



public works
& infrastructure

Department:
Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA

**JOUBERTINA POLICE COMPLEX: ERF 1200: REPAIRS &
MAINTENANCE OF ELECTRICAL, CIVIL, MECHANICAL &
STRUCTURAL ELEMENTS OF THE COMPLEX
COMPLETION CONTRACT**

BID NO. : PE25/2022
REFERENCE NO. : 19/2/4/2/2/6417/24

CONSISTING OF THREE VOLUMES

VOLUME 1 – TENDERING PROCEDURES
VOLUME 2 – RETURNABLE DOCUMENTS
VOLUME 3 – THE CONTRACT THIS DOCUMENT

Compiled by:

National Department of Public Works
Eben Donges Building
PORT ELIZABETH
6001

Issued by:

QAPELA QUANTITY SURVEYORS (PTY) LTD
16 Jarvis Road,
Berea
EAST LONDON
5241

NAME OF BIDDER:

NOVEMBER 2022

VOLUME 3: CONTRACT

Part C1: Agreement and Contract Data

C1.2 Contract Data

DPW-04 (EC): CONTRACT DATA: JBCC PRINCIPAL BUILDING AGREEMENT (Edition 6.2 of May 2018)

Project title:	Joubertina Police Station ERF 1200: Repairs & Maintenance of Electrical, Mechanical, Civil & Structural Elements to the Complex: Completion of Contract 1.
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Tender / Quotation no:	PE25/2022	WCS no:	051843	Reference no:	19/2/4/2/2/6417/24
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	<p>The Conditions of Contract are clauses 1 to 30 of the JBCC® Principal Building Agreement (Edition 6.2 of May 2018) prepared by the Joint Building Contracts Committee.</p> <p>Contractors are cautioned to read the JBCC PBA and Contract Data (DPW-04 (EC)) together as some clauses in the JBCC PBA have been amended in the Contract Data (DPW-04 (EC)).</p> <p>Copies of these conditions of contract may be obtained through most regional offices of the Association of South African Quantity Surveyors, Master Builders Association, South African Association of Consulting Engineers, South African Institute of Architects, Association of Construction Project Managers, Building Industries Federation South Africa, South African Property Owners Association or Specialist Engineering Contractors Committee.</p> <p>Bidders to note that materials procured for the works should be from South African manufactures and suppliers. Imported materials shall only be considered under exceptional circumstances, based on compelling technical justifications, and subject to the approval by the NDPWI.</p>
	<p>CONTRACT VARIABLES</p> <p>THE SCHEDULE</p> <p>The schedule is the listed variables in this agreement and contains all variables referred to in this document including specific changes made to JBCC® documentation. It is divided into part 1: contract data completed by the employer and part 2: contract data completed by the tenderer. Part 1 must be completed in full and included in the tender documents. Both the part 1 and part 2 form part of this agreement.</p> <p>Spaces requiring information must be filled in, shown as ‘not applicable’ or deleted but 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. Reference to clause numbers in the JBCC Principal Building Agreement are shown in [square brackets] in this contract data e.g. [3.1].</p>

PART 1: CONTRACT DATA COMPLETED BY THE EMPLOYER:

A PROJECT INFORMATION

A 1.0 Works [1.1]

Works description	Refer to document PG01.2 (EC) – Scope of Works for detailed description
<p>The works comprise of completion of renovations to the existing SAPS precinct at Joubertina SAPS and 2 x SAPS residences off site.</p> <p>Existing buildings are constructed with brick and mortar, metal sheeted roofs, asbestos roofs and concrete roof slabs.</p> <p>Completion of replacement of perimeter fencing, new bulk earthworks, paving and access roads, upgrade of the sewer reticulation, upgrade of storm water reticulation, upgrading of water storage facilities, etc</p>	

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A 2.0 Site [1.1]

Erf / stand number	1200
Site address	14 Olivier Street
Township / Suburb	
City / Town	Joubertina
Province	Eastern Cape
Local authority	Kou-Kamma Local Municipality
GPS Coordinates	-33.826117 S ; 23.855261 E

A 3.0 EMPLOYER AND ITS REPRESENTATIVE

A 3.1 Employer:

Official Name of Organ of State / Public Sector Body	Government of the Republic of South Africa in its Department of Public Works & Infrastructure		
Business registration number	Not applicable	VAT number	Not applicable
E-mail	sizwe.fono@dpw.gov.za	Telephone	041 408 2120
Postal address	Eben Donges Building, Private Bag X3913 Port Elizabeth 6056		
Physical address	Eben Donges Building, Corner Hancock & Robert Street North-End Port Elizabeth 6056		

A 3.2 Employer's representative:

Name	Sizwe Fono	Telephone number	041 408 2120
E-mail	sizwe.fono@dpw.gov.za	Mobile number	041 408 2120
Postal address	Eben Donges Building, Private Bag X3913 Port Elizabeth 6065		
Physical address	Eben Donges Building, Corner Hancock & Robert Street North-End Port Elizabeth 6056		

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A 4.0	Principal Agent [1.1; 6.2]	Discipline	Architecture
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Name	MDA Architects		
Legal entity of above		Contact person	Kirsty King
Practice number		Telephone number	041 373 1549
Country	South Africa	Mobile number	
E-mail	kirsty@mdaarchitects.co.za		
Postal address	PO Box 6213 Walmer Port Elizabeth 6065		
Physical address	18 Park Lane Central Port Elizabeth 6001		

A 5.0	Agent [1.1; 6.2]	Discipline	Quantity Surveying
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Name	Qapela Quantity Surveyors (Pty) Ltd		
Legal entity of above		Contact person	Zet Ngxazisa
Practice number		Telephone number	043 721 140
Country	South Africa	Mobile number	
E-mail	zet@qapelaqs.co.za		
Postal address	16 Jarvis Road Berea East London 5241		
Physical address	i16 Jarvis Road Berea East London 5241		

A 6.0	Agent [1.1; 6.2]	Discipline	Civil and Structural Engineering
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Name	Calculus Engineering and Project Management		
Legal entity of above		Contact person	Peter O'Kenndy
Practice number		Telephone number	041 581 1451
Country	South Africa	Mobile number	
E-mail	petero@calculuseng.com		
Postal address	281 Main Road Walmer Port Elizabeth 6001		
Physical address	281 Main Road Walmer Port Elizabeth 6001		

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A 7.0	Agent [1.1; 6.2]	Discipline	Electrical and Mechanical Engineering
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Name	DFR Kwakudi (Pty) Ltd		
Legal entity of above		Contact person	Louw Brand
Practice number		Telephone number	041 581 1451
Country	South African	Mobile number	
E-mail	louw@dfreng.co.za		
Postal address	89 Villiers Road Walmer Port Elizabeth 6065		
Physical address	89 Villiers Road Walmer Port Elizabeth 6065		

A 8.0	Agent [1.1; 6.2]	Discipline	Occupational Health and Safety
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Name	SHESHAY Health and Safety Solutions		
Legal entity of above		Contact person	Tessa Jacobus
Practice number		Telephone number	
Country	South Africa	Mobile number	081 324 5147
E-mail	tessa@sheshay.com		
Postal address	4 Samson Road insert suburb East London 5201		
Physical address	4 Samson Road insert suburb East London 5201		

A 9.0	Agent [1.1; 6.2]	Discipline	
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Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
Country		Mobile number	
E-mail			
Postal address	insert postal address insert suburb insert town insert postal code		
Physical address	insert physical address insert suburb insert town insert postal code		

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A 10.0	Agent [1.1; 6.2]	Discipline	
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Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
Country		Mobile number	
E-mail			
Postal address		insert postal address insert suburb insert town insert postal code	
Physical address		insert physical address insert suburb insert town insert postal code	

A 11.0	Agent [1.1; 6.2]	Discipline	
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Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
Country		Mobile number	
E-mail			
Postal address		insert postal address insert suburb insert town insert postal code	
Physical address		insert physical address insert suburb insert town insert postal code	

A 12.0	Agent [1.1; 6.2]	Discipline	
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Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
Country		Mobile number	
E-mail			
Postal address		insert postal address insert suburb insert town insert postal code	
Physical address		insert physical address insert suburb insert town insert postal code	

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B CONTRACT INFORMATION

B 1.0 Definitions [1.1]

Bills of quantities: System/Method of measurement	Standard system of measurement of building works 7 th edition
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B 2.0 Law, regulations and notices [2.0]

Law applicable to the works, state country [2.1]	Law of the Republic of South Africa
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B 3.0 Offer and acceptance [3.0]

Currency applicable to this agreement [3.2]	South African Rand
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B 4.0 Documents [5.0]

The original signed agreement is to be held by the principal agent [5.2], if not, indicate by whom	Employer
Number of copies of construction information issued to the contractor at no cost [5.6]	3

Documents comprising the agreement	Page numbers
The JBCC® Principal Building Agreement, Edition 6.2 May 2018	1 to 30
DPW-04 (EC): CONTRACT DATA: JBCC PRINCIPAL BUILDING AGREEMENT (Edition 6.2 of May 2018)	1 to 31
The JBCC® General Preliminaries for use with the JBCC® Principal Building Agreement, Edition 6.2 May 2018	
Drawings as per drawing register issued with the tender	
Specifications issued with the tender	
Schedules issued with the tender	
Bills of Quantities issued with the tender	1 to 227
Addenda as issued during tender stage, if applicable	As issued

B 5.0 Employer's agents [6.0]

Authority is delegated to the following agents to issue contract instructions and perform duties for specific aspects of the works [6.2] [6.7 [CD]]	Principal Agent
Principal agent's and agents' interest or involvement in the works other than a professional interest [6.3]	

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B 6.0 Insurances [10.0]

Insurances by contractor			
NB: Insurances submitted must be issued by either an insurance company duly registered in terms of the Insurance Act [Long-Term Insurance Act, 1998 (Act 52 of 1998) or Short-Term Insurance Act, 1998 (Act 53 of 1998)] or by a bank duly registered in terms of the Banks Act, 1990 (Act 94 of 1990). Insured amounts to include VAT.			
	New works [10.1.1] With a deductible not exceeding 5% of each and every claim	Contract sum plus 10%	Not Applicable
Or	Works with practical completion in sections [10.2] With a deductible not exceeding 5% of each and every claim	Contract sum plus 10%	Not Applicable
Or	Works with alterations and additions [10.3] (reinstatement value of existing structures with or including new works) With a deductible not exceeding 5% of each and every claim	Contract sum plus 10%	Applicable
	Direct contractors [10.1.1; 10.2] where applicable, to be included in the contract works insurance	RPQS to determine value	Not Applicable
	Free issue [10.1.1; 10.2] where applicable, to be included in the contract works insurance	RPQS to determine value	Not Applicable
	Escalation, professional fees and reinstatement costs must be included in the above respective insurances		Applicable
	Supplementary insurance [10.1.2; 10.2]	Contract sum plus 10%	Applicable
	Public liability insurance [10.1.3; 10.2]	R 5 000 000	Applicable
	Removal of lateral support insurance [10.1.4; 10.2]	R PQS to determine value	Applicable
	Other insurances [10.1.5]		
	Hi Risk Insurance Refer B18.0 [10.1.5.1]	R PQS to determine value	Not Applicable
	Other insurances: If applicable, description 1:	R PQS to determine value	Not Applicable
	Other insurances; If applicable, description 2:	R PQS to determine value	Not Applicable

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B 7.0 Obligations of the employer [12.1]

Existing premises will be in use and occupied [12.1.2]	Applicable
If applicable, description: The site is to be phased out into four phases to accommodate occupation of the police services.	
Restriction of working hours [12.1.2]	Not Applicable
If applicable, description:	
Natural features and known services to be preserved by the contractor [12.1.3]	Not Applicable
If applicable, description:	
Restrictions to the site or areas that the contractor may not occupy [12.1.4]	Applicable
If applicable, description: Contractor may only work in a building once occupation thereof has been moved to an alternative for the duration of the works at that specific building.	
Supply of free issue of material and goods [12.1.10]	Not Applicable
If applicable, description:	

B 8.0 Appointment of Nominated Subcontractors [14.0]

Select	If applicable, description of specialisation
Specialisation 1	
Specialisation 2	
Specialisation 3	
Specialisation 4	
Specialisation 5	

B 9.0 Appointment of Selected Subcontractors [15.0]

Applicable	If applicable, description of specialisation
Specialisation 1	
Specialisation 2	
Specialisation 3	
Specialisation 4	
Specialisation 5	

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B 10.0 Appointment of Direct Contractors [16.0]

Select	If applicable, description of extent of work [12.1.11]
Extent of work	
Extent of work	
Extent of work	
Extent of work	
Extent of work	

B 11.0 Works to be completed in sections [20.1]

Applicable	If applicable, description of sections
Section 1	Phase 1 - Completion of SAPS Residences, Building D and Building E
Section 2	Phase 2 - Building A
Section 3	Phase 3 - Building C
Section 4	Phase 4 - Building B
Section 5	
Section 6	
Remainder of the works. All external works	

B 12.0 Contract period [B18: 1.2], Construction period [B18: 1.1], Possession of site [12.1.5], Practical Completion [19.0; 20.0], Works Completion Refer B18.0 [19.8], Final Completion [21] and Penalties [24.0]

B12.1 Contract Period

Contract period [B18: 1.2]: Period in months as indicated, include time for submitting contractual obligatory documents, submission of Health & Safety Plan and approval, period for obtaining the Construction Permit (if applicable), the Construction Period and the Defect Liability Period up to and including Final Completion	
The contract period is determined as follows (Period/s indicated in months):	
Period to submit contractual obligatory documents including submission and approval of health and safety plan by the appointed Health & Safety Agent	

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Period to obtain Construction Permit from Department of Labour upon approval of the Health & Safety Plan by the appointed Health & Safety Agent	
Total construction period for the Works as a whole up to and including Practical Completion, as indicated below [24.1]	
Period to achieve Works Completion Refer B18.0 [19.8]	
Defect liability period up to and including Final Completion	12
Total Contract period [B18: 1.2]	
Penalty amount per calendar day for late submission of contractual obligatory documents: Ten percent (10%) of the penalty amount per calendar day for late Practical Completion, excluding VAT. [24.1]	R

B12.2 Construction Period for completion of the Works as a whole

Construction period [B18: 1.2] and Practical Completion for the Works as a whole [19.0] The time for achieving Practical Completion of the whole of the Works is measured from the date of possession of the site by the contractor inclusive of all public holidays, special non-working days and builders' holiday shut down periods .	Applicable
The date for practical completion for the works as a whole shall be the period in months as indicated, starting from the date of possession of the site by the contractor inclusive of all special non-working days and builders' holiday shut down periods [12.2.7; 24.1]	15 Months
Period for inspection in working days by the principal agent [19.3]	
Penalty amount per calendar day for late Practical Completion , excluding VAT. [24.1]	R 5610
Penalty amount per calendar day for late Works Completion Refer B18.0 [19.8]: Thirty percent (30%) of penalty amount per calendar day for late Practical Completion, excluding VAT.	R 1680
Penalty amount per calendar day for late Final Completion [21]: Fifteen percent (15%) of penalty amount per calendar day for late Practical Completion, excluding VAT.	R 840

B12.3 Construction Period for completion of the Works in portions

Construction period [B18: 1.1] and Practical completion for portions of the Works [20.0]	Not Applicable					
Portions of the Works in sections:	1	2	3	4	5	6
Period for inspection by the principal agent in working days [19.3]						
The date for practical completion shall be the period in months as indicated from the date of possession of the site by the contractor [12.2.7; 24.1]						

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The date for practical completion for the whole of the Works, if applicable shall be the period in months as indicated from the date of possession of the site by the contractor inclusive of all public holidays, special non-working days and builders' holiday shut down periods [12.2.7; 24.1]	insert contract period as per B12.1 or N/A if Works as a whole is applicable
Penalty for late Practical Completion, if completion in sections is required , excluding VAT	
The penalty amount per day for failing to complete section 1 of the Works is:	R
The penalty amount per day for failing to complete section 2 of the Works is:	R
The penalty amount per day for failing to complete section 3 of the Works is:	R
The penalty amount per day for failing to complete section 4 of the Works is:	R
The penalty amount per day for failing to complete section 5 of the Works is:	R
The penalty amount per day for failing to complete section 6 of the Works is:	R
The penalty amount per day for failing to complete the whole of the Works, if applicable, is:	R
Penalty amount per calendar day for late Works Completion Refer B18.0 [19.8]: To be calculated at Thirty percent (30%) of penalty / calendar day to complete Select , excluding VAT	
Penalty amount per calendar day for late Final Completion [21]: To be calculated at Fifteen percent (15%) of penalty / calendar day to complete Select , excluding VAT	

B 13.0 Criteria to achieve Practical Completion [19.0; 20.0]

Criteria to achieve Practical Completion not covered in the definition of practical completion	
13.1	Obtain Occupation Certificate from the relevant authority prior to issuing the Practical Completion certificate
13.2	All relevant CoCs
13.3	All guarantees
13.4	Training on electrical, security and mechanical installations if contractually required
13.5	Maintenance / operating manuals
13.6	CPG and cidb BUILD programme achievement certificates submitted with substantiating documentation
13.7	
13.8	
13.9	
13.10	

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B 14.0 Defects liability period [21.0]

Extended defects liability period: Refer B18.0 [21.13]

Applicable	If applicable, description of applicable elements
14.1	Emergency generator/s
14.2	Air conditioning system and plant
14.3	Security system/s (e.g. Access control, Intruder alarm, etc.)
14.4	Electrical equipment (e.g. Electric operated doors, Electric motors, etc.)
14.5	Lifts
14.6	Mechanical equipment (e.g. Fire detection, Fire suppression system, Kitchen equipment, etc.)
14.7	Civil works
14.8	Landscaping including automated systems (irrigation)
14.9	
14.10	

B 15.0 Payment [25.0]

Date of month for issue of regular payment certificates Refer B18.0 [25.2]	20
Contract price adjustment / Cost fluctuations Refer [25.3.4; 26.9.5]	Applicable
If applicable, method to calculate	CPAP
Employer shall pay the contractor within: Refer B18.0 [25.10]	Thirty (30) calendar days

B 16.0 Dispute resolution [30.0]

Mediation	Applicable
Name of nominating body	Association of Arbitrators (Southern Africa)
Appointment of Mediator	State Attorney
Litigation	Court with Jurisdiction

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B 17.0 JBCC® General Preliminaries - selections

Provisional bills of quantities [P2.2]		Not Applicable
Availability of construction information [P2.3]		Applicable
Previous work - dimensional accuracy - details of previous contract(s) [P3.1]		Applicable
Previous work - defects - details of previous contract(s) [P3.2]		Applicable
Inspection of adjoining properties - details [P3.3]		Not Applicable
Handover of site in stages - specific requirements [P4.1]		Applicable
Enclosure of the works - specific requirements [P4.2]		Applicable
Geotechnical and other investigations - specific requirements [P4.3]		Applicable
Existing premises occupied - details [P4.5]		Applicable
Services - known - specific requirements [P4.6]		Applicable
Water [P8.1]	By contractor	Applicable
	By employer	Not Applicable
	By employer – metered	Not Applicable
Electricity [P8.2]	By contractor	Applicable
	By employer	Not Applicable
	By employer – metered	Not Applicable
Ablution and welfare facilities [P8.3]	By contractor	Applicable
	By employer	Not Applicable
Communication facilities - specific requirements [P8.4]		Not Applicable
Protection of the works - specific requirements [P11.1]		Applicable
Protection / isolation of existing works and works occupied in sections - specific requirements [P11.2]		Applicable
Disturbance - specific requirements [P11.5]		Not Applicable
Environmental disturbance - specific requirements [P11.6]		Not Applicable

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B 18.0 SPECIFIC CHANGES MADE TO JBCC® DOCUMENTATION

[Details of changes made to the provisions of **JBCC** standard documentation]

1.2	<p>Definitions</p> <p>The following definitions replace corresponding definitions or are added to the definitions in the JBCC PRINCIPAL BUILDING AGREEMENT (Edition 6.2 of May 2018), whatever the case may be.</p> <p>ADVERSE WEATHER CONDITIONS: Adverse weather and inclement weather has the same meaning and used interchangeably and means any weather conditions i.e.: Rain, wind, snow, frost, temperature (cold or heat) that are not in the norm for the area where the construction takes place and during which no work is possible on site.</p> <p>AGREEMENT: The completed Form of Offer and Acceptance, the completed JBCC® Principal Building Agreement and contract data for organs of state and other public sector bodies, the contract drawings, the priced document and any other documents reduced to writing and signed by the authorised representative or representatives of the parties.</p> <p>CONSTRUCTION PERIOD: The period commencing on the date of possession of the site by the contractor and ending on the date of practical completion.</p> <p>CONTRACT PERIOD: The period commencing on the date of the letter of acceptance and ending on the date of final completion.</p> <p>COST FLUCTUATION shall mean contract price adjustment provision (CPAP) for the adjustment of fluctuation in the cost of labour, plant, material and goods as stated in the schedule.</p> <p>DEFAULT INTEREST: No clause.</p> <p>GUARANTEE FOR CONSTRUCTION: A security in terms of the DPWI's Guarantee for Construction form/s, obtained by the contractor from an institution approved by the employer [CD].</p> <p>INTEREST: The interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No 1 of 1999) as amended, calculated as simple interest, in respect of debts owing to the State, and will be the rate as published by the Minister of Justice and Correctional Services from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No 55 of 1975) as amended, calculated as simple interest, in respect of debts owing by the State.</p> <p>LETTER OF ACCEPTANCE: The letter of formal acceptance of the Contractor's or Service Provider's Tender / Bid, issued and signed by the Employer.</p> <p>PAYMENT CERTIFICATE: A certificate issued at regular agreed intervals [CD] by the principal agent to the parties certifying the amount due and payable in terms of clause 25.3.</p> <p>PRINCIPAL AGENT: The person or entity appointed by the employer and named in the contract data for organs of state and other public sector bodies. In the event of a principal agent not being appointed, then all the duties and obligations of a principal agent as detailed in the agreement shall be fulfilled by the employer's representative as named in the contract data for organs of state and other public sector bodies.</p> <p>TARGETED SUBCONTRACTORS: Subcontractors that must be appointed to a total of 30% or more of the contract sum, by the contractor, projects with a contract sum of the amount determined by the Minister in terms of the latest Preferential Procurement regulations, as may be amended from time to time.</p>
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CONTRACT SPECIFIC DATA	
The following contract specific data, referring to the General Conditions of Contract for Construction Works, JBCC PRINCIPAL BUILDING AGREEMENT (Edition 6.2 of May 2018), are applicable to this Contract:	
3.3	Replace clause with the following: This agreement shall come into force on the date of letter of acceptance and continue to be of force and effect until the end of the latent defects liability period [22.0] notwithstanding termination [29.0] or the certification of final completion [21.0] and final payment [25.0].
4.2	Refer to clause 6.7 [CD].
4.3	Replace clause with the following: Where a contractor cedes any right or any monies due to or to become due under this agreement as security in favour of a financial institution, the prior written consent of the employer, which consent shall not be unreasonably withheld, must be obtained.
5.2	Replace last sentence with the following: The original signed agreement shall be held by the Employer.
5.4	Replace clause with the following: The Bills of Quantities shall not be used as a specification of material and goods or methods unless so instructed by the Principal Agent. The contractor may not use the Bills of Quantities for purpose of ordering material. All dimensions and quantities must be determined on site before ordering. In the event of discrepancy between the drawings and Bills of Quantity, the drawings shall take preference.
5.5	Replace clause with the following: The parties may publish or disclose on any platform only the contract scope and contract amount.
6.5	Replace clause with the following: Where the principal agent and/or an agent fails to act or is unable to act or ceases to be the principal agent or an agent in terms of this agreement, the employer may appoint another principal agent and/or an agent, be it temporary or permanently.
6.7	Add the following as clause 6.7: In terms of the clauses listed hereunder, the employer has retained its authority and has not given a mandate to the principal agent, notwithstanding other provisions in the contract. The employer shall sign all documents in relation to clauses 4.2, 14.1.4, 14.4.1, 14.6, 15.1.4, 15.4.1, 23.1, 23.2, 23.3, 23.7, 23.8, 26.1, 26.7, 26.12.
7.2	Replace first sentence with the following: Any design responsibility undertaken by a subcontractor shall not devolve on the contractor except for items that require specific component design and or compatibility design and or shop drawings and or the assembly thereof.
8.4	Replace clause with the following: The contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary.
9.2.7	Add the following to the end of the first sentence: "... due to no fault of the contractor".

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9.2.9	No clause.
9.2.10	No clause.
9.3	Add the following as clause 9.3: The employer's rights to claim damages for the contractor's omissions and actions will not be affected.
10.1	Replace clause with the following: The party responsible shall effect and keep the respective insurances [CD] in force, in favour of the employer as beneficiary, from the date of possession of the site until the issue of the certificate of practical completion and with an extension to cover the contractor's obligations after the date of practical completion [8.2.2].
10.1.5.1	Add the following as clause 10.1.5.1: Hi Risk Insurance In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable sub-surface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:
10.1.5.1.1	Add the following as clause 10.1.5.1.1: Damage to the works The contractor shall, from the date of possession of the site until the date of the certificate of practical completion, bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary. When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs.
10.1.5.1.2	Add the following as clause 10.1.5.1.2: Injury to persons or loss of or damage to property The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above. The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable property, or personal property, or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract.
10.1.5.1.3	Add the following as clause 10.1.5.1.3: It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.1.5.1.1 and 10.1.5.1.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the date of letter of acceptance, but before commencement of the works, submit to the employer proof of such insurance policy.

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10.1.5.1.4	Add the following as clause 10.1.5.1.4: The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.1.5.1.1; 10.1.5.1.2 and 10.1.5.1.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole.
10.2	Replace clause with the following: Where practical completion in sections is required [20.0), or where the works is for alterations and additions, the contractor shall effect and keep in force contract works insurance [10.1.1], supplementary insurance [10.1.2], public liability insurance [10.1.3] and where applicable, removal of lateral support insurance [10.1.4] and other insurances [10.1.5) in favour of the employer as beneficiary.
10.6	No clause.
10.11	Add the following as clause 10.11 In the event that an insurer dispute the amount of the claim to be paid to the employer, the contractor shall be liable to the employer for the difference between the claim (as determined by the employers QS appointed on the project) made by the employer and the amount that the insurer is willing to pay.
11.1	Add the following to clause 11.1. In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT). In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of C 1.0 Securities, as stated in the schedule. Such security shall be provided to the employer within fifteen (15) working days from contract commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within fifteen (15) working days from the contract commencement date, the security in terms of C 1.0 Option C shall be deemed to have been selected. The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandis</i> in terms of 25.12.1 - 25.12.5.
11.1.1	No clause.
11.1.2	No clause.
11.2.2	No clause.
11.3	No clause.
11.4.1	Replace clause 11.4.1 with the following: Hand over the site to the contractor and withhold an amount equal to ten per cent (10%) of each interim payment certificate until practical completion is achieved. The value certified shall be subject to the adjustments in terms of 25.12.6 to 25.12.10.
11.5	No clause.
11.6	No clause.

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11.7	No clause.
11.8	No clause.
11.9	No clause.
11.10	No clause.
11.11	Add the following as clause 11.11 Where the security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected:
11.11.1	Add the following as clause 11.11.1 The contractor shall furnish the employer with a cash deposit equal in value to ten percent (10%) of the contract sum (excluding VAT) within fifteen (15) working days from the contract commencement date. Failure to furnish the employer with a cash deposit within fifteen (15) working days clause 11.4 will apply <i>mutatis mutandis</i> .
11.11.2	Add the following as clause 11.11.2 The employer shall be entitled to recover expense and loss from the cash deposit in terms of 27.0 provided that the employer notifies the Contractor in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor.
11.11.3.	Add the following as clause 11.11.3 Within fifteen (15) working days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT).
11.11.4	Add the following as clause 11.11.4 Within fifteen (15) working days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT).
11.11.5	Add the following as clause 11.11.5 On the date of payment of the amount in the final payment certificate, the employer shall refund the remainder of the cash deposit to the contractor.
11.11.6	Add the following as clause 11.11.6 The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party.
11.12	Add the following as clause 11.12 Where security as a variable construction guarantee of ten percent (10%) of the contract sum (excluding VAT) has been selected:
11.12.1	Add the following as clause 11.12.1 The contractor shall furnish the employer with an acceptable variable construction guarantee equal in value to ten per cent (10%) of the contract sum (excluding VAT) within fifteen (15) working days after issuance of the letter of acceptance. Failure to submit an acceptable variable construction guarantee within fifteen (15) working days clause 11.4 will apply <i>mutatis mutandis</i> .
11.12.2	Add the following as clause 11.12.2 The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender.

