIES**

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Section No. 1  
Section 1: Preliminaries  
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**Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item**

101 **C1 CONTRACT DRAWINGS**

The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the **works** and the manner in which they are to be executed

Should any part of the drawings not be clearly intelligible to the tenderer he shall, before submitting his tender, obtain clarification in writing from the **principal agent**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

102 **C2 PREAMBLES**

The document "Specification of Materials and Methods to be used (PW371)" is obtainable on the Department's website <<http://www.publicworks.gov.za/>> under "Consultants Guidelines", and shall be read in conjunction with the bills of quantities document and be referred to for the full descriptions of work to be done and materials to be used

The document "Construction Works: Specifications: Particular Specification (PW3 Edition 2.0" is issued together with the drawings and shall be read in conjunction drawings and the **bills of quantities / lump sum document**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

103 **C3 TRADE NAMES**

Wherever a trade name for any product has been described in the **bills of quantities**, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the **principal agent** being obtained prior to the closing date for submission of tenders

If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**Carried to Collection**

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104 **C4 IMPORTED MATERIALS AND EQUIPMENT**

Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment to be completed by tenderer)

Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

105 **C5 VIEWING THE SITE IN SECURITY AREAS**

The **site** is situated in a security area and the tenderer must arrange with the user department or other responsible person to obtain permission to enter the **site** for tendering purposes

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

106 **C6 COMMENCEMENT OF WORKS IN SECURITY AREAS**

As the **works** falls within a security area the **contractor** must give the user department or other responsible person notice before commencement of the **works**. Should the **contractor** fail to make such arrangements, admission to the **site** may be refused and any additional costs will be for the **contractor's** account

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

107 **C7 ENTRANCE PERMITS TO SECURITY AREAS**

As the **works** falls within a security area the **contractor** shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

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Preliminaries



108 **C8 SECURITY CHECK OF PERSONNEL**

The **principal agent** may require the **contractor** to have his personnel and workmen, or a certain number of them, security classified

In the event of the **principal agent** requesting the removal of a person or persons from the **works** for security reasons, the **contractor** shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the **works** and the **site** and/or to any document or information relating to the **works**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

109 **C9 PROHIBITION ON TAKING OF PHOTOGRAPHS**

In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister

The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**C10 HIV/AIDS AWARENESS**

It is required of the **contractor** to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

The **contractor** must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of Clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

Carried to Collection

R

Section No. 1  
Section 1: Preliminaries  
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Preliminaries



110 **C10.1 AWARENESS CHAMPION**

Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

111 **C10.2 AWARENESS WORKSHOPS**

Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

112 **C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.**

Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

113 **C10.4 ACCESS TO CONDOMS**

Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

114 **C10.5 MONITORING**

Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

Carried to Collection

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Section No. 1  
Section 1: Preliminaries  
Bill No. 1  
Preliminaries



115 **C11 : OCCUPATIONAL HEALTH AND SAFETY ACT**

It is required of the Contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities. Provision for pricing thereof is made under items C9.1 to C9.9 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

The Contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health & Safety specification is compulsory. In the event of partial or total non-compliance, the Principal Agent, notwithstanding the provisions of Clause A 31 of "Section 1: Preliminaries (Part A)" or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the Contractor provides satisfactory proof of compliance. The Contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

All references hereunder are to Regulations of the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993),

The Contractor shall, in submitting his bid, demonstrate that he has made provision for the cost of compliance with the specified health and safety requirements, the Act and Construction Regulations

Fixed:\_\_\_ Value related:\_\_\_ Time related:\_\_\_\_\_

Item

116 **C12 COMMUNITY LIAISON OFFICER (CLO)**

**UTILISATION OF A COMMUNITY LIAISON OFFICER**

The Contractor shall allow for and pay any and all costs necessary for the engagement of the services of a Community Liaison Officer (CLO) for the full duration of this contract.

