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14.7.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the **contractor**

14.8 Payments made by the guarantor to the **employer** in terms of the fixed or variable **construction guarantee** shall not prejudice the rights of the **employer** or **contractor** in terms of this **agreement**

14.9 Should the **contractor** fail to furnish the **security** in terms of 14.2, the **employer**, in his sole discretion and without notification to the **contractor**, is entitled to change the **contractor's** selected form of **security** to that of a ten per cent (10%) payment reduction of the value certified in the **payment certificate** (excluding VAT), whereafter 14.7 shall be applicable

Fixed:..... Value related:..... Time related:.....

Item

EXECUTION

14

A15 PREPARATION FOR AND EXECUTION OF THE WORKS

Clause 15.0

Clause 15.1.1 is amended by replacing it with:

No Clause

Clause 15.1.2 is amended by replacing it with:

The **security** selected in terms of 14.0

Clause 15.1 is amended by the addition of the following clause:

15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty one (21) **calendar days** of **commencement date**

Clause 15.2.1 is amended by replacing it with the following clause:

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"Give the contractor possession of the site within forty (40) working days of the contractor complying with the terms of 15.1.4 where a construction work permit is required in terms of the works or within ten (10) working days where a construction work permit is not a requirement in terms of the works" Fixed:..... Value related:..... Time related:.....		Item
15	A16 ACCESS TO THE WORKS Clause 16.0 Fixed:..... Value related:..... Time related:.....	Item
16	A17 CONTRACT INSTRUCTIONS Clause 17.0 Clause 17.1.11 is amended by deleting the words "and the appointment of nominated and selected subcontractors" Fixed:..... Value related:..... Time related:.....	Item
17	A18 SETTING OUT OF THE WORKS Clause 18.0 Fixed:..... Value related:..... Time related:.....	Item
18	A19 ASSIGNMENT Clause 19.0 Fixed:..... Value related:..... Time related:.....	Item
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19	A20 NOMINATED SUB-CONTRACTORS Clause 20.0 Clause 20.1.3 is amended by replacing it with the following: No Clause Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums Fixed:..... Value related:..... Time related:.....	Item	
20	A21 SELECTED SUBCONTRACTORS Clause 21.0 Clause 21 is amended by replacing it with: No Clause Fixed:..... Value related:..... Time related:.....	Item	
21	A22 EMPLOYER'S DIRECT CONTRACTORS Clause 22.0 Fixed:..... Value related:..... Time related:.....	Item	
22	A23 CONTRACTOR'S DOMESTIC SUBCONTRACTORS Clause 23.0 Fixed:..... Value related:..... Time related:.....	Item	
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COMPLETION

23 **A24 PRACTICAL COMPLETION**

Clause 24.0

Fixed:..... Value related:..... Time
related:.....

Item

24 **A25 WORK'S COMPLETION**

Clause 25.0

Fixed:..... Value related:..... Time
related:.....

Item

25 **A26 FINAL COMPLETION**

Clause 26.0

Clause 26.1.2is amended by inserting "#" next to 26.1.2

Fixed:..... Value related:..... Time
related:.....

Item

26 **A27 LATENT DEFECTS LIABILITY PERIOD**

Clause 27.0

Fixed:..... Value related:..... Time
related:.....

Item

27 **A28 SECTIONAL COMPLETION**

Clause 28.0

Fixed:..... Value related:..... Time
related:.....

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28	A29 REVISION OF DATE FOR PRACTICAL COMPLETION Clause 29.0 Clause 29.2.5 is amended by replacing it with: No clause Fixed:..... Value related:..... Time related:.....	Item
29	A30 PENALTY FOR NON-COMPLETION Clause 30.0 Fixed:..... Value related:..... Time related:.....	Item
<u>PAYMENT</u>		
30	A31 INTERIM PAYMENT TO THE CONTRACTOR	
	Clause 31.0	
31	Clause 31.5.2 is amended by replacing "14.7.1"t with "14.0" Clause 31.8 is amended by replacing it with the following two alternative clauses: Alternative A 31.8(A) Where a security is selected in terms of 14.1; 14.5 or 14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments: 31.8(A).1 Ninety five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion 31.8(A).2 Ninety seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion	
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31.8(A).3 Ninety nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6

31.8(A).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**

Alternative B

31.8(B) Where **security** is a payment reduction in terms of 14.7 the value of the **works** in terms of 31.4.1 and **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(B).1 Ninety per cent (90%) of such value in interim **payment certificates** issued up to the date of **practical completion**

31.8(B).2 Ninety seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**

31.8(B).3 Ninety nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6

31.8(B).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**

Clause 31.12 is amended by deleting the following:

- 32 Payment shall be subject to the **employer** giving the **contractor** a tax invoice for the amount due

Fixed: _____ Value related: _____ Time related: _____

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33	A32 ADJUSTMENT TO THE CONTRACT VALUE Clause 32.0 Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence: "due to no fault of the contractor " Fixed:..... Value related:..... Time related:.....	Item	
34	A33 RECOVERY OF EXPENSE AND LOSS Clause 33.0 Fixed:..... Value related:..... Time related:.....		
35	A34 FINAL ACCOUNT AND FINAL PAYMENT Clause 34.0 Clause 34.1 is amended by removing "#" next to 34.1 Clause 34.2 is amended by removing "#" next to 34.2 Clause 34.8 is amended by deleting the words "where security as a fixed construction guarantee in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1" Clause 34.13 is amended by replacing "seven (7) calendar days " with "twenty one (21) calendar days " and deleting the words "subject to the employer giving the contractor a tax invoice for the amount due" Fixed:..... Value related:..... Time related:.....	Item	
36	A35 PAYMENT TO OTHER PARTIES Clause 35.0 Fixed:..... Value related:..... Time related:.....	Item	
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CANCELLATION

