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14.5.3 The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring	
14.5.4 The payment reduction of the value certified in a payment certificate shall be in terms of 31.8 (A) and 34.8	
14.5.5 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or may do both	
14.6 Where security as a cash deposit of five per cent (5%) of the contract sum (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) has been selected:	
14.6.1 The contractor shall furnish the employer with a cash deposit equal in value to five per cent (5%) of the contract sum (excluding VAT) within twenty one (21) calendar days from commencement date	
14.6.2 Within twenty one (21) calendar days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor	
14.6.3 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(A)	
14.6.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both	
14.7 Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected:	
14.7.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(B)	
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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			
	A15 PREPARATION FOR AND EXECUTION OF THE WORKS			
	Clause 15.0			
ı	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:	ltem		
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:	ltem	
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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:	Item	
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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		
	PAYMENT			
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	1		
	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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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		
A33 RECOVERY OF EXPENSE AND LOSS			
Clause 33.0			
Fixed:Value related:Time related:			
A34 FINAL ACCOUNT AND FINAL PAYMENT			
Clause 34.0		- 1	
Clause 34.1 is amended by removing "#" next to 34.1			
Clause 34.2 is amended by removing "#" next to 34.2		- 1	
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		
A35 PAYMENT TO OTHER PARTIES			
Clause 35.0			
Fixed: Value related: Time related:	Item		
Carried Forward		R	
Preliminaries			
	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:	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:	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:

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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: Time related: Time	ltem	
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:	ltem	
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:	Item	
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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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	Carried Forward Bill No. 1		
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Ì	Brought Forward		R	1
	THE SCHEDULE			
42	A42 PRE-TENDER INFORMATION			
	Clause 42.0			
	Tenderers are referred to the Contract Data			
	Fixed: Time related: Time	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: Time related: Time	Item		
	2: DOCUMENTS			
44	Checking of documents			
	Fixed: Value related: Time related:	Item		
45	Provisional bills of quantities			
	Fixed:Time related:Time	Item		
46	Availability of construction documentation			
	Fixed: Time related: Time	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	1	
	Carried Forward		R	
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ij	Brought Forward		R		
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			
	4: MANAGEMENT OF CONTRACT				
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:Time related:Time	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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- 1	Brought Forward		R	
66	Labour and plant records			
	Fixed: Value related: Time related:	Item		
	5: SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS			
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:	ltem		
70	Compliance with manufacturer's instructions			
	Fixed: Value related: Time related:	Item		
	6: TEMPORARY WORKS AND PLANT			
71	Deposits and fees			
	Fixed: Value related: Time related:	Item	1	
72	Enclosure of the works			
	Fixed: Value related: Time related:	Item	ו	
73	Advertising			
	Fixed: Value related: Time related:	Iten	וי	
74	Plant, equipment, sheds and offices			
	Fixed:Time related:Time	Iten	ו	
	Carried Forward		R	
	Bill No. 1 Preliminaries			
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	Brought Forward		R∥	Ĭ
75	Main notice board			
	Fixed: Value related: Time related:	Item		
76	Subcontractors' notice board			
	Fixed: Value related: Time related:	ltem		
	7: TEMPORARY SERVICES			
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			ľ
	Fixed: Time related: Time	ltem		
81	Ablution facilities			
	Fixed: Value related: Time related:	Item		
	8: PRIME COST AMOUNTS			
	9: ATTENDANCE ON N/S SUBCONTRACTORS			
82	General attendance			
	Fixed: Value related: Time related:	ltem		
	Carried Forward		R	
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	Brought Forward		R	
83	Special attendance			
	Fixed: Value related: Time related:	Item		
84	Commissioning - fuel, water and electricity			
	Fixed: Value related: Time related:	ltem		
	10: FINANCIAL ASPECTS			
85	Statutory taxes, duties and levies			
	Fixed: Value related: Time related:	Item		
86	Payment for preliminaries			
	Fixed: Time related: Time	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:	ltem		
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	1	
98	Instruction manuals and guarantees			
	Fixed: Value related: Time related:	ltem	1	
99	As built information			
	Fixed: Time related: Time	Iten	ו	
100	Tenant installations			
	Fixed: Time related: Time related:	Iten	1	
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Ü	Brought Forward		R	
	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: N/A			
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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: None		
12.1.10 <i>Protection of trees</i> [3.9] Specific requirements: N/A		
12.1.11 <i>Inspection of adjoining properties</i> [3.11] Specific requirements: None		
12.1.12 <i>Enclosure of the works</i> [6.2] Specific requirements: Contractor to ensure the works is enclosed		
12.1.13 <i>Offices</i> [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 <i>Water</i> [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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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 NO 12.1.21 Special attendance [9.2] Subcontractor (1) details: NIA Subcontractor (2) details: NIA Subcontractor (4) details: NIA Subcontractor (4) details: NIA Subcontractor (4) Specific requirements: None 12.1.22 Protection of works [11.1] Specific requirements: Yes, OHS to confirm on the disturbance		Brought Forward	R	
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 NO 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 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		Option A (by contractor)		
12.1.18 Telechone 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 NO 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 Subcontractor (4) details: N/A Subcontractor (5) Details: N/A Subcontractor (6) Details: N/A Subcontractor (7) Details: N/A Subcontractor (8) Details: N/A Subcontractor (9) Details: N/A Subcontractor (1) Details: N/A Subcontractor (1) Details: N/A Subcontractor (1) Details: N/A Subcontractor (1) Details: N/A Subcontractor (2) Details: N/A Subcontractor (3) Details: N/A Subcontractor (4) Details: N/A Subcontractor (5) Details: N/A Subcontractor (6) Details: N/A Subcontractor (7) Details: N/A Subcontractor (8) Details: N/A Subcontractor (9) Details: N/A Subcontractor (1) Details: N/A Subcontractor (2) Details: N/A Subcontractor (3) Details: N/A Subcontractor (1) Details: N/A Subcontractor (2) Details: N/A Subcontractor (3) Details: N/A Subcontractor (1) Details: N/A Subcontractor (1) Details: N/A Subcontractor (1) Details: N/A				
[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 NO 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 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				
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 NO 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 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 Bill No. 1	100	Telephone		
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[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 NO 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 Carried Forward R				
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works [11.2] Protection is required NO 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 Carried Forward R Bill No. 1				
[11.2] Protection is required NO 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 [11.5] Specific requirements: Yes, OHS to confirm on the disturbance		Protection of existing/sectionally occupied		
[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 [11.5] Carried Forward R Bill No. 1				
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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 Carried Forward R Bill No. 1		Subcontractor (3) details: N/A		
[11.1] Specific requirements: None 12.1.23 Disturbance [11.5] Specific requirements: Yes, OHS to confirm on the disturbance Carried Forward R Bill No. 1		Subcontractor (4) details: N/A		
[11.5] Specific requirements: Yes, OHS to confirm on the disturbance Carried Forward R Bill No. 1	12,1.22 [11.1]	Protection of works Specific requirements: None		
Bill No. 1	[11.5]	Specific requirements: Yes, OHS to confirm on		
Bill No. 1				
			R	
Fremiliaries				

	Brought Forward	R	1
12.1.24 [11.6]	Environmental disturbance Specific requirements: None		
12.2	POST TENDER INFORMATION		
12.2.1 [10.2]	Payment of preliminaries Option A (prorated)		
	Option B (calculates)		
12.2.2 [10.3]	Adjustment of preliminaries Option A (three categories)		
	Option B (detailed breakdown)		
12.2.3	Additional agreed preliminaries items Details:		
Bill No	Carried Forward	R	
Prelim			

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Brought Forward		R	
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			
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		
C2 PREAMBLES			
The document "Specification of Materials and Methods to be used (PW371)" is obtainable on the Department's website http://www.public.works.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: Partice Edition 2.0" is increased together with the drawings and shall			
drawings and the bills of quantities / lump sum docume			
Fixed: Value related: Time related:	Item		
Carried Forward		R	
Bill No. 1 Preliminaries			
	Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item 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:	Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item 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:	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 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:

	Brought Forward	R	
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:	ltem	
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	
	Carried Forward	R	
	Bill No. 1 Preliminaries		
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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:Time related:Time	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	
	Carried Forward		R
	Bill No. 1		
	Preliminaries 125		
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R **Brought Forward PROHIBITION ON TAKING OF** 110 C9 **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 Item related:.... 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 R **Carried Forward** Bill No. 1 **Preliminaries**