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11.12.3	Add the following as clause 11.12.3 The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring.
11.12.4	Add the following as clause 11.12.4 Where the employer has a right of recovery against the contractor in terms of 27.0, the employer shall issue a written demand in terms of the variable construction guarantee.
11.13	Add the following as clause 11.13 Where security is a fixed construction guarantee of five per cent (5%) of the contract sum (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:
11.13.1	Add the following as clause 11.13.1 The contractor shall furnish a fixed construction guarantee to the employer equal in value to five per cent (5%) of the contract sum (excluding VAT).
11.13.2	Add the following as clause 11.13.2 The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical completion.
11.13.3	Add the following as clause 11.13.3 The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring.
11.13.4	Add the following as clause 11.13.4 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandis</i> in terms of 25.12.1 - 25.12.5.
11.13.5	Add the following as clause 11.13.5 Where the employer has a right of recovery against the contractor in terms of 27.0, 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 from both.
11.14.1	Add the following as clause 11.14.1 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:
11.14.2	Add the following as clause 11.14.2 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 fifteen (15) working days from the contract commencement date. Failure to submit a cash deposit within fifteen (15) working days clause 11.4 will apply <i>mutatis mutandis</i> .
11.14.3	Add the following as clause 11.14.3 Within fifteen (15) working days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor.
11.14.4	Add the following as clause 11.14.4 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandis</i> in terms of 25.12.1 - 25.12.5.
11.14.5	Add the following as clause 11.14.5 Where the employer has a right of recovery against the contractor in terms of 27, the employer may recover from the payment reduction or cash deposit or from both.

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11.15	Add the following as clause 11.15 Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected:
11.15.1	Add the following as clause 11.15.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandis</i> in terms of 25.12.6 to 25.12.10.
11.15.2	Add the following as clause 11.15.2 The employer shall be entitled to recover expense and loss from the cash deposit in terms of 27.0 provided that the employer notifies the Contractor in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor.
11.16	Add the following as clause 11.16 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.
11.17	Add the following as clause 11.17 Should the contractor fail to furnish the security in terms of 11.2 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).
12.1.1	No Clause.
12.1.5	Replace clause with the following: Give possession of the site to the contractor within ten (10) working days after approval of the Health and Safety Plan or the issue of a construction permit by the Department of Labour, if applicable, after the contractor complied with the terms of 12.2.22.
12.1.6	No clause.
12.1.8	No clause.
12.2.2	Replace clause with the following: The priced Bills must be submitted to the Employer within fourteen (14) calendar days from date of request. Where the priced document contains errors or discrepancies and/or prices considered by the employer or principal agent to be imbalanced or unreasonable the employer or principal agent and the contractor shall adjust such prices without any change to the contract sum .
12.2.5	Replace clause with the following: Effect and keep in force insurances in favour of the employer as beneficiary where the contractor is responsible for providing insurances [10.0] [CD].
12.2.13	Replace clause with the following: Designate a competent person full time on site to continuously administer and control the works on site and to receive and implement notices and contract instructions on behalf of the contractor.
12.2.22	Insert the following clause as 12.2.22: Within fourteen (14) working days of the date of the letter of acceptance submit to the principal agent an acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993).

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12.2.23	Insert the following clause as 12.2.23: The contractor shall within reasonable time inform the agents regarding inspection of the works before covering / closing [B 12.0].
14.1.4	Refer to clause 6.7 [CD].
14.1.5	No clause.
14.4.1	Replace "principal agent" with "employer" [6.7 [CD]].
14.6	Refer to clause 6.7 [CD].
15.0	See clause 6.7 above for clauses, 15.5.
15.1.2	Replace clause with the following: The principal agent shall call for tenders from a list of tenderers agreed between the contractor and the employer.
15.1.4	Refer to clause 6.7 [CD].
15.1.5	No clause.
15.4.1	Replace "principal agent" with "employer" [6.7 [CD]].
17.4	Replace clause with the following: The contractor shall comply with and duly execute all contract instructions except any contract instruction for additional work issued after the date of practical completion other than making good physical loss and repairing damage to the works in terms of 8.0 and 21.
17.6	Add the following as clause 17.6: Minutes of meetings shall not constitute a site instruction unless reduced to a written contract instruction issued by the principal agent in terms of this contract / agreement.
19.5	Replace clause with the following: On issue of the only or last certificate of practical completion the employer shall be entitled to possession of the works and the site. On issue of the certificate of practical completion for a section, the employer shall be entitled to possession of such section.
19.8	Add the following as: 19.8 WORKS COMPLETION (1) Within seven (7) calendar days of the date of practical completion the principal agent shall issue to the contractor a works completion list defining the outstanding work and defects apparent at the date of practical completion to be completed or rectified to achieve works completion. (2) Where, in the opinion of the contractor, the works completion list has been completed the contractor shall notify the principal agent who shall inspect within seven (7) calendar days of receipt of such a notice. Where, in the opinion of the principal agent, the Works Completion list: (2)(a) Has been satisfactorily completed, the principal agent shall forthwith issue a certificate of Works Completion to the contractor with a copy to the employer

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<p>19.8 Continued</p>	<p>(2)(b) Has not been satisfactorily completed, the principal agent shall forthwith identify the works completion list items that are not yet complete and inform the contractor thereof. The contractor shall repeat the procedure in terms of 19.8(2)</p> <p>(3) Should the principal agent not issue a works completion list, in terms of 19.8 (1) or 19.8 (2) (b), within seven (7) calendar days from the end of the inspection period, the contractor shall notify the employer and principal agent. Should the principal agent not issue such Works Completion list within seven (7) calendar days of receipt of such notice, the employer may within seven (7) calendar days issue to the contractor a Works Completion list. Should the employer:</p> <p>(3)(a) Not issue such works completion list within seven (7) calendar days, then the certificate of Works Completion shall be deemed to have been issued on the date of expiry of the initial notice period and works completion shall be deemed to have been achieved on such date</p> <p>(3b) Issue a works completion list and the work on Works Completion list not have been completed or where further defects have become apparent, the employer shall forthwith identify such items on the updated works completion list and notify the contractor. The contractor shall repeat the procedure in terms of 19.8 (2) (b) until such items have been completed to the satisfaction of the employer</p> <p>(4) Should the works completion list not be completed to the satisfaction of the employer within a period of twenty (20) working days of the issue final works completion list the contractor shall be liable to a daily penalty as described in B13.</p> <p>(5) The defects liability period in terms of 21.1 shall commence with the issue or deemed issue of the certificate of Works Completion in terms of 19.8(2)(a) or 19.8(3).</p>
<p>20.2.1.A</p>	<p>Add the following as: 20.2.1.A A certificate of Works Completion [19.8]</p>
<p>21.1</p>	<p>Replace clause 21.1 with the following: The defects liability period for the works shall commence on the calendar day following the date of works completion and end at midnight (00:00) ninety (90) calendar days from the date of works completion [CD] or when work on the list for completion has been satisfactorily attended to [21.6), whichever is the later (if we use works completion).</p>
<p>21.6</p>	<p>Replace clause 21.6 with the following: On the expiry of the ninety (90) calendar days defects liability period [21.1] for items not indicated as items with an extended liability as indicated in B14 and on receipt of the contractor's notice to the principal agent.</p> <p>And/or</p> <p>On the expiry of the defects liability period as indicated in B14, for items indicated in B14 and on receipt of the contractor's notice to the principal agent, the principal agent shall:</p> <p>(1) inspect the works And within ten (10) working days either issue a list for final completion detailing all outstanding work or defects that must be attended to, or rectified to achieve final completion or</p> <p>(2) issue the certificate of final completion to the contractor with a copy to the employer for that part of the works where defects liability period has expired.</p>
<p>21.6.1.</p>	<p>Omit clause.</p>

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21.6.2	Omit clause.
21.13	Add the following as clause 21.13 The ninety (90) calendar day defects liability period for the works [21.1] is replaced with an extended defects liability period of three hundred and sixty-five (365) calendar days in respect of the listed applicable elements in B14.
21.14	Add the following as clause 21.14 Penalties will be applied if the items on the completion list have not been attended to within a period of ninety (90) calendar days [21.1]. If additional defect items have being added to the list during this period, then the Principal Agent and Contractor will agree on a revised completion date. Failing in achieving the revised date will result in penalties being applied [B12.0].
22.3.2	No clause.
23.1	Refer to clause 6.7 [CD].
23.2	Refer to clause 6.7 [CD].
23.2.13	No clause.
23.3	Replace 23.3 with the following: Further circumstances that delays practical completion due to any other cause beyond the contractor's reasonable control that could not have reasonably been anticipated and provided for which the contractor may be entitled to a revision of the date for practical completion, with or without an adjustment of the contract value as determined by the Employer [6.7 CD].
23.7	Refer to clause 6.7 [CD].
23.8	Refer to clause 6.7 [CD].
24.1	Replace clause 24.1 with the following: Where the contractor fails to bring the works , or a section thereof, to practical-, works-, or final- completion by the applicable completion date [B10 CD], or the revised applicable completion date, the contractor shall be liable to the employer for the penalty [B10 CD].
24.2	Replace clause 24.2 with the following: Where the employer elects to levy such penalty the employer , or the principal agent on instruction from the employer , shall give notice thereof to the contractor . The principal agent shall determine the penalty due from the later of the date for practical- works-, or final- completion [B10 CD], or the revised date for practical- works-, or final- completion , up to and including the earlier of:
24.2.1	Replace clause 24.2.1 with the following: The actual or deemed date of practical-, works- or final- completion of the works , or a section thereof [23.7.1].
25.2	Replace clause 25.2 with the following: The principal agent shall issue at regular agreed intervals [CD] payment certificates, to the contractor with a copy to the employer, up to and including practical completion. Interim Payment certificates may be issued to the contractor between practical completion and the final payment certificate. A payment certificate may be for a nil or negative amount.

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25.3	<p>Add the following to clause 25.3:</p> <p>25.3.12 Monthly Local content report.</p> <p>25.3.13 EPWP / NYS payment register, labour reports and certified ID document of EPWP/ NYS beneficiaries, Contract between Contractor and EPWP/ NYS beneficiaries, attendance register (if applicable).</p> <p>25.3.14 Tax Invoice.</p> <p>25.3.15 Labour intensive report.</p> <p>25.3.16 Contract participation goal and cidb BUILD programme reports.</p>
25.5	No Clause.
25.6	<p>Replace clause 25.6 with the following: Materials and goods will only be certified and paid for upon providing proof of full payment to the supplier and proof of transfer of ownership from the supplier to the contractor by the contractor. Once paid, material and goods shall become the property of the employer and shall not be removed from site without the written authority of the Employer.</p>
25.7.5	No clause.
25.10	<p>Replace clause 25.10 with the following: The employer shall pay the contractor the amount stipulated in an issued payment certificate, correct in all material respects, within thirty (30) calendar days from the date of receiving the payment certificate and invoice including all other substantiating documentation for items certified in the payment certificate.</p>
25.12	<p>Replace clauses 25.12 to 25.12.3 with the following: The value certified shall be subject to the following percentage adjustments :</p> <p>(Clauses 25.12.1 to 25.12.5 shall be applicable to a contract sum up to R1 million. In the event of a contract sum more than R1 million for Options D & E (C 1.0 Securities [11.0]) Clauses 25.12.1 to 25.12.5 shall be applicable)</p> <p>25.12.1 Where a security is selected in terms of C 1.0 Securities [11.0] the value of the works in terms of 25.1 and of the materials and goods in terms of 25.4 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</p> <p>25.12.2 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion.</p> <p>25.12.3 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of works completion and up to but excluding the date of final completion.</p> <p>25.12.4 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 26.</p> <p>25.12.5 One hundred per cent (100%) of such value in the final payment certificate in terms of 26 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.</p>

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<p>25.12 Continued</p>	<p>(Clauses 25.12.6 to 25.12.10 shall be applicable to a contract sum more than R1 million for Option C (C 1.0 Securities [11.0])</p> <p>25.12.6 Where security is a payment reduction in term of Option C, the value of the works in terms of 25.1 and materials and goods in terms of 25.4 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</p> <p>25.12.7 Ninety per cent (90%) of such value in interim payment certificates issued up to the date of practical completion.</p> <p>25.12.8 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.</p> <p>25.12.9 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 26.</p> <p>25.12.10 One hundred per cent (100%) of such value in the final payment certificate in terms of 26 except were 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.</p>
<p>26.1</p>	<p>Refer to clause 6.7 [CD].</p>
<p>26.4.3</p>	<p>Omit clause.</p>
<p>26.7</p>	<p>Refer to clause 6.7 [CD].</p>
<p>26.10</p>	<p>Replace 26.10 with the following: The principal agent shall prepare the final account in consultation with the employer and issue the final account, to the contractor within sixty (60) working days of the date of practical completion.</p>
<p>26.12</p>	<p>Refer to clause 6.7 [CD].</p>
<p>27.1.2</p>	<p>Replace 27.1.2 with the following: Interest due to late payment only.</p>
<p>27.1.4</p>	<p>Replace 27.1.4 with the following: Interest due to late payment only.</p>
<p>27.1.5</p>	<p>No clause.</p>
<p>27.5</p>	<p>Add the following as clause 27.5: Where the employer decides to recover an amount due in terms of 27.2 from a construction guarantee, cash deposit or retention money held as security, the employer shall issue a written demand to the contractor before recovering the amount. Should such amount not be paid to the employer within fourteen (14) calendar days of the date-of notice by the employer, the employer may recover such an amount from the security.</p>

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27.6	Add the following as clause 27.6: Where a provisional sequestration or provisional liquidation order has been granted or where an order has been granted which commences sequestration, liquidation, bankruptcy, receivership, winding-up or any similar effect, against the contractor or this agreement is cancelled in terms of 29, the employer may issue a demand to the guarantor in terms of the construction guarantee or advance payment guarantee held as security.
28.0	No clause.
28.1	No clause.
28.1.1	No clause.
28.1.2	No clause.
28.1.3	No clause.
28.1.4	No clause.
28.1.5	No clause.
28.2	No clause.
28.3	No clause.
28.4	No clause.
29.1.4	Add the following as clause 29.1.4: The contractor's estate has been sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa.
29.1.5	Add the following as clause 29.1.5: The contractor has engaged in corrupt or fraudulent practices in competing for or in executing the contract.
29.1.6	Add the following as clause 29.1.6: Honour his obligations in terms of clauses 10.1.5.1.3, 11.4.1 and 12.2. sub-clauses 5, 6, 8, 9, 10, 11, 12, 13, 15, 16, 19, 20, 22.
29.7	Replace clause 29.7 with the following: The employer, on notice to the contractor, may recover damages from the contractor from the date of termination including, but not limited to, additional costs incurred in the completion, consultant cost, rental of alternative accommodation, invitation of completion tenders, salaries of officials and safeguarding the site, of the remaining work [25.3.7; 27.1.3].
29.9	Replace clause 29.9 with the following: The employer has the right of recovery against the contractor , where applicable, [CD] from: The guarantee for construction (variable) until the final payment has been made; or The guarantee for construction (fixed) until the date of practical completion; or The payment reduction until the final payment is made; or The cash deposit made as security until the final payment is made.
29.14.1	No clause.
29.14.3	No clause.

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29.14.4	No clause.
29.14.5	No clause.
29.14.6	No clause.
29.14.7	No clause.
29.15	No clause.
29.16	No clause.
29.17.3	No clause.
29.17.6	No clause.
29.21.5	No clause.
29.22	No clause.
29.23	No clause.
29.25.3	No clause.
29.25.4	No clause.
29.27	No clause.
30.2	Replace clause 30.2 with the following: Where such disagreement is not resolved within ten (10) working days of receipt of such notice it shall be deemed to be a dispute and shall be submitted to Mediation as a first method of dispute resolution failing which the parties will resort to Litigation.
30.3 to 30.7.7	No clauses.
30.8	Replace clause 30.8 with the following: The parties may, by agreement and at any time before Litigation, refer a dispute to mediation, in which event:
30.8.1	No clause.
30.8.2	Replace clause 30.8.2 with the following: The appointment of a mediator, the procedure, and the status of the outcome shall be agreed between the parties.
30.8.3	Replace clause 30.8.3 with the following: Regardless of the outcome of a mediation the parties shall bear their own costs concerning the Mediation and equally share the costs of the mediator and related expenses.
30.9	Replace clause 30.9 with the following: Institution of Litigation shall be commenced and process served within three (3) year from the date of existence of the dispute, failing which the dispute shall lapse.
30.10	No clause.
30.12	No clause.

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B 19.0 CONTRACT PARTICIPATION GOAL TARGETS AND CIDB B.U.I.L.D. PROGRAMME

The contractor shall achieve in the performance of the contract the following Contract Participation Goals (CPGs) as described in PG-01.2 (EC): Scope of Work and PG-02.2 (EC): Pricing Assumptions and in accordance with the feasibility study, which forms part of the specifications in the CPG Section of the Specification of this contract.

(a)	Minimum 30% mandatory Subcontracting to SMMEs in accordance with the Preferential Procurement Policy Framework Act, 2000: Preferential Procurement Regulations, 2017 as published in the Government Gazette Notice No. 40553 of 20 January 2017 – Condition of Tender. (Applicable to all projects above R30 Mil for all class of works categories)	Not applicable
(b)	Minimum Targeted Local Manufacturers of Material Contract Participation Goal, in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract. (Applicable to projects which require 7GB or 7CE cidb grading, i.e. R20 000 001 and above with minimum 6 month construction period)	Not applicable
(c)	Minimum Targeted Local Building Material Suppliers Contract Participation Goal in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract. (Applicable to projects which require 7GB or 7CE cidb grading, i.e. R20 000 001 and above with minimum 6 month construction period)	Not applicable
(d)	Minimum Targeted Local Labour Skills Development Contract Participation Goal in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract. (Applicable to projects which require Grade 7 to 9 cidb grading, i.e. R20 000 001 and above with minimum 12 month construction period)	Applicable
(e)	cidb BUILD Programme: Minimum Targeted Enterprise Development Contract Participation Goal in accordance with the cidb Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, No 36190 Government Gazette, 25 February 2013, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract. (Applicable to projects which require 7GB or 7CE cidb grading, i.e. R20 000 001 and above with minimum 6 month construction period)	Applicable
(f)	cidb BUILD Programme: Minimum Targeted Contract Skills Development Goal in accordance with the cidb Standard for Developing Skills through Infrastructure Contracts as published in the Government Gazette Notice No. 43495 of 3 July 2020, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract. (Applicable to projects which require cidb Grade 7 and above for all class of works categories, i.e. R20 000 001 and above with minimum 12 month construction period)	Not applicable
(g)	DPWI National Youth Service training and development programme (NYS) – Condition of Contract. (Applicable to projects with a minimum contract value R2 Mil and minimum 12 month construction period.)	Applicable

Tender / Quotation no: PE25/2022

(h)	Labour Intensive Works – Condition of Contract. (Applicable to all CE projects and all GB projects ≥ R30 million)	Not applicable
(i)	Minimum 25% mandatory sub-contracting to local SMMEs applicable to all class of works categories will be treated as the condition of contract where the appointed contractor will be expected to comply. Project Manager and Professional Team will be tasked to monitor the compliance of this mandatory sub-contracting.	Applicable
(j)		Select

PART 2: CONTRACT DATA COMPLETED BY THE TENDERER:

C TENDERER'S SELECTIONS

C 1.0 Securities [11.0]

In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT).

In respect of contracts with a contract sum more than R1 million, the security to be provided by the contractor to the employer will be selected by the Contractor as indicated below:

Guarantee for construction: Select Option A, B, C, D or E

Option A	cash deposit of 10 % of the contract sum (excluding VAT)
Option B	variable construction guarantee of 10 % of the contract sum (excluding VAT) (DPW-10.3 EC)
Option C	payment reduction of 10% of the value certified in the payment certificate (excluding VAT)
Option D	cash deposit of 5% of the contract sum (excluding. VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding. VAT)
Option E	fixed construction guarantee of 5% of the contract sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT) (DPW-10.1 EC)]

NB: Insurances submitted must be issued by either an insurance company duly registered in terms of the Insurance Act [Long-Term Insurance Act, 1998 (Act 52 of 1998) or Short-Term Insurance Act, 1998 (Act 53 of 1998)] or by a bank duly registered in terms of the Banks Act, 1990 (Act 94 of 1990) on the

pro-forma referred to above. No alterations or amendments of the wording of the pro-forma will be accepted.

Tender / Quotation no: PE25/2022

Guarantee for payment by employer [11.5.1; 11.10]	Not applicable
Advance payment, subject to a guarantee for advance payment [11.2.2; 11.3]	Not applicable

C 2.0 Payment of preliminaries [25.0]

Contractor's selection

Select Option A or B

Where the **contractor** does not select an option, Option A shall apply

Payment methods

Option A	The preliminaries shall be paid in accordance with an amount prorated to the value of the works executed in the same ratio as the amount of the preliminaries to the contract sum , which contract sum shall exclude the amount of preliminaries . Contingency sum(s) and any provision for cost fluctuations shall be excluded for the calculation of the aforesaid ratio
Option B	The preliminaries shall be paid in accordance with an amount agreed by the principal agent and the contractor in terms of the priced document to identify an initial establishment charge, a time-related charge and a final dis-establishment charge. Payment of the time-related charge shall be assessed by the principal agent and adjusted from time to time as may be necessary to take into account the rate of progress of the works

Lump sum contract

Where the amount of **preliminaries** is not provided it shall be taken as 7.5% (seven and a half per cent) of the **contract sum**, excluding contingency sum(s) and any provision for cost fluctuations.

C 3.0 Adjustment of preliminaries [26.9.4]

Contractor's selection

Select Option A or B

Where the **contractor** does not select an option, Option A shall apply.

Provision of particulars

The **contractor** shall provide the particulars for the purpose of the adjustment of **preliminaries** in terms of his selection. Where completion in **sections** is required, the **contractor** shall provide an apportionment of **preliminaries** per **section**.

Tender / Quotation no: PE25/2022

Option A	An allocation of the preliminaries amounts into Fixed, Value-related and Time-related amounts as defined for adjustment method Option A below, within fifteen (15) working days of the date of acceptance of the tender
Option B	A detailed breakdown of the preliminaries amounts within fifteen (15) working days of possession of the site . Such breakdown shall include, inter alia, the administrative and supervisory staff, the use of construction equipment , establishment and dis-establishment charges, insurances and guarantees, all in terms of the programme

Adjustment methods

The amount of **preliminaries** shall be adjusted to take account of the effect which changes in time and/or value have on **preliminaries**. Such adjustment shall be based on the particulars provided by the **contractor** for this purpose in terms of Options A or B, shall preclude any further adjustment of the amount of **preliminaries** and shall apply notwithstanding the actual employment of resources by the **contractor** in the execution of the **works**.

Option A	<p>The preliminaries shall be adjusted in accordance with the allocation of preliminaries amounts provided by the contractor, apportioned to sections where completion in sections is required</p> <p>Fixed - An amount which shall not be varied.</p> <p>Value-related - An amount varied in proportion to the contract value as compared to the contract sum. Both the contract sum and the contract value shall exclude the amount of preliminaries, contingency sum(s) and any provision for cost fluctuations.</p> <p>Time-related - An amount varied in proportion to the number of calendar days extension to the date of practical completion to which the contractor is entitled with an adjustment of the contract value [23.2; 23.3] as compared to the number of calendar days in the initial construction period [26.9.4].</p>
Option B	<p>The adjustment of preliminaries shall be based on the number of calendar days extension to the date of practical completion to which the contractor is entitled with an adjustment of the contract value [23.2; 23.3] as compared to the number of calendar days in the initial construction period [26.9.4]. The adjustment shall take into account the resources as set out in the detailed breakdown of the preliminaries for the period of construction during which the delay occurred.</p>

Failure to provide particulars within the period stated

Option A	<p>Where the allocation of preliminaries amounts for Option A is not provided, the following allocation of preliminaries amounts shall apply:</p> <p>Fixed - Ten per cent (10%) Value-related - Fifteen per cent (15%) Time-related - Seventy-five per cent (75%)</p> <p>Where the apportionment of the preliminaries per section is not provided, the categorised amounts shall be prorated to the cost of each section within the contract sum as determined by the principal agent</p>
Option B	Where the detailed breakdown of preliminaries amounts for Option B is not provided, Option A shall apply

Lump sum contract

Any reference to words "Bid" or Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

C1.3 Form of Guarantee

DPW-10.1 (EC): FIXED CONSTRUCTION GUARANTEE - JBCC 2000 PRINCIPAL BUILDING AGREEMENT (EDITION 6.2 OF MAY 2018)

Director-General
Department of Public Works and Infrastructure
Government of the Republic of South Africa

FOR ATTENTION

Private Bag

Sir,

FIXED CONSTRUCTION GUARANTEE FOR THE EXECUTION OF A CONTRACT IN TERMS OF JBCC 2000 (EDITION 6.2 OF MAY 2018)

1. With reference to the contract between _____

_____ (hereinafter referred to as the "**contractor**") and the Government of the Republic of South Africa in its Department of Public Works and Infrastructure (hereinafter referred to as the "**employer**"), Contract/Tender No: PE25/2022, for the Joubertina Police Station ERF 1200: Repairs & Maintenance of Electrical, Mechanical, Civil & Structural Elements to the Complex: Completion of Contract 1. (hereinafter referred to as the "contract") in the amount of R _____, (_____), (hereinafter referred to as the **contract sum**),

I / We, _____
in my/our capacity as _____ and hereby
representing _____ (hereinafter referred to as the "**guarantor**") advise that the **guarantor** holds at the **employer's** disposal the sum of R _____, (_____) being 5% of the **contract sum** (excluding VAT), for the due fulfillment of the contract.
2. The **guarantor** hereby renounces the benefits of the exceptions *non numeratae pecunia; non causa debiti; excussionis et divisionis; and de duobus vel pluribus reis debendi* which could be pleaded against the enforcement of this guarantee, with the meaning and effect whereof I/we declare myself/ourselves to be conversant, and undertake to pay the **employer** the amount guaranteed, on receipt of a written demand from the **employer** to do so, stating that the **employer** has a right of recovery against the **contractor** in terms of 33.0 of the contract.
3. Subject to the above, but without in any way detracting from the **employer's** rights to adopt any of the procedures provided for in the contract, the said demand can be made by the **employer**, at any stage prior to the expiry of this guarantee.
4. The amount paid by the **guarantor** in terms of this guarantee may be retained by the **employer** on condition that upon the issue of the last final **payment certificate**, the **employer** shall account to the **guarantor** showing how this amount has been expended and refund any balance due to the **guarantor**.

Tender no: *(Insert Tender Number)*

5. The **employer** shall have the absolute right to arrange his affairs with the **contractor** in any manner which the **employer** deems fit and the **guarantor** shall not have the right to claim his release on account of any conduct alleged to be prejudicial to the **guarantor**. Without derogating from the foregoing, any compromise, extension of the **construction period**, indulgence, release or variation of the **contractor's** obligation shall not affect the validity of this guarantee.
6. The **guarantor** reserves the right to withdraw from this guarantee at any time by depositing the guaranteed amount with the **employer**, whereupon the guarantor's liability ceases.
7. This guarantee is neither negotiable nor transferable, and
 - (a) must be surrendered to the **guarantor** at the time when the **employer** accounts to the **guarantor** in terms of clause 4 above, or
 - (b) shall lapse on the date of the last **certificate of practical completion**.
8. This guarantee shall not be interpreted as extending the **guarantor's** liability to anything more than payment of the amount guaranteed.