**A36 CANCELLATION BY EMPLOYER -
CONTRACTOR'S DEFAULT**

Clause 36.0

Clause 36.1 is amended by the addition of the following clauses:

36.1.3 refuses or neglects to comply strictly with any of the conditions of contract

36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa

36.1.5 in the judgement of the **employer**, has engaged in **corrupt** or **fraudulent practices** in competing for or in executing the contract

Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "**principal agent**" with "**employer**"

Clause 36.0 is amended by the addition of the following clause:

36.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed:..... Value related:..... Time related:.....

Item

37 **A37 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE**

Clause 37.0

Clauses 37.3.5 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"

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Clause 37.0 is amended by the addition of the following clause:

37.5 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed:..... Value related:..... Time related:.....

Item

38

A38 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT

Clause 38.0

Clauses 38.5.4 is amended by replacing "ninety (90) with "one hundred and twenty (120)"

Clause 38.0 is amended by the addition of the following clause:

38.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed:..... Value related:..... Time related:.....

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39 **A39 CESSATION - CANCELLATION OF THE WORKS**

Clause 39.0

Clauses 39.3.5 is amended by the addition of the following at the end of the sentence "within one hundred and twenty (120) **working days** of completion of such a report"

Fixed:..... Value related:..... Time related:.....

Item

40 **A40 DISPUTE SETTLEMENT**

Clause 40.0

Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"

Clause 40.6 is amended by removing the reference to:

No clause

Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:

Whether or not mediation resolves the dispute, the parties shall bear their own cost concerning the mediation and equally share the costs of the **mediator** and related costs

Fixed:..... Value related:..... Time related:.....

Item

SUBSTITUTE PROVISIONS

41 **A41 STATE CLAUSES**

Clause 41.0

Fixed:..... Value related:..... Time related:.....

Item

CONTRACT VARIABLES

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THE SCHEDULE

42 **A42 PRE-TENDER INFORMATION**

Clause 42.0

Tenderers are referred to the Contract Data

Fixed:..... Value related:..... Time
related:.....

Item

SECTION B: JBCC PRELIMINARIES

1: DEFINITIONS AND INTERPRETATION

43 ***Definitions and interpretation***

See also clause A1.0 of Section A for additional an/or
amended definitions which shall apply to this Section

Fixed:..... Value related:..... Time
related:.....

Item

2: DOCUMENTS

44 ***Checking of documents***

Fixed:..... Value related:..... Time
related:.....

Item

45 ***Provisional bills of quantities***

Fixed:..... Value related:..... Time
related:.....

Item

46 ***Availability of construction documentation***

Fixed:..... Value related:..... Time
related:.....

Item

47 ***Interests of agents***

Fixed:..... Value related:..... Time
related:.....

Item

48 ***Priced documents***

Fixed:..... Value related:..... Time
related:.....