A CLO will be identified by the local structures of the ward areas and appointed following fair and transparent interviewing process, to be conducted in the presence of local structures and the contractor representative, in order to assist the Contractor in the procurement of any local labour, etc. required for this project. The Contractor is to liaise with the CLO and afford him any assistance needed in ensuring sound working relations with the local community.

Key Responsibilities of the CLO are envisaged to include and not necessary be limited to:

1. Assisting local leadership in conducting skills and resources audit which facilitates sourcing labour from within the ward or targeted areas for

**Carried to Collection**

R

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Section 1: Preliminaries  
Bill No. 1  
Preliminaries

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employment, as required by contractor

2. Assisting in sourcing labour-only domestic sub-contractors and the procurement of materials from local resources, as required by the Contractor.
3. Assisting the Contractor by identifying areas of potential conflict and or threats to the project or to stakeholders in the project and recommend appropriate action to the contractor.
4. Assisting Contractor and stakeholders in the project in the resolution of any conflict which may arise.
5. Establishing and ensuring that sufficient and open communication channels between the Contractor and the work force are maintained.
6. Establish and ensuring that efficient and open communication channels between the Contractor and the community are maintained.
7. Identifying and reporting to the Contractor regarding issues where communication between stakeholder is necessary, recommend courses of action and facilitate such communications.
8. Assisting the Contractor and the work force in the establishment of grievance procedures and necessary recommendation to the Contractor regarding the grievances and solution thereto.
9. Attending to site meetings and project implementation meetings as required by the Contractor and prepare periodic reports as may be required by the Contractor from time to time.
10. Attending to such other duties which are consistent with the functions of a CLO, as may be required by the Contractor from time to time.
11. Tenderers are to price twice the rate of skilled local labour rate against this item for any and all costs arising out of compliance with the foregoing and in the event of a Tenderer failing to price against this item or making inadequate financial provision against this item for compliance as aforesaid, then no claim for costs or additional cost incurred will be entertained by the Head: SAPS.

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Carried to Collection

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Section 1: Preliminaries  
Bill No. 1  
Preliminaries

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R



Section No. 1

Bill No. 1

Preliminaries

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Section No. 1

Section 1: Preliminaries

Bill No. 1

Preliminaries

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Section No. 1

Bill No. 1

Preliminaries

**COLLECTION**

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Carried to Final Summary

R

Section No. 1  
Section 1: Preliminaries  
Bill No. 1  
Preliminaries



Item No		Quantity	Rate	Amount
	<b><u>SECTION 2</u></b>			
	<b><u>ALTERATIONS</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	All old material from the demolitions /alterations, where described as to be removed, are to become the property of the Contractor, except where indicated that it should be handed over to the owner, who is to allow credit for same in the particular items			
	Old material from alterations except where described to be reused 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			
	None of the old materials are to be used for new work except where specifically described as being set aside for re-use			
	<b><u>REMOVAL OF EXISTING WORK</u></b>			
	<u>Taking out and removing doors, windows etc. from site including thresholds, sills etc. (building up openings and making good finishes elsewhere)</u>			
1	550 x 1240mm window and steel window frame	No	4	
2	813 x 2032mm Single door and steel door frame	No	2	
	<b><u>BUILDING UP OPENINGS</u></b>			
	<u>Brickwork in NFP bricks in class II mortar in building up openings. including bonding new to existing and making good to match existing</u>			
3	Half brickwall	m <sup>2</sup>	1	
	<b>Carried to Collection</b>			R
	Section No. 2 Section 2: Building Works Bill No. 1 Alterations			



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4	One brickwall	m <sup>2</sup>	4
	<u>Sundries</u>		
5	Cutting toothings and bonding new brickwork to existing	m <sup>2</sup>	2

Carried to Collection

R

Section No. 2  
Section 2: Building Works  
Bill No. 1  
Alterations



Section No. 2

Bill No. 1

Alterations

**COLLECTION**

Total Brought Forward from Page No.