SIGNED AT _____ **ON THIS** _____ **DAY OF**
_____ **20**__

AS WITNESS

1. _____
2. _____

By and on behalf of

(insert the name and physical address of the guarantor)

NAME: _____

CAPACITY: _____
(duly authorised thereto by resolution attached marked Annexure A)

DATE: _____

- A. No alterations and/or additions of the wording of this form will be accepted.**
- B. The physical address of the guarantor must be clearly indicated and will be regarded as the guarantor's *domicilium citandi et executandi*, for all purposes arising from this guarantee.**
- C. This GUARANTEE must be returned to:** _____

DPW-10.3 (EC): VARIABLE CONSTRUCTION GUARANTEE - JBCC 2000 PRINCIPAL BUILDING AGREEMENT (EDITION 6.2 OF MAY 2018)

Director-General
Department of Public Works and Infrastructure
Government of the Republic of South Africa

FOR ATTENTION

Private Bag

Sir,

VARIABLE CONSTRUCTION GUARANTEE FOR THE EXECUTION OF A CONTRACT IN TERMS OF JBCC 2000 (EDITION 6.2 OF MAY 2018)

1. With reference to the contract between _____
_____ (hereinafter referred to as the “**contractor**”) and the Government of the Republic of South Africa, in its Department of Public Works and Infrastructure, (hereinafter referred to as the “**employer**”), Contract/Tender No: **PE25/2022**, for the **Joubertina Police Station ERF 1200: Repairs & Maintenance of Electrical, Mechanical, Civil & Structural Elements to the Complex: Completion of Contract 1**. (hereinafter referred to as the “**contract**” in the amount of R _____, (_____) (hereinafter referred as the **contract sum**),
I / We, _____
in my/our capacity as _____ and hereby
representing _____ (hereinafter referred to as the “**guarantor**”) advise that the **guarantor** holds at the **employer’s** disposal the sum of R _____, (_____) being 10% of the **contract sum** (excluding VAT), for the due fulfillment of the contract.
2. I / We advise that the **guarantor’s** liability in terms of this guarantee shall be as follows:
 - (a) From and including the date on which this guarantee is issued and up to and including the date of payment of the amount in the last final **payment certificate**, the **guarantor** will be liable in terms of this guarantee to the maximum amount of 10% of the **contract sum** (excluding VAT);
 - (b) The **guarantor’s** liability shall reduce to 3 % of the **contract value** (excluding VAT) as determined at the date of the last **certificate of practical completion**, subject to such amount not exceeding 10% of the **contract sum** (excluding VAT).
 - (c) The **guarantor’s** liability shall reduce to 1 % of the **contract value** (excluding VAT) as determined at the date of the last **certificate of final completion**, subject to such amount not exceeding 10 % of the **contract sum** (excluding VAT).
 - (d) This guarantee shall expire on the date of the last **final payment certificate**.
 - (e) The **practical completion certificate** and the **final completion certificate** referred to in this guarantee shall mean the certificates issued in terms of the contract.

Tender no: PE25/2022

3. The **guarantor** hereby renounces the benefits of the exceptions *non numeratae pecunia; non causa debiti; excussionis et divisionis;* and *de duobus vel pluribus reis debendi* which could be pleaded against the enforcement of this guarantee, with the meaning and effect whereof I/we declare myself/ourselves to be conversant, and undertake to pay the **employer** the amount guaranteed on receipt of a written demand from the **employer** to do so, stating that the **employer** has a right of recovery against the **contractor** in terms of 33.0 of the contract.
4. Subject to the above, but without in any way detracting from the **employer's** rights to adopt any of the procedures provided for in the contract, the said demand can be made by the **employer** at any stage prior to the expiry of this guarantee.
5. The amount paid by the **guarantor** in terms of this guarantee may be retained by the **employer** on condition that upon the issue of the last **final payment certificate**, the **employer** shall account to the **guarantor** showing how this amount has been expended and refund any balance due to the **guarantor**.
6. The **employer** shall have the absolute right to arrange his affairs with the **contractor** in any manner which the **employer** deems fit and the **guarantor** shall not have the right to claim his release on account of any conduct alleged to be prejudicial to the **guarantor**. Without derogating from the foregoing, any compromise, extension of the construction period, indulgence, release or variation of the **contractor's** obligation shall not affect the validity of this guarantee.
7. The **guarantor** reserves the right to withdraw from this guarantee at any time by depositing the amount guaranteed with the **employer**, whereupon the **guarantor's** liability ceases.
8. This guarantee is neither negotiable nor transferable, and
 - (a) must be surrendered to the **guarantor** at the time when the **employer** accounts to the **guarantor** in terms of clause 5 above, or
 - (b) shall lapse in accordance with clause 2(d) above.
9. This guarantee shall not be interpreted as extending the **guarantor's** liability to anything more than the payment of the amount guaranteed.

SIGNED AT _____ **ON THIS** _____ **DAY OF** _____ **20**__

AS WITNESS

1. _____

2. _____

Tender no: **PE25/2022**

By and on behalf of

(insert the name and physical address of the guarantor)

NAME: _____

CAPACITY: _____
(duly authorised thereto by resolution attached marked Annexure A)

DATE: _____

- A. No alterations and/or additions of the wording of this form will be accepted.**
- B. The physical address of the guarantor must be clearly indicated and will be regarded as the guarantor's *domicilium citandi et executandi*, for all purposes arising from this guarantee.**
- C. This guarantee must be returned to: _____**

Part C2: Pricing Data

C2.1 Pricing Assumptions

PG-02.2 (EC) PRICING ASSUMPTIONS - JBCC 2000 PRINCIPAL BUILDING AGREEMENT (Edition 6.2 of May 2018)

Project title:	<i>Joubertina Police Station ERF 1200: Repairs & Maintenance of Electrical, Mechanical, Civil & Structural Elements to the Complex: Completion of Contract 1.</i>				
Tender / Quotation no:	PE25/2022	WCS no:	051843	Reference no:	19/2/4/2/2/6417/24

C2.1 Pricing Assumptions

C2.1.1 BILLS OF QUANTITIES / LUMP SUM DOCUMENT

The **bills of quantities / lump sum document** forms part of and must be read and priced in conjunction with all the other documents forming part of the **contract documents**, the Standard Conditions of Tender, Conditions of Contract, Specifications, Drawings and all other relevant documentation.

The prices and rates to be inserted by the Tenderer in the Bill of Quantities shall be the full inclusive prices to be paid by the Employer for the work described under the several items, and shall include full compensation for all cost and expenses that may be required in and for the completion and maintenance during the defects liability period of all the work described and as shown on the drawings as well as all overheads, profits, incidentals and the cost of all general risks, liabilities and obligations set forth or implied in the documents on which the Tender is based.

Each item shall be priced and extended to the "Total" column by the Tenderer, with the exception of the items for which only rates are required, or items which already have Prime Cost or Provisional Sums affixed thereto. If the Contractor omits to price any items in the Bill of Quantities, then these items will be considered to have a nil rate or price.

No alterations, erasures, omissions or additions is to be made in the text and/or conditions of these Bills of Quantities. Should any such alterations, amendments, note/s or addition be made, the same will not be recognized, but reading of these Bills of Quantities as originally prepared by the Quantity Surveyor will be adhered to.

The contractor is cautioned that the use of any quantities appearing in these Bills of Quantities for the purpose of ordering material, it is done at own risk and no liability whatsoever will be admitted by the Employer or Quantity Surveyor for the correctness of such Quantities. Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance is made for waste.

The prices and rates to be inserted by the Tenderer in the Bills of Quantities shall be the full inclusive prices to be paid by the Employer for the work described. Such prices and rates shall cover all costs and expenses that may be required in and for the execution of the work described, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the documents on which the tender is based, as well as overhead charges and profit. Market related prices shall be inserted as these will be used as a basis for assessment of payment for additional work that may have to be carried out. The Employer reserves the right to balance the Bill rates where deemed necessary within the Tendered Amount.

A price or rate is to be entered against each item in the Bills of Quantities, whether the quantities are stated or not. An item against which no rate is/are entered, or if anything other than a rate or a nil rate (for example, a zero, a dash or the word "included" or abbreviations thereof) is entered against an item, it will also be regarded as a nil rate having been entered against that item, i.e. that there is no charge for that item. The Tenderer may be requested to clarify nil rates, or items regarded as having nil rates; and the Employer may also perform a risk analysis with regard to the reasonableness of such rates.

**PG-02.2 (EC) PRICING ASSUMPTIONS - JBCC 2000
PRINCIPAL BUILDING AGREEMENT (Edition 6.2 of May 2018)**

Should the full intent and meaning of any description not be clear, the bidder shall, before submission of his tender, call for a written directive from the principal agent, failing which it shall be assumed that the contractor has allowed in his pricing for materials and workmanship in terms of National Best Practice.

All items for which terminology such as “inclusive” or “not applicable” have been added by the Tenderer will be regarded as having a nil rate which shall be valid irrespective of any change in quantities during the execution of the Contract.

The Tenderer is required to check the Bills of Quantities and the numbers of the pages and should any be found to be missing or in duplicate, or should any of the typing be indistinct, or any doubt of obscurity arise as to the meaning of any description or particulars of any item, or if this Tender Enquiry contains any obvious errors, then the Tenderer must immediately inform the Principal Agent and have them rectified or explained in writing as the case may be. No liability whatsoever will be admitted by reason of the Contractor having failed to comply with the foregoing instruction.

The contractor is cautioned that the use of any quantities appearing in these Bills of Quantities for the purpose of ordering material, it is done at own risk and no liability whatsoever will be admitted by the Employer or Quantity Surveyor for the correctness of such Quantities. Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance is made for waste.

No alterations, erasures, omissions, or additions are allowed to be made to the text and/or conditions contained in these Bills of Quantities. If any such alteration, amendment, note or addition is made, it will not be recognised and the Bills of Quantities will be deemed to be as originally drawn up by the Quantity Surveyor.

A price or rate is to be entered against each item in the Bills of Quantities, whether the quantities are stated or not. An item against which no rate is/are entered, or if anything other than a rate or a nil rate (for example, a zero, a dash or the word “included” or abbreviations thereof) is entered against an item, it will also be regarded as a nil rate having been entered against that item, i.e. that there is no charge for that item. The Tenderer may be requested to clarify nil rates, or items regarded as having nil rates; and the Employer may also perform a risk analysis with regard to the reasonableness of such rates.

All items for which terminology such as “inclusive” or “not applicable” have been added by the Tenderer will be regarded as having a nil rate which shall be valid irrespective of any change in quantities during the execution of the Contract.

The Tenderer shall fill in rates for all items where the words “rate only” appear in the “Total” column. “Rate Only” items have been included where:

- (a) variations of specified components in the make-up of a pay item may be expected; and
- (b) no work under the item is foreseen at tender stage but the possibility that such work may be required is not excluded.

For ‘Rate Only’ items no quantities are given in the “Quantity” column but the quoted rate shall apply in the event of work under this item being required. The Tenderer shall however note that in terms of the Tender Data the Tenderer may be asked to reconsider any such rates which the Employer may regard as unbalanced.

Descriptions in the Bills of Quantities are abbreviated and comply generally with those in the “PW 371” and the principles contained in the latest version of the Standard System for Measuring Builders’ Work in South Africa. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the bidder shall, before submission of his tender, call for a written directive from the principal agent, failing which it shall be assumed that the contractor has allowed in his pricing for materials and workmanship in terms of National Best Practice.

**PG-02.2 (EC) PRICING ASSUMPTIONS - JBCC 2000
PRINCIPAL BUILDING AGREEMENT (Edition 6.2 of May 2018)**

The price quoted against each item of this Bills of Quantities shall cover the full inclusive cost of the complete work to which it refers, as described in the Conditions of Contract and Specifications and as shown on the Drawings and shall allow for labour, material, transporting, loading, storage, supervision, commissioning, wastage, as well as the builders profit and attendance.

The Tenderer must ensure that he fully completes all columns of the Bill of Quantities including the Final Summary. The fully priced bill of quantities must be submitted with the tender or The Final Summary and the Section Summary pages MUST be returned with the tender document as indicated the PA-03 Notice and Invitation to Tender / PA-04 Notice and Invitation for quotation.

The tenderers are to ensure that they have read and understood the project specifications included in C3: Scope of Work. All the information provided in the Scope of Works form part of the work and must be included in the rates.

“The Contractor shall be deemed to have inspected and examined the Site and its surroundings and information available in connection therewith and to have satisfied himself before submitting his tender (as far as is practicable) as to:

- (a) the form and nature of the Site and its surroundings, including subsurface conditions,
- (b) the hydrological and climatic conditions,
- (c) the extent and nature of work and materials necessary for the execution and completion of the Works,
- (d) the means of access to the Site and the accommodation he may require

and, in general, shall be deemed to have obtained all information (as far as is practicable) as to risks, contingencies and all other circumstances which may influence or affect his Tender”

C2.1.2 VALUE ADDED TAX

The contract sum must include for Value Added Tax (VAT). All rates, provisional sums, etc. in the bills of quantities / lump sum document shall be in Rands and cents and shall include all levies and taxes (other than VAT). VAT will be added in the summary of the Bill of Quantities. The rates must however be net (exclusive of VAT) with VAT calculated and added to the total value thereof in the Final Summary. All rates and amounts quoted in the Bill of Quantities

C2.1.3 CORRECTION OF ENTRIES

Incorrect entries shall not be erased or obliterated with correction fluid but must be crossed out neatly. The correct figures must be entered above or adjacent to the deleted entry, and the alteration must be initialled by the Tenderer.

C2.1.4 ARITHMETICAL ERRORS

Arithmetical errors found in the Bill of Quantities as a result of faulty multiplication of addition, will be corrected by the Engineer at the tender evaluation stage, as set out in the Tender Data.

C2.1.5 TRADE NAMES

Tenderers attention is drawn to the fact that wherever trade names or references to any catalogue have been made in these Bills of Quantities, it is purely to establish a standard for the required material. If use is made of any other equally approved material in lieu of the prescribed trade name or catalogue, the necessary price adjustments will be made.

C2.1.6 CONTRACT DOCUMENTS

The Tenderers are advised to examine the bills of quantities, drawings and specifications including all other contract documents and make themselves thoroughly acquainted with the nature and requirements of the work, as no claim for extra payment in this regard will be entertained. Should any parts of the drawings not be clearly intelligible to the Tender, he must, before submitting his tender, obtain clarification from the Principal Agent.

C2.1.7 FIXED PRICE CONTRACT

The Bills of Quantities document is not a fixed price contract and the Tenderers are to take note that contract price adjustments (CPAP) are applicable to this contract.

C2.1.8 PAYMENTS

Interim valuations and payments will be prepared on a monthly basis, all in terms of the conditions of contract.

The contractor is to note that no payment will be made for materials stored off site and in the case of materials being stored on site, payment will only be made for such materials on condition that they have not been delivered to the site prematurely, a tax invoice and proof of payment (ownership) is submitted by the Contractor.

C2.1.9 ACCOMMODATION ON SITE

It is imperative to note that no living quarters for construction workers on site will not be permitted for the full duration of the contract unless otherwise stated in the contract data or permission be granted by the Employer.

C2.1.10 LOCAL MATERIAL UTILISATION REPORT (LOCAL CONTENT)

Bidders to note that materials procured for the works should be from South African manufactures and suppliers. Imported materials shall only be considered under exceptional circumstances, based on compelling technical justifications, and subject to the approval by the NDPWI.

The contractor shall achieve in the performance of this contract the prescribed local content deliverables as listed in PA36 and annexures C thereto in the respective designated sectors as published by Department Trade Industry and Competition (DTIC). The Service Provider shall submit an accumulative monthly report to the Employer's representative indicating the percentage targets achieved which must be reconciled upon completion of the project and to form part of the final account.

The contractor shall be responsible for record keeping, documenting and submission of monthly local material utilization report with supporting documentation to the Employer's representative within 7 working days of the beginning of the successive month, in terms of DTI&C designated industry/sector/sub-sector schedule as per the PA36 and Annexures C attached to the tender document. The final percentage achievement to be reconciled upon completion of the project and form part of the final account.

Failure by the contractors to achieve the specified percentage of local content per designated industry/sector/sub-sector as listed will result in a thirty percent thirty percent (30%) penalty of the value not achieved, excluding VAT, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control. Allowance must be made for submitting monthly reports illustrating the value of local material utilisation report.

**PG-02.2 (EC) PRICING ASSUMPTIONS - JBCC 2000
PRINCIPAL BUILDING AGREEMENT (Edition 6.2 of May 2018)**

C2.1.11 CONTRACT PARTICIPATION GOALS AND CIDB BUILD PROGRAMME

The contractor shall achieve in the performance of this contract the following Contract Participation Goals (CPGs) as indicated below:

Provision for pricing of compliance with the achieving the CPGs is made in the Contract Participation Goal Section of the Bills of Quantities and it is explicitly pointed out that all requirements in respect of the aforementioned are deemed to be priced thereunder and no additional claims in this regard shall be entertained

Monthly progressive reports to be submitted to the Employer's representative indicating the percentage targets achieved which must be reconciled upon completion of the project and to form part of the final account.

C2.1.11.1 MINIMUM THIRTY PERCENT 25% SUB-CONTRACTING CONTRACT PARTICIPATION GOAL

**MINIMUM THIRTY PERCENT (25%) MANDATORY SUBCONTRACTING TO SMMEs:
IMPLEMENTATION OF PREFERENTIAL PROCUREMENT REGULATIONS 2017**

25% Mandatory subcontracting is "applicable" to this project.

Provision is made within the Contract Participation Goal section in the Bill of Quantities for thirty percent (30%) subcontracting to SMMEs in the execution of this project as described in PG-01.2 (EC) SCOPE OF WORKS C3.6.1. The contractor shall price his Profit and Attendance, all inclusive of associated costs to the contractor for implementation. Allowance must be made for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

C2.1.11.2 MINIMUM TARGETED LOCAL BUILDING MATERIAL MANUFACTURERS CONTRACT PARTICIPATION GOAL

The Minimum Targeted Local Building Material Manufacturers CPG is "not applicable" to this project.

Provision is made within the Contract Participation Goal section in the Bill of Quantities for the Minimum Targeted Local Building Material Manufacturers CPG in the execution of this project as described in PG-01.2 (EC) SCOPE OF WORKS C3.6.2. The contractor shall price his Profit and Attendance, all inclusive of associated costs to the contractor for implementation. Allowance must be made for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

C2.1.11.3 MINIMUM TARGETED LOCAL BUILDING MATERIAL SUPPLIERS CONTRACT PARTICIPATION GOAL

The Minimum Targeted Local Building Material Suppliers CPG is "not applicable" to this project.

Provision is made within the Contract Participation Goal section in the Bill of Quantities for the Minimum Targeted Local Building Material Suppliers CPG in the execution of this project as described in PG-01.2 (EC) SCOPE OF WORKS C3.6.3. The contractor shall price his Profit and Attendance, all inclusive of associated costs to the contractor for implementation. Allowance must be made for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

C2.1.11.4 MINIMUM TARGETED LOCAL LABOUR SKILLS DEVELOPMENT CONTRACT PARTICIPATION GOAL

The Minimum Targeted Local Labour Skills Development CPG is "*applicable*" to this project.

Provision is made within the Contract Participation Goal section in the Bill of Quantities for the Minimum Targeted Local Labour Skills Development CPG in the execution of this project as described in PG-01.2 (EC) SCOPE OF WORKS C3.6.4. The contractor shall price his Profit and Attendance, all inclusive of associated costs to the contractor for implementation. Allowance must be made for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

C2.1.11.5 CIDB BUILD PROGRAMME: MINIMUM TARGETED ENTERPRISE DEVELOPMENT: CONTRACT PARTICIPATION GOALS (CPG)

The Minimum Targeted Enterprise Development CPG is "*applicable*" to this project.

A provisional amount has been allowed for within the Contract Participation Goal section in the Bill of Quantities for the Minimum Targeted Enterprise Development CPG in the execution of this project as described in PG-01.2 (EC) SCOPE OF WORKS C3.6.5. The provisional amount allowed is for the appointment of training coordinator, mentor, training service providers and training of the beneficiary enterprises.

The contractor shall price his Profit and Attendance, all inclusive of associated costs to the contractor for implementation. Allowance must be made for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

The contractor shall complete a separate bill of quantities upon the award of the project and identification of the respective beneficiaries and the appointment of the training coordinator, mentor, training service providers of which the cost will be offset against the provisional amount allowed in the Bills of Quantities.

C2.1.11.6 CIDB BUILD PROGRAMME: MINIMUM TARGETED CONTRACT SKILLS DEVELOPMENT GOALS (CSDG)

The Minimum Targeted Contract Skills Development CPG is "*applicable*" to this project.

A provisional amount has been allowed for within the Contract Participation Goal section in the Bill of Quantities for the Minimum Targeted Skills Development CPG in the execution of this project as described in PG-01.2 (EC) SCOPE OF WORKS C3.6.6. The provisional amount allowed is for:

- stipends payable to the beneficiaries
- appointment of training coordinator
- appointment of mentor (where applicable)
- appointment of training service providers
- other additional costs as per table 3 of the Standard

**PG-02.2 (EC) PRICING ASSUMPTIONS - JBCC 2000
PRINCIPAL BUILDING AGREEMENT (Edition 6.2 of May 2018)**

The contractor shall price his Profit and Attendance (all inclusive of associated costs to the contractor for implementation and reporting), based on the provisional amount in the Contract Participation Goal section in the Bill of Quantities. The contractor shall complete a separate bill of quantities upon the award of the project and identification of the respective beneficiaries. The CPG value to be achieved will be based on the actual contract amount which will be offset against the provisional amount allowed for within the Contract Participation Goal section in the Bill of Quantities.

Allowance must be made for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

Payment

The contractor shall upon the appointment of beneficiaries, provide a breakdown of all the associated costs. The contractor shall provide a payment schedule as to how the CPG costs will be claimed against for inclusion in the monthly payment certificates.

(a) Payment to the contractor to accommodate Part/Full Occupational qualification and Trade qualifications;

Should the contractor select Part/Full Occupational qualification and Trade qualifications learners, then the employer shall make provision for payment to the contractor as indicated in Table 3 of the Standard.

The contract skills participation goal, expressed in Rand, shall not be less than the contract amount multiplied by a percentage (%) factor given in Table 2 in the Standard for the applicable class of construction works. Should the contractor select Part/Full Occupational qualification and Trade qualifications learners, then the employer shall make provision for payment to the contractor as indicated in Table 3 of the Standard.

No provision for an additional payment item for the payment of the supervisor and/or mentors for the provision of training as provided for in the Contract Participation Goal section in the Bill of Quantities for the training of part/full time occupational learners and/or trade qualification learners. The associated cost is deemed to be included in general supervision on site.

The contractor shall complete a separate bill of quantities upon award, indicating the type and number of beneficiaries as well as the associated Notional Cost of Training to be provided, on which payment will be based.

(b) Payment to the contractor to accommodate Work Integrated Learners and Candidates for professional registration;

Should the contractor select Work Integrated Learners and/or Candidates for professional registration, then the employer shall make provision for payment to the contractor as indicated in Table 3 of the Standard.

Provisional amounts have been included in the Contract Participation Goal section in the Bill of Quantities for the training of Work Integrated Learners and Candidates for professional registration. The contractor shall price his Profit and Attendance (all inclusive of associated costs to the contractor for implementation and reporting), based on the provisional amount in the Contract Participation Goal section in the Bill of Quantities.

The contractor shall complete a separate bill of quantities upon award, indicating the type and number of beneficiaries as well as the associated Notional Cost of Training to be provided, on which payment will be based.

The CPG value to be achieved will be based on the contract amount as defined by the Standard, which will be offset against the provisional amount allowed for within the Contract Participation Goal section in the Bill of Quantities.

**PG-02.2 (EC) PRICING ASSUMPTIONS - JBCC 2000
PRINCIPAL BUILDING AGREEMENT (Edition 6.2 of May 2018)**

The programme shall be implemented in terms of the Implementation of the National Youth Service Programme under the Expanded Public Works (EPWP) and shall be priced in the CPG section of the Bills of Quantities.

Provision has been made within the Contract Participation Goal section in the Bill of Quantities for the National Youth Service Training and Development Programme CPG in the execution of this project as described in PG-01.2 (EC) SCOPE OF WORKS C3.6.7. The contractor to price all elements of this section and allowance must be made for submitting monthly reports in the prescribed manner as per examples of reports bound in the specification document.

C2.1.11.8 LABOUR-INTENSIVE WORKS

Labour Intensive Works is "*applicable*" to this project.

Where labour intensive work is specified in the Bill of Quantities and indicated by "LI" the contractor must price for and include in rates. Contractors are expected to use their initiative to identify additional activities that can be done labour-intensively to comply with the set minimum labour intensity target. Allowance must be made for submitting monthly reports illustrating the value of the works executed under Labour Intensive Works.

C2.2 Submission of Accrual Reports

The Contractor shall submit accrual reports to the client representative at the end of March and September each year for the duration of the Service Contract period from the date of appointment up to and including project closeout. This is to ensure that PMTE complies with the accounting framework GRAP, which requires that PMTE disclose all its accruals as at the end of each reporting date. Allowance must be made for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

C2.2 Bills of Quantities



**public works
& infrastructure**

Department:
Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA

BILL OF QUANTITIES

FOR

JOUBERTINA POLICE COMPLEX: ERF 1200: REPAIRS & MAINTENANCE OF ELECTRICAL, CIVIL, MECHANICAL & STRUCTURAL ELEMENTS OF THE COMPLEX: COMPLETION OF CONTRACT 1

BID NO. : PE25/2022
REFERENCE NO. : 19/2/4/2/2/6417/24

Compiled for:

National Department of Public Works
Eben Donges Building
PORT ELIZABETH
6001

Compiled by:

QAPELA QUANTITY SURVEYORS (PTY) LTD
16 Jarvis Road,
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NOVEMBER 2022



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SECTION NO. 1
PRELIMINARIES



Amount

SECTION NO. 1
PRELIMINARIES

PRELIMINARIES

MEANING OF TERMS "TENDER / TENDERER"

Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"

BUILDING AGREEMENT AND PRELIMINARIES

The **JBCC** Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described to be read in conjunction with the **Contract Data** issued with the tender.

The **JBCC** General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the **JBCC** Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these **bills of quantities**, amended as hereinafter described

The **contractor** is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause

The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only

Where any item is not relevant to this **agreement** such item is marked N/A signifying 'not applicable'

Where standard clauses or alternatives are not entirely applicable to this **agreement** such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents

TENDERER'S SELECTIONS

Before submission of his tender the contractor is to complete the tenderer's selections in the contract data for organs of state and other public sector bodies

STRUCTURE OF THIS PRELIMINARIES BILL

Section A : A recital of the headings of the individual clauses in the aforementioned **JBCC** Principal Building Agreement

Section B : A recital of the headings of the individual clauses in the aforementioned **JBCC** General Preliminaries

Section C : Any special clauses to meet the particular circumstances of the project

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PRICING OF PRELIMINARIES

Should the **contractor** select Option A in the **contract data** for the adjustment of **preliminaries**, the amounts entered against the relevant items in these **preliminaries** are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)

PRICING OF BILLS OF QUANTITIES

The contractor is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this agreement.

Items left unpriced will be deemed to be covered in prices against other items throughout these bills of quantities and no claim for any extras arising out of the contractor's omission to price any item will be entertained

Prices for all construction equipment, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary

VALUE ADDED TAX

Provision is made in the summary page of these bills of quantities / lump sum document for the inclusion of Value Added Tax (VAT)

SECTION A: PRINCIPAL BUILDING AGREEMENT

INTERPRETATIONS (A1-A7)

A1.0 DEFINITIONS AND INTERPRETATIONS

1 Clause 1.0

The following definitions replace corresponding definitions or are added to the definitions in the JBCC PRINCIPAL BUILDING AGREEMENT (Edition 6.2 of May 2018), whatever the case may be

ADVERSE WEATHER CONDITIONS: Adverse weather and inclement weather has the same meaning and used interchangeably and means any weather conditions i.e.: Rain, wind, snow, frost, temperature (cold or heat) that are not in the norm for the area where the construction takes place and during which no work is possible on site

AGREEMENT: The completed Form of Offer and Acceptance, the completed JBCC® Principal Building Agreement and contract data for organs of state and other public sector bodies, the contract drawings, the priced document and any other documents reduced to writing and signed by the authorised representative or representatives of the parties

CONSTRUCTION PERIOD: The period commencing on the date of possession of the site by the contractor and ending on the date of practical completion

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CONTRACT PERIOD: The period commencing on the date of the letter of acceptance and ending on the date of final completion

COST FLUCTUATION shall mean contract price adjustment provision (CPAP) for the adjustment of fluctuation in the cost of labour, plant, material and goods as stated in the schedule

DEFAULT INTEREST: No Clause

GUARANTEE FOR CONSTRUCTION: A security in terms of the DPWI's Guarantee for Construction form/s, obtained by the contractor from an institution approved by the employer [CD]

INTEREST: The interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No 1 of 1999) as amended, calculated as simple interest, in respect of debts owing to the State, and will be the rate as published by the Minister of Justice and Correctional Services from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No 55 of 1975) as amended, calculated as simple interest, in respect of debts owing by the State

LETTER OF ACCEPTANCE: The letter of formal acceptance of the Contractor's or Service Provider's Tender / Bid, issued and signed by the Employer

PAYMENT CERTIFICATE: A certificate issued at regular agreed intervals [CD] by the principal agent to the parties certifying the amount due and payable in terms of Clause 25.3

PRINCIPAL AGENT: The person or entity appointed by the employer and named in the contract data for organs of state and other public sector bodies. In the event of a principal agent not being appointed, then all the duties and obligations of a principal agent as detailed in the agreement shall be fulfilled by the employer's representative as named in the contract data for organs of state and other public sector bodies

TARGETED SUBCONTRACTORS: Subcontractors that must be appointed to a total of 30% or more of the contract sum, by the contractor, projects with a contract sum of the amount determined by the Minister in terms of the latest Preferential Procurement regulations, as may be amended from time to time.