Item

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49	Tender submission Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Invitation to Bid: (PA-32)" Fixed:..... Value related:..... Time related:.....	Item
3: THE SITE		
50	Defined works area Fixed:..... Value related:..... Time related:.....	Item
51	Geotechnical investigation Fixed:..... Value related:..... Time related:.....	Item
52	Inspection of the site Fixed:..... Value related:..... Time related:.....	Item
53	Existing premises occupied Fixed:..... Value related:..... Time related:.....	Item
54	Previous work - dimensional accuracy Fixed:..... Value related:..... Time related:.....	Item
55	Previous work - defects Fixed:..... Value related:..... Time related:.....	Item
56	Services - known Fixed:..... Value related:..... Time related:.....	Item
57	Services - known Fixed:..... Value related:..... Time related:.....	Item
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58	Protection of trees Fixed:..... Value related:..... Time related:.....	Item
59	Articles of value Fixed:..... Value related:..... Time related:.....	Item
60	Inspection of adjoining properties Fixed:..... Value related:..... Time related:.....	Item
<u>4: MANAGEMENT OF CONTRACT</u>		
61	Management of the works Fixed:..... Value related:..... Time related:.....	Item
62	Programme for the works Fixed:..... Value related:..... Time related:.....	Item
63	Progress meetings Fixed:..... Value related:..... Time related:.....	Item
64	Technical meetings Fixed:..... Value related:..... Time related:.....	Item
65	Project Steering Committee meetings The contractor must provide access to the site and a dedicated and secured meeting space for project steering committee members for the duration of the project. Fixed:..... Value related:..... Time related:.....	Item
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66	Labour and plant records Fixed:..... Value related:..... Time related:.....	Item
<u>5: SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>		
67	Samples of materials Fixed:..... Value related:..... Time related:.....	Item
68	Workmanship samples Fixed:..... Value related:..... Time related:.....	Item
69	Shop drawings Fixed:..... Value related:..... Time related:.....	Item
70	Compliance with manufacturer's instructions Fixed:..... Value related:..... Time related:.....	Item
<u>6: TEMPORARY WORKS AND PLANT</u>		
71	Deposits and fees Fixed:..... Value related:..... Time related:.....	Item
72	Enclosure of the works Fixed:..... Value related:..... Time related:.....	Item
73	Advertising Fixed:..... Value related:..... Time related:.....	Item
74	Plant, equipment, sheds and offices Fixed:..... Value related:..... Time related:.....	Item
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75	Main notice board Fixed:..... Value related:..... Time related:.....	Item
76	Subcontractors' notice board Fixed:..... Value related:..... Time related:.....	Item
<u>7: TEMPORARY SERVICES</u>		
77	Location Fixed:..... Value related:..... Time related:.....	Item
78	Water Fixed:..... Value related:..... Time related:.....	Item
79	Electricity Fixed:..... Value related:..... Time related:.....	Item
80	Telecommunication facilities Fixed:..... Value related:..... Time related:.....	Item
81	Ablution facilities Fixed:..... Value related:..... Time related:.....	Item
<u>8: PRIME COST AMOUNTS</u>		
<u>9: ATTENDANCE ON N/S SUBCONTRACTORS</u>		
82	General attendance Fixed:..... Value related:..... Time related:.....	Item
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83	Special attendance Fixed:..... Value related:..... Time related:.....	Item
84	Commissioning - fuel, water and electricity Fixed:..... Value related:..... Time related:.....	Item
10: FINANCIAL ASPECTS		
85	Statutory taxes, duties and levies Fixed:..... Value related:..... Time related:.....	Item
86	Payment for preliminaries Fixed:..... Value related:..... Time related:.....	Item
87	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
88	Payment certificate cash flow Fixed:..... Value related:..... Time related:.....	Item
11: GENERAL		
89	Protection of the works Fixed:..... Value related:..... Time related:.....	Item
90	Protection / isolation of existing / sectionally occupied works Fixed:..... Value related:..... Time related:.....	Item
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91	Security of the works Fixed:..... Value related:..... Time related:.....	Item
92	Notice before covering work Fixed:..... Value related:..... Time related:.....	Item
93	Disturbance Fixed:..... Value related:..... Time related:.....	Item
94	Environmental disturbance Fixed:..... Value related:..... Time related:.....	Item
95	Works cleaning and clearing Fixed:..... Value related:..... Time related:.....	Item
96	Vermin Fixed:..... Value related:..... Time related:.....	Item
97	Overhand work Fixed:..... Value related:..... Time related:.....	Item
98	Instruction manuals and guarantees Fixed:..... Value related:..... Time related:.....	Item
99	As built information Fixed:..... Value related:..... Time related:.....	Item
100	Tenant installations Fixed:..... Value related:..... Time related:.....	Item
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12: SCHEDULE OF VARIABLES

101 ***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
NO

12.1.2 Availability of construction documentation

[2.3] *Construction documentation is complete*
YES

12.1.3 Interest of agents

[2.4] Details: None

12.1.4 Defined works area

[3.1] Details: As per attached tender drawings issued

12.1.5 Geotechnical investigation

[3.2] Details: As per the attached document

12.1.6 Existing premises occupied

[3.4] Specific requirements: Yes

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12.1.7 **Previous work - dimensional accuracy**

[3.5] Details: Yes, existing fence/boundary walls, driveway and parking area.

12.1.8 **Previous work - defects**

[3.6] Details: Protection of existing fence/boundary walls, driveway and parking area

12.1.9. **Services - known**

[3.7] Details: Yes, existing services within the site

12.1.10 **Protection of trees**

[3.9] Specific requirements: N/A

12.1.11 **Inspection of adjoining properties**

[3.11] Specific requirements: Yes, existing facilities next to the site

12.1.12 **Enclosure of the works**

[6.2] Specific requirements: Contractor to ensure the works is enclosed

12.1.13 **Offices**

[6.4.3] Specific requirements:
The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent.

12.1.14 **Main notice board**

[6.5] Specific requirements:
The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board.

12.1.15 **Subcontractors' notice board**

[6.6] Specific requirements: N/A

12.1.16 **Water**

[7.2] Option A (by contractor)
YES

Option B (by employer - free of charge)
NO

Option C (by employer - metered)
NO

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Brought Forward 12.1.17 Electricity [7.3] Option A (by contractor) YES Option B (by employer - free of charge) NO Option C (by employer - metered) NO 12.1.18 Telecommunications [7.4] Telephone YES Facsimile NO E-mail YES 12.1.19 Ablution facilities [7.5] Option A (by contractor) YES Option B (by employer) NO 12.1.20 Protection of existing/sectionally occupied works [11.2] Protection is required Yes 12.1.21 Special attendance [9.2] Subcontractor (1) details: N/A Subcontractor (2) details: N/A Subcontractor (3) details: N/A Subcontractor (4) details: N/A 12.1.22 Protection of works [11.1] Specific requirements: None 12.1.23 Disturbance [11.5] Specific requirements: Yes, OHS to confirm on the disturbance			R
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12.1.24 **Environmental disturbance**
[11.6] Specific requirements: None

12.2 POST TENDER INFORMATION

12.2.1 **Payment of preliminaries**
[10.2] Option A (prorated)

Option B (calculates)

12.2.2 **Adjustment of preliminaries**
[10.3] Option A (three categories)

Option B (detailed breakdown)

12.2.3 **Additional agreed preliminaries items**
Details:

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SECTION C: SPECIFIC PRELIMINARIES

Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item

102 **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

103 **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: Partic Edition 2.0" is issued together with the drawings and shall drawings and the **bills of quantities / lump sum docume**

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104	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	
105	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	
106	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	
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107	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	
108	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	
109	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	
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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 of Public Works and Infrastructure 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

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111	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
112	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
113	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
114	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
Carried Forward		R
Bill No. 1 Preliminaries		

-38-

m. B

SS

126

Brought Forward

R

115

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

116

C11 : OCCUPATIONAL HEALTH AND SAFETY ACT

Provision for pricing of the Occupational Health and Safety Act, Construction Regulation and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder and no additional claims in this regard shall be entertained. **(Amount brought forward from "Occupation Health and Safety" Bill of Quantities - refer to Annexure F)**

Fixed:..... Value related:..... Time related:.....