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No

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Amount

**Carried Forward to Summary of Section No. 2**

R

Section No. 2  
Section 2: Building Works  
Bill No. 1  
Alterations



Item No

Quantity

Rate

Amount

**SECTION 2**

**METALWORK**

**BILL NO. 2**

Note

All work according to the latest "FIVE STAR SPECIFICATION OF SAPS"

**SUPPLEMENTARY PREAMBLES**

Descriptions of bolts, anchors, etc

Descriptions of bolts shall be deemed to include nuts and washers

Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete

Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described

Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres

Aluminium doors, windows, etc

Doors and windows shall comply with AAAMSA design criteria

Glazing shall comply with SAGGA regulations. Glass shall be laminated performance glass as shown on the window schedules/drawings appended to these bills of quantities. Glass thickness shall comply with SAGGA regulations irrespective of thickness shown on the schedules/drawings

Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed

**Carried to Collection**

R

Section No. 2  
Section 2; Building Works  
Bill No. 2  
Metalwork

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For purpose made windows and doors, refer to drawings annexed to these bills of quantities

The following certificates shall be provided prior to commencement of site work:

1. A copy of the relevant AAAMSA Performance Test Certificate from the **manufacturer/contractor** supplying the architectural aluminium product
2. A Certificate of Conformance confirming that anodizing of powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively
3. A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process
4. A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have installed in the mandatory areas and that each individual pane of safety glazing material been permanently marked
5. A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against de lamination and colour degradation for a period of not less than five years

**GALVANISED STEEL GATES. SCREENS. ETC.**

Burglar proofing with 30 x 6mm mild steel angle steel flat bar frame with 12mm diameter mid steel round bars fixed to of frame spaces max. 100mm c/c, with bars supported with horizontal 30 x 6mm flat bar for every 1m high spaced equally. Frame to be fixed to inside of window with M10 bolts max. every 300mm of height. Top and bottom of frame to be fixed inside of window frame max. every 350mm of width. Installation must comply with SANS 10400

1 Window 550 x 1240mm high

No

4

Carried to Collection

R

Section No. 2  
Section 2: Building Works  
Bill No. 2  
Metalwork



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2	Window 580 x 650mm high  <u>Burglar proofing with 30 x 6mm mild steel angle steel flat bar frame with 12mm diameter mild steel round bars fixed to of frame spaces max. 100mm c/c. with bars supported with horizontal 30 x 6mm flat bar for every 1m high spaced equally. Frame to be fixed with M10 bolts max. every 300mm of height. Top and bottom of frame to be fixed inside of window frame max. every 350mm of width. Installation must comply with SANS 10400</u>	No	1
3	Door 813 x 2083mm high	No	3
4	Opening 2450 x 3000mm high  <b><u>BALLISTIC GLASS</u></b>  <u>35mm Thick ballistic glass complete with natural anodized frame as per manufacture specification (Refer to Window Schedule)</u>	No	1
5	Window 550 x 1240mm high	No	4

Carried to Collection

R

Section No. 2  
Section 2: Building Works  
Bill No. 2  
Metalwork



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Section No. 2

Bill No. 2

Metalwork

**COLLECTION**

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R

Section No. 2  
Section 2: Building Works  
Bill No. 2  
Metalwork



Item No

Quantity

Rate

Amount

**SECTION 2**

**PAINTWORK**

**BILL NO. 3**

**SUPPLEMENTARY PREAMBLES**

**PREPARATORY WORK TO EXISTING WORK**

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

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 suitable filler and finished smooth

General

Where a specific trade name is specified, the primer and/or undercoats must be of the same product or other approved. All coats and paints must be applied in accordance with the manufactures instructions.