F: V: T:

A2.0 LAW, REGULATIONS AND NOTICES

2 Clause 2.0

F: V: T:

A3.0 OFFER AND ACCEPTANCE

3 Replace Clause 3.3 with the following:

This agreement shall come into force on the date of letter of acceptance and continue to be of force and effect until the end of the latent defects liability period [22.0] notwithstanding termination [29.0] or the certification of final completion [21.0] and final payment [25.0]

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A4.0 CESSION AND ASSIGNMENT

4 Clause 4.0

Ref Clause 6.7 [CD] - Clause 4.2

Replace Clause 4.3 with the following:

Where a contractor cedes any right or any monies due to or to become due under this agreement as security in favour of a financial institution, the prior written consent of the employer, which consent shall not be unreasonably withheld, must be obtained

F: V: T:

A5.0 DOCUMENTS

5 Clause 5.0

Replace last sentence of Clause 5.2 with the following:

The original signed agreement shall be held by the Employer

Replace Clause 5.4 with the following:

The Bills of Quantities shall not be used as a specification of material and goods or methods unless so instructed by the Principal Agent. The contractor may not use the Bills of Quantities for purpose of ordering material. All dimensions and quantities must be determined on site before ordering. In the event of discrepancy between the drawings and Bills of Quantity, the drawings shall take preference

Replace Clause 5.5 with the following:

The parties may publish or disclose on any platform only the contract scope and contract amount

F: V: T:

A6.0 EMPLOYER'S AGENTS

6 Clause 6.0

Replace Clause 6.5 with the following:

Where the principal agent and/or an agent fails to act or is unable to act or ceases to be the principal agent or an agent in terms of this agreement, the employer shall appoint another principal agent and/or an agent

Add the following as Clause 6.7:

In terms of the clauses listed hereunder, the employer has retained its authority and has not given a mandate to the principal agent, notwithstanding other provisions in the contract. The employer shall sign all documents in relation to clauses 4.2, 14.1.4, 14.4.1, 14.6, 15.1.4, , 15.4.1, 23.1, 23.2, 23.3, 23.7, 23.8, 26.1, 26.7, 26.12

F: V: T:

A7.0 DESIGN RESPONSIBILITY

7 Clause 7.0

Replace first sentence of Clause 7.2 with the following:

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	<p>Any design responsibility undertaken by a subcontractor shall not devolve on the contractor except for items that require specific component design and or compatibility design and or shop drawings and or the assembly thereof</p> <p>F: V: T:</p>	Item	
	<p><u>INSURANCES AND SECURITIES (A8-A11)</u></p>		
	<p><u>A8.0 WORKS RISK</u></p>		
8	<p>Clause 8.0</p>		
	<p>Replace Clause 8.4 with the following:</p> <p>The contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary</p> <p>F: V: T:</p>	Item	
	<p><u>A9.0 INDEMNITIES</u></p>		
9	<p>Clause 9.0</p>		
	<p>Add the following to the end of the first sentence of Clause 9.2.7:</p> <p>“... due to no fault of the contractor</p> <p>9.2.9 No Clause</p> <p>9.2.10 No Clause</p> <p>Add the following as clause 9.3:</p> <p>The employer's rights to claim damages for the contractor's omissions and actions will not be affected.</p> <p>F: V: T:</p>	Item	
	<p><u>A10.0 INSURANCES</u></p>		
10	<p>Clause 10.0</p>		
	<p>Replace Clause 10.1 with the following:</p> <p>The party responsible shall effect and keep the respective insurances [CD] in force, in favour of the employer as beneficiary , from the date of possession of the site until the issue of the certificate of practical completion and with an extension to cover the contractors obligations after the date of practical completion [8.2.2]</p> <p>Add the following as Clause 10.1.5.1:</p> <p>Hi Risk Insurance</p> <p>In the event of the project being executed in a geological area classified as a “High Risk Area”, that is an area which is subject to highly unstable sub-surface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply</p> <p>Add the following as Clause 10.1.5.1.1 Damage to the works</p>		
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The contractor shall, from the date of possession of the site until the date of the certificate of practical completion, bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary

When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs

10.1.5.1.2 Injury to persons or loss of or damage to property

The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above

The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable property, or personal property, or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract

10.1.5.1.3 Replace Clause with the following:

It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.1.5.1.1 and 10.1.5.1.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the date of letter of acceptance, but before commencement of the works, submit to the employer proof of such insurance policy.

10.1.5.1.4 Replace Clause with the following:

The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.1.5.1.1; 10.1.5.1.2 and 10.1.5.1.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole

10.2 Replace Clause with the following:

Where practical completion in sections is required [20.0), or where the works is for alterations and additions, the contractor shall effect and keep in force contract works insurance [10.1.1], supplementary insurance [10.1.2], public liability insurance [10.1.3] and where applicable, removal of lateral support insurance [10.1.4] and other insurances [10.1.5) in favour of the employer as beneficiary

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10.6 No Clause

Add the following as Clause 10.11

In the event that an insurer dispute the amount of the claim to be paid to the employer, the contractor shall be liable to the employer for the difference between the claim (as determined by the employers QS appointed on the project) made by the employer and the amount that the insurer is willing to pay

F: V: T:

A11.0 SECURITIES

11 Add the following as to the relevant related Clauses as follows:

Add the following to Clause 11.1:

In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding

In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of C 1.0 Securities, as stated in the schedule. Such security shall be provided to the employer within fifteen (15) working days from commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within fifteen (15) working days from commencement date, the security in terms of C 1.0 Option C shall be deemed to have been selected.

The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.1 - 25.12.5

11.1.1 No Clause

11.1.2 No Clause

11.2.2 No Clause

11.3 No Clause

Replace Clause 11.4.1 with the following:

Hand over the site to the contractor and withhold an amount equal to ten per cent (10%) of each interim payment certificate until practical completion is achieved. The value certified shall be subject to the adjustments in terms of 25.12.6 to 25.12.10.

11.5 No Clause

11.6 No Clause

11.7 No Clause

11.8 No Clause

11.9 No Clause

11.10 No Clause

Add the following as Clause 11.11:

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Where the security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected:

Add the following as Clause 11.11.1:

The contractor shall furnish the employer with a cash deposit equal in value to ten percent (10%) of the contract sum (excluding VAT) within fifteen (15) working days from commencement date. Failure to furnish the employer with a cash deposit within fifteen (15) working days Clause 11.4 will apply mutatis mutandis.

Add the following as Clause 11.11.2:

The employer shall be entitled to recover expense and loss from the cash deposit in terms of Clause 27.0 provided that the employer notifies the Contractor in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor.

Add the following as Clause 11.11.3:

Within fifteen (15) working days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT) and refund the balance to the contractor

Add the following as Clause 11.11.4:

Within fifteen (15) working days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor.

Add the following as Clause 11.11.5:

On the date of payment of the amount in the final payment certificate, the employer shall refund the remainder of the cash deposit to the contractor.

Add the following as Clause 11.11.6:

The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party.

Add the following as Clause 11.12:

Where security as a variable construction guarantee of ten percent (10%) of the contract sum (excluding VAT) has been selected:

Add the following as Clause 11.12.1:

The contractor shall furnish the employer with an acceptable variable construction guarantee equal in value to ten per cent (10%) of the contract sum (excluding VAT) within fifteen (15) working days after issuance of the letter of acceptance. Failure to submit an acceptable variable construction guarantee within fifteen (15) working days Clause 11.4 will apply mutatis mutandis.

Add the following as Clause 11.12.2:

The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender.

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Add the following as Clause 11.12.3:

The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring.

Add the following as Clause 11.12.4:

Where the employer has a right of recovery against the contractor in terms of 27.0, the employer shall issue a written demand in terms of the variable construction guarantee.

Add the following as Clause 11.13:

Where security as a fixed construction guarantee of five per cent (5%) of the contract sum (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:

Add the following as Clause 11.13.1:

The contractor shall furnish a fixed construction guarantee to the employer equal in value to five per cent (5%) of the contract sum (excluding VAT).

Add the following as Clause 11.13.2:

The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical completion.

Add the following as Clause 11.13.3:

The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring.

Add the following as Clause 11.13.4:

The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.1 - 25.12.5.

Add the following as Clause 11.13.5:

Where the employer has a right of recovery against the contractor in terms of 27.0, 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 from both.

Add the following as Clause 11.14.1:

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:

Add the following as Clause 11.14.2:

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 fifteen (15) working days from commencement date. Failure to submit a cash deposit within fifteen (15) working days Clause 11.4 will apply mutatis mutandis.

Add the following as Clause 11.14.3:

Within fifteen (15) working days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor.

Add the following as Clause 11.14.4:

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The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.1 - 25.12.5.

Add the following as Clause 11.14.5:

Where the employer has a right of recovery against the contractor in terms of 27, the employer may recover from the payment reduction or cash deposit or from both.

Add the following as Clause 11.15:

Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected.

Add the following as Clause 11.15.1:

The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.6 to 25.12.10.

Add the following as Clause 11.15.2:

The employer shall be entitled to recover expense and loss from the cash deposit in terms of 27.0 provided that the employer notifies the Contractor in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor.

Add the following as Clause 11.16:

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.

Add the following as Clause 11.17:

Should the contractor fail to furnish the security in terms of 11.2 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).

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EXECUTION (A12 - A17) }

A12.0 OBLIGATIONS OF PARTIES

Clause 12.0

12.1.1 No Clause

Replace Clause 12.1.5 with the following:

Give possession of the site to the contractor within ten (10) working days after approval of the Health and Safety Plan or the issue of a construction permit by the Department of Labour, if applicable, after the contractor complied with the terms of 12.2.22

12.1.6 No Clause

12.1.8 No Clause

Replace Clause 12.2.2 with the following:

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The priced Bills must be submitted to the Employer within fourteen (14) calendar days from date of request. Where the priced document contains errors or discrepancies and/or prices considered by the employer or principal agent to be imbalanced or unreasonable the employer or principal agent and the contractor shall adjust such prices without any change to the contract sum

Replace Clause 12.2.5 with the following :

Effect and keep in force insurances in favour of the employer as beneficiary where the contractor is responsible for providing insurances [10.0) [CD]

Replace Clause 12.2.13 with the following:

Designate a competent person full time on site to continuously administer and control the works on site and to receive and implement notices and contract instructions on behalf of the contractor

Add the following as Clause 12.2.22:

Within fourteen (14) working days of the date of the letter of acceptance submit to the principal agent an acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)

Add the following as Clause 12.2.23:

The contractor shall within reasonable time inform the agents regarding inspection of the works before covering / closing [B 12.0]

12 Offices

The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times [12.2.18]

F: V: T:

13 Main notice board

The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m as type Drawing GEN 063, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering [12.2.18]

F: V: T:

14 **A13.0 SETTING OUT**
Clause 13.0

F: V: T:

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15	<p><u>A14.0 NOMINATED SUBCONTRACTORS</u></p> <p>Clause 14.0</p> <p>Ref Clause 6.7 [CD] - Clause 14.1.4</p> <p>14.1.5 No Clause</p> <p>Replace “principal agent ” with “employer” [6.7 [CD]] in Clause 14.4.1</p> <p>Ref Clause 6.7 [CD] - Clause 14.6</p> <p>F: V: T:</p>	Item	
16	<p><u>A15.0 SELECTED SUBCONTRACTORS</u></p> <p>Clause 15.0</p> <p>Ref Clause 6.7 [CD] - Clause 15.1.4 & Clause 15.5</p> <p>15.1.5 No Clause</p> <p>Replace Clause 15.1.2 with the following:</p> <p>The principal agent shall call for tenders from a list of tenderers agreed between the contractor and the employer</p> <p>Replace “principal agent ” with “employer” [6.7 [CD]] in Clause 15.4.1</p> <p>F: V: T:</p>	Item	
17	<p><u>A16.0 DIRECT CONTRACTORS</u></p> <p>Clause 16.0</p> <p>F: V: T:</p>	Item	
18	<p><u>A17.0 CONTRACT INSTRUCTIONS</u></p> <p>Clause 17.0</p> <p>Replace Clause 17.4 with the following:</p> <p>The contractor shall comply with and duly execute all contract instructions except any contract instruction for additional work issued after the date of practical completion other than making good physical loss and repairing damage to the works in terms of 8.0 and 21</p> <p>Add the following clause as Clause 17.6:</p> <p>Minutes of meetings shall not constitute a site instruction unless reduced to a written contract instruction issued by the principal agent in terms of this contract / agreement.</p> <p>F: V: T:</p>	Item	
19	<p><u>COMPLETION (A18 - A24)</u></p> <p><u>A18.0 INTERIM COMPLETION</u></p> <p>Clause 18.0</p> <p>F: V: T:</p>	Item	
20	<p><u>A19.0 PRACTICAL COMPLETION</u></p> <p>Clause 19.0</p> <p>Replace Clause 19.5 with the following:</p>		
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On issue of the only or last certificate of practical completion the employer shall be entitled to possession of the works and the site. On issue of the certificate of practical completion for a section, the employer shall be entitled to possession of such section

Add the following as Clause 19.8:

WORKS COMPLETION

(1) Within seven (7) calendar days of the date of practical completion the principal agent shall issue to the contractor a works completion list defining the outstanding work and defects apparent at the date of practical completion to be completed or rectified to achieve works completion.

(2) Where, in the opinion of the contractor, the works completion list has been completed the contractor shall notify the principal agent who shall inspect within seven (7) calendar days of receipt of such a notice. Where, in the opinion of the principal agent, the Works Completion list:

(2)(a) Has been satisfactorily completed, the principal agent shall forthwith issue a certificate of Works Completion to the contractor with a copy to the employer

(2)(b) Has not been satisfactorily completed, the principal agent shall forthwith identify the works completion list items that are not yet complete and inform the contractor thereof. The contractor shall repeat the procedure in terms of 19.8(2)

(3) Should the principal agent not issue a works completion list, in terms of 19.8 (1) or 19.8 (2)(b), within seven (7) calendar days from the end of the inspection period, the contractor shall notify the employer and principal agent. Should the principal agent not issue such Works Completion list within seven (7) calendar days of receipt of such notice, the employer may within seven (7) calendar days issue to the contractor a Works Completion list. Should the employer:

(3)(a) Not issue such works completion list within seven (7) calendar days, then the certificate of Works Completion shall be deemed to have been issued on the date of expiry of the initial notice period and works completion shall be deemed to have been achieved on such date

(3b) Issue a works completion list and the work on Works Completion list not have been completed or where further defects have become apparent, the employer shall forthwith identify such items on the updated works completion list and notify the contractor. The contractor shall repeat the procedure in terms of 19.8(2)(b) until such items have been completed to the satisfaction of the employer

(4) Should the works completion list not be completed to the satisfaction of the employer within a period of twenty one (21) working days of the issue first works completion list the contractor shall be liable to a daily penalty as described in B12.0

(5) The defects liability period in terms of 21.1 shall commence with the issue or deemed issue of the certificate of Works Completion in terms of 19.8(2)(a) or 19.8(3).

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	<p><u>A20.0 COMPLETION IN SECTIONS</u></p>		
21	<p>Clause 20.0</p> <p>Add the following as Clause 20.2.1.A</p> <p>A certificate of Works Completion [19.8]</p> <p>F: V: T:</p>	Item	
	<p><u>A21.0 DEFECTS LIABILITY PERIOD AND FINAL COMPLETION</u></p>		
22	<p>Clause 21.0</p> <p>Replace Clause 21.1 with the following:</p> <p>The defects liability period for the works shall commence on the calendar day following the date of works completion and end at midnight (00:00) ninety (90) calendar days from the date of works completion [CD] or when work on the list for completion has been satisfactorily attended to [21.6], whichever is the later (if we use works completion)</p> <p>Replace Clause 21.6 with the following:</p> <p>On the expiry of the ninety (90) calendar days defects liability period [21.1] for items not indicated as items with an extended liability as indicated in B14 and on receipt of the contractor's notice to the principal agent</p> <p>And/or</p> <p>On the expiry of the defects liability period as indicated in B14, for items indicated in B14 and on receipt of the contractor's notice to the principal agent, the principal agent shall:</p> <p>(1) inspect the works And within ten (10) working days either issue a list for final completion detailing all outstanding work or defects that must be attended to, or rectified to achieve final completion or</p> <p>(2) issue the certificate of final completion to the contractor with a copy to the employer for that part of the works where defects liability period has expired</p> <p>21.6.1 Omit Clause</p> <p>21.6.2 Omit Clause</p> <p>Add the following as Clause 21.13:</p> <p>The ninety (90) calendar days defects liability period for the works [21.1] is replaced with an extended defects liability period of three hundred and sixty-five (365) calendar days in respect of the listed applicable elements in B14</p> <p>Add the following as Clause 21.14:</p> <p>Penalties will be applied if the items on the completion list have not been attended to within a period of ninety (90) calendar days [21.1]. If additional defect items have being added to the list during this period, then the Principal Agent and Contractor will agree on a revised completion date. Failing in achieving the revised date will result in penalties being applied.[B12.0]</p> <p>F: V: T:</p>	Item	
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23	<u>A22.0 LATENT DEFECTS LIABILITY PERIOD</u>	Item	
	Clause 22.0 F: V: T:		
24	Clause 22.0 22.3.2 No Clause F: V: T:	Item	
25	<u>A23.0 REVISION OF THE DATE OF PRACTICAL COMPLETION</u> Clause 23.0 Ref Clause 6.7 [CD] – Clause 23.1 Ref Clause 6.7 [CD] – Clause 23.2 23.2.13 No Clause Replace Clause 23.3 with the following: Further circumstances that delays practical completion due to any other cause beyond the contractor's reasonable control that could not have reasonably been anticipated and provided for which the contractor may be entitled to a revision of the date for practical completion, with or without an adjustment of the contract value as determined by the Employer [6.7 CD] Ref Clause 6.7 [CD] - Clause 23.7 Ref Clause 6.7 [CD] - Clause 23.8 F: V: T:	Item	
26	<u>A24.0 PENALTY FOR LATE OR NON-COMPLETION</u> Clause 24.0 Replace Clause 24.1 with the following: Where the contractor fails to bring the works, or a section thereof, to practical-, works-, or final- completion by the applicable completion date [CD], or the revised applicable completion date, the contractor shall be liable to the employer for the penalty [CD] Replace Clause 24.2 with the following: Where the employer elects to levy such penalty the employer, or the principal agent on instruction from the employer, shall give notice thereof to the contractor. The principal agent shall determine the penalty due from the later of the date for practical- works-, or final- completion [CD], or the revised date for practical- works-, or final- completion, up to and including the earlier of: Replace Clause 24.2.1 with the following: The actual or deemed date of practical- works-, or final- completion, of the works, or a section thereof [23.7.1] F: V: T:	Item	
27	<u>PAYMENT (A25 - A27)</u>		
	<u>A25.0 PAYMENT</u>		
27	Clause 25.0 Carried To Section Summary	R	
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Replace Clause 25.2 with the following:

The principal agent shall issue at regular agreed intervals [CD] payment certificates, to the contractor with a copy to the employer, up to and including practical completion. Interim Payment certificates may be issued to the contractor between practical completion and the final payment certificate. A payment certificate may be for a nil or negative amount

Add the following to Clause 25.3:

25.3.12 Monthly Local content report,

25.3.13 EPWP / NYS payment register, labour reports and certified ID document of EPWP/ NYS beneficiaries, Contract between Contractor and EPWP/ NYS beneficiaries, attendance register. (if applicable)

25.3.14 Tax Invoice

25.3.15 Labour intensive report

25.3.16 Contract participation goal reports

25.5 No Clause

Replace Clause 25.6 with the following:

Materials and goods will only be certified and paid for upon providing proof of full payment to the supplier and proof of transfer of ownership from the supplier to the contractor by the contractor. Once paid, material and goods shall become the property of the employer and shall not be removed from site without the written authority of the Employer.

25.7.5 No clause.

Replace Clause 25.10 with the following:

The employer shall pay the contractor the amount stipulated in an issued payment certificate, correct in all material respects, within thirty (30) calendar days from the date of receiving the payment certificate, invoice and all other substantiating documentation for items certified in the payment certificate

Replace Clauses 25.12 to 25.12.3 with the following:

The value certified shall be subject to the following percentage adjustments :

(Clauses 25.12.1 to 25.12.5 shall be applicable to a contract sum up to R1 million. In the event of a contract sum more than R1 million for Options D & E (C 1.0 Securities [11.0]) Clauses 25.12.1 to 25.12.5 shall be applicable)

25.12.1 Where a security is selected in terms of C 1.0 Securities [11.0], the value of the works in terms of 25.1 and of the materials and goods in terms of 25.4 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

25.12.2 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion

25.12.3 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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25.12.4 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 26

25.12.5 One hundred per cent (100%) of such value in the final payment certificate in terms of 26 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.

(Clauses 25.12.6 to 25.12.10 shall be applicable to a contract sum more than R1 million for Option C (C 1.0 Securities [11.0])

25.12.6 Where security is a payment reduction in term of C 1.0 Option C, value of the works in terms of 25.1 and materials and goods in terms of 25.4 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

25.12.7 Ninety per cent (90%) of such value in interim payment certificates issued up to the date of practical completion

25.12.8 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

25.12.9 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 26

25.12.10 One hundred per cent (100%) of such value in the final payment certificate in terms of 26 except were 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

F: V: T:

A26.0 ADJUSTMENT OF THE CONTRACT VALUE AND FINAL ACCOUNT

28 Clause 26.0

Ref Clause 6.7 [CD] – Clause 26.1

Omit Clause 26.4.3

Ref Clause 6.7 [CD] – Clause 26.7

Replace Clause 26.10 with the following:

The principal agent shall prepare the final account in consultation with the employer and issue the final account, to the contractor within sixty (60) working days of the date of practical completion

Ref Clause 6.7 [CD] – Clause 26.12

F: V: T:

A27.0 RECOVERY OF EXPENSE AND/OR LOSS

29 Clause 27.0

Replace Clause 27.1.2 with the following:

Interest due to late payment only

Replace Clause 27.1.4 with the following:

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Interest due to late payment only

27.1.5 No Clause

Replace Clause 27.5 with the following:

Where the employer decides to recover an amount due in terms of 27.2 from a construction guarantee, cash deposit or retention money held as security, the employer shall issue a written demand to the contractor before recovering the amount. Should such amount not be paid to the employer within fourteen (14) calendar days of the date-of notice by the employer, the employer may recover such an amount from the security

Add the following as Clause 27.6:

Where a provisional sequestration or provisional liquidation order has been granted or where an order has been granted which commences sequestration, liquidation, bankruptcy, receivership, winding-up or any similar effect, against the contractor or this agreement is cancelled in terms of 29, the employer may issue a demand to the guarantor in terms of the construction guarantee or advance payment guarantee held as security

F: V: T:

SUSPENSION AND TERMINATION (A28 - A29)

A28.0 SUSPENSION BY THE CONTRACTOR

30 Clause 28.0

28 No Clause

28.1 No Clause

28.1.1 No Clause

28.1.2 No Clause

28.1.3 No Clause

28.1.4 No Clause

28.1.5 No Clause

28.2 No Clause

28.3 No Clause

28.4 No Clause

F: V: T:

A29.0 TERMINATION

31 Clause 29.0

Add the following as Clause 29.1.4:

The contractor's estate has been sequestered, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa

Add the following as Clause 29.1.5:

The contractor has engaged in corrupt or fraudulent practices in competing for or in executing the contract

Add the following as Clause 29.1.6:

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Honour his obligations in terms of Clauses 10.1.5.1.3, 11.4.1 and 12.2. sub Clauses 5, 6, 8, 9, 10, 11, 12, 13, 15, 16, 19, 20, 22.

Replace Clause 29.7 with the following:

The employer, on notice to the contractor, may recover damages from the contractor from the date of termination including, but not limited to, additional costs incurred in the completion, consultant cost, rental of alternative accommodation, invitation of completion tenders, salaries of officials and safeguarding the site, of the remaining work [25.3.7; 27.1.3]

Replace Clause 29.9 with the following:

The employer has the right of recovery against the contractor, where applicable, [CD] from:

The guarantee for construction (variable) until the final payment has been made;

or

The guarantee for construction (fixed) until the date of practical completion;

or

The payment reduction until the final payment is made;

or

The cash deposit made as security until the final payment is made

29.14.1 No Clause

29.14.3 No Clause

29.14.4 No Clause

29.14.5 No Clause

29.14.6 No Clause

29.14.7 No Clause

29.15 No Clause

29.16 No Clause

29.17.3 No Clause

29.17.6 No Clause

29.21.5 No Clause

29.22 No Clause

29.23 No Clause

29.25.3 No Clause

29.25.4 No Clause

29.27 No Clause

F: V: T:

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	<p><u>DISPUTE RESOLUTION (A30)</u></p>		
	<p><u>A30.0 DISPUTE RESOLUTION</u></p>		
32	<p>Clause 30.0</p> <p>Replace Clause 30.2 with the following:</p> <p>Where such disagreement is not resolved within ten (10) working days of receipt of such notice it shall be deemed to be a dispute and shall be submitted to Mediation as a first method of dispute resolution failing which the parties will resort to Litigation</p> <p>30.3 to 30.7.7 No Clauses</p> <p>Replace Clause 30.8 with the following:</p> <p>The parties may, by agreement and at any time before Litigation, refer a dispute to mediation, in which event:</p> <p>30.8.1 No Clause</p> <p>Replace Clause 30.8.2 with the following:</p> <p>The appointment of a mediator, the procedure, and the status of the outcome shall be agreed between the parties</p> <p>Replace Clause 30.8.3 with the following:</p> <p>Regardless of the outcome of a mediation the parties shall bear their own costs concerning the Mediation and equally share the costs of the mediator and related expenses</p> <p>Replace Clause 30.9 with the following:</p> <p>Institution of Litigation shall be commenced and process served within three (3) year from the date of existence of the dispute, failing which the dispute shall lapse</p> <p>30.10 No Clause</p> <p>30.12 No Clause</p> <p>F: V: T:</p>	Item	
	<p><u>SECTION B: GENERAL PRELIMINARIES</u></p>		
	<p><u>DEFINITIONS AND INTERPRETATIONS (B1)</u></p>		
33	<p>B1.1 Definitions</p> <p>F: V: T:</p>	Item	
34	<p>B1.2 Interpretation</p> <p>F: V: T:</p>	Item	
	<p><u>DOCUMENTS (B2)</u></p>		
35	<p>B2.1 Checking of documents</p> <p>F: V: T:</p>	Item	
36	<p>B2.2 Provisional bills of quantities</p> <p>F: V: T:</p>	Item	
37	<p>B2.3 Availability of construction information</p> <p>F: V: T:</p>	Item	
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38	B2.4 Ordering of materials and goods F: V: T:	Item	
	<u>PREVIOUS WORK AND ADJOINING PROPERTIES (B3)</u>		
39	B3.1 Previous work - dimensional accuracy F: V: T:	Item	
40	B3.2 Previous work - defects F: V: T:	Item	
41	B3.3 Inspection of adjoining properties F: V: T:	Item	
	<u>THE SITE (B4)</u>		
42	B4.1 Handover of site in stages F: V: T:	Item	
43	B4.2 Enclosure of the works F: V: T:	Item	
44	B4.3 Geotechnical and other investigations F: V: T:	Item	
45	B4.4 Encroachments F: V: T:	Item	
46	B4.5 Existing premises occupied F: V: T:	Item	
47	B4.6 Services - known F: V: T:	Item	
	<u>MANAGEMENT OF CONTRACT (B5)</u>		
48	B5.1 Management of the works F: V: T:	Item	
49	B5.2 Progress meetings F: V: T:	Item	
50	B5.3 Technical meetings F: V: T:	Item	
	<u>SAMPLES, SHOP DRAWINGS AND MANUFACTURER'S INSTRUCTIONS (B6)</u>		
51	B6.1 Samples of materials F: V: T:	Item	
52	B6.2 Workmanship samples F: V: T:	Item	
53	B6.3 Shop drawings F: V: T:	Item	
54	B6.4 Compliance with manufacturer's instructions F: V: T:	Item	
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<u>DEPOSITS AND FEES (B7)</u>			
55	B7.1 Deposits and fees F: V: T:	Item	
<u>TEMPORARY SERVICES (B8)</u>			
56	B8.1 Water F: V: T:	Item	
57	B8.2 Electricity F: V: T:	Item	
58	B8.3 Ablution and welfare facilities F: V: T:	Item	
59	B8.4 Communication facilities F: V: T:	Item	
<u>PRIME COST AMOUNTS(B9)</u>			
60	B9.1 Responsibility for prime cost amounts F: V: T:	Item	
<u>ATTENDANCE ON SUBCONTRACTORS (B10)</u>			
61	B10.1 General attendance The contractor shall at his own expense provide the following general attendance on the subcontractors: Access to the site and places where the subcontract work is to be carried out, including the reasonable use of any temporary personnel hoists erected by the contractor The provision of water and lighting and single phase electric power to a position within 50 metres of the place where the subcontract work is to be carried out but excluding water, fuel and power for commissioning of any installation The provision of an area for the subcontractor to establish temporary office accommodation and workshops and for the storage of plant and materials The use of erected scaffolding belonging to the contractor, in common with others having the like right, while it remains erected on the site The use, at reasonable times by arrangement of the contractor's erected hoisting equipment	Item	
62	B10.2 Special attendance F: V: T:	Item	
<u>GENERAL (B11)</u>			
63	B11.1 Protection of the works F: V: T:	Item	
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64	B11.2 Protection/isolation of existing works and works occupied in sections F: V: T:	Item	
65	B11.3 Security of the works F: V: T:	Item	
66	B11.4 Notice before covering work F: V: T:	Item	
67	B11.5 Disturbance The contractor shall keep the site , structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent F: V: T:	Item	
68	B11.6 Environmental disturbance F: V: T:	Item	
69	B11.7 Works cleaning and clearing F: V: T:	Item	
70	B11.8 Vermin F: V: T:	Item	
71	B11.9 Overhand work F: V: T:	Item	
72	B11.10 Tenant installations F: V: T:	Item	
73	B11.11 Advertising F: V: T:	Item	
	<u>SECTION C: SPECIFIC PRELIMINARIES</u> Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item <u>C1.0 CONTRACT DRAWINGS</u>		
74	* Select relevant paragraph and delete whichever is not applicable depending on whether the contract is based on a bills of quantities or lump sum document * 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 * A full set of drawings is issued with the tender documents indicating the full 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		
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Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent

F: V: T:

C2.0 PREAMBLES

75 The document “Construction Works: Specifications: General Specification (PW371-A) Edition 2.1” 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 / lump sum document and be referred to for the full descriptions of work to be done and materials to be used

The document “Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2” is issued together with the drawings and shall be read in conjunction with the drawings and the bills of quantities / lump sum document

F: V: T:

C3.0 TRADE NAMES

76 Wherever a trade name for any product has been described in the bills of quantities / lump sum document, 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

F: V: T:

C4.0 IMPORTED MATERIALS AND EQUIPMENT

77 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 DPW-23(EC) 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)

F: V: T:

C5.0 VIEWING THE SITE IN SECURITY AREAS

78 The **site** is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the **site** for tendering purposes

F: V: T:

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C6.0 COMMENCEMENT OF WORKS IN SECURITY AREAS

79 As the **works** falls within a security area the **contractor** must give the unit commander or other responsible officer 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

F: V: T:

Item

C7.0 ENTRANCE PERMITS TO SECURITY AREAS

80 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

F: V: T:

Item

C8.0 SECURITY CHECK PERSONNEL

81 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

F: V: T:

Item

C9.0 PROHIBITION ON TAKING OF PHOTOGRAPHS

82 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

F: V: T:

Item

C10.0 HIV/AIDS AWARENESS

83 It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. 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

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	<p>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 25.0 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</p>	Item	
84	<p>F: V: T:</p> <p>C10.1 AWARENESS CHAMPION</p>		
	<p>Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification</p>	Item	
85	<p>F: V: T:</p> <p>C10.2 AWARENESS WORKSHOPS</p>		
	<p>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</p>	Item	
86	<p>F: V: T:</p> <p>C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.</p>		
	<p>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</p>	Item	
87	<p>F: V: T:</p> <p>C10.4 ACCESS TO CONDOMS</p>		
	<p>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</p>	Item	
88	<p>F: V: T:</p> <p>C10.5 MONITORING</p>		
	<p>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</p>		
	<p>Carried To Section Summary</p>	R	
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F: V: T:		
<u>C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT</u>		
89 The contractor shall comply with all the requirements as set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)		
It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document		
The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of Clause A25.0 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		
Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained		
F: V: T:		
<u>C12.0 EMPLOYMENT AND TRAINING OF YOUTH WORKERS ON THE EXPANDED PUBLIC WORKS PROGRAMME (EPWP) INFRASTRUCTURE PROJECTS: NATIONAL YOUTH SERVICE (NYS)</u>		
90 The contractor shall comply with all the requirements as set out in the "Additional Specification SL: Employment and Training of Youth Workers on the Expanded Public Works Programme (EPWP) Infrastructure Projects: National Youth Service (NYS)" as attached to these bills of quantities / lump sum document		
The contractor shall identify a minimum number of youth workers from a priority list, and shall employ them at the statutory labour rates for a minimum period and train them, all as per the aforementioned specification and as elsewhere measured in these bills of quantities / lump sum document		
The contractor shall liaise and co-ordinate with the employer and the EPWP Training Service Provider with regard to the priority list, the selection of youth workers, and the employment and training of the identified youth workers		
The contractor shall avail the services of an adequately qualified foreman specifically for the EPWP-NYS youth workers, to act as their construction supervisor. The foreman will be responsible for continually monitoring the progress of the youth workers and for addressing questions and issues that may arise from the youth workers		
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Separate items which will be subject to remeasurement have been included elsewhere in these bills of quantities / lump sum document to cover the direct costs associated with the employment and training of the youth workers. Any additional requirements in respect of the aforementioned specification are deemed to be priced hereunder and no additional claims in this regard shall be entertained

F: V: T:

C13.0 IMPLEMENTATION OF LABOUR-INTENSIVE INFRASTRUCTURE PROJECTS UNDER THE EXPANDED PUBLIC WORKS PROGRAMME (EPWP)

91 The contractor shall comply with all the requirements of the “Code of Good Practice for Employment and Conditions of Work for Special Public Works Programmes” issued in terms of the “Basic Conditions of Employment Act, 1997 (Act No 75 of 1997)” and the related “Ministerial Determination”, for the employment of locally employed temporary workers on a labour-intensive infrastructure project under the Expanded Public Works Programme (EPWP)

The contractor shall maintain daily records with regard to the workers employed and shall, on a monthly basis, submit a report to the principal agent in the prescribed format. Compulsory indicators such as the project budget, actual project expenditure, number of job opportunities created, demographic characteristics of workers employed, minimum daily wage rate, number of person-days of employment created and number of training person-days, shall be included in said report, all as defined in the “Guidelines for the Implementation of Labour-Intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP)”

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

F: V: T:

C14 COMMUNITY LIAISON OFFICER

92 Provide the amount of R75 000.00 (Seventy Five Thousand Rand) for the Community Liaison Officer (CLO) with salary of R5000.00 per month for a period of Fifteen (15) months.

F: V: T:

SUMMARY OF CATEGORIES

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

Item

Item

Item

75 000 00

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Section No. 1
Bill No. 1
Preliminaries



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SECTION NO. 1

PRELIMINARIES

SECTION SUMMARY

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SECTION SUMMARY



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Section No. 1
SECTION SUMMARY



SECTION NO. 2

PHASE 1



	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>PHASE 1</u>				
<u>BILL NO. 1</u>				
<u>ALTERATIONS (PROVISIONAL)</u>				
<u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG102</u>				
<u>Trade Preambles:</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
For Trade Preambles refer to 'Model Preambles for Trades' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill				
<u>Supplementary Preambles:</u>				
Prices are to include for carting away from site all materials not specifically mentioned as being stored on site for re-use or handed over to the Employer and all rubbish, debris, etc., arising from the alterations, etc., and for making good all work damaged or disturbed to the approval of the Principal Agent.				
If angle grinders are used, a method of containing the dust must be utilised. Should the dust produced by the use of angle grinders, be deemed to be a nuisance by the Employer, their use will be prohibited.				
<u>MAKING GOOD OF FINISHES, ETC</u>				
<u>Making good internal cement plaster</u>				
1	Walls in patches.	m ²	98	
2	Walls where 110mm brick walls removed	m ²	15	
3	Walls where 220mm brick walls removed	m ²	25	
4	Walls where 330mm brick walls removed.	m ²	11	
<u>Making good external cement plaster</u>				
5	Walls in patches.	m ²	59	
<u>Making Good Existing Ironmongery:</u>				
6	Allowance for servicing, reinstatement and tabling of keys to existing ironmongery in Block E	Item		
7	Allowance for servicing, reinstatement and tabling of keys to existing ironmongery in RESIDENCE BLOCK A	Item		
8	Allowance for servicing, reinstatement and tabling of keys to existing ironmongery in RESIDENCE BLOCK B	Item		
Carried to Collection				
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Bill No. 1				
Alterations (provisional)				
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Amount

BILL NO. 1
ALTERATIONS (PROVISIONAL)
COLLECTION

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Section No. 2
Bill No. 1
Alterations (provisional)



Unit	Quantity	Rate	Amount
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SECTION NO. 2

PHASE 1

BILL NO. 2

CARPENTRY AND JOINERY

WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG126

TRADE PREAMBLES

Trade Preambles:

For Trade Preambles refer to 'Model Preambles for Trades' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill

SUPPLEMENTARY PREAMBLES

Particle board:

Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type.

Joinery:

Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.

Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.

Fixing:

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

Decorative laminate finish:

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish.

JOINERY SUNDRIES

JOINERY FITTINGS

Faced Boards

- | | | | | | |
|---|--|----|---|--|--|
| 1 | Existing Rectengular shaped Kitchen Counter 01 with new 600mm wide Rusteburg granite counter top, colour Espresso (RESIDENCE BLOCK A) 900mm above the ground, with cupboards underneath constructed according to MDA Architect Police Residences Drawing number 25697. | No | 1 | | |
|---|--|----|---|--|--|

Carried to Collection

R

Section No. 2

Bill No. 2

Carpentry And Joinery



	Unit	Quantity	Rate	Amount
2 Existing L shaped Kitchen Counter 02 with new 800mm wide Rustenburg granite counter top, colour Espresso (RESIDENCE BLOCK A) 900mm above the ground, with cupboards underneath and 1314mm high cupboards 500mm above the counter top, constructed according to MDA Architect Police Residences Drawing number 25697.	No	1		
3 Existing L shaped Kitchen Counter 03 with new 600mm wide Rustenburg granite counter top, colour Espresso (RESIDENCE BLOCK A) 900mm above the ground, with drawers and cupboards underneath, 1200mm high cupboards 500mm above the counter top, and a 2600mm high food cupboard constructed according to MDA Architect Police Residences Drawing number 25697.	No	1		
4 Existing L shaped scullary Counter 04 with new 600mm wide Rustenburg granite counter top, colour Espresso (RESIDENCE BLOCK A) 900mm above the ground, with cupboards underneath and with double sink on top (elsewhere measured) constructed according to MDA Architect Police Residences Drawing number 25697.	No	1		
5 Existing L shaped Kitchen Counter 01 with new 800mm wide Rustenburg granite counter top, colour Espresso (RESIDENCE BLOCK B) 900mm above the ground, with cupboards underneath and 1314mm high cupboards 500mm above the counter top, constructed according to MDA Architect Police Residences Drawing number 25697.	No	1		
6 Existing Rectengular shaped Kitchen Counter 02 with new 600mm wide Rustenburg granite counter top, colour Espresso (RESIDENCE BLOCK B) 900mm above the ground, with cupboards underneath and double sink (elsewhere measured) constructed according to MDA Architect Police Residences Drawing number 25697.	No	1		
7 Existing L shaped Bachelor flat Kitchen Counter 04 with new 600mm wide Rustenburg granite counter top, colour Espresso (RESIDENCE BLOCK B) 900mm above the ground, with cupboards underneath and single sink (elsewhere measured), constructed according to MDA Architect Police Residences Drawing number 25697.	No	1		
<u>SKIRTINGS</u>				
<u>Wrought meranti</u>				
8 19 x 70mm Skirtings including 19mm quadrant bead, nailed	m	498		
Carried to Collection				
Section No. 2				
Bill No. 2				
Carpentry And Joinery				
			R	



Amount

BILL NO. 2
CARPENTRY AND JOINERY
COLLECTION

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Section No. 2
Bill No. 2
Carpentry And Joinery



	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>PHASE 1</u></p> <p><u>BILL NO. 3</u></p> <p><u>CEILINGS PARTITIONS AND ACCESS FLOORING</u></p> <p><u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG129</u></p> <p><u>TRADE PREAMBLES</u></p> <p><u>Trade Preambles:</u></p> <p>For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary items or materials</u></p> <p>Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Principal Agent.</p> <p><u>Descriptions:</u></p> <p>Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.</p> <p>Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted the bolts have been given.</p> <p><u>CEILING CONSTRUCTION, CORNICES, ETC.</u></p> <p><u>NAILED-UP CEILINGS</u></p> <p><u>6.5mm Gypsum Rhinoboard ceiling with taped joints between panels:</u></p>				
1	m ²	54		
<p><u>SUSPENDED CEILINGS</u></p> <p><u>1195 x 595 x 8mm PVC vinyl faced gypsum ceiling boards in 1200 x 600 Donn double stitched prepainted white T38 main tees and T38 cross inclusive of all grids, plates, holding down clips suspended on minimum 4mm diameter suspension rods, ceiling to be fitted to roof structure.</u></p>				
2	m ²	48		
			Carried to Collection	R
<p>Section No. 2</p> <p>Bill No. 3</p> <p>Ceilings Partitions And Access Flooring</p>				



	Unit	Quantity	Rate	Amount
<u>6.8mm Gypsum rhinoboard bulkhead fixed to aluminium substructure, suspended on minimum 4mm diameter suspwnsion rods.</u>				
3	Suspended Ceiling not exceeding 1m below trusses at centre not exceeding 1200mm.	m ²	27	
4	37 x 24mm SM12 pre-painted white recessed shadow line cornice plugged and screwed to wall.	m	55	
5	Pelican System 42 x 46mm Basixx high density extruded polystyrene cornice	m	71	
<u>INSULATION</u>				
6	102mm Thick cavity batt insulation to be installed over existing ceilings.	m ²	54	
Carried to Collection				
Section No. 2				
Bill No. 3				
Ceilings Partitions And Access Flooring				
			R	



Amount

BILL NO. 3

CEILINGS PARTITIONS AND ACCESS FLOORING

COLLECTION

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Section No. 2

Bill No. 3

Ceilings Partitions And Access Flooring



	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>PHASE 1</u>				
<u>BILL NO. 4</u>				
<u>IRONMONGERY</u>				
<u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG132</u>				
<u>Trade Preambles:</u>				
For Trade Preambles refer to 'Model Preambles for Trades' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Finishes to ironmongery:</u>				
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered : CH Chromium plated : SC Satin chromium plated : SE Silver enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ABL Anodised black : PB Polished brass : PL Polished and lacquered : PT Epoxy coated : Project Five Star 2006.				
<u>Master keying:</u>				
All En-Suite locks to be master keyed to existing master key reference available from "Dorma Kaba".				
<u>HANDLES, FLUSH PULLS, ETC</u>				
<u>Dorma:</u>				
1	DPH213 BTB 382 x 32mm Straight Tubular Pull handle (BTB fixing sets included)	Pairs	2	
2	DPH206 BTB 400 x 30mm offset tubular pull handle (BTB fixing sets included)	Pairs	4	
<u>SUNDRIES</u>				
<u>Union:</u>				
3	Single Action floor spring for aluminium "BTS75 SA LM-HO door HOLD OPEN - (Mech/Spindle/7510SS/7459/B36.1.2)	Sets	2	
4	H076 Howick heavy duty stainless steel spring clip	No	12	
5	DDS-NP-018 Floor Mounted Door Stop	No	55	
			Carried to Collection	R
Section No. 2				
Bill No. 4				
Ironmongery				



	Unit	Quantity	Rate	Amount
<u>BATHROOM FITTINGS</u>				
<u>Hand towel Dispensers:</u>				
6				
Franke' wall mounted paper towel dispenser (code: BS600P 359790) size 115 x 290 x 438mm with a single piece deep drawn lid and cylinder lock with standard key.				
	No	2		
7				
Franke' Perforated wall mounted waste container (code: BS610 359800) size 410 x 205 x 380mm with a 180degree radius front and perforated fascia pattern.				
	No	2		
<u>Hand Dryer</u>				
8				
Franke hand free dryer (code HF 2400 HD) mounted to wall at 1560mm above FFL				
	No	2		
<u>Waste Bin</u>				
9				
Franke wall mounted waste container BS605 (product code: 359822)				
	No	2		
<u>Soap Dispensers:</u>				
10				
Franke' wall mounted liquid soap dispenser (code: BS619) overall size 200 x 130 x 85mm with a deep drawn lid and cylinder lock with standard key				
	No	6		
<u>Franke 'or equal approved</u>				
11				
600mm s.s towel rail bolted to wall (code: 359933).				
	No	6		
<u>ACCESS CONTROL DEVICES</u>				
<u>Chubb:</u>				
12				
Baked enamel 'break glass' unit plugged to walls.				
	No	1		
			Carried to Collection	R
Section No. 2				
Bill No. 4				
Ironmongery				



Amount

BILL NO. 4
IRONMONGERY
COLLECTION

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Section No. 2
Bill No. 4
Ironmongery



Unit Quantity Rate Amount

SECTION NO. 2

PHASE 1

BILL NO. 5

METALWORK

WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG136

Trade Preambles:

For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill

SUPPLEMENTARY PREAMBLES

Proprietary items or materials:

Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Principal Agent.

Descriptions:

Descriptions of bolts shall be deemed to include nuts and washers.

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

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

Doors and windows shall comply with AAAMSA design criteria.

Glazing shall comply with SAGGA regulations. Glass shall be of the type of glass as shown on the window and door schedules and drawings appended to these Bills of Quantities and as described in the Bills of Quantities. Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings.

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

For purpose made windows and doors, refer to drawings annexed to these Bills of Quantities.

Carried to Collection

R

Section No. 2

Bill No. 5

Metalwork



	Unit	Quantity	Rate	Amount
<p>The following certificates shall be provided prior to commencement of site work: 1. A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product. 2. A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively. 3. A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process. 4. A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked. 5. A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years.</p>				
<p><u>HOT DIPPED GALVANISED STEEL WINDOWS, DOORS, ETC</u></p>				
<p><u>Purpose made galvanised expanded mesh:</u></p>				
1				
	No	27		
2				
	No	6		
			Carried to Collection	R
Section No. 2				
Bill No. 5				
Metalwork				



	Unit	Quantity	Rate	Amount
<p><u>NATURAL ANODISED OR SIMILAR APPROVED ALUMINIUM SHOPFRONT SYSTEM: WG 140</u></p> <p><u>Level G2 - Handguns up to and including .357 Magnum as well as 12 gauge shotgun firing buckshot with Natural Anodised aluminium extrusion by specialist frame and glazed with 38mm Bullet Resistent Glazing. Aluminium sections, constructed and installed according to the guidelines of The Association of Architectural Aluminium Manufactures of South Africa (AAASA). Glazing is to be carried out in strict accordance with the SABS 0137/2000 Code of Practice: 'The Installation of Glazing in Buildings' and where required, safety glazing materials must conform to SABS 1263. Drawings of all sections and fixing details to be used to be submitted for approval and all dimensions are to be verified on site prior to manufacture. All shopfronts and windows need to be weather proofed and sealed where necessary and all aluminium is to be protected during installation and for the duration of construction work by removab</u></p>				
3	No	1		
<p><u>GALVANISED STEEL BALUSTRADES</u></p> <p><u>Welded balustrades to walkways</u></p>				
4	m	10		
5	No	6		
Carried to Collection				R
Section No. 2				
Bill No. 5				
Metalwork				



Amount

BILL NO. 5
METALWORK
COLLECTION

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Section No. 2
Bill No. 5
Metalwork



	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>PHASE 1</u>				
<u>BILL NO. 6</u>				
<u>PLASTERING</u>				
<u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG142</u>				
<u>Trade Preambles:</u>				
For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary items or materials:</u>				
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Principal Agent.				
<u>GRANO</u>				
<u>Untinted grano on concrete:</u>				
1	30mm Untinted grano steel trowelled on concrete floors.	m ²	45	
<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>				
<u>Corner protectors, dividing strips, etc.:</u>				
2	3 x 57mm Flat section brass water bar.	m	52	
3	3 x 57mm Flat section brass dividing strips between different floor finishes.	m	25	
Carried To Section Summary				
Section No. 2				
Bill No. 6				
Plastering				
			R	



	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>PHASE 1</u>				
<u>BILL NO. 7</u>				
<u>TILING</u>				
<u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG144</u>				
<u>Trade Preambles:</u>				
For Trade Preambles refer to 'Model Preambles for Trades' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Descriptions:</u>				
Unless described as fixed with adhesive to plaster (plaster elsewhere), descriptions of tiling on brick or concrete walls, columns, etc., shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc. shall be deemed to include 1:3 plaster bedding.				
<u>PORCELAIN FLOOR COVERINGS, WALL LININGS, ETC.</u>				
<u>PORCELAIN FLOOR TILING</u>				
<u>600 x 600 x 12mm full bodied porcelain tiles laid on TAL Gold Star tile adhesive, grout to architect's choice. Allow the prime cost amount of R500-00 (Five Hundred Rand excluding VAT) net per square metre for tiles, supplied and delivered to site and add for taking delivery, storage and installation.</u>				
1	m ²	79		
2	m	245		
<u>300 x 300 x 8mm 'Salt and Pepper' full bodied porcelain tiles fixed with 'Tal Goldstar' rapid setting adhesive with straight joints in both directions to steel trowel plastered walls and flush pointed with 'Tal Grey Proflex' tile grout. Allow the prime cost amount of R500-00 (Five Hundred Rand excluding VAT) net per square metre for tiles, supplied and delivered to site and add for taking delivery, storage and installation.</u>				
3	m ²	47		
4	m	54		
			Carried to Collection	R
Section No. 2				
Bill No. 7				
Tiling				



	Unit	Quantity	Rate	Amount
<u>PORCELAIN WALL TILING</u>				
<u>300 x 300 x 8mm 'Salt and Pepper' full bodied porcelain wall tiles fixed with 'Tal Goldstar' rapid setting adhesive with straight joints in both directions to steel trowel plastered walls and flush pointed with 'Tal Grey Proflex' tile grout. Allow the prime cost amount of R500-00 (Five Hundred Rand excluding VAT) net per square metre for tiles, supplied and delivered to site and add for taking delivery, storage and installation.</u>				
5	m ²	87		
6	m ²	8		
<u>NOSINGS, JOINT COVERS, PROTECTORS, ETC.</u>				
<u>Mtrim' or equal approved cover strips:</u>				
7	m	44		
8	m	35		
<u>Brass or equally approved:</u>				
9	m	14		
<u>M Trim' PVC round edge trim:</u>				
10	m	14		
Carried to Collection				
Section No. 2				
Bill No. 7				
Tiling				
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Amount

BILL NO. 7
TILING
COLLECTION

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Section No. 2
Bill No. 7
Tiling



	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>PHASE 1</u> <u>BILL NO. 8</u> <u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p><u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG148</u></p> <p><u>Trade Preambles</u> For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Polycop' polypropylene pipes:</u> Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with 'Fast-fuse' heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated. Pipes shall be firmly fixed to walls etc. with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions. All pipe diameters are nominal external.</p> <p><u>Polylink' polypropylene pipes:</u> Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron 'Supraclamp' running joints. Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured. Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double X joint couplers. Branch tees shall include flanged and bolted joints to 'Polycop' branch pipes in addition and for brass compression male iron to copper straight couplers. Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reduces shall be of sufficient overall length to accommodate same. All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions. All pipe diameters are nominal external.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 8 Plumbing And Drainage (provisional)</p>			R	



	Unit	Quantity	Rate	Amount
<p><u>Concrete pipes:</u> Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.</p> <p><u>Vitrified Clay Pipes etc.:</u> Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid.</p> <p>uPVC pipes and fittings.</p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings.</p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed.</p> <p><u>uPVC pressure pipes and fittings:</u> Pipes for water supply shall be of the class stated.</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.</p> <p>Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.</p> <p><u>Copper pipes:</u> Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be 'Cobra Watertech' type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.</p> <p><u>Fixing of pipes</u> Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level</p> <p><u>Lead pipes and traps:</u> All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel.</p>				
Carried to Collection				R
<p>Section No. 2 Bill No. 8 Plumbing And Drainage (provisional)</p>				



	Unit	Quantity	Rate	Amount
<p><u>Reducing fittings:</u> Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc. will be entertained.</p>				
<p><u>Wire gratings:</u> Descriptions of gutter outlets etc. shall be deemed to include wire balloon gratings.</p>				
<p><u>Septic tanks:</u> Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc. all in accordance with the manufacturer's instructions.</p>				
<p><u>Exposed concrete surfaces:</u> Exposed surfaces of concrete storm water channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catch pits, inspection chambers, etc. shall be finished smooth with plaster.</p>				
<p><u>Excavations:</u> No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling. Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.</p>				
<p><u>Laying, backfilling, bedding, etc. of pipes:</u> Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions. Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Storm water drainage Pipe trenches etc. shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SAB.</p>				
<p><u>Flush pans:</u> Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.</p>				
			Carried to Collection	R
Section No. 2 Bill No. 8 Plumbing And Drainage (provisional)				



	Unit	Quantity	Rate	Amount
<p><u>Stainless steel basins, sinks, wash troughs, urinals, etc.:</u> Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.</p> <p><u>Waste unions:</u> Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.</p> <p><u>Steel sectional water tanks:</u> Tanks shall comply with SABS CKS 114.</p> <p><u>Densyl' petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd:</u> Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described. Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, 'Layflat' sheeting, securing of same, etc. Prices for wrapping of pipes shall include for all work as described to couplings in the length.</p> <p><u>RAINWATER DISPOSAL</u></p> <p><u>Watertite' pre painted external and internal with ColourTech G4 high performance non-fluorinated polymer modified long chain hydro-carbon paint aluminium:</u></p>				
1	m	66		
2	No	8		
3	No	8		
4	No	8		
5	m	20		
6	No	8		
7	No	4		
Carried to Collection				
Section No. 2				
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			R	



	Unit	Quantity	Rate	Amount
<u>SANITARY FITTINGS</u>				
<u>Supply and fix the following sanitary fittings, geysers and equipment together with loose ancillary fittings supplied therewith, including unloading, storing, unpacking, hoisting or lowering as required, fixing and building into position, cutting all mortices and chases as required for fixing and building in position, cutting, brackets, clamps, etc., and connecting up pipework and handing over in perfect working order at completion:</u>				
<u>Vaal' or equal approved:</u>				
8	No	4		
White vitreous china 510 x 405mm round "HIBISCUS" basin (product code: 702303), with single tap hole.				
9	No	4		
"Orchid" wall hung open rimmed white vitreous china close coupled 90-degree W.C pan (product code: 438600) complete with matching 6 litre push button top dual flush back inlet cistern complete with lid, fitments (product code: 4386DT)				
<u>Franke' - grade 304 (18/10) polished stainless steel or equal approved:</u>				
10	No	1		
Franke Nouveau NVN621' double bowl sink, size 1160 x 460mm (Product:811024), fixed to cupboard (cupboard elsewhere) with securing clips and sealed with silicone adhesive along edges.				
11	No	2		
Franke Nouveau NVN621' double bowl sink, size 1160 x 460mm (Product:1990002), fixed to cupboard (cupboard elsewhere) with securing clips and sealed with silicone adhesive along edges.				
12	No	1		
Franke Nouveau single bowl sink, size 800 x 460mm (Product:811023), fixed to cupboard (cupboard elsewhere) with securing clips and sealed with silicone adhesive along edges.				
<u>TAPS, VALVES, ETC.</u>				
13	No	2		
Franke ET 103 540 x 370 x 388mm deep mini stainless steel washthrough wall mounted wash trough.				
<u>Cobra-Watertech':</u>				
14	No	2		
15mm "Cobra 108" brass hose bib tap with hose union.				
15	No	5		
Heritage Karoo single lever bath mixer nut (product code: KO-951 Hot and Cold water supply)				
16	No	3		
Combination bath filler outlet and overflow (product code: 030)				
			Carried to Collection	R
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	Unit	Quantity	Rate	Amount
39	No	3		
40	No	3		
41	No	3		
42	No	4		
43	No	4		
Testing:				
44	Item			
WATER SUPPLIES				
Internal water supplies:				
Holes, etc., are deemed to be included in the descriptions of the pipework.				
Class 2 copper pipes:				
45	m	41		
46	m	56		
47	m	49		
48	m	12		
49	m	33		
50	m	22		
51	m	20		
52	m	7		
Extra over class 2 copper pipes for copper to copper capillary fittings:				
53	No	15		
54	No	9		
55	No	6		
56	No	5		
Extra over class 2 copper pipes for brass compression fittings:				
57	No	14		
58	No	6		
59	No	5		
Carried to Collection				
Section No. 2				
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BILL NO. 8
PLUMBING AND DRAINAGE (PROVISIONAL)
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Bill No. 8
Plumbing And Drainage (provisional)