Item

117

C12 COMMUNITY LIAISON OFFICER (CLO)

The **contractor** shall employ a Community Liaison Officer (CLO) for the full duration of the contract. Allow an amount of R10 000,00 (Ten Thousand Rand) per month for CLO remuneration

Fixed:..... Value related:..... Time related:.....

Item

Carried Forward

R

Bill No. 1
Preliminaries

Brought Forward

R

118 **C13 IMPLEMENTATION OF LABOUR INTENSIVE WORK**

The **contractor** shall employ local labourers as per part C3: Scope of Works for work identified and marked as "LI" on these bills of quantities. The **contractor** shall enter into an employment agreement with all workers and provide certified copies of such agreements and identity documents of the workers to the principal agent within 28 **calender days**

Provision for pricing of compliance with the aforementioned is made under this clause and it is explicitly pointed out that all requirements in respect of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained

Fixed:..... Value related:..... Time related:.....

Item

119 **C14 USE OF LOCAL SMME's**

It is the requirement of the **employer** that the **contractor** enhances the use of local Small, Micro and Medium Enterprises (SMME's) involved in the project. This is required to be done through the use of both traditional building techniques and **labour intensive construction techniques** careful and considered construction planning

Provision for pricing of compliance with the aforementioned is made under this clause and it is explicitly pointed out that all requirements in respect of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained

(a) SMME's involvement of at least 30% of the contract value to be sourced from within 50km radius of the project site

Fixed:..... Value related:..... Time related:.....

Item

Carried to Summary

R

Bill No. 1
Preliminaries

Item
No

Unit Quantity Rate Amount

BILL NO. 2

EARTHWORKS (PROVISIONAL)

(CPAP WORK GROUP NO. 104 UNLESS OTHERWISE STATED)

PREAMBLES

The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyors", and Supplementary Preambles for further description and amplification of work in this section

SUPPLEMENTARY PREAMBLES

Nature of ground

The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock"

The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock"

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

Filling

Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material

Carried Forward

R

Bill No. 2
Earthworks

Brought Forward				R
<u>Testing</u>				
Prices for filling are to include for all necessary density tests in accordance with SABS 1200D				
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
1	Trenches (LI)	m3	2 545	
2	Bases (LI)	m3	11	
3	Lift shaft base (LI)	m3	15	
4	Reduced levels under floors (LI)	m3	777	
5	Edge thickening (LI)	m3	28	
<u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 98% Mod. AASHTO density</u>				
6	Not exceeding 500mm deep for placing and removing formwork to walls 300mm away from excavated face (LI)	m2	1 279	
7	Exceeding 500mm and not exceeding 1500mm deep for placing and removing formwork to walls 300mm away from excavated face (LI)	m2	2 558	
8	Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to walls 300mm away from excavated face (LI)	m2	755	
<u>Extra over trench and hole excavations in earth for excavation in</u>				
9	Soft rock (LI)	m3	254	
10	Hard rock	m3	127	
<u>Extra over all excavations for carting away</u>				
11	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	2 572	
Carried Forward				R
Bill No. 2 Earthworks				



Proposed New Makhaza Police Station
Potion On ERF 75169 OF 59037 (Khayelitsha)

Brought Forward			R
<u>Risk of collapse of excavations</u>			
12	Sides of trench and hole excavations not exceeding 1,5m deep	m2	4 592
<u>Keeping excavations free of water</u>			
13	Keeping excavations free of all water other than subterranean water	Item	
14	Manage subterranean water as necessary, across all applicable construction zones	Item	
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density.</u>			
15	Backfilling to trenches, holes, etc. (LI)	m3	804
<u>Earth filling of G5 material supplied by contractor from commercial sources in accordance with SABS 1200 DM compacted to 98% Mod AASHTO density in 150mm thick layers</u>			
16	Under floors, steps, pavings, etc. in sub-grade improvement (LI)	m3	777
17	Under bases in sub-grade improvement (LI)	m3	9
18	Under concrete bench surface slabs, etc. (LI)	m3	9
19	Under strip footings in sub-grade improvement (LI)	m3	425
<u>Earth filling of Dump Rock material to geotechnical engineers specification supplied by contractor from commercial sources</u>			
20	Under strip footings in sub-grade improvement (LI)	m3	425
<u>Compaction of surfaces</u>			
21	Compaction of ground surface under floors, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density	m2	2 589
Carried Forward			R
Bill No. 2 Earthworks			

Proposed New Makhaza Police Station
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Brought Forward			
22	Compaction of ground surface under strip footings, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	1 416
23	Compaction of ground surface under bases, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	30
<u>Prescribed density tests on filling</u>			
24	"Modified AASHTO Density" test	No	245
<u>SOIL POISONING</u>			
<u>Approved anti-termite soil insecticide applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years including forming and poisoning shallow furrows along sides of foundation walls, etc., filling in and ramming:</u>			
25	Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc. and ramming (LI)	m2	2 589
26	To sides and bottoms of trench excavations (LI)	m2	6 038