**PAINTWORK TO NEW WORK**

**ON METAL SURFACES**

"Plascon" or similar approved

Carried to Collection

R

Section No. 2  
Section 2: Building Works  
Bill No. 3  
Paintwork



1	<p><u>Spot priming bare metal surface. one coat metal care galvanised iron primer (GIP1) and apply two coat super universal enamel paint (NY1)</u></p> <p>On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)</p>	m <sup>2</sup>	16		
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Carried to Collection

R

Section No. 2  
Section 2: Building Works  
Bill No. 3  
Paintwork



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	Page No	Amount
Section No. 2 Bill No. 3 Paintwork		
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**SECTION SUMMARY - Section 2: Building Works**

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1	Alterations	39	
2	Metalwork	43	
3	Paintwork	46	
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Section No. 2 Section 2: Building Works			



Item  
No

Quantity

Rate

Amount

**SECTION 3**

**EXTERNAL WORKS**

**BILL NO. 1**

NOTE: All trenches shall be backfilled with material selected from trench excavations and compacted to a minimum density of 100% Mod AASHTO

NOTE: All sleeves to be laid in bedding class B

**SUPPLEMENTARY PREAMBLES**

Nature of the ground

The Tenderer shall acquaint himself or personal examination of the nature of the ground. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" and where conditions of a more difficult character are indicated these are separately measured

Subterranean water

No subterranean water is expected

Carting away of excavated material

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site

No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling "Soft rock" and "hard rock" shall be as defined in "Earthworks"

**REMOVAL OF EXISTING**

Carried to Collection

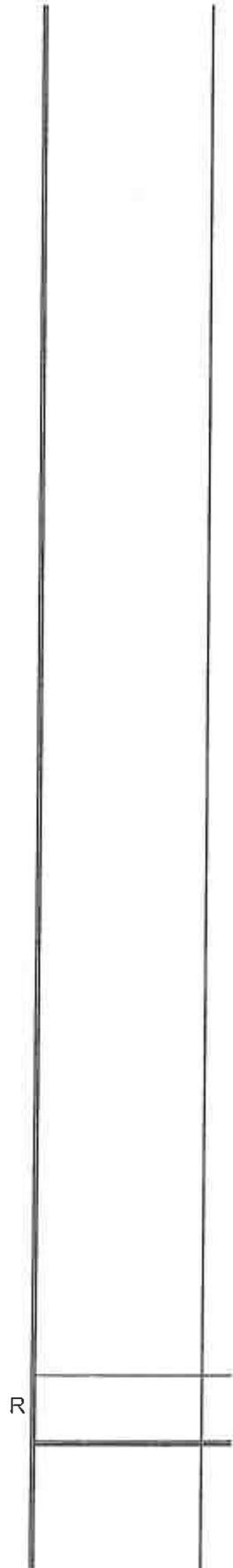
R

Section No. 3  
Section 3; External Works  
Bill No. 1  
Road Works, Parking and Paving

174



	<u>Taking down and removing fence with posts, droppers, gates, etc. complete with concrete post bases including backfilling and compaction of holes</u>		
1	3000mm High steel mesh fence	m	644
2	1500 x 2700mm High steel mesh pedestrian gate	No	1
3	6000 x 1700mm High motorised sliding gate	No	1
<b><u>EARTHWORKS</u></b>			
<b><u>SITE CLEARANCE</u></b>			
<u>Site clearance</u>			
4	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc. and trees not exceeding 200mm girth	m <sup>2</sup>	645
<b><u>EXCAVATIONS ETC</u></b>			
<u>Excavation in earth not exceeding 2m deep</u>			
5	Trenches	M3	290
6	Holes	M3	44
<u>Extra over trench and hole excavations in earth for excavation in</u>			
7	Soft rock	M3	33
8	Hard rock	M3	17
<u>Extra over all excavations for carting away</u>			
9	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	M3	215
<u>Risk of collapse of excavations</u>			
10	Sides of trench and hole not exceeding 1,5m deep	m <sup>2</sup>	1,168
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Item			
	<u>Keeping excavations free of water</u>		
11	Keeping excavations free of all water		
	<b><u>FILLING ETC</u></b>		
	<u>Earth filling obtained from the excavations and/or prescribed stock pile on site. compacted to 95% Mod AASHTO density</u>		
12	Backfilling to trenches, holes, etc	M3	75
	<b><u>SOIL POISONING</u></b>		
	<u>Approved soil poisoning and ant poisoning mixed and applied in the proportion as per manufacturers specifications</u>		
13	To bottom and sides of trenches etc	m <sup>2</sup>	1,555
	<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>		
	<u>15mmMPa/19mm concrete</u>		
14	Surface blinding under surface beds	M3	22
	<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>		
	<u>25mmMPa/19mm concrete</u>		
15	Strip footings	M3	97
16	Bases	M3	15
	<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>		
17	Making and testing 150 x 150 x 150mm concrete strength test cube	No	4
	<b><u>MASONRY</u></b>		
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**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