	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>PHASE 1</u>				
<u>BILL NO. 9</u>				
<u>ELECTRICAL WORK (PROVISIONAL)</u>				
<u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG160</u>				
<u>DISTRIBUTION BOARDS etc.</u>				
Rates for distribution boards etc. are to include for busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings				
<u>Switches, socket outlets, etc.</u>				
Rates for switches, sockets outlets, etc. are to include for screwing to outlet boxes, connecting up and cover plates				
<u>Light fittings</u>				
Rates for light fittings are to include for hanging, fixing and connecting and for lamp holders and fluorescent tubes and lamps of the type and wattage described				
<u>DISTRIBUTION BOARDS</u>				
<u>Electrical DB's</u>				
<u>Complete supply, deliver and installation according to single line specifications (see single line drawings) Including Surge Arrestors. Surge arrestors similar in quality as Danguard or as approved by engineer. (Drawing number: EE 10671-400-SLO-00)</u>				
1	No	1		
2	No	1		
3	No	1		
<u>DB's for other services</u>				
<u>Tele Data DB</u>				
4	No	1		
<u>OUTLET BOXES, COVER PLATES,ETC</u>				
<u>Boxes:</u>				
5	No	15		
6	No	20		
			Carried to Collection	R
Section No. 2				
Bill No. 9				
Electrical Work (provisional)				



	Unit	Quantity	Rate	Amount
<u>Covers:</u>				
7	No	32		
<u>CABLE TRUNKING, ETC</u>				
<u>Trunking (Galvanized Steel)</u>				
8	m	15		
9	m	5		
10	m	10		
11	m	8		
12	m	5		
<u>SOCKET OUTLETS AND LIGHT SWITCHES</u>				
<u>Light switches:</u>				
13	No	20		
<u>Socket outlets:</u>				
14	No	4		
15	No	10		
16	No	1		
17	No	12		
18	No	9		
19	No	15		
20	No	12		
<u>Provision for other services</u>				
21	No	38		
22	No	38		
23	No	24		
Carried to Collection				
Section No. 2				
Bill No. 9				
Electrical Work (provisional)				
			R	



	Unit	Quantity	Rate	Amount
<u>Isolators</u>				
24	No	2		
25	No	2		
<u>LUMINAIRES</u>				
<u>Photocell</u>				
26	No	1		
<u>EARTHING AND LIGHTNING PROTECTION</u>				
<u>Earthing</u>				
27	No	2		
28	No	2		
29	No	2		
<u>Lightning protection</u>				
<u>Supply and Install and Earthing and External Lightning Protection System with all required accessories, including a link to the electrical earth and links between the buildings to achieve equipotential bonding. Protection level 3, Down Conductor System. Complete lightning protection of all buildings in accordance with SABS IEC 61024-1-2:1998 specifications.</u>				
<u>Air termination system to be installed on tiled roof and on all parapits / exposed elements.</u>				
<u>Downconductor system to be installed within wall cavities or surface mounted and bonded to earth termination system.</u>				
<u>Roof Type: Metal sheeting</u>				
<u>AreaSize: 2100m2</u>				
30	m	10		
31	m	50		
32	m	25		
			Carried to Collection	R
Section No. 2				
Bill No. 9				
Electrical Work (provisional)				



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BILL NO. 9
ELECTRICAL WORK (PROVISIONAL)
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Bill No. 9
Electrical Work (provisional)



	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>PHASE 1</u>				
<u>BILL NO. 10</u>				
<u>MECHANICAL WORK (PROVISIONAL}</u>				
<u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG170</u>				
<u>DuctWork</u>				
Descriptions of ducts shall be deemed to include stiffeners, jointing materials, sealants, couplers in the running length and access/inspection panels in accordance with the specification				
<u>Dampers</u>				
Descriptions of smoke and fire dampers shall be deemed to include fusible links, sleeves, frames, supports and access openings in ducts				
<u>Equipment</u>				
<u>Outdoor Units Supply & Install on concrete Plinths or mounted against wall, including fixtures</u>				
<u>Indoor Units supply & install against the wall including fixtures</u>				
1	No	1		
WALL MOUNT SPLIT UNIT 12000BTU / 4kW				
<u>AIRCON ACCESSORIES</u>				
2	No	1		
Wired remote controller				
3	No	1		
Drain Pump				
<u>Additional Gas</u>				
4	Kg	2		
R 410 gas				
<u>Water Pumps</u>				
5	No	2		
Install complete 0,4 kW Single Phase Domestic pump system as per attached specification. Unit to be mounted onto plinth and secured by galvanised cage.				
Carried To Section Summary				
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Bill No. 10				
Mechanical Work (provisional}				
			R	



Unit Quantity Rate Amount

SECTION NO. 2

PHASE 1

BILL NO. 11

GLAZING

WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG150

Trade Preambles

For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill

SUPPLEMENTARY PREAMBLES

Proprietary items or materials:

Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Principal Agent.

Glazing code of practise conforms to SANS 10137.

Security and Safety glazing material conforms to SANS 1263 Part 2 & 3.

Powder coating 60 microns in accordance with SANS 1578 and 1796.

TOPS, SHELVES, DOORS, MIRRORS, ETC

6mm 'GG' quality polished silvered float glass copper backed mirrors with polished edges holed for and fixed with round rose chromium plated mirror screws with rubber buffers to plugs in brickwork or concrete:

1	Mirror 600 x900mm high with four screws.	No	10		
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Section No. 2
Bill No. 11
Glazing



Unit Quantity Rate Amount

SECTION NO. 2

PHASE 1

BILL NO. 12

PAINTWORK

WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG152

Trade Preambles:

For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill

SUPPLEMENTARY PREAMBLES

User Note The following four items, given as examples, have been set up to comply with the Munsell system (the 'extra over' option) as prescribed in the Standard System of Measuring Building Work and should be inserted at the end of each type of paint where applicable:

Extra over paintwork to all areas, for paintwork in colours which have a value of 7 or less based on the Munsell system m² Extra over paintwork to gates, grilles, burglar screens, balustrades, etc., for paintwork in colours which have a value of 7 or less based on the Munsell system (both sides measured over the full flat area) m² Extra over paintwork to rails, bars, pipes, etc. not exceeding 300mm girth, for paintwork in colours which have a value of 7 or less based on the Munsell system m Extra over paintwork to skirting's, rails, etc. not exceeding 300mm girth for paintwork in colours which have a value of 7 or less based on the Munsell system m

Carried to Collection

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Section No. 2
Bill No. 12
Paintwork



	Unit	Quantity	Rate	Amount
<p>Extra over paintwork to all areas, for paintwork in colours which have a value of 7 or less based on the Munsell system m² Extra over paintwork to gates, grilles, burglar screens, balustrades, etc., for paintwork in colours which have a value of 7 or less based on the Munsell system (both sides measured over the full flat area) m² Extra over paintwork to rails, bars, pipes, etc. not exceeding 300mm girth, for paintwork in colours which have a value of 7 or less based on the Munsell system m Extra over paintwork to skirting's, rails, etc. not exceeding 300mm girth for paintwork in colours which have a value of 7 or less based on the Munsell system m Note It has however become evident that application problems exist with the said Munsell system and until such time as the Standard System of Measuring Building Work is adjusted to overcome these problems users should determine from the relevant m manufacturer which of their colour groupings differ appreciably in price and adjust descriptions accordingly.</p>				
<p><u>PREPARATORY WORK TO EXISTING WORK</u></p>				
<p><u>Previously painted plastered surfaces</u></p>				
<p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p>				
<p><u>Previously painted metal surfaces</u></p>				
<p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p>				
<p><u>Previously painted wood surfaces</u></p>				
<p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p>				
<p style="text-align: right;">Carried to Collection</p>				R
<p>Section No. 2 Bill No. 12 Paintwork</p>				



	Unit	Quantity	Rate	Amount
<p>Project 5 Star:</p> <p><u>Cleaning of unsound surfaces - plaster cracks and holes, peeling paint, lichen and algae, dirt and debris, greasy, chalky, and powdery surfaces. Dirty, grasy surfaces, as well as paint coatings that have chalked, should be washed with a solution of SUGAR SOAP, or a water - soluble degreaser.</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary items or materials:</u></p> <p>Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Principal Agent.</p> <p><u>SABS Specifications:</u></p> <p>Matt or eggshell decorative paint for interior works : SABS 515</p> <p>High gloss enamel paint : SABS 630 Grade I</p> <p>Oil gloss enamel paint : SABS 631</p> <p>Primers for wood for external work : SABS 678 Type I</p> <p>Primers for wood for internal work : SABS 678 Type III</p> <p>Zink chromate primers for steel : SABS 679 Type I</p> <p>Undercoats for paints (except emulsion paint) : SABS 681 Type I</p> <p>Aluminium paint : SABS 682 Grade II</p> <p>Roof paints : SABS 683 Type B (Oil) SABS 940 (Emulsion)</p> <p>Structural steel paint : SABS 684 Type B</p> <p>Wash primer (metal etch) : SABS 723</p> <p>Varnish for interior use : SABS 887 Type I</p> <p>Emulsion paints : SABS 1586</p> <p><u>Colours, etc.:</u></p> <p>Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091</p> <p><u>PAINTWORK ETC TO NEW WORK</u></p> <p><u>ON INTERNAL FLOATED PLASTER SURFACES</u></p> <p><u>One coat alkali resistant primer and two coats premium quality, fully washable and stain resistant water base paint on:</u></p>				
1	Walls.	m ²	140	
			Carried to Collection	R
<p>Section No. 2</p> <p>Bill No. 12</p> <p>Paintwork</p>				



	Unit	Quantity	Rate	Amount
<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>				
<u>One coat alkali resistant primer and two coats premium quality non drip acrylic emulsion paint on:</u>				
2	Walls.	m ²	57	
<u>ON FIBRE-CEMENT BOARD SURFACES</u>				
<u>One coat alkali resistant primer and two coats premium quality, fully washable and stain resistant acrylic emulsion paint on:</u>				
3	On exterior fascia's and barge boards.	m ²	118	
<u>One coat universal undercoat and two coats Plascon Velvagio polyurethane enamel paint:</u>				
4	On interior sills.	m ²	60	
5	On ceilings.	m ²	81	
<u>ON METAL SURFACES</u>				
<u>One coat universal undercoat and two coats low gloss water based enamel paint on galvanised steel:</u>				
6	Windows (both sides measured).	m ²	7	
<u>One coat primer for wood and two coats Plascon Velvagio polyurethane I enamel paint on:</u>				
7	Interior doors.	m ²	25	
8	Exterior doors.	m ²	12	
9	Exterior doors frames.	m ²	5	
10	Interior doors frames.	m ²	19	
<u>One coat primer for wood and two coats Plascon Velvagio polyurethane I enamel paint on:</u>				
11	19mm hardwood quadrant trim, not exceeding 300mm girth.	m	360	
<u>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK</u>				
<u>ON INTERNAL FLOATED PLASTER SURFACES</u>				
<u>One coat alkali resistant primer and two coats premium quality, fully washable and stain resistant water base paint on:</u>				
12	Walls	m ²	274	
<u>One coat premium quality, fully washable and stain resistant water base paint on:</u>				
13	Walls	m ²	958	
			Carried to Collection	R
Section No. 2				
Bill No. 12				
Paintwork				



	Unit	Quantity	Rate	Amount
<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>				
<u>One coat alkali resistant primer and two coats premium quality non drip acrylic emulsion paint on:</u>				
14	Walls	m ²	72	
Carried to Collection				R
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Bill No. 12				
Paintwork				
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PAINTWORK
COLLECTION

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Paintwork



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SECTION NO. 2

PHASE 1

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SECTION SUMMARY



SECTION NO. 3

PHASE 2



	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>PHASE 2</u>				
<u>BILL NO. 1</u>				
<u>ALTERATIONS (PROVISIONAL)</u>				
<u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG102</u>				
<u>Trade Preambles:</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
For Trade Preambles refer to 'Model Preambles for Trades' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill				
<u>Supplementary Preambles:</u>				
Prices are to include for carting away from site all materials not specifically mentioned as being stored on site for re-use or handed over to the Employer and all rubbish, debris, etc., arising from the alterations, etc., and for making good all work damaged or disturbed to the approval of the Principal Agent.				
If angle grinders are used, a method of containing the dust must be utilised. Should the dust produced by the use of angle grinders, be deemed to be a nuisance by the Employer, their use will be prohibited.				
<u>REMOVAL OF EXISTING WORK</u>				
1	Item			
Allow for watering the works by spraying to prevent any nuisance from dust, etc., and supply, erect and remove on completion all temporary dust screens, etc. required.				
<u>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement</u>				
2	m ²	96		
110mm Thick surface beds				
3	m ²	8		
Steps				
4	m ²	12		
Ramps				
<u>Breaking down and removing brickwork etc.</u>				
5	m ²	124		
110mm Brick walls				
6	m ²	64		
220mm Brick walls				
7	m ²	18		
330mm Brick walls				
			Carried to Collection	R
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Bill No. 1				
Alterations (provisional)				



	Unit	Quantity	Rate	Amount
<u>Taking out and removing doors, windows, etc., including thresholds, sills, etc. (building up openings and making good finishes elsewhere)</u>				
8	No	49		
9	No	12		
10	No	11		
11	No	8		
12	No	2		
13	No	5		
14	No	2		
15	No	6		
16	No	4		
17	No	4		
18	No	1		
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc.</u>				
19	m ²	555		
20	m ²	873		
21	m	285		
<u>Hacking up/off and removing ceramic tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc.</u>				
22	m ²	26		
23	m ²	5		
24	m ²	20		
Carried to Collection			R	
Section No. 3				
Bill No. 1				
Alterations (provisional)				



	Unit	Quantity	Rate	Amount
<u>Hacking up/off and removing vinyl tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc.</u>				
25	Vinyl tiles including preparation of screed to receive new tiles.	m ²	526	
<u>Taking out and removing ironmongery</u>				
26	Mortice lockset from timber door	No	18	
27	Door closer from timber door and frame	No	6	
28	Toilet paper holder from wall	No	11	
<u>Taking out and removing sundry joinery work, fittings, etc.</u>				
29	Timber skirting's	m	672	
30	Timber work stations completely size 22500 x 1300 x 850mm	No	1	
31	Timber work bench size 15500 x 650 x 850mm	No	1	
<u>Taking out/off and removing sundry metalwork</u>				
32	Double security gates 1500 x 1500mm from existing 330mm wall.	No	2	
33	Single security gates 900 x 1500mm from existing 110mm wall.	No	18	
34	Existing mesh window screens.	No	16	
35	Existing overhead screens size 600 x 1000mm	m ²	6	
<u>Hacking up/off and removing granolithic, screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc.</u>				
36	Floor screed and prepare concrete floors to receive new screed	m ²	177	
37	Internal plaster from walls and prepare walls to receive new plaster.	m ²	615	
38	External plaster from walls and prepare walls to receive new plaster.	m ²	64	
Carried to Collection				
Section No. 3				
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Alterations (provisional)				
			R	



	Unit	Quantity	Rate	Amount
<u>Taking out and removing piping, sanitary fittings, etc., including cutting off as necessary, disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>				
39	m	260		
40	No	4		
41	No	4		
42	No	2		
<u>Taking out and removing glass and mirrors.</u>				
43	No	8		
<u>CUTTING THROUGH FLOORS AND CEILINGS</u>				
<u>Cutting through floors and ceilings:</u>				
44	m	41		
45	m	32		
<u>Cutting through walls:</u>				
46	m	707		
<u>MAKING GOOD OF FINISHES, ETC</u>				
<u>Making good internal cement plaster</u>				
47	m ²	182		
48	m ²	10		
49	m ²	19		
50	m ²	11		
<u>Making good external cement plaster</u>				
51	m ²	280		
52	m ²	30		
Carried to Collection			R	
Section No. 3				
Bill No. 1				
Alterations (provisional)				



	Unit	Quantity	Rate	Amount
53 Walls where 385mm brick walls removed	m ²	59		
<u>MAKING GOOD ROOF TRUSSES</u>				
<u>Replacing broken members of roof trusses:</u>				
54 Allowance for replacement of broken roof truss members where necessary, sized 38 x 114mm	m	315		
55 Allowance for replacement of broken roof truss members where necessary, sized 50 x 114mm	m	88		
56 Allowance for replacement of broken roof truss members where necessary, sized 38 x 76mm	m	185		
57 Allowance for replacement of broken roof truss members where necessary, sized 38 x 52mm	m	110		
<u>BUILDING UP OPENINGS</u>				
<u>Brickwork in NFP bricks in class II mortar in building up openings</u>				
58 110mm brick walls	m ²	124		
59 220mm Brick walls	m ²	64		
60 333mm Brick walls	m ²	18		
<u>OPENINGS THROUGH EXISTING WALLS ETC</u>				
<u>Altering openings</u>				
61 Altering opening in one brick wall where 1000 x 1250mm high steel window removed to form opening for new aluminium windows by breaking out brickwork on both sides and bottom, including making good cement plaster on both sides and into reveals (new window and making good paintwork elsewhere)	No	19		
62 Altering opening for aluminium window size 1100 x 1220mm high overall by cutting out and removing concrete lintol over, solid brickwork at reveals for full height of door, remove floor finish in opening, brick up opening as required 812mm below window cill and above insert concrete lintol over window opening, close up cavity at reveals and dampproofcourse, make good plaster both sides returned into reveals of opening, make good skirting on one side (new cills, new window and making good paintwork elsewhere)	No	4		
Carried to Collection			R	
Section No. 3				
Bill No. 1				
Alterations (provisional)				



	Unit	Quantity	Rate	Amount
<p><u>Breaking out and forming openings through brick walls for new aluminium windows, including concrete lintels over, dampproofcourse, making good cement plaster on both sides and into reveals (new window & paintwork elsewhere)</u></p>				
63	No	2		
<p><u>Breaking out for and forming openings through brick walls for new doors, remove floor finish in opening, making good cement plaster on both sides and into reveals, supply and insert cement concrete threshold finished with screed and floor finishes in opening (new lintol, door, door frame & paintwork elsewhere)</u></p>				
64	No	3		
65	No	1		
66	No	1		
Carried to Collection				
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Alterations (provisional)				
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BILL NO. 1
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	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u> <u>PHASE 2</u> <u>BILL NO. 2</u> <u>EARTHWORKS (PROVISIONAL)</u></p> <p><u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG104</u></p> <p><u>Trade Preambles:</u> For Trade Preambles refer to 'Model Preambles for Trades' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground:</u> The proposed building site has boulders under a thin layer of imported reddish brown silt sand soil of about 300mm to 800mm depth.</p> <p><u>Excavation for working space in rock</u> Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as 'extra over' bulk excavation or trench and hole excavation as the case may be</p> <p><u>Carting away of excavated material</u> 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</p> <p><u>Filling:</u> 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 necessary multiple handling of material</p> <p><u>Existing services:</u> There are a number of existing services within the site boundaries, some of these are shown on the drawings. This information is not exhaustive and does not relieve the contractor of the responsibility of locating all existing services prior to construction. There are existing water, storm water, telephone, communications and electrical services on the site. Work is to be carried out without any disruption to existing services, this includes instances where newly constructed services are to be connected to existing 'live' services.</p>				
Carried to Collection				R
Section No. 3 Bill No. 2 Earthworks (provisional)				



	Unit	Quantity	Rate	Amount
Should the existing services be damaged due to the negligence of the contractor, the contractor shall be liable for the full cost of the repair.				
<u>EXCAVATION OTHER THAN BULK</u>				
<u>Excavation in earth not exceeding 2m deep:</u>				
1	Trenches.	m ³	18	
<u>Risk of collapse of excavations other than bulk:</u>				
2	Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	57	
<u>CARTING AWAY.</u>				
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
3	Off site to a dumping site to be found by the Contractor.	m ³	11	
<u>EARTH FILLING, ETC.</u>				
<u>Filling with material from the excavations compacted to a density of at least 95% Mod. AASHTO maximum density:</u>				
4	Backfilling to trenches.	m ³	7	
<u>Filling with G6 approved material supplied and carted onto site by the Contractor, compacted to a density of at least 98% Mod. AASHTO maximum density:</u>				
5	Under floors.	m ³	12	
<u>Filling with G7 approved material supplied and carted onto site by the Contractor, compacted to a density of at least 98% Mod. AASHTO maximum density:</u>				
6	Under floors.	m ³	12	
<u>Coarse river sand filling supplied by the contractor</u>				
7	Under floors etc.	m ³	4	
<u>KEEPING EXCAVATIONS FREE OF WATER</u>				
<u>Keeping excavations free of water:</u>				
8	Keeping excavations free of all water other than subterranean water.	Item		
			Carried to Collection	R
Section No. 3				
Bill No. 2				
Earthworks (provisional)				



	Unit	Quantity	Rate	Amount
<u>TESTS</u>				
<u>Prescribed density tests on filling:</u>				
9	No	12		
<u>SOIL POISONING</u>				
<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:</u>				
10	m ²	32		
11	m ²	86		
Carried to Collection			R	
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Earthworks (provisional)				



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EARTHWORKS (PROVISIONAL)
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Bill No. 2
Earthworks (provisional)



	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u> <u>PHASE 2</u> <u>BILL NO. 3</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG110</u></p> <p><u>Trade Preambles:</u> For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cost of tests:</u> 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 Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).</p> <p><u>Breeze Concrete:</u> Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated.</p> <p><u>Foam cement Lightweight Concrete:</u> Foam cement lightweight concrete is to have a density of 600kg/m3 for the top 50mm and 500kg/m3 for the remaining thickness. The minimum thickness at outlets, channels, etc. shall be 50mm.</p> <p><u>Celbeton Lightweight Concrete:</u> Celbeton lightweight concrete is to have a density of 1000kg/m3 for the top 20mm and 408kg/m3 for the remaining thickness. The minimum thickness at outlets, channels, etc. shall be 30mm.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 3 Bill No. 3 Concrete, Formwork And Reinforcement</p>			R	



	Unit	Quantity	Rate	Amount
<p><u>Formwork:</u></p> <p>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.</p> <p>Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.</p> <p>Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks.</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p>				
<p><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES: WG 110</u></p>				
<p><u>10 MPa/19mm Concrete:</u></p>				
1	m ³	4		
<p>Surface blinding under footings and bases.</p>				
<p><u>REINFORCED CONCRETE PARTLY CAST AGAINST EXCAVATED SURFACES</u></p>				
<p><u>30 MPa/19mm Concrete:</u></p>				
2	m ³	7		
<p>Strip footings.</p>				
<p><u>REINFORCED CONCRETE</u></p>				
<p><u>30 MPa/19mm Concrete:</u></p>				
3	m ³	4		
<p>Surface bed</p>				
4	m ³	10		
<p>Suspended slab</p>				
<p><u>TEST BLOCKS</u></p>				
<p><u>Test blocks:</u></p>				
5	Sets	21		
<p>Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.</p>				
Carried to Collection				R
Section No. 3				
Bill No. 3				
Concrete, Formwork And Reinforcement				



	Unit	Quantity	Rate	Amount
<u>FINISHING TOP SURFACE OF CONCRETE</u>				
<u>Finishing top surfaces of concrete smooth with a steel trowel:</u>				
6	m ²	110		
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II): WG 111</u>				
<u>Rough formwork to sides:</u>				
7	m	113		
<u>Rough formwork to soffits:</u>				
8	m ²	48		
<u>MOVEMENT JOINTS, ETC.</u>				
<u>Isolation joints with 10mm "Jointex" by Sondor polyethalene joint filler with 10mm tear off strip between vertical concrete and brick surfaces:</u>				
9	m	173		
<u>REINFORCEMENT: WG 114 (PROVISIONAL)</u>				
<u>High tensile steel reinforcement to structural concrete work:</u>				
10	Tonnes	0.10		
11	Tonnes	0.50		
12	Tonnes	0.30		
13	Tonnes	0.20		
<u>Fabric reinforcement: WG 114</u>				
14	m ²	79		
<u>Carbon Fibre reinforcement: WG 114</u>				
15	m ²	230		
Carried to Collection				
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Concrete, Formwork And Reinforcement				



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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>PHASE 2</u>				
<u>BILL NO. 4</u>				
<u>MASONRY</u>				
<u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG116</u>				
<u>Trade Preambles:</u>				
For Trade Preambles refer to 'Model Preambles for Trades' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Sizes in descriptions:</u>				
Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick.				
<u>Hollow walls etc.:</u>				
Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.				
<u>Bagged and sealed walls</u>				
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				
<u>Face bricks:</u>				
Bricks shall be ordered timeously to obtain uniformity in size and colour.				
<u>Pointing:</u>				
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.				
<u>BRICKWORK IN FOUNDATIONS (PROVISIONAL) (DEGREE OF ACCURACY II)</u>				
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u>				
1		110mm Brick walls.	m ²	6
2		220mm Brick walls.	m ²	10
3		330mm Brick walls.	m ²	3
Carried to Collection				R
Section No. 3				
Bill No. 4				
Masonry				



	Unit	Quantity	Rate	Amount
<u>BRICKWORK IN SUPERSTRUCTURE</u>				
<u>Brickwork of NFP bricks in class II mortar:</u>				
4	m ³	17		
5	m ²	104		
6	m ²	48		
7	m ²	15		
8	m ²	35		
<u>BRICKWORK SUNDRIES</u>				
<u>Brickwork reinforcement:</u>				
9	m	135		
10	m	127		
11	m	906		
12	m	488		
<u>Prestressed fabricated lintels:</u>				
13	m	272		
<u>Joint forming material in movement joints</u>				
14	m	72		
<u>FACE BRICKWORK</u>				
<u>External Facebrick:</u>				
<u>Allow the prime-cost amount of R7 500-00 (Seven Thousand Five Hundred Rand excluding VAT) net per thousand for external face bricks, supplied and delivered to site and add for taking delivery, storage, building in and pointing with square recessed horizontal and vertical joints waste and profit:</u>				
15	m ²	26		
16	m	170		
17	m	180		
			Carried to Collection	R
Section No. 3				
Bill No. 4				
Masonry				



		Unit	Quantity	Rate	Amount
<u>FIBRE-CEMENT WINDOW SILLS</u>					
<u>Natural grey window sills in single lengths not exceeding 3.6m, bedded in class I mortar including fixing lungs screwed to underside with self tapping screws:</u>					
18	15 x 150mm Wide sills set flat and slightly projecting.	m	72		
19	15 x 190mm Wide sills set flat and slightly projecting.	m	60		
20	15 x 230mm Wide sills set flat and slightly projecting.	m	59		
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Section No. 3					
Bill No. 4					
Masonry					



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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>PHASE 2</u>				
<u>BILL NO. 5</u>				
<u>WATERPROOFING</u>				
<u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG120</u>				
<u>Trade Preambles:</u>				
For Trade Preambles refer to 'Model Preambles for Trades' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill				
<u>DAMP-PROOFING OF WALLS AND FLOORS</u>				
<u>One layer of 375 micron Consol Plastics Brikgrip DPC embossed damp proof course (SANS 952-1985 type B):</u>				
1	In walls.	m ²	12	
<u>One layer of 250 micron Consol Plastics Brikgrip waterproof sheeting sealed at laps with Gunplas Pressure Sensitive Tape:</u>				
2	Under surface beds.	m ²	29	
<u>LIQUID WATERPROOFING</u>				
<u>Prepare and brush to remove all loose contaminants, apply bituminous paint one.</u>				
3	Walls in foundations	m ²	63	
<u>JOINT SEALANTS ETC</u>				
<u>Polyurethane sealing compound including backing cord, bond breaker, primer, etc.</u>				
4	10 x 10mm In expansion joints including raking out expansion joint filler as necessary.	m	71	
5	10 x 10mm In saw cut joints in floors.	m	165	
<u>Clear silicone sealant:</u>				
6	In waterproofing joints between concrete vanity tops, plaster and stainless steel sanitary fittings.	m	59	
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Bill No. 5				
Waterproofing				
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>PHASE 2</u>				
<u>BILL NO. 6</u>				
<u>ROOF COVERINGS</u>				
<u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG124</u>				
<u>Trade Preambles:</u>				
For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary items or materials</u>				
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Principal Agent.				
<u>ROOF COVERINGS, ETC.</u>				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>0,58mm Brownbuilt Z275 Prepainted factory coated finished galvanised Cliplok concealed sheeting in continuous lengths roof sheeting fixed to timber purlins in strict accordance with manufacturers specifications:</u>				
1	m ²	1 597		
<u>0,58mm Thick AZ200 prepainted factory coated finished flashings and accessories including finish to match roof sheeting:</u>				
2	m	51		
3	m	53		
4	m	15		
5	m	43		
<u>ROOF INSULATION. WG:122</u>				
<u>Sisalation 420' or similar approved heavy industrial grade aluminium foil based insulation.</u>				
6	m ²	1 559		
			Carried to Collection	R
Section No. 3				
Bill No. 6				
Roof Coverings				