Carried to Summary

Bill No. 2
Earthworks

Item
No

Unit Quantity Rate Amount

BILL NO. 3

**CONCRETE, FORMWORK AND
REINFORCEMENT**

**(CPAP WORK GROUP NO. 110 UNLESS
OTHERWISE STATED)**

PREAMBLES

The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyors", and Supplementary Preambles for further description and amplification of work in this section

SUPPLEMENTARY PREAMBLES

Cost of tests

The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" 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 tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)

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 the newly constructed work is able to support itself

Carried Forward

R

Bill No. 3
Concrete, Formwork and Reinforcement

Brought Forward				R
Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described				
Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described				
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 of the sides of the excavations, provision for which is made in "Earthworks"				
<u>UNREINFORCED CONCRETE AGAINST EXCAVATED SURFACES</u>				
<u>15MPa concrete</u>				
1	Blinding under strip footings, bases and surface beds, etc(LI)	m3	191	
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>30MPa/19mm concrete</u>				
2	Strip footings (LI)	m3	361	
3	Bases (LI)	m3	4	
4	Lift Shaft base (LI)	m3	5	
5	Edge thickening (LI)	m3	19	
6	Surface beds on waterproofing (LI)	m3	337	
7	Bench slabs (LI)	m3	3	
8	Extra over 30MPa concrete for 'Penetron' admixture to concrete (Note: This is to be added by the concrete supplier and not to be mixed on site)	m3	5	
Carried Forward				R
Bill No. 3 Concrete, Formwork and Reinforcement				



Brought Forward			
<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>			
<u>30MPa/19mm concrete</u>			
9	Columns (LI)	m3	3
10	RC Walls in foundations (LI)	m3	12
11	Lift shaft walls in foundations (LI)	m3	3
12	RC walls (LI)	m3	57
13	Lift shaft walls (LI)	m3	31
14	Slabs (LI)	m3	360
15	Lift Shaft Roof Slab (LI)	m3	4
16	Beams (LI)	m3	6
17	Ring beams (LI)	m3	134
18	Stairs	m3	6
19	Concrete infill to cavity walls in foundations (cavity walls elsewhere measured) (LI)	m3	35
20	Concrete infill to cavity walls for superstructure (cavity walls elsewhere measured) (LI)	m3	155
21	Extra over 30MPa concrete for 'Penetron' admixture to concrete (Note: This is to be added by the concrete supplier and not to be mixed on site)	m3	3
<u>TEST CUBES</u>			
22	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	256
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
23	Surface beds, slabs, etc. (LI)	m2	4 020
Carried Forward			
Bill No. 3 Concrete, Formwork and Reinforcement			

R

R

Brought Forward

R

(CPAP WORK GROUP NO. 111 UNLESS OTHERWISE STATED)

ROUGH FORMWORK (DEGREE OF ACCURACY II)

Rough formwork to sides

24	Strip footings (Provisional) (LI)	m2	1 025
25	Reinforced concrete walls in foundation (LI)	m2	83
26	Lift shaft walls in foundation (LI)	m2	19
27	Edges, risers, ends and reveals not exceeding 300mm high or wide (LI)	m	491

SMOOTH FORMWORK (DEGREE OF ACCURACY II)

Smooth formwork to sides

28	Upstand beams (LI)	m2	959
29	Columns, propped up not exceeding 3.5m high (LI)	m2	26
30	Columns, propped up exceeding 3.5m high and not exceeding 5m high (LI)	m2	10
31	Columns, propped up exceeding 5m high and not exceeding 6.5m high (LI)	m2	10
32	Columns, propped up exceeding 6.5m high and not exceeding 8m high (LI)	m2	4
33	Reinforced concrete walls, propped up not exceeding 3,5m high (LI)	m2	395
34	Inner face of lift shaft walls to lift shaft size 2800 x 3632mm on plan, exceeding 5m and not exceeding 10m high	m2	89
35	Outer face of lift shaft walls to lift shaft size 2500 x 1660mm on plan, exceeding 5m and not exceeding 10m high	m2	112

Carried Forward

R

Bill No. 3
Concrete, Formwork and Reinforcement

**Proposed New Makhaza Police Station
Potion On ERF 75169 OF 59037 (Khayelitsha)**

Brought Forward			R
36	Edges, risers, ends and reveals not exceeding 300mm high or wide (LI)	m 692	
37	Sloping and stepped out edges of stairs not exceeding 300mm high extreme	m 11	
<u>Smooth formwork to soffits</u>			
38	Slabs, propped up exceeding 1.5m and not exceeding 3.5m high (LI)	m2 23	
39	Slabs exceeding 250mm thick and not exceeding 500mm thick, propped up exceeding 1.5m and not exceeding 3.5m high (LI)	m2 1 275	
40	Slabs exceeding 250mm thick and not exceeding 500mm thick, propped up exceeding 3.5m and not exceeding 5m high (LI)	m2 96	
41	Lift Shaft slabs exceeding 250mm thick and not exceeding 500mm thick, propped up exceeding 6.5m and not exceeding 8m high (LI)	m2 15	
42	Landings (LI)	m2 10	
43	Stair with sloping soffits (LI)	m2 13	
<u>Smooth formwork to sides and soffits</u>			
44	Beams, propped up exceeding 1.5m but not exceeding 3.5m high (LI)	m2 13	
<u>Boxing in smooth formwork to form</u>			
45	25 x 25mm Chamfer along top or bottom edge (LI)	m 563	
46	25 x 25mm Vertical chamfer at corner (LI)	m 199	
<u>Special formwork to form</u>			
47	Opening exceeding 6m and not exceeding 7m girth through 230mm thick wall (LI)	No 4	
<u>MOVEMENT JOINTS ETC</u>			