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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		

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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:Time related:Time	ltem	
	Carried Forward	R	
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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:	ltem	
	Carried to Summary		R
	Bill No. 1 Preliminaries		

	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 interpersed 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				

Bill No. 2		Brought Forward	1		F
tests in accordance with SABS 1200D EXCAVATION, FILLING, ETC OTHER THAN BULK Excavation in earth not exceeding 2m deep Trenches (LI) Bases (LI) Bases (LI) Reduced levels under floors (LI) Edge thickening (LI) Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 98% Mod. AASHTO density Not exceeding 500m deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 500mm and not exceeding 1500mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Extra over trench and hole excavations in earth for excavation in Soft rock (LI) Hard rock Extra over all excavations for carting away Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor Carried Forward Bill No. 2		Testing			
BULK Excavation in earth not exceeding 2m deep 1 Trenches (LI) Bases (LI) 1 Lift pit base (LI) Reduced levels under floors (LI) Edge thickening (LI) Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 98% Mod. AASHTO density Not exceeding 500m deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 500mm and not exceeding 1500mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Extra over trench and hole excavations in earth for excavation in Soft rock (LI) Hard rock Extra over all excavations for carting away Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor Bill No. 2		Prices for filling are to include for all necessary density tests in accordance with SABS 1200D			
Trenches (LI) Bases (LI) Lift pit base (LI) Reduced levels under floors (LI) Edge thickening (LI) Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 98% Mod. AASHTO density Not exceeding 500m deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 500mm and not exceeding 1500mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 1500mm and hot exceeding 3000mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Extra over trench and hole excavations in earth for excavation in Soft rock (LI) Hard rock Extra over all excavations for carting away Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor Bill No. 2					
Bases (LI) Lift pit base (LI) Reduced levels under floors (LI) Edge thickening (LI) Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 98% Mod. AASHTO density Not exceeding 500m deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 500mm and not exceeding 1500mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Extra over trench and hole excavations in earth for excavation in Soft rock (LI) Hard rock Extra over all excavations for carting away Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor Bill No. 2		Excavation in earth not exceeding 2m deep			
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Reduced levels under floors (LI) Reduced levels under floors (LI) Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 98% Mod. AASHTO density Not exceeding 500m deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 500mm and not exceeding 1500mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Extra ever trench and hole excavations in earth for excavation in Soft rock (LI) Hard rock Extra over all excavations for carting away Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor Carried Forward Bill No. 2	2	Bases (LI)	m3	1	
Edge thickening (LI) Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 98% Mod. AASHTO density Not exceeding 500m deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 500mm and not exceeding 1500mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Extra over trench and hole excavations in earth for excavation in Soft rock (LI) Mad 320 Hard rock Extra over all excavations for carting away Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor Carried Forward Bill No. 2	3	Lift pit base (LI)	m3	13	
Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 98% Mod. AASHTO density Not exceeding 500m deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 500mm and not exceeding 1500mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Extra over trench and hole excavations in earth for excavation in Soft rock (LI) 10 Hard rock Extra over all excavations for carting away 11 Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor Carried Forward Bill No. 2	4	Reduced levels under floors (LI)	m3	1 110	
earth for working space including backfilling compacted to 98% Mod. AASHTO density Not exceeding 500m deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 500mm and not exceeding 1500mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Extra over trench and hole excavations in earth for excavation in Soft rock (LI) Hard rock Extra over all excavations for carting away Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor Carried Forward Bill No. 2	5	Edge thickening (LI)	m3	20	
formwork to walls 300mm away from excavated face (LI)		earth for working space including backfilling			
placing and removing formwork to walls 300mm away from excavated face (LI) Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to walls 300mm away from excavated face (LI) Extra over trench and hole excavations in earth for excavation in Soft rock (LI) Hard rock Extra over all excavations for carting away Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor Bill No. 2	6	formwork to walls 300mm away from excavated face	m2	1 392	
for placing and removing formwork to walls 300mm away from excavated face (LI) Extra over trench and hole excavations in earth for excavation in Soft rock (LI) Hard rock Extra over all excavations for carting away Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor Carried Forward Bill No. 2	7	placing and removing formwork to walls 300mm away	m2	2 784	
9 Soft rock (LI) m3 320 10 Hard rock m3 160 Extra over all excavations for carting away Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor m3 2 675 Carried Forward Bill No. 2	8	for placing and removing formwork to walls 300mm	m2	1 439	
Hard rock Extra over all excavations for carting away Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor Carried Forward Bill No. 2					
Extra over all excavations for carting away Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor Carried Forward Bill No. 2	9	Soft rock (LI)	m3	320	
Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor Carried Forward Bill No. 2	10	Hard rock	m3	160	
site, to a dumping site to be located by the contractor m3 2 675 Carried Forward F		Extra over all excavations for carting away			
Bill No. 2	11	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	2 675	
Bill No. 2					
A 48 B					F
		A 485 B			