		Unit	Quantity	Rate	Amount
7	113mm Thick cellulose fibre Insulation laid taut between trusses and fixed concurrent with roof covering including galvanised steel straining wires, laps, etc.	m ²	1 346		
Section No. 3 Bill No. 6 Roof Coverings	Carried to Collection				R



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Bill No. 6
Roof Coverings



	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u> <u>PHASE 2</u> <u>BILL NO. 7</u> <u>CARPENTRY AND JOINERY</u></p> <p><u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG126</u></p> <p><u>TRADE PREAMBLES</u></p> <p><u>Trade Preambles:</u> For Trade Preambles refer to 'Model Preambles for Trades' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Particle board:</u> Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type.</p> <p><u>Joinery:</u> Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc. Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.</p> <p><u>Fixing:</u> Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</p> <p><u>Decorative laminate finish:</u> Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish.</p> <p><u>PREFABRICATED ROOF TRUSSES ETC</u></p> <p><u>Prefabricated timber roof construction complete including purlins, runners, bracing hips, valleys, cleats, purlins, etc., supplied and fixed complete:</u></p> <p><u>Preamble note:</u> Trusses are at approximately maximum 1173mm centres. Roof coverings are 'Global Roofing Solutions 762' 0,58mm thick light industrial Z200 spelter galvanised steel sheeting with double-sided aluminium foil insulation.</p>				
Carried to Collection				R
Section No. 3 Bill No. 7 Carpentry And Joinery				



	Unit	Quantity	Rate	Amount
<p>References given in descriptions refer to the respective roofs detailed on the architect's/engineer's drawings accompanying these Bills of Quantities for tender purposes.</p> <p>The contractor will be required to provide a certificate of approval signed by a registered Professional Engineer that the trusses have been designed, manufactured and installed in accordance with the relevant SABS specifications.</p>				
<u>ROOF CONSTRUCTION</u>				
<u>Sawn softwood grade 4</u>				
1	m	219		
2	m	184		
3	m	242		
4	m	395		
5	m	414		
<u>EAVES, VERGES, ETC</u>				
<u>Medium density plain fibre cement boards:</u>				
6	m	297		
7	m	38		
8	m ²	183		
<u>FRAMED DOORS ETC. (CPAP Work Group No 126)</u>				
<u>Wrought meranti doors:</u>				
9	No	3		
10	No	2		
<u>HARDWOOD DOORS</u>				
<u>Hardwood doors</u>				
11	No	18		
Carried to Collection				
Section No. 3				
Bill No. 7				
Carpentry And Joinery				
			R	



		Unit	Quantity	Rate	Amount
12	44mm thick solid core flush door, edged with 10mm hardwood faced with tempered smooth face hardwood for panting, size 813 x 2032mm high, measured as door type D05 in the MDA 308 Joubertina Police Complex door schedule attached to these bills of quantities.	No	5		
13	44mm thick solid core flush door, edged with 10mm hardwood faced with tempered smooth face hardwood for panting, size 813 x 2032mm high, measured as door type D06 in the MDA 308 Joubertina Police Complex door schedule attached to these bills of quantities.	No	1		
14	44mm thick solid core flush door, edged with 10mm hardwood faced with tempered smooth face hardwood for panting, size 813 x 2032mm high, measured as door type D07 in the MDA 308 Joubertina Police Complex door schedule attached to these bills of quantities.	No	3		
<u>FRAMED FRAMES ETC</u>					
<u>Wrought meranti:</u>					
15	75 x 100mm Rebated frames plugged.	m	298		
16	19mm hardwood quadrant trim of door frame	m	596		
<u>JOINERY FITTINGS</u>					
<u>Faced Boards</u>					
17	L shaped CSC Behind Counter 01 with 900mm wide Rusteburg granite counter top (BLOCK A) 900mm above the ground, 30mm thick with 300mm down stand at counter top edges onto 230mm internal brickwork and 38mm - GB rated bullet resistant glazed and frame partition on top (elsewhere measured) with open shelves underneath, constructed according to MDA Architect Police Complex Drawing number 25697.	No	1		
18	L shaped CSC Behind Counter 02 with 750mm wide Rusteburg granite counter top (BLOCK A) 750mm above the ground, 30mm thick with 300mm down stand at counter top edges onto 75mm diameter powder coat mild steel support posts with open drawers underneath, constructed according to MDA Architect Police Complex Drawing number 25697.	No	1		
				Carried to Collection	R
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Bill No. 7					
Carpentry And Joinery					



	Unit	Quantity	Rate	Amount
19	No	1		
20	No	1		
21	No	1		
22	No	1		
23	No	1		
24	m	3		
<u>SKIRTINGS</u>				
<u>Wrought meranti</u>				
25	m	574		
Carried to Collection				
Section No. 3				
Bill No. 7				
Carpentry And Joinery				
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Carpentry And Joinery



	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>PHASE 2</u>				
<u>BILL NO. 8</u>				
<u>CEILINGS PARTITIONS AND ACCESS FLOORING</u>				
<u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG129</u>				
<u>TRADE PREAMBLES</u>				
<u>Trade Preambles:</u>				
For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary items or materials</u>				
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Principal Agent.				
<u>Descriptions:</u>				
Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.				
Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted the bolts have been given.				
<u>CEILING CONSTRUCTION, CORNICES, ETC.</u>				
<u>SUSPENDED CEILINGS</u>				
<u>1195 x 595 x 8mm PVC vinyl faced gypsum ceiling boards in 1200 x 600 Donn double stitched prepainted white T38 main tees and T38 cross inclusive of all grids, plates, holding down clips suspended on minimum 4mm diameter suspension rods, ceiling to be fitted to roof structure, through existing ceiling boards.</u>				
1	Suspended Ceiling not exceeding 1m below trusses.	m ²	556	
<u>6.8mm Gypsum rhinoboard bulkhead fixed to aluminium substructure, suspended on minimum 4mm diameter suspension rods.</u>				
2	Suspended Ceiling not exceeding 1m below trusses.	m ²	40	
3	37 x 24mm SM12 pre-painted white recessed shadow line cornice plugged and screwed to wall.	m	736	
Carried to Collection				
Section No. 3				
Bill No. 8				
Ceilings Partitions And Access Flooring				



	Unit	Quantity	Rate	Amount
<p><u>INSULATION</u></p> <p>4 102mm Thick cavity batt insulation to be installed over existing ceilings.</p>	m ²	160		
<p>Section No. 3 Bill No. 8 Ceilings Partitions And Access Flooring</p>			<p>Carried to Collection</p>	<p>R</p>



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CEILING PARTITIONS AND ACCESS FLOORING

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Ceilings Partitions And Access Flooring



	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>PHASE 2</u>				
<u>BILL NO. 9</u>				
<u>IRONMONGERY</u>				
<u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG132</u>				
<u>Trade Preambles:</u>				
For Trade Preambles refer to 'Model Preambles for Trades' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Finishes to ironmongery:</u>				
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered : CH Chromium plated : SC Satin chromium plated : SE Silver enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ABL Anodised black : PB Polished brass : PL Polished and lacquered : PT Epoxy coated : Project Five Star 2006.				
<u>Master keying:</u>				
All En-Suite locks to be master keyed to existing master key reference available from "Dorma Kaba".				
<u>HINGES, FLOOR SPRING HINGES, BOLTS, PANIC BOLTS, ETC.</u>				
<u>Union:</u>				
1	Aluminium 1040 100mm sinkless Hinge, centre pin with standard alignment grooving for easy fitment.	Pairs	31	
2	Aluminium Alufab 2040 200mm sinkeless Hinges, centre pin, anodised.	No	31	
3	102 x 75 x 3mm two ball bearing butt hinge. (DBB-SS-009)	Pairs	40	
<u>EN-SUITE LOCKS</u>				
<u>Union:</u>				
4	D036S SS Cylinder sash lock, case dimension (mm) 116.5H x 78D. Forend dimensions (mm) 168H x 22w. Backset 57mm, centres 61mm.	No	43	
5	DMWC-SS-008 Bathroom Deadlock, case dimensions (mm) 38H x 76D. Forend dimensions (mm) 78H x 22.5W. Backset 55mm	No	3	
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		Unit	Quantity	Rate	Amount
6	D037D SS Cylinder deadlock, case dimensions (mm) 116.5H x 78D. Forend dimensions (mm) 168H x 22W. Backset 57mm	No	2		
7	D038R NP Rebate conversion kit for euro progile locks D036S, D037D.	No	2		
8	1450 ISEO 1450.00.55 55mm backset single long throw 2 pin profile cylinder gate lock.	No	11		
9	66mm five pin Euro-profile double cylinder "DDC1006600 GMK" grand master keyed	No	26		
10	66mm five pin Euro-profile double cylinder "DDC106601 MK" master keyed	No	19		
11	66mm five pin Euro-profile double cylinder "DDC 056601KD" key to differ	No	3		
12	66mm five pin Euro-profile knob cylinder "DKC106601 MK" master keyed	No	23		
13	66mm five pin Euro-profile knob cylinder "DKC056601 KD" key to differ	No	5		
14	66mm Euro-profile Bathroom/Privacy cylinder "DBC006601" master keyed	No	6		
15	Bathroom WC indicator "DWC-005" (red and white) and turn knob.	Sets	2		
16	Disabled WC indicator "DWC-006" (red and white) and turn knob for physically impaired.	Sets	1		
17	PHA5 S DD Five point locking panic bar - Double door - Door leaf 1000mm wide 2270mm high (2101, 2201, 2104, 2104, 2202, 2202, 2204, 2204)	Sets	2		
18	PHA3 S SD Three point locking panic bar - Single door - Door leaf 1000mm wide 2270mm high (2101, 2104, 2104, 2202, 2204)	Sets	1		
19	DCE-002 S.S Round cylinder escutcheon.	Pairs	2		
20	DPL1000 MK 50mm Padlock - Master Keyed	No	1		
21	ISEO 50mm Padlock (5Pin) with stainless steel shackle.	No	1		
22	994 S.A. Sliding system galvanised 600mm drop bolt.	No	1		
23	M1519As Alufab 150mm Anodised alum flush bolts.	No	4		
24	KEEP S.A. Sliding system locking keep to suit bolt specified and prepared to accept separate padlock.	No	1		
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	Unit	Quantity	Rate	Amount
25 401SC HALCAST doorstop and holder.	No	1		
<u>HANDLES, FLUSH PULLS, ETC</u>				
<u>Dorma:</u>				
26 CB30 Cyl S.C Lever handle on plate with cylinder cutout	Sets	43		
27 DPH210 BTB 300 x 30mm straight tubular Pull handle (BTB fixing sets included)	Pairs	3		
28 DPH209 BTB 200 x 22mm straight tubular Pull handle (BTB fixing sets included)	Pairs	2		
29 DPH213 BTB 382 x 32mm Straight Tubular Pull handle (BTB fixing sets included)	Pairs	2		
30 DPH206 BTB 400 x 30mm offset tubular pull handle (BTB fixing sets included)	Pairs	4		
31 DPH301B 325 x 25mm Straight tubular pull handle flange fixing	No	2		
32 DPH209 BT 200 x 22mm Straight tubular pull handle BT	No	3		
<u>PUSH PLATES AND KICKING PLATES</u>				
<u>Stainless steel push and kick plates:</u>				
33 300 x (width of door) x 1.2mm thick grand 430 stainless steel kick plate " DKP-430- SF 300". Stainless steel kick plate to have 12 countersunk holes for screw fixing. (List price calculated on 813mm wide door)	No	40		
34 200 x (width of door) x 1.2mm thick grand 430 stainless steel kick plate " DKP-430- SF 200". Stainless steel kick plate to have 12 countersunk holes for screw fixing. (List price calculated on 813mm wide door)	No	2		
35 DPP-430-BL-GF 150 x 300 x 1.2mm thick Grade 430 stainless steel plate. Stainless steel to be glued fixed.	No	1		
36 DPP-430-BL-GF 150 x 300 x 1.2mm thick Grade 430 stainless steel plate. Stainless steel to to have 6 countersunk holes for screw fixing.	No	1		
37 DPS -SS-032 Dust Proof Strike	No	2		
<u>DOOR CLOSERS</u>				
<u>Union or equal approved:</u>				
38 TS73V EN 2-4 Regular Arm NON HOLD OPEN Door Closer-Adjustable strength, Hydraulic speed control. Pull side fixing EN2 750-850, EN3 850-950, EN4 950-1100	No	6		
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	Unit	Quantity	Rate	Amount
39 TS73V DC + Regular Arm Bracket EN 2-4 Parallel Arm DELAYED ACTION Door closer. Pull side fixing EN2 750 - 850, EN3 850- 950, EN4 950 -1100	Sets	1		
40 TS73V DC HO EN 2-4 Open Arm DELAYED ACTION Door closer. Pull side fixing EN2 750 - 850, EN3 850-950, EN4 950 -1100	Sets	1		
41 TS73V PA + Parallel Arm Bracket EN 2-4 Parallel Arm NON HOLD OPEN Door closer-Adjustable Strength, Hydraulic Speed Control. Push side fitting (parallel arm bracket included) En2 750 - 850, EN3 850- 950, EN4 950 -1100	Sets	1		
<u>LETTERS, NAMEPLATES, ETC.</u>				
<u>Union:</u>				
42 Engraved Fire Escape indicator plates code AL8021/8022.	No	4		
43 Fire Escape door signage AL5066-ASE 15/16.	No	4		
44 150 x 150mm "DSS - 131 F" FEMALE sign	No	2		
45 150 x 150mm "DSS-130 M" MALE sign	No	2		
46 150 x 150mm "DSS-132 M/F" MALE/FEMALE sign	No	1		
47 150 x 150mm "DSS-133 P" DISABLED PERSONS sign	No	1		
48 150 x 150mm "DSS-135 TC" TEA CUP sign	No	2		
49 150 x 150mm "DSS-138 C" CLEANER sign	No	1		
50 Sign Type 5 - 150 x 150mm single sided prohibitory "NO SMOKING" signage with red pictogram on white background.	No	3		
51 Sign Type 6 - 150 x 150mm single sided warning "ELECTRIC SHOCK HAZARD" signage with yellow and black pictogram on white background.	No	2		
<u>SAPS STAR SIGNAGE</u>				
52 1100mm x 1100mm cast aluminium SAPS Emblem, backing plate out aluminium sprayed blue, cast aluminium star mounted on top of backing to the entrance of police building where it is visible to the public as per the Minimum Standards Specification for Signage at FSD Stations.	No	1		
Carried to Collection				
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		Unit	Quantity	Rate	Amount
<u>DIRECTIONAL SIGNAGE</u>					
53	600mm x 2400mm direction signage to the public of the location of the Police Station, done according to the municipality regulation.	No	3		
54	450mm x 1800mm Parking signage for Police Station, done according to the municipality regulation.	No	2		
55	1mm Chromadek Sheet size 2450mm x 1220mm OUT DOOR police signage face mounted to the fame size 50mm x 25mm square tube frame all around, 25mm square tube support frames inside frames to have grey primer coat and sprayed blue, including 50mm x 50mm x 1600mm high square tube steel poles as per Minimum Standards Specification for Signage at FSD Stations.	No	1		
56	1mm Chromadek Sheet size 1850mm x 925mm OUT DOOR BATHO PELE police signage face mounted to the fame size 50mm x 25mm square tube frame all around, 25mm square tube support frames inside frames to have grey primer coat and sprayed blue, including 50mm x 50mm x 1600mm high square tube steel poles as per Minimum Standards Specification for Signage at FSD Stations.	No	1		
<u>EXTERIOR SIGNAGE</u>					
57	DIRECTORY WELCOME SIGN size 600mm x 1600mm Vista System single sided, aluminium single sign holder extrusion (clear anodize), clear cover with silicon seal (glossy/non-glare), Metal (Aluminium) end caps (clear anodize) as per Minimum Standards Specification for Signage at FSD Stations.	No	1		
58	600mm x 800mm Wall mounted BUILDING SIGNS as per Minimum Standards Specification for Signage at FSD Stations.	No	11		
<u>STATION PLAQUE</u>					
59	600mm x 400mm Deep Etch Bornse Commemorative Plaque Branding COAT OF ARMS AND SAPS BADGE TO BE CO-BRANDED AS DISPLAYED IN THE EXAMPLE as per Minimum Standards Specification for Signage at FSD Stations.	No	1		
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	Unit	Quantity	Rate	Amount
<u>INTERIOR SIGNAGE</u>				
<u>Suspended Sign</u>				
60				
COMMUNITY SERVICE CENTRE size 150mm x 600mm Vista System double sided, aluminium single sign holder extrusion (clear anodize), clear cover (glossy/non-glare), Stainless steel cables, Plastic (ABS) end caps (grey), Hanging plastic element for suspended signs , cable clamps as per Minimum Standards Specification for Signage at FSD Stations.	No	1		
<u>Wall Bracket Projecting Sign</u>				
61				
COMMUNITY SERVICE SAFE size 150mm x 300mm Vista System double sided, aluminium single sign holder extrusion (clear anodize), clear cover (glossy/non-glare), Plastic (ABS) end caps (grey), Black steel base as per Minimum Standards Specification for Signage at FSD Stations.	No	2		
<u>Wall Bracket Toilet Sign</u>				
62				
TOILETS size 200mm x 200mm Vista System double sided, aluminium single sign holder extrusion (clear anodize), clear cover (glossy/non-glare), Plastic (ABS) end caps (grey), Black steel base as per Minimum Standards Specification for Signage at FSD Stations.	No	5		
63				
DIRECTORY size 600mm x 800mm Vista System single sided, aluminium single sign holder extrusion (clear anodize), clear cover (glossy/non-glare), Metal (Aluminium) end caps (clear anodize) as per Minimum Standards Specification for Signage at FSD Stations.	No	11		
<u>SUNDRIES</u>				
<u>Union:</u>				
64				
DDS-NP-018 Floor Mounted Door Stop	No	32		
65				
DDH-SS-020 Wall buffer	No	6		
66				
Single Action floor spring for aluminium "BTS75 SA LM-HO door HOLD OPEN - (Mech/Spindle/7510SS/7459/B36.1.2)	Sets	2		
67				
H076 Howick heavy duty stainless steel spring clip	No	12		
68				
DHC-SS-031B Coat hook with rubber buffer	No	7		
69				
DHC-SS-030A Hat & Coat Hook	No	1		
70				
Galvanised Barret Bolt, 150mm long fitted to bottom of inactive doorleaf.	No	4		
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	Unit	Quantity	Rate	Amount
71	166 Halstead 200mm SC on Brass Cabin Hook and eye with 100 x 100 x 75mm Chamfered wrot meranti block	No	7	
	<u>BATHROOM FITTINGS</u>			
	<u>Paper Roll Dispensers:</u>			
72	Franke' lockable toilet roll holder (product code: STRX 671,2) plugged to wall.	No	9	
	<u>Hand towel Dispensers:</u>			
73	Franke' wall mounted paper towel dispenser (code: BS600P 359790) size 115 x 290 x 438mm with a single piece deep drawn lid and cylinder lock with standard key.	No	5	
74	Franke' Perforated wall mounted waste container (code: BS610 359800) size 410 x 205 x 380mm with a 180degree radius front and perforated facia pattern.	No	4	
	<u>Hand Dryer</u>			
75	Franke hand free dryer (code HF 2400 HD) mounted to wall at 1560mm above FFL	No	8	
	<u>Waste Bin</u>			
76	Franke wall mounted waste container BS605 (product code: 359822)	No	10	
	<u>Soap Dispensers:</u>			
77	Franke' wall mounted liquid soap dispenser (code: BS619) overall size 200 x 130 x 85mm with a deep drawn lid and cylinder lock with standard key	No	7	
	<u>Franke 'or equal approved</u>			
78	1 x Franke CNTXBR 750x260 stainless steel disable grab rail mounted at 800mm above FFL (code: 359912).	No	1	
79	1 x Franke CNTX700A stainless steel angle disable grab rail mounted at 800mm above FFL (code: 359877).	No	1	
80	600mm s.s towel rail bolted to wall (code: 359933).	No	13	
	<u>ACCESS CONTROL DEVICES</u>			
	<u>Chubb:</u>			
81	Baked enamel 'break glass' unit plugged to walls.	No	1	
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Unit Quantity Rate Amount

SECTION NO. 3

PHASE 2

BILL NO. 10

METALWORK

WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG136

Trade Preambles:

For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill

SUPPLEMENTARY PREAMBLES

Proprietary items or materials:

Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Principal Agent.

Descriptions:

Descriptions of bolts shall be deemed to include nuts and washers.

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

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

Doors and windows shall comply with AAAMSA design criteria.

Glazing shall comply with SAGGA regulations. Glass shall be of the type of glass as shown on the window and door schedules and drawings appended to these Bills of Quantities and as described in the Bills of Quantities. Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings.

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

For purpose made windows and doors, refer to drawings annexed to these Bills of Quantities.

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Bill No. 10

Metalwork



	Unit	Quantity	Rate	Amount	
<p>The following certificates shall be provided prior to commencement of site work: 1. A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product. 2. A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively. 3. A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process. 4. A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked. 5. A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years.</p>					
<p><u>WELDED GALVANISED SCREENS, GATES, ETC</u></p>					
<p><u>Hot Dipped Galvanised Screens and gates to brickwork:</u></p>					
1		Single gate size 900 x 2125mm high overall of 50 x 50 x 3mm thick galvanised m.s post frame and 70 x 30 x 3mm hollow section horizontal middle cross rails, and 2 x 5mm flat welded at hinge positions with 12 x 12mm galvanised m.s solid bars welded at 100mm centres, with two purpose made hinge welded to 150 x 150 x 10mm anchor plate bolted to wall with M10 bolts and 50 x 5mm flat welded to sliding bar forming handle, installed complete as per G01 in gate schedule attached to these bills of quantities.	No	10	
2		Double swing gate size 1800 x 1955mm high overall with arch top door size 400mm high consisting of 50 x 50 x 3mm thick galvanised m.s post frame and 70 x 30 x 3mm hollow section horizontal middle cross rails, and 2 x 5mm flat welded at hinge positions with 12 x 12mm m.s solid bars welded at 94mm centres, with two purpose made hinge welded to 150 x 150 x 10mm anchor plate bolted to wall with M10 bolts and 50 x 5mm flat welded to sliding bar forming handle, installed complete as per G02 in gate schedule attached to these bills of quantities.	No	3	
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<p>Section No. 3 Bill No. 10 Metalwork</p>					



	Unit	Quantity	Rate	Amount
3 Double swing gate size 1800 x 2125mm high of 50 x 50 x 3mm thick galvanised m.s post frame and 70 x 30 x 3mm hollow section horizontal middle cross rails, and 2 x 5mm flat welded at hinge positions with 12 x 12mm m.s solid bars welded at 94mm centres, with two purpose made hinge welded to 150 x 150 x 10mm anchor plate bolted to wall with M10 bolts and 50 x 5mm flat welded to sliding bar forming handle, installed complete as per G03 in gate schedule attached to these bills of quantities.	No	1		
4 1018 x 2020mm High steel grille gate as per type T3 in South African Police Service Project 5 Star drawings POL 2006/D1 attached to these bill of quantities	No	9		
<u>HOT DIPPED GALVANISED STEEL WINDOWS, DOORS, ETC</u>				
<u>Purpose made galvanised expanded mesh:</u>				
5 Window screen mesh size 1240 x 1810mm high with 25 x 25 x 2mm square tube frame welded and fixed to 25 x 25 x 2mm bracket onto 100 x 100 x 3mm fixing plate chemically anchored into brickwork as per the window screen detail in the Architect's drawing	No	41		
6 Window screen mesh size 670 x 670mm high with 25 x 25 x 2mm square tube frame welded and fixed to 25 x 25 x 2mm bracket onto 100 x 100 x 3mm fixing plate chemically anchored into brickwork as per the window screen detail in the Architect's drawing ref no: MDA 208	No	12		
<u>ALUMINIUM LOUVRE/ GRILLE UNITS: WG 140</u>				
<u>Grille units fixed to meranti doors:</u>				
7 Aluminium grille size 400 x 360mm high as per door schedule attached to these bills of quantities.	No	18		
<u>STEEL STRONGROOM DOORS, VENTILATORS, ETC</u>				
<u>Strong room doors etc. suitable for 230mm walls fixed to brickwork:</u>				
8 Mutual Safe 120mm thick DS2 10mm strong room door inclusive of galvanised mild steel frame as supplied with door by manufactured specialist and 8 40mm diameter bolts, 7 lever security key lock as per D01 in door schedule attached to these bill of quantities	No	4		
<u>Solid steel cell doors etc. suitable for 230mm walls fixed to brickwork:</u>				
9 1018 x 2020mm High cell door as per type T2 in South African Police Service Project 5 Star drawings POL 2006/D1 attached to these bill of quantities	No	6		
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Bill No. 10				
Metalwork				



	Unit	Quantity	Rate	Amount
<p><u>NATURAL ANODISED ALUMINIUM OR SIMILAR APPROVE WINDOWS, DOORS, ETC : WG 140</u></p> <p><u>Aluminium windows glazed with 6,38mm low E laminated safety glass, including 20 x 3mm flat bar burglar proofing at 250mm centres fixed with blind rivets. Aluminium sections, constructed and installed according to the guidelines of The Association of Architectural Aluminium Manufactures of South Africa (AAASA). Glazing is to be carried out in strict accordance with the SABS 0137/2000 Code of Practice: 'The Installation of Glazing in Buildings' and where required, safety glazing materials must conform to SABS 1263. Drawings of all sections and fixing details to be used to be submitted for approval and all dimensions are to be verified on site prior to manufacture. All shopfronts and windows need to be weather proofed and sealed where necessary and all aluminium is to be protected during installation and for the duration of construction work by removable PVC tape.:</u></p> <p><u>Purpose made aluminium window, etc.:</u></p>				
10	No	3		
11	No	3		
12	No	1		
13	No	3		
14	No	1		
15	No	1		
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Metalwork				



	Unit	Quantity	Rate	Amount
<u>Purpose made aluminium door, etc.:</u>				
18	No	6		
19	No	27		
20	No	1		
<u>Level G2 - Handguns up to and including .357 Magnum as well as 12 gauge shotgun firing buckshot with Natural Anodised aluminium extrusion by specialist frame and glazed with 38mm Bullet Resident Glazing.</u>				
21	No	1		
<u>GALVANISED STEEL BALUSTRADES</u>				
<u>Welded balustrades to walkways</u>				
22	m	22		
23	No	10		
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Metalwork



	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>PHASE 2</u>				
<u>BILL NO. 11</u>				
<u>PLASTERING</u>				
<u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG142</u>				
<u>Trade Preambles:</u>				
For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary items or materials:</u>				
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Principal Agent.				
<u>SCREEDS</u>				
<u>Screeds on concrete:</u>				
1		25mm Thick 3:1 cement screeds steel trowelled on concrete floors.	m ²	543
2		25mm Thick self-levelling screed on concrete floors.	m ²	140
<u>GRANO</u>				
<u>Untinted grano on concrete:</u>				
3		30mm Untinted grano steel trowelled on concrete floors.	m ²	155
<u>EPOXY</u>				
<u>Heavy duty chemical resistant antimicrobial treated polyurethane resin floor to a smooth finish and seal all in strict accordance with the manufacturers instruction.</u>				
4		4mm Thick on floors and landings.	m ²	140
<u>INTERNAL PLASTER</u>				
<u>Cement plaster on brickwork:</u>				
5		On walls.	m ²	615
6		On narrow widths.	m ²	35
<u>Cement plaster on concrete:</u>				
7		On concrete ceilings.	m ²	194
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Section No. 3				
Bill No. 11				
Plastering				