Carried Forward

R

Bill No. 3
Concrete, Formwork and Reinforcement

Brought Forward			
	<u>10 x 150mm expanded polyethylene joint former with tear off strip and 10 x 10mm two-part grey polysulphide sealing compound</u>		
48	In isolation joints including raking out expansion joint filler as necessary (LI)	m	63
	<u>Two sheets of tempered hardboard (smooth sides together) to form slip joint between abutting horizontal concrete and brickwork surfaces</u>		
49	Not exceeding 300mm wide (LI)	m	688
	<u>Saw-cut joints</u>		
50	3 x 40mm Saw-cut joints in top of concrete	m	663
	<u>(CPAP WORK GROUP NO. 114 UNLESS OTHERWISE STATED)</u>		
	<u>REINFORCEMENT (PROVISIONAL)</u>		
	<u>Mild and high tensile steel reinforcement to structural concrete work</u>		
51	Various diameter bars (LI)	t	118,33
	<u>Fabric reinforcement</u>		
52	Type Ref. 245 fabric reinforcement in concrete surface beds, etc (LI)	m2	2 589
53	Type Ref. 289 fabric reinforcement in between skins of one brick walls (one brick wall elsewhere measured) (LI)	m2	2 283

Carried to Summary

Bill No. 3
Concrete, Formwork and Reinforcement

Item
No

Unit Quantity Rate Amount

BILL NO. 4

MASONRY

**(CPAP WORK GROUP NO. 116 UNLESS
OTHERWISE STATED)**

PREAMBLES

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SUPPLEMENTARY PREAMBLES

BRICKWORK

Samples

Samples of masonry building units to be provided before construction commences

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

Hollow walls etc

Descriptions of hollow walls and brickwork in two skins shall be deemed to include wall ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole

Carried Forward

R

Bill No. 4
Masonry

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M.B

SS

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Brought Forward

R

Bagged and sealed walls

User Note: The following preamble generally applies for works in hot and humid coastal areas.

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.

All facebrick work is to be protected from other finishing trades during the construction period.

All interior face brickwork is to receive two coats water based silicone sealant at completion including preparatory work as per manufacturer's instructions.

Pointing

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

Reinforced brick lintels

Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous

FOUNDATION (PROVISIONAL)

Brickwork of NFX Imperial Clay bricks in class II mortar

1	230mm brick walls (LI)	m2	642
2	290mm Cavity wall formed of two half brick skins (LI)	m2	635

SUPERSTRUCTURE

Carried Forward

R

Bill No. 4
Masonry

Proposed New Makhaza Police Station
Potion On ERF 75169 OF 59037 (Khayelitsha)

Brought Forward			R
<u>Brickwork of NFX Imperial Clay bricks in class II mortar</u>			
3	115mm brick walls (LI)	m2	1 775
4	115mm brick wall lining to concrete (LI)	m2	116
5	115mm brick wall in beamfilling (LI)	m2	165
6	230mm brick wall (LI)	m2	1 922
7	270mm brick wall (LI)	m2	1
8	290mm Cavity wall formed of two half brick skins with and including 1 layer Ref. 289 fabric reinforcement placed and built in vertical between skins of brickwork (Fabric reinforcement elsewhere measured) (LI)	m2	2 218
9	335mm brick wall (LI)	m2	9
10	Brick piers (LI)	m3	2
11	Extra over brickwork for facebrick in protrusion brick wall (LI)	m2	129
<u>Concrete pre stressed fabricated lintels</u>			
12	110 x 75mm Lintels in lengths not exceeding 3m (LI)	m	752
13	110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4.5m (LI)	m	8
14	110 x 75mm Lintels in lengths exceeding 4.5m and not exceeding 6m (LI)	m	9
<u>BRICKWORK SUNDRIES</u>			
<u>Bagging of 1:3 cement and sand mixture</u>			
15	On brick walls, piers, etc. (LI)	m2	6 767
<u>Joint forming material in movement joints</u>			
16	12mm Bitumen impregnated fibre board built in vertically through brick walls not exceeding 300mm wide (LI)	m	39
Carried Forward			R
Bill No. 4 Masonry			



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Proposed New Makhaza Police Station
Potion On ERF 75169 OF 59037 (Khayelitsha)

Brought Forward				R
<u>Closing cavity</u>				
17	Closing 110mm cavity of hollow wall, half brick wide vertically at reveal or ends (LI)	m	44	
18	Closing 110mm cavity of hollow wall, horizontally with two courses (LI)	m	707	
<u>2.5mm Galvanised brickwork reinforcement</u>				
19	75mm Wide reinforcement built in horizontally (LI)	m	29 465	
20	155mm Wide reinforcement built in horizontally (LI)	m	9 162	
21	230mm Wide reinforcement built in horizontally (LI)	m	174	
<u>Turning pieces</u>				
22	115mm Wide turning pieces to lintels etc. (LI)	m	305	
<u>Galvanised hoop iron cramps, wire ties, etc.</u>				
23	30 x 1,6mm Cramp 500mm long with one end shot pinned to concrete and other end built into brickwork (LI)	No	458	
24	30 x 1,6mm Roof tie 1,5m long with one end built into brickworks and the other end fixed to timber trusses (LI)	No	664	
<u>FACE BRICKWORK</u>				
<u>"Platinum Travertine FBX" or other equally approved face bricks pointed with tinted recessed horizontal and vertical joints</u>				
25	Extra over brickwork for face brickwork in foundations (LI)	m2	87	
26	Extra over brickwork for face brickwork in foundation on both sides of wall (LI)	m2	1	
27	Extra over brickwork for face brickwork (LI)	m2	589	
28	Extra over brickwork for face brickwork on both sides of wall (LI)	m2	1	