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1	Brought Forward	Î	Î	R
	Risk of collapse of excavations			
12	Sides of trench and hole excavations not exceeding 1,5m deep	m2	5 615	
	Keeping excavations free of water			
13	Keeping excavations free of all water other than subterranean water		ltem	
14	Manage subterranean water as necessary, across all applicable construction zones		Item	
	Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density.			
15	Backfilling to trenches, holes, etc. (LI)	m3	1 689	
	Earth filling of G5 material supplied by contractor from commercial sources in accordance with SABS 1200 DM compacted to 95% Mod AASHTO density in 150mm thick layers			
16	Under floors, steps, pavings, etc. in sub-grade improvement (LI)	m3	694	
17	Under strip footings in sub-grade improvement (LI)	m3	475	
18	Under bases in sub-grade improvement (LI)	m3	3	
19	Under concrete bench surface slabs, etc. (LI)	m3	7	
	Earth filling of Dump Rock material to geotechnical engineers specification supplied by contractor from commercial sources			
20	Under strip footings in sub-grade improvement (LI)	m3	475	
	Compaction of surfaces			
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	2 313	
	Carried Forward			F
	Earthworks 32			

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	Brought Forward	1	Ĩ	R	
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	1 573		
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	m	8		
	Prescribed density tests on filling				
•		No	334		
24	"Modified AASHTO Density" test	140	304		
	SOIL POISONING				
	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:				
25	Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc. and ramming (LI)	m2	2 313		
26	To sides and bottoms of trench, bases etc. excavations (LI)	m2	7 196		
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	Carried to Summary			R	
	Bill No. 2 Earthworks				
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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 reuse				
	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				

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	Brought Forward	-	Ï	R	
be t	rmwork to soffits of solid slabs etc shall be deemed to to slabs not exceeding 250mm thick unless otherwise scribed				
dee	rmwork to soffits of slabs, beams, etc shall be emed to be propped up exceeding 1,5m and not seeding 3,5m high unless otherwise described				
etc eng irre mea incl of t	rmwork to sides of bases, pile caps, ground beams, will only be measured where it is prescribed by the gineer for design reasons. Formwork necessitated by egularity or collapse of excavated faces will not be assured and the cost thereof shall be deemed to be luded in the allowance for taking the risk of collapse the sides of the excavations, provision for which is de in "Earthworks"				
UN	IREINFORCED CONCRETE				
<u>15N</u>	MPa concrete				
1 Blir	nding under strip footings, bases, etc (LI)	m3	179		
	CAVATED SURFACES/ FORMWORK				
301	MPa/19mm concrete				
2 Stri	ip footings (LI)	m3	401		
3 Edg	ge thickening (LI)	m3	14		
4 Sui	rface beds on waterproofing (LI)	m3	301		
5 Sui	rface raft slabs on waterproofing (LI)	m3	7		
6 Bas	ses (LI)	m3	1		
7 Lift	t pit base (LI)	m3	3		
8 Sui	rface ramps (LI)	m3	4		
9 Ra	ımps (LI)	m3	3		
cor	tra over 30MPa concrete for 'Penetron' admixture to ncrete (Note: This is to be added by the concrete pplier and not to be mixed on site)	m3	3		
					 _
	Carried Forward			R	
	No. 3 Increte, Formwork and Reinforcement				
1	<i>G</i> -46-	35			