User note

*The following preamble generally applies for works in hot and humid coastal areas*

Bagged and sealed walls

Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating

Face bricks

Bricks shall be ordered timeously to obtain uniformity in size and colour

Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

**BLOCKWORK**

Concrete masonry units

Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7MPa

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Wall ties for blockwork

Wall ties shall be polypropylene ties complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other

Blockwork

Blockwork shall comply with SANS 10145 "Concrete Masonry Construction"

Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole

Standard complementary blocks

Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary

**DECORATIVE BLOCKS**

Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour

**FOUNDATIONS**

**BRICKWORK**

Brickwork of NFX bricks in class II mortar

18 One brick walls m<sup>2</sup> 290

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	<u>Mass brickwork of NFP bricks in class II mortar</u>		
19	Rectangular shaped piers	M3	14
	<b><u>SUPERSTRUCTURE</u></b>		
	<b><u>BRICKWORK</u></b>		
	<u>Brickwork of NFP bricks in class II mortar</u>		
20	One brick walls	m <sup>2</sup>	1,275
	<u>Mass brickwork of NFP bricks in class II mortar</u>		
21	Rectangular shaped piers	M3	60
	<u>Brick-on-edge header course copings, sills, etc of "Terracotta colour" or similar approved face bricks, pointed with recessed joints on all exposed faces</u>		
22	220mm Brick-on-edge on top of one brick walls	m	644
23	220mm Brick-on-edge on top of mass brickwork	m	140
	<b><u>BRICKWORK SUNDRIES</u></b>		
	<u>2,5mm Brickwork reinforcement</u>		
24	150mm Wide reinforcement built in horizontally, in foundations	m	854
25	150mm Wide reinforcement built in horizontally	m	3,744
	<u>Joint forming material in movement joints</u>		
26	20mm Bitumen impregnated fibre board built in vertically between brick skins	m <sup>2</sup>	173
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	<u>Weep holes</u>		
27	50mm Diameter uPVC weep hole drilled through one brickwall	No	957
	<b><u>REINFORCEMENT</u></b>		
	<u>Mild steel reinforcement</u>		
28	8mm Diameter	kg	355
29	10mm Diameter	kg	406
	<u>High steel reinforcement</u>		
30	10mm Diameter	kg	2,288
31	12mm Diameter	kg	217
	<b><u>FENCING</u></b>		
	<u>User notes</u>		
	In high corrosion areas fence posts, stays, gates, etc are to be galvanised		
	<u>Galvanised and carbon hardened double skin clamber proof steel mesh panels with marine fusion bond (top coat) complete with mild steel post space at 3390mm c/c. Post shall include locking recess mechanism to secure panel. Mesh strand to have 3mm minimum diameter, cut resistance and with an aperture not exceeding 12 x 12mm. complete including excavations, cartaway, preparation of ground etc. (Refer to Annexure 12 - Perimeter Fence Detail 1)</u>		
32	1800mm High fence on-top of 620mm boundary wall	m	134

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