Carried Forward

R

Bill No. 4
Masonry

M.B

SS

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Proposed New Makhaza Police Station
Potion On ERF 75169 OF 59037 (Khayelitsha)

Brought Forward			R
<u>"Corojem Nebraska FBS" or other equally approved face bricks pointed with tinted recessed horizontal and vertical joints</u>			
29	Extra over brickwork for face brickwork in single header bond (LI)	m2	51
30	Extra over brickwork for face brickwork in single header bond on both sides of wall (LI)	m2	1
31	Extra over brickwork for face brickwork in Stretcher bond (LI)	m2	1 390
32	Extra over brickwork for face brickwork in stretcher bond on both sides of wall (LI)	m2	2
33	Extra over brickwork for facebrick in protrusion brick wall (LI)	m2	129
34	Extra over brickwork for brick-on-edge shoulder course (LI)	m	317
<u>Brick-on-edge header course copings, sills, etc of "Corojem Nebraska FBS" or other equally approved face bricks pointed with tinted recessed horizontal and vertical joints</u>			
35	110mm Wide sills set sloping and slightly projecting (LI)	m	231
<u>"Buff Travertine FBS" or other equally approved face bricks pointed with tinted recessed horizontal and vertical joints</u>			
36	Extra over brickwork for face brickwork (LI)	m2	4 419
37	Extra over brickwork for face brickwork on both sides of wall (LI)	m2	97
<u>Brick-on-edge header course copings, sills, etc of "Buff Travertine FBS" or other equally approved face bricks pointed with tinted recessed horizontal and vertical joints</u>			
38	110mm Wide sills (LI)	m	231
Carried to Summary			R
Bill No. 4 Masonry			

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N.B

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Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO. 5</u>				
	<u>WATERPROOFING</u>				
	<u>(CPAP WORK GROUP NO. 120 UNLESS OTHERWISE STATED)</u>				
	<u>PREAMBLES</u>				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyors", and Supplementary Preambles for further description and amplification of work in this section				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Waterproofing to SABS 021</u>				
	Waterproofing shall be laid under a 10 year written guarantee for site workmanship and watertightness and to be laid to even falls to outlets etc. Descriptions of sheet or membrane waterproofing shall be deemed to include for additional labour to turn-ups and turn downs				
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>				
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>				
1	Under surface beds, etc. (LI)	m2	2 589		
2	Under concrete bench slabs (LI)	m2	39		
	<u>One layer of 375 micron DPC embossed damp proof course as per approval</u>				
3	In walls (LI)	m2	368		
4	Under cills (LI)	m2	74		
	Carried Forward			R	
	Bill No. 5 Waterproofing				



N.D

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Proposed New Makhaza Police Station
Potion On ERF 75169 OF 59037 (Khayelitsha)

Brought Forward			
<u>Two coats emulsion bitumen emulsion waterproof coating as per approval</u>			
5	On bagged brick walls, piers, etc. (LI)	m2	6 767
<u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u>			
<u>One Layer "Derbigum" or other equally approved SP4 waterproofing membrane sealed to solvent based bitumen primed surface by means of torch fusion with minimum 100mm side laps and minimum 150mm end laps</u>			
6	On roof slabs	m2	20
7	On turn-up, turn-down not exceeding 300mm girth	m2	5
8	Extra over for sealing around 110mm diameter full-bores	No	1
9	Counter flashing	m	20
<u>One Layer "Derbigum" or other equally approved CG3 waterproofing membrane sealed to solvent based bitumen primed surface by means of torch fusion with minimum 100mm side laps and minimum 150mm end laps</u>			
10	On lift shaft walls	m2	12
11	On sides and bottom of lift pits base	m2	4
<u>One Layer "Derbigum" or other equally approved CG4 waterproofing membrane sealed to solvent based bitumen primed surface by means of torch fusion with minimum 100mm side laps and minimum 150mm end laps</u>			
12	On lift shaft walls	m2	12
13	On sides and bottom of lift pits base	m2	4
14	Extra over waterproofing to walls for one layer of 'interdek' or other equally approved sheeting with a minimum lap of 200mm to receive backfilling (Back filling else where measured)	m2	16