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	Brought Forward			R
	REINFORCED CONCRETE CAST ON/IN FORMWORK			
	30MPa/19mm concrete			
11	RC walls in foundation (LI)	m3	5	
2	RC walls (LI)	m3	33	
3	Lift shaft walls in foundation (LI)	m3	2	
4	lift shaft walls (LI)	m3	9	
5	Bench slabs (LI)	m3	3	
6	Plinths (LI)	m3	5	
7	Lift shaft roof slab (LI)	m3	2	
8	Slabs (LI)	m3	322	
9	Beams (LI)	m3	56	
)	Upstand beams (LI)	m3	20	
	Staircases (LI)	m3	15	
2	Concrete infill to cavity walls in foundations (cavity walls elsewhere measured) (LI)	m3	101	
	Concrete infill to cavity walls for superstructure (cavity walls elsewhere measured) (LI)	m3	333	
	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	2	
	TEST CUBES			
	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	273	
	CONCRETE SUNDRIES			
	O a wind Famura			F
	Bill No. 3 Concrete, Formwork and Reinforcement			,

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1	Brought Forward	1		R	1
	Finishing top surfaces of concrete smooth with a wood float				
26	Surface beds, slabs, etc. (LI)	m2	3 672		
	(CPAP WORK GROUP NO. 111 UNLESS OTHERWISE STATED)				
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
27	Strip footings (Provisional) (LI)	m2	1 076		
28	Reinforced concrete walls in foundation (LI)	m2	93		
29	Lift shaft walls in foundation (LI)	m2	12		
30	Edges, risers, ends and reveals not exceeding 300mm high or wide (LI)	m	540		
	SMOOTH FORMWORK (DEGREE OF ACCURACY II)				
	Smooth formwork to sides				Į.
31	Upstand beams (LI)	m2	146		
32	Reinforced concrete walls, propped up not exceeding 3,5m high (LI)	m2	379		
33	Inner face of lift shaft walls to lift shaft size 2500 x 1660mm on plan, exceeding 5m and not exceeding 10m high	m2	28		
34	Outer face of lift shaft walls to lift shaft size 2500 x 1660mm on plan, exceeding 5m and not exceeding 10m high	m2	28		
35	Edges, risers, ends and reveals not exceeding 300mm high or wide (LI)	m	610		
36	Sloping and stepped out edges of stairs not exceeding 300mm high extreme	m	27		
	Carried Forward			R	
	Concrete, Formwork and Reinforcement				

No 5

	Brought Forward			R
	Smooth formwork to soffits			
37	Slabs exceeding 250mm thick and not exceeding 500mm thick, propped up exceeding 1.5m and not exceeding 3.5m high (LI)	m2	48	
38	Slabs exceeding 250mm thick and not exceeding 500mm thick, propped up exceeding 3.5m and not exceeding 5m high (LI)	m2	1 190	
39	Lift Shaft slab exceeding 250mm thick and not exceeding 500mm thick, propped up exceeding 3.5m and not exceeding 5m high (LI)	m2	8	
40	Landings (LI)	m2	11	
41	Stair with sloping soffits (LI)	m2	30	
	Smooth formwork to sides and soffits			
42	Downstand beams, propped up not exceeding 3,5m high (LI)	m2	327	
	Boxing in smooth formwork to form			
43	25 x 25mm Chamfer along top or bottom edge (LI)	m	350	
44	25 x 25mm Vertical chamfer at corner (LI)	m	76	
	Special formwork to form			
45	Opening exceeding 6m and not exceeding 7m girth through 230mm thick wall (LI)	No	5	
	MOVEMENT JOINTS ETC			
	10 x 150mm expanded polyethylene joint former with tear off strip and 10 x 10mm two-part grey polysulphide sealing compound			
46	In isolation joints including raking out expansion joint filler as necessary (LI)	m	1 270	
	Two sheets of tempered hardboard (smooth sides together) to form slip joint between abutting horizontal concrete and brickwork surfaces			
47	Not exceeding 300mm wide (LI)	m	632	
	Coming Forward			R
	Carried Forward Bill No. 3			K
	Concrete, Formwork and Reinforcement			

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Samora Machel New Police Station Portion 01 of STAND 8972 (Samora Machel)