Carried Forward

Bill No. 5
Waterproofing

Brought Forward			
	<u>"Penebar SW 55" or other equally approved concrete joint waterstop</u>		
15	To bottom of lift shaft walls	m	12
	<u>PROTECTIVE ROOFING PAINT</u>		
	<u>Two Coats of bituminous aluminium paint</u>		
16	On waterproofing to roofs	m2	20
	<u>WATERPROOFING TO SHOWERS</u>		
	<u>Waterproof with Duraflex, "ABE" product/Sikaflex Waterproof or other equally approved. Application to manufacturers specification.</u>		
17	On shower floors	m2	11
18	On shower walls	m2	104
19	On splashback	m2	8
	<u>SEALING STRIPS, JOINT SEALANTS, ETC</u>		
	<u>Two-part grey poly sulphide or other equally approved sealing compound including backing cord, bond breaker, primer, etc.</u>		
20	10 x 15mm In expansion joints in floors including raking out expansion joint filler as necessary	m	63
21	3 x 10mm In saw cut joints in floors	m	663
	<u>Polyurethane or other equally approved sealing compound including backing cord, bond breaker, primer, etc.</u>		
22	12 x 12mm In vertical expansion joints including raking out expansion joint filler as necessary	m	39
Carried to Summary			
Bill No. 5 Waterproofing			

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Item
No

Unit Quantity Rate Amount

BILL NO. 6

ROOF COVERINGS, ETC.

**(CPAP WORK GROUP NO. 124 UNLESS
OTHERWISE STATED)**

PREAMBLES

The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyors", and Supplementary Preambles for further description and amplification of work in this section

SUPPLEMENTARY PREAMBLES

SHEETING

The roof sheeting shall be double-interlocking concealed-fix Klip lok profile roll-formed in continuous lengths and cut to length by a pneumatic cut-off process from certified Galvanized 0.58mm steel. A certificate verifying compliance shall be issued by the manufacturer, Global Roofing Solutions. The profile shall be roll-formed with four ribs at centres not exceeding 233mm and a cover width not exceeding 700mm, the pans/troughs shall incorporate transverse stiffener ribs. These will include a male and female rib with capillary action breaks. The male rib shall incorporate spurs spaced no more than 200mm apart to ensure minimum clipping areas on the side lap, and stand proud of the rib for purposes of double interlocking action with adjacent sheets. When interlocked, the minimum sheet depth shall be 41mm.

**MATERIAL AND FINISH FOR KLIP-TITE ROOF
SHEETING**

Galvanised steel Z200 complying with ISQ 550 (3T) (A653) with an AZ200 Thunderstorm/Heron grey. (a zincalu coating suited for coastal conditions) finish to one side with a Pebble Grey backing coat.

FIXING KLIP-TITE

Carried Forward

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Bill No. 6
Roof Coverings, etc.



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The Klip-Tite™ sheets shall be fixed to every purlin by means of patented KL700 clips having spurs which will securely hold the sheets in position and lock-in the sidelap and both centre ribs. The KL700 clips shall be manufactured from Galvanized steel and shall be fixed with the appropriate self-drilling/tapping screws to steel purlins (selection from installation manual) OR with ZAP no. 10x45mm Waferhead screws type 17 to timber purlins.

KLIP-TITE FLASHINGS

Flashings specifications shall be to the Global Roofing Solutions standards and fixed to the sheeting with S10 brackets or, Sliding brackets at apex where roof sheets are 30m or longer, to obviate any direct fixing perforations. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip. Transverse flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools available from Global Roofing Solutions.

SAFETY

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.

INSTALLATION

Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, should be replaced. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surfaces in order to prevent steel particles from penetrating coated surfaces.

HANDLING AND STORAGE

The contractor shall ensure that all materials used on site for roofing/cladding, be transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected

Carried Forward

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Bill No. 6
Roof Coverings, etc.



Brought Forward

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and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.

INSPECTION PRIOR TO INSTALLATION

Before commencing installation, the contractor shall verify that the following items have been checked and accepted:

- a. The entire structure or the portion thereof to be sheeted has been correctly aligned, leveled and grouted.
- b. Purlins and girts are at the correct spacing and are within the specified tolerances.
- c. The corners of the roof are square and the wall framework is perpendicular or as specified.
- d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework.
- e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square.
- f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or, so dealt with that direct contact with the sheeting is avoided.
- g. The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding.

PROTRUSION THROUGH SHEETED SURFACES

Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugations.

GUARANTEE

The manufacturer shall comply with ISO 9001:2008 Quality Management System. Klip-Tite™ sheeting shall be laid in strict accordance with the manufacturer's

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Bill No. 6
Roof Coverings, etc.



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specifications by a GRS approved contractor. A written and approved five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer Global Roofing Solutions.				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>"Kliplok" or other equally approved double interlocking concealed fix, 0.58mm galvanised sheet steel and accessories, fixed to timber purlins</u>				
1	Roof covering with pitches not exceeding 25 degrees	m2	3 793	
<u>Sundries</u>				
2	Ridge capping 550mm girth	m	270	
3	Hip ridge capping 550mm girth	m	257	
4	Head wall flashing 550mm girth	m	21	
5	Side wall flashing 550mm girth	m	21	
6	Counter flashing	m	42	
<u>ROOF AND WALL INSULATION</u>				
<u>Sisalation 430 aluminium foil wrap insulation</u>				
7	100mm Thick, nominal density 12kg/m ³ , non-combustible roof insulation with reinforced foil facing, fixed under roof sheeting over 75x50mm purlins and galvanized wire at 300mm cc. Overlapping foil edges to be stapled together as per manufacturers recommendations	m2	3 793	
<u>SHEET METAL FLASHINGS, LININGS, COPINGS, ETC.</u>				
<u>0.6mm aluminium sheet</u>				
8	Lining to valleys with riveted and sealed joints, with girth not exceeding 600mm.	m	82	
Carried to Summary				R
Bill No. 6 Roof Coverings, etc.				