ĺ	Brought Forward			F
	Saw-cut joints			
8	3 x 40mm Saw-cut joints in top of concrete	m	435	
	(CPAP WORK GROUP NO. 114 UNLESS OTHERWISE STATED)			
	REINFORCEMENT (PROVISIONAL)			
	Mild and high tensile steel reinforcement to structural concrete work			
9	Various diameter bars (LI)	t	86,90	
	Fabric reinforcement			
0	Type Ref. 245 fabric reinforcement in concrete surface beds, etc. (LI)	m2	2 385	
1	Type Ref. 289 fabric reinforcement in between skins of one brick walls (one brick wall elsewhere measured) (LI)	m2	3 390	
	Carried to Summary			F
	Bill No. 3			,
	Concrete, Formwork and Reinforcement			

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Item No		Unit	Quantity	Rate	Amount
	BILL NO. 4				
	MASONRY				
	(CPAP WORK GROUP NO. 116 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				
	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	
	Masonry ILLO				
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Brought Forward	1	ľ	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 preparotory 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				
230mm brick walls (LI)	m2	489		
345mm Cavity wall formed of two half brick skins (LI)	m2	880		
SUPERSTRUCTURE				
			_	
Carried Forward			R	
Bill No. 4 Masonry				

	Brought Forward	1		R
	Brickwork of NFX Imperial Clay bricks in class II mortar			
3	115mm brick walls (LI)	m2	839	
4	115mm brick wall lining to concrete (LI)	m2	145	
5	230mm brick wall in beamfilling (LI)	m2	273	
6	230mm brick wall (LI)	m2	1 896	
7	230mm brick wall in concrete benches (LI)	m2	26	
8	345mm Cavity brick 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	2 774	
9	Brick piers (LI)	m3	26	
10	Extra over brickwork for facebrick in protrusion brick wall (LI)	m2	27	
	Concrete pre stressed fabricated lintels			
11	110 x 75mm Lintels in lengths not exceeding 3m (LI)	m	652	
12	110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4.5m (LI)	m	4	
13	110 x 75mm Lintels in lengths exceeding 4.5m and not exceeding 6m (LI)	m	5	
14	110 x 75mm Lintels in lengths exceeding 6m (LI)	m	7	
	BRICKWORK SUNDRIES			
	Bagging of 1:3 cement and sand mixture			
15	On brick walls, piers, etc. (LI)	m2	6 646	
	Joint forming material in movement joints			
16	12mm Bitumen impregnated fibre board built in vertically through brick walls exceeding 300mm wide (LI)	m2	159	
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	Carried Forward Bill No. 4			R
	Masonry 42			

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Ì	Brought Forward	1		R
	Closing cavity			
17	Closing 115mm cavity of hollow wall, half brick wide vertically at reveal or ends (LI)	m	63	
18	Closing 115mm cavity of hollow wall, horizontally with two courses (LI)	m	897	
	2.5mm Galvanised brickwork reinforcement			
19	75mm Wide reinforcement built in horizontally (LI)	m	43 516	
20	155mm Wide reinforcement built in horizontally (LI)	m	11 059	
21	230mm Wide reinforcement built in horizontally (LI)	m	335	
	Turning pieces			
22	115mm Wide turning pieces to lintels etc. (LI)	m	521	
	Galvanised hoop iron cramps, wire ties, etc.			
23	30 x 1,6mm Cramp 500mm long with one end shot pinned to concrete and other end built into brickwork (LI)	No	253	
24	30 x 1,6mm Roof tie 1,5m long with one end built into concrete and the other end fixed to timber trusses (LI)	No	899	
	FACE BRICKWORK			
	"Platinum Travertine FBX" or other equally approved face bricks pointed with tinted recessed horizontal and vertical joints		,	
25	Extra over brickwork for face brickwork in foundations (LI)	m2	105	
26	Extra over brickwork for face brickwork on both sides in foundations (LI)	m2	2	
27	Extra over brickwork for face brickwork (LI)	m2	539	
28	Extra over brickwork for face brickwork on both sides of wall (LI)	m2	11	
	Carried Forward Bill No. 4			R
	Masonry 143			

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Samora Machel New Police Station Portion 01 of STAND 8972 (Samora Machel)

	Brought Forward	1	Ī	R	1
	"Corojem Nebraska FBS" or other equally approved face bricks pointed with tinted recessed horizontal and vertical joints				
29	Extra over brickwork for face brickwork in single header bond (LI)	m2	63		
30	Extra over brickwork for face brickwork on both sides in single header bond (LI)	m2	4		
31	Extra over brickwork for face brickwork in Stretcher bond (LI)	m2	1 471		
32	Extra over brickwork for face brickwork on both sides in Stretcher bond (LI)	m2	36		
33	Extra over brickwork for facebrick in protrusion brick wall (LI)	m2	27		
34	Extra over brickwork for brick-on-edge shoulder course (LI)	m	239		
35	Extra over brickwork for brick-on-edge header course bands one course high (LI)	m	63		
	Brick-on-edge header course copings, sills, etc of "Corejem Nebraska FBS" or other equally approved face bricks pointed with tinted recessed horizontal and vertical joints				
36	110mm Wide sills set sloping and slightly projecting (LI)	m	187		
	"Buff Travertine FBS" or other equally approved face bricks pointed with tinted recessed horizontal and vertical joints				
37	Extra over brickwork for face brickwork (LI)	m2	3 899	1	
	Brick-on-edge header course copings, sills, etc of "Buff TravertineFBS" or other equally approved face bricks pointed with tinted recessed horizontal and vertical joints				
38	110mm Wide sills (LI)	m	205		
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	Carried to Summar	У			
	Bill No. 4 Masonry				
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Item No		Unit	Quantity	Rate	Amount
	BILL NO. 5				
	WATERPROOFING				
	(CPAP WORK GROUP NO. 120 UNLESS OTHERWISE STATED)				
	PREAMBLES				
Y	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				
	Waterproofing to SABS 021				
	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				
	DAMP-PROOFING OF WALLS AND FLOORS				
	One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape				
1	Under surface beds, strip footings and sides of strip footings, etc. (LI)	m2	2 313		
2	Under concrete bench slabs (LI)	m2	3		
	One layer of 375 micron DPC embossed damp proof course as per approval				
3	in walls (LI)	m2	347		
4	Under cills (LI)	m2	85		
	Carried Forward			R	
	Bill No. 5 Waterproofing 145				
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	Brought Forward		i	R
	Two coats emulsion bitumen emulsion waterproof coating as per approval			
5	On bagged brick walls, piers, etc. (LI)	m2	6 646	
	WATERPROOFING TO ROOFS, BASEMENTS, ETC			
	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			
6	On lift shaft walls	m2	12	
7	On sides and bottom of lift pits base	m2	4	
	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			
8	On lift shaft walls	m2	12	
9	On sides and bottom of lift pits base	m2	4	
10	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	
	"Penebar SW 55" or other equally approved concrete joint waterstop			
11	To bottom of lift shaft walls	m	12	
	WATERPROOFING TO SHOWERS			
	Waterproof with Duraflex, "ABE" product/Sikaflex Waterproof or similar approved. Application to manufacturers specification.			
12	On shower floors	m2	13	
13	On shower walls	m2	104	
	Carried Forward			R
	Bill No. 5 Waterproofing			

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Samora Machel New Police Station Portion 01 of STAND 8972 (Samora Machel)

	Brought Forward		Ĩ	R	
14	On splashback	m2	8		
	SEALING STRIPS, JOINT SEALANTS, ETC				
	Two-part grey poly sulphide or other equally approved sealing compound including backing cord, bond breaker, primer, etc.				
15	10 x 15mm In expansion joints in floors including raking out expansion joint filler as necessary	m	1 270		
16	3 x 10mm In saw cut joints in floors	m	435		
	Polyurethane or other equally approved sealing compound including backing cord, bond breaker, primer, etc.				
17	12 x 12mm In vertical expansion joints including raking out expansion joint filler as necessary	m	49		
	Carried to Summary Bill No. 5 Waterproofing			R	
	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 mate 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 Bill No. 6 Roof Coverings, etc.			R	
	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

Bill No. 6 Roof Coverings, etc. 149

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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

INSPECTION PRIOR TO INSTALLATION

stages of construction.

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

Carried Forward

Bill No. 6 Roof Coverings, etc.