	Unit	Quantity	Rate	Amount
<u>EXTERNAL PLASTER</u>				
<u>Cement plaster on brickwork:</u>				
8	m ²	64		
9	m ²	9		
<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>				
<u>Corner protectors, dividing strips, etc.:</u>				
10	m	140		
11	m	32		
			Carried to Collection	R
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Plastering				



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PLASTERING
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Section No. 3
Bill No. 11
Plastering



	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>PHASE 2</u>				
<u>BILL NO. 12</u>				
<u>TILING</u>				
<u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG144</u>				
<u>Trade Preambles:</u>				
For Trade Preambles refer to 'Model Preambles for Trades' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Descriptions:</u>				
Unless described as fixed with adhesive to plaster (plaster elsewhere), descriptions of tiling on brick or concrete walls, columns, etc., shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc. shall be deemed to include 1:3 plaster bedding.				
<u>PORCELAIN FLOOR COVERINGS, WALL LININGS, ETC.</u>				
<u>PORCELAIN FLOOR TILING</u>				
<u>600 x 600 x 12mm full bodied porcelain tiles laid on TAL Gold Star tile adhesive, grout to architect's choice. Allow the prime cost amount of R500-00 (Five Hundred Rand excluding VAT) net per square metre for tiles, supplied and delivered to site and add for taking delivery, storage and installation.</u>				
1	m ²	543		
2	m	574		
<u>300 x 300 x 8mm 'Salt and Pepper' full bodied porcelain tiles fixed with 'Tal Goldstar' rapid setting adhesive with straight joints in both directions to steel trowel plastered walls and flush pointed with 'Tal Grey Proflex' tile grout. Allow the prime cost amount of R500-00 (Five Hundred Rand excluding VAT) net per square metre for tiles, supplied and delivered to site and add for taking delivery, storage and installation.</u>				
3	m ²	57		
4	m	67		
			Carried to Collection	R
Section No. 3				
Bill No. 12				
Tiling				



	Unit	Quantity	Rate	Amount
<u>PORCELAIN WALL TILING</u>				
<u>300 x 300 x 8mm 'Salt and Pepper' full bodied porcelain wall tiles fixed with 'Tal Goldstar' rapid setting adhesive with straight joints in both directions to steel trowel plastered walls and flush pointed with 'Tal Grey Proflex' tile grout. Allow the prime cost amount of R500-00 (Five Hundred Rand excluding VAT) net per square metre for tiles, supplied and delivered to site and add for taking delivery, storage and installation.</u>				
5	m ²	31		
6	m ²	8		
<u>NOSINGS, JOINT COVERS, PROTECTORS, ETC.</u>				
<u>Mtrim' or equal approved cover strips:</u>				
7	m	110		
8	m	28		
<u>Brass or equally approved:</u>				
9	m	10		
<u>M Trim' PVC round edge trim:</u>				
10	m	21		
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TILING
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Bill No. 12
Tiling



	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u> <u>PHASE 2</u> <u>BILL NO. 13</u> <u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p><u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG148</u></p> <p><u>Trade Preambles</u> For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Polycop' polypropylene pipes:</u> Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with 'Fast-fuse' heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated. Pipes shall be firmly fixed to walls etc. with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions. All pipe diameters are nominal external.</p> <p><u>Polylink' polypropylene pipes:</u> Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron 'Supraclamp' running joints. Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured. Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double X joint couplers. Branch tees shall include flanged and bolted joints to 'Polycop' branch pipes in addition and for brass compression male iron to copper straight couplers. Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reduces shall be of sufficient overall length to accommodate same. All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions. All pipe diameters are nominal external.</p>				
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	Unit	Quantity	Rate	Amount
<p><u>Concrete pipes:</u> Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.</p> <p><u>Vitrified Clay Pipes etc.:</u> Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid.</p> <p>uPVC pipes and fittings.</p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings.</p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed.</p> <p><u>uPVC pressure pipes and fittings:</u> Pipes for water supply shall be of the class stated.</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.</p> <p>Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.</p> <p><u>Copper pipes:</u> Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be 'Cobra Watertech' type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.</p> <p><u>Fixing of pipes</u> Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level</p> <p><u>Lead pipes and traps:</u> All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel.</p>				
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	Unit	Quantity	Rate	Amount
<p><u>Reducing fittings:</u> Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc. will be entertained.</p> <p><u>Wire gratings:</u> Descriptions of gutter outlets etc. shall be deemed to include wire balloon gratings.</p> <p><u>Septic tanks:</u> Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc. all in accordance with the manufacturer's instructions.</p> <p><u>Exposed concrete surfaces:</u> Exposed surfaces of concrete storm water channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catch pits, inspection chambers, etc. shall be finished smooth with plaster.</p> <p><u>Excavations:</u> No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling. Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.</p> <p><u>Laying, backfilling, bedding, etc. of pipes:</u> Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions. Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Storm water drainage Pipe trenches etc. shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SAB.</p> <p><u>Flush pans:</u> Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 3 Bill No. 13 Plumbing And Drainage (provisional)</p>			R	



	Unit	Quantity	Rate	Amount
<p><u>Stainless steel basins, sinks, wash troughs, urinals, etc.:</u> Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.</p> <p><u>Waste unions:</u> Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.</p> <p><u>Steel sectional water tanks:</u> Tanks shall comply with SABS CKS 114.</p> <p><u>Densyl' petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd:</u> Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described. Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, 'Layflat' sheeting, securing of same, etc. Prices for wrapping of pipes shall include for all work as described to couplings in the length.</p> <p><u>RAINWATER DISPOSAL</u></p> <p><u>Watertite' pre painted external and internal with ColourTech G4 high performance non-fluorinated polymer modified long chain hydro-carbon paint aluminium:</u></p>				
1	m	297		
2	No	8		
3	No	12		
4	No	21		
5	No	42		
6	m	96		
7	No	42		
8	No	4		
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	Unit	Quantity	Rate	Amount
<u>SANITARY FITTINGS</u>				
<u>Supply and fix the following sanitary fittings, geysers and equipment together with loose ancillary fittings supplied therewith, including unloading, storing, unpacking, hoisting or lowering as required, fixing and building into position, cutting all mortices and chases as required for fixing and building in position, cutting, brackets, clamps, etc., and connecting up pipework and handing over in perfect working order at completion:</u>				
<u>Vaal' or equal approved:</u>				
9	No	10		
White porcelain "Concorde 630" lavatory basin (product code 702400) bolted to the wall with 2 x 10mm bolts (8448Z0)				
10	No	2		
Macnel (or equal approved) vitreous china pacific wall hung bowl back inlet urinal with top inlet fittings, and 38mm C.P domical grating and tail pipe (product code: SKUv203839vand SKU 201910).				
11	No	10		
Lecico Vitreous Chine elements floor mounted WC with ceramic cistern and Dutton mechanism and associated parts (product code: ELESTLLS0NOSBE), with Macnel Triumph Solid wood particle moisture proof white lacquered toilet seat.				
<u>Franke' - grade 304 (18/10) polished stainless steel or equal approved:</u>				
12	No	3		
Franke Nouveau NVN621' double bowl sink, size 1160 x 460mm (Product:811024), fixed to cupboard (cupboard elsewhere) with securing clips and sealed with silicone adhesive along edges.				
13	No	1		
Franke Nouveau NVN621' double bowl sink, size 1160 x 460mm (Product:1990002), fixed to cupboard (cupboard elsewhere) with securing clips and sealed with silicone adhesive along edges.				
14	No	6		
455mm Dia SS Prep Bowl constructed as per South African Police Service Project 5 Star specification attached to this BOQ.				
15	No	6		
Franke 0,9mm Grade 302 18/10 stainless steel WC Pan installed as per South African Police Service Project 5 Star Specification attached to this BOQ				
<u>TAPS, VALVES, ETC.</u>				
<u>Cobra-Watertech':</u>				
16	No	4		
15mm "Cobra 108" brass hose bib tap with hose union.				
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	Unit	Quantity	Rate	Amount
17	Chrome plated vandal resistant fixed showerhead (product code: KP2.6)	No	1	
18	15mm 'Star 106-CP' pillar taps.	No	12	
19	Kwikot PMX-74 Prisma Under basin mixer	No	9	
20	Ditto, but 20mm ballcock.	No	8	
21	Ditto, but 25mm ballcock.	No	17	
22	15mm Type 'P-832 CP' angle regulating valve.	No	8	
23	15mm Type '350F CP' flexible connection.	No	12	
24	15mm Type '057 CP' cast brass extension piece.	No	6	
25	40mm Float valve.	No	6	
<u>WASTE UNIONS, TRAPS, ETC.</u>				
<u>Marley':</u>				
26	32 x 40mm 'Flexi trap' butyl rubber deep seal 'P' or 'S' trap jointed to waste outlet fitting and to PVC pipe including coupling clamps, etc.	No	11	
27	100 x 100 Easy drain PVC channel and 316 stainless steel grating complete with stop ends.	No	1	
28	40 x 40mm 'Flexi trap' butyl rubber deep seal 'P' or 'S' trap jointed to waste outlet fitting and to PVC pipe including coupling clamps, etc.	No	4	
29	Ditto, but combination trap.	No	2	
<u>ELECTRIC WATER HEATER</u>				
30	10L Hydro Boiler wall mounted Epoxy white	No	5	
<u>Service of Electric Gyser including fixtures.</u>				
31	Replacement of thermostat and element for 200L Electric Geyser including the test.	No	4	
<u>SANITARY PLUMBING</u>				
<u>Unplasticised polyvinyl chloride (uPVC) pipes:</u>				
32	40mm Pipes fixed to walls, etc.	m	35	
33	50mm Pipes fixed to walls, etc.	m	65	
34	110mm Pipes fixed to walls, etc.	m	83	
<u>Extra over uPVC pipes for:</u>				
35	110mm Bend.	No	26	
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	Unit	Quantity	Rate	Amount
<u>Extra over class 2 copper pipes for copper to copper capillary fittings:</u>				
59	No	50		
60	No	15		
61	No	20		
62	No	15		
<u>Extra over class 2 copper pipes for brass compression fittings:</u>				
63	No	45		
64	No	20		
65	No	15		
66	No	10		
<u>Testing:</u>				
67	Item			
<u>FIRE APPLIANCES, ETC.</u>				
<u>Fire hose reels, etc.:</u>				
68	No	18		
69	No	18		
70	No	13		
71	m	130		
72	m	262		
73	No	3		
74	m	120		
75	m ³	32		
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<u>SECTION NO. 3</u>				
<u>PHASE 2</u>				
<u>BILL NO. 14</u>				
<u>ELECTRICAL WORK (PROVISIONAL)</u>				
<u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG160</u>				
<u>DISTRIBUTION BOARDS etc.</u>				
Rates for distribution boards etc. are to include for busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings				
<u>Switches, socket outlets, etc.</u>				
Rates for switches, sockets outlets, etc. are to include for screwing to outlet boxes, connecting up and cover plates				
<u>Light fittings</u>				
Rates for light fittings are to include for hanging, fixing and connecting and for lamp holders and fluorescent tubes and lamps of the type and wattage described				
<u>DISTRIBUTION BOARDS</u>				
<u>Electrical DB's</u>				
<u>Complete supply, deliver and installation according to single line specifications (see single line drawings) Including Surge Arrestors. Surge arrestors similar in quality as Denguard or as approved by engineer.(Drawing number: EE 10671-400-SL0-00)</u>				
1	MAIN DB (EE10671-100-MDB-A1-00)	No	1	
2	SDB - A1 (EE10671-100-SDB-A1-00)	No	1	
3	SDB - A2 (EE10671-100-SDB-A2-00)	No	1	
4	SDB - VF (EE10671-100-SDB-VF-00)	No	1	
5	SDB - SERVER (EE10671-100-SDB-SERVER-00)	No	1	
6	SDB - CELLS (EE10671-100-SDB-CELLS-00)	No	1	
7	SDB-C13 (EE10671-100-SDB-C13-00)	No	1	
8	SDB-D (EE10671-100-SDB-D-00)	No	1	
9	SDB-E1 (EE10671-100-SDB-E1-00)	No	1	
10	SDB-E2 (EE10671-100-SDB-E2-00)	No	1	
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	Unit	Quantity	Rate	Amount
11 DB - HOUSE1 (EE10671-100-SDB-HOUSE1-00)	No	1		
12 DB - HOUSE2 (EE10671-100-SDB-HOUSE2-00)	No	1		
13 DB - FLAT1 (EE10671-100-SDB-FLAT1-00)	No	1		
<u>DB's for other services</u>				
<u>Tele Data DB</u>				
14 Flush mounted 400 x 400 x 150 DB with soft backing and lockable door	No	5		
<u>CABLES</u>				
<u>Supply LV (1000V) cable laid in trenches not exceeding 1m deep, including excavations and backfilling</u>				
<u>All LV cables - PVC/PVC/SWA/PVC</u>				
15 70 mm ² x 4c with 50 mm ² BCE	m	60		
16 35 mm ² x 4c with 25 mm ² BCE	m	200		
17 25 mm ² x 4c with 16 mm ² BCE	m	370		
18 16 mm ² x 4c with 10 mm ² BCE	m	390		
19 10 mm ² x 4c with 10 mm ² BCE	m	200		
20 6 mm ² x 4c with 4 mm ² BCE	m	141		
21 25 mm ² x 3 Core	m	120		
22 16 mm ² x 3 Core	m	112		
23 10 mm ² x 3 Core	m	120		
<u>Cable Terminations and prescribed running joints</u>				
24 70 mm ² x 4c with 50 mm ² BCE	No	2		
25 35 mm ² x 4c with 25 mm ² BCE	No	2		
26 25 mm ² x 4c with 16 mm ² BCE	No	6		
27 16 mm ² x 4c with 10 mm ² BCE	No	10		
28 10 mm ² x 4c with 10 mm ² BCE	No	4		
29 6 mm ² x 4c with 4 mm ² BCE	No	10		
30 25 mm ² x 3 Core	No	2		
31 16 mm ² x 3 Core	No	4		
32 10 mm ² x 3 Core	No	2		
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	Unit	Quantity	Rate	Amount
<u>CONDUCTORS</u>				
<u>Wiring - PVC insulated copper wire of the following sizes:</u>				
33	m	7 730		
34	m	150		
<u>BCE - Bare Copper Earth Wire</u>				
35	m	3 865		
36	m	75		
<u>Decommission of Existing Generator</u>				
37	Item			
<u>DRAW WIRES</u>				
38	m	802		
<u>CONDUIT</u>				
<u>SABS Approved PVC, Galvanized or Bosal conduit, complete with all couplings, saddles etc.</u>				
<u>(On surface, chased, build- and cast-in)</u>				
39	m	661		
40	m	136		
41	m	149		
<u>OUTLET BOXES, COVER PLATES,ETC</u>				
<u>Boxes:</u>				
42	No	129		
43	No	132		
<u>Covers:</u>				
44	No	357		
<u>CABLE TRUNKING, ETC</u>				
<u>Trunking (Galvanized Steel)</u>				
45	m	590		
46	m	50		
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		Unit	Quantity	Rate	Amount
47	P8000 Galvanized trunking complete with all accessories and installation fittings	m	260		
48	P9000 Galvanized trunking complete with all accessories and installation fittings	m	260		
49	152mm Galvanised heavy duty cable tray including cover complete with accessories and installation fittings.	m	63		
<u>SOCKET OUTLETS AND LIGHT SWITCHES</u>					
<u>Light switches:</u>					
50	16 A 1 Lever 1 way switch complete with cover plate. Similar in quality or as approved by engineer.	No	117		
<u>Socket outlets:</u>					
51	16 A Single SSO fitted with cover plate	No	13		
52	16 A Combo SSO (Single and Euro Port) fitted with cover plate	No	106		
53	16 A Combo SSO (Single and USB Port) fitted with cover plate	No	1		
54	16 A SSO fitted with cover plate mounted on power skirting	No	66		
55	16 A Euro SSO fitted with cover plate mounted on power skirting	No	66		
56	16 A dedicated SSO fitted with red cover plate mounted on power skirting	No	131		
57	5 A SSO light fitting round outlet fitted in ceiling space	No	228		
<u>Provision for other services</u>					
58	RJ11 Telephone Data outlet complete on power skirting	No	64		
59	RJ45 Data Internet outlet complete on power skirting	No	64		
60	5V/3A USB outlet complete on power skirting	No	82		
<u>Isolators</u>					
61	20 A Isolator switch complete in weatherproof box	No	12		
62	30 A Isolator switch complete in weatherproof box	No	10		
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	Unit	Quantity	Rate	Amount
<u>LUMINAIRES</u>				
<u>Luminaires - Attached Light Schedule</u>				
<u>Supply and install aluminium fittings</u>				
63	48W LED panel 1200mm x 130mm Surface Mounted 4000K Similar in quality as Genlux Alena LED Linear or as approved by engineer.	No	22	
64	48W LED panel 1200 x 600mm Recessed fitting 4000K Similar in quality as BEKA BULKHEAD SERIES 42 or as approved by engineer.	No	158	
65	58W LED panel 1500mm flameproof 4000K Similar in quality as BEKA LED VAPOURLINE or as approved by engineer.	No	6	
66	20W LED Aluminium bulkhead 4000K Similar in quality as BEKA BULKHEAD SERIES 30 or as approved by engineer.	No	52	
67	20W LED Tamperproof bulkhead 4000K Similar in quality as BEKA BULKHEAD SERIES 30 or as approved by engineer.	No	12	
68	20W LED Aluminium rectangular 4000K Similar in quality as BEKA BULKHEAD SERIES 40 or as approved by engineer.	No	6	
69	100W LED floodlight wall mount Similar in quality as BEKA LEDFLOOD or as approved by engineer.	No	24	
70	20W LED flush Downlight 4000K Similar in quality as LEDWISE CL22-Dish170 or as approved by engineer.	No	36	
71	BLUE POLICE LIGHT LED 35 W with pole Similar in quality as BEKA ZELA or as approved by engineer.	No	1	
<u>Photocell</u>				
72	16A Photovoltaic (Day/Night) switch for exterior lighting	No	7	
<u>EARTHING AND LIGHTNING PROTECTION</u>				
<u>Earthing</u>				
73	Earth resistivity test to SABS Standards 10142	No	13	
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	Unit	Quantity	Rate	Amount
74	No	13		
75	No	13		
<u>Lightning protection</u>				
<u>Supply and Install and Earthing and External Lightning Protection System with all required accessories, including a link to the electrical earth and links between the buildings to achieve equipotential bonding. Protection level 3, Down Conductor System. Complete lightning protection of all buildings in accordance with SABS IEC 61024-1-2:1998 specifications.</u>				
<u>Air termination system to be installed on tiled roof and on all parapits / exposed elements.</u>				
<u>Downconductor system to be installed within wall cavities or surface mounted and bonded to earth termination system.</u>				
<u>Roof Type: Metal sheeting</u>				
<u>AreaSize: 2100m2</u>				
76	m	55		
77	m	435		
78	m	194		
<u>CABLE TRENCHES</u>				
<u>Excavation of cable trench including backfill and compacting (see details)</u>				
<u>(all excavations should be to a minimum depth of 600mm)</u>				
79	m ³	350		
80	m ³	20		
81	m ³	20		
<u>SLEEVES, HOLES, ETC.</u>				
<u>uPVC Sleeves:</u>				
82	m	116		
83	No	15		
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	Unit	Quantity	Rate	Amount
84	Pipes exceeding 100mm and not exceeding 200mm external diameter laid in trenches (trenches elsewhere)	m	68	
85	110mm Diameter slow bend laid in trenches (trenches elsewhere)	No	12	
86	280 x 280 x 180mm Electrical weatherproof PVC box.	No	20	
	<u>Miscellaneous</u>			
87	Cable marker tape 320 mm wide	m	30	
88	Cordoning off trenches	m	30	
	<u>MISCELLANEOUS</u>			
	<u>Complete supply, deliver and installation according to specifications and drawings, and all equipment necessary to operate in good working order made in accordance with SABS.</u>			
	<u>Electrical Manhole</u>			
89	Manhole	No	10	
	<u>Stanby Diesel Generator</u>			
	<u>Complete supply, deliver, installation nd comissioning according to specifications.</u>			
90	60 kVA Three Phase Diesel Generator	No	1	
	<u>UPS System</u>			
91	5 kVA UPS including battery backup pack for server room	No	1	
	<u>Access Control</u>			
92	18 Zone Walk Through Metal Detector	No	1	
93	Biometric access control	No	1	
94	Magnetic lock	No	2	
95	Door Closer	No	1	
96	Gate Closer	No	1	
97	Door Monitor	No	1	
98	2 way wireless waterproof intercom system for the gate	No	1	
99	Including Gate opening or lock function	No	1	
100	18 Inch screen Gate monitor	No	1	
101	Sliding vehicle Gate monitor operator kit - Steel rack - 500kg including sensors	No	1	
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<u>PHASE 2</u>				
<u>BILL NO. 15</u>				
<u>MECHANICAL WORK (PROVISIONAL)</u>				
<u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG170</u>				
<u>DuctWork</u>				
Descriptions of ducts shall be deemed to include stiffeners, jointing materials, sealants, couplers in the running length and access/inspection panels in accordance with the specification				
<u>Dumpers</u>				
Descriptions of smoke and fire dampers shall be deemed to include fusible links, sleeves, frames, supports and access openings in ducts				
<u>DUCTWORK, ETC</u>				
<u>0.3 galvanised sheet metal, low pressure ducting Suspended not exceeding 1m below steel roof trusses including supports</u>				
1	m ²	6		
<u>0.3 galvanised sheet metal, low pressure ducting Suspended not exceeding 1m below steel roof trusses including supports</u>				
2	m	10		
3	m	6		
4	m	10		
<u>Extra over galvanised sheet metal low pressure ducting for</u>				
<u>350mm Diameter ducting</u>				
5	No	1		
<u>350mm Diameter ducting</u>				
6	No	1		
<u>450mm Diameter ducting</u>				
7	No	1		
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	Unit	Quantity	Rate	Amount
17 WALL MOUNT SPLIT UNIT 12000BTU / 4kW	No	7		
18 COMPLETE CEILING MOUNT 4 WAY CASSETTE UNIT 30000BUT/9kW	No	1		
<u>AIRCON ACCESSORIES</u>				
19 Wired remote controller	No	9		
20 Drain Pump	No	7		
<u>Additional Gas</u>				
21 R 410 gas	Kg	2		
<u>Existing Redundant Components</u>				
22 Removal of existing redundant mechanical material	Item			
<u>Water Pumps</u>				
23 Install complete 0,4 kW Single Phase Domestic pump system as per attached specification. Unit to be mounted onto plinth and secured by galvanised cage.	No	3		
<u>FIRE DETECTION SYSTEM</u>				
<u>Supply, install, test, commission and provide 12 month guarantee for Fire detection in accordance with SANS Regulations. Unit shall be supplied with all equipment necessary to operate in good working order made in accordance with SABS. As per drawing specification.</u>				
24 Smoke Detector	No	67		
25 Manual Break glass unit	No	19		
26 Siren ceiling mounted	No	8		
27 Fire Alarm panel	No	3		
<u>SERVER ROOM FIRE SUPPRESSION SYSTEM</u>				
28 Supply, install, test, commission and provide 12 month guarantee for Fire suppression system in accordance with SANS Regulations. Unit shall be a fixed pipe system which is a clean agent (FM 200) and shall be complete with analogue addressable gas control units and alarms in the gas areas. Unit shall be supplied with all equipment necessary to operate in good working order made in accordance with SABS. Server room floor area = 21m ² ; Height = 2.8m.	No	1		
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<u>SECTION NO. 3</u>				
<u>PHASE 2</u>				
<u>BILL NO. 16</u>				
<u>GLAZING</u>				
<u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG150</u>				
<u>Trade Preambles</u>				
For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary items or materials:</u>				
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Principal Agent.				
Glazing code of practise conforms to SANS 10137.				
Security and Safety glazing material conforms to SANS 1263 Part 2 & 3.				
Powder coating 60 microns in accordance with SANS 1578 and 1796.				
<u>GLAZING TO WOOD WITH PINNED ON BEADS.</u>				
<u>53mm Bullet Resistant Glass (BRG) - AK47 in full vision clear safety glass:</u>				
1	m ²	2		
2	m ²	2		
3	m ²	3		
<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>				
<u>6mm 'GG' quality polished silvered float glass copper backed mirrors with polished edges holed for and fixed with round rose chromium plated mirror screws with rubber buffers to plugs in brickwork or concrete:</u>				
4	No	16		
Carried To Section Summary				
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Bill No. 16				
Glazing				
			R	



Unit Quantity Rate Amount

SECTION NO. 3

PHASE 2

BILL NO. 17

PAINTWORK

WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG152

Trade Preambles:

For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill

SUPPLEMENTARY PREAMBLES

User Note The following four items, given as examples, have been set up to comply with the Munsell system (the 'extra over' option) as prescribed in the Standard System of Measuring Building Work and should be inserted at the end of each type of paint where applicable:

Extra over paintwork to all areas, for paintwork in colours which have a value of 7 or less based on the Munsell system m² Extra over paintwork to gates, grilles, burglar screens, balustrades, etc., for paintwork in colours which have a value of 7 or less based on the Munsell system (both sides measured over the full flat area) m² Extra over paintwork to rails, bars, pipes, etc. not exceeding 300mm girth, for paintwork in colours which have a value of 7 or less based on the Munsell system m Extra over paintwork to skirting's, rails, etc. not exceeding 300mm girth for paintwork in colours which have a value of 7 or less based on the Munsell system m

Carried to Collection

R

Section No. 3
Bill No. 17
Paintwork



	Unit	Quantity	Rate	Amount
<p>Extra over paintwork to all areas, for paintwork in colours which have a value of 7 or less based on the Munsell system m² Extra over paintwork to gates, grilles, burglar screens, balustrades, etc., for paintwork in colours which have a value of 7 or less based on the Munsell system (both sides measured over the full flat area) m² Extra over paintwork to rails, bars, pipes, etc. not exceeding 300mm girth, for paintwork in colours which have a value of 7 or less based on the Munsell system m Extra over paintwork to skirting's, rails, etc. not exceeding 300mm girth for paintwork in colours which have a value of 7 or less based on the Munsell system m Note It has however become evident that application problems exist with the said Munsell system and until such time as the Standard System of Measuring Building Work is adjusted to overcome these problems users should determine from the relevant m manufacturer which of their colour groupings differ appreciably in price and adjust descriptions accordingly.</p>				
<p><u>PREPARATORY WORK TO EXISTING WORK</u></p>				
<p><u>Previously painted plastered surfaces</u></p>				
<p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p>				
<p><u>Previously painted metal surfaces</u></p>				
<p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p>				
<p><u>Previously painted wood surfaces</u></p>				
<p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p>				
<p>Carried to Collection</p>				
<p>Section No. 3 Bill No. 17 Paintwork</p>				

R



	Unit	Quantity	Rate	Amount
<p>Project 5 Star: <u>Cleaning of unsound surfaces - plaster cracks and holes, peeling paint, lichen and algae, dirt and debris, greasy, chalky, and powdery surfaces. Dirty, grasy surfaces, as well as paint coatings that have chalked, should be washed with a solution of SUGAR SOAP, or a water - soluble degreaser.</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary items or materials:</u> Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Principal Agent.</p> <p><u>SABS Specifications:</u> Matt or eggshell decorative paint for interior works : SABS 515 High gloss enamel paint : SABS 630 Grade I Oil gloss enamel paint : SABS 631 Primers for wood for external work : SABS 678 Type I Primers for wood for internal work : SABS 678 Type III Zink chromate primers for steel : SABS 679 Type I Undercoats for paints (except emulsion paint) : SABS 681 Type I Aluminium paint : SABS 682 Grade II Roof paints : SABS 683 Type B (Oil) SABS 940 (Emulsion) Structural steel paint : SABS 684 Type B Wash primer (metal etch) : SABS 723 Varnish for interior use : SABS 887 Type I Emulsion paints : SABS 1586</p> <p><u>Colours, etc.:</u> Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091</p> <p><u>PAINTWORK ETC TO NEW WORK</u></p> <p><u>ON INTERNAL FLOATED PLASTER SURFACES</u></p> <p><u>One coat alkali resistant primer and two coats premium quality, fully washable and stain resistant water base paint on:</u></p>				
1	Walls.	m ²	1 384	
			Carried to Collection	R
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Paintwork				



	Unit	Quantity	Rate	Amount
<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>				
<u>One coat alkali resistant primer and two coats premium quality non drip acrylic emulsion paint on:</u>				
2	Walls.	m ²	462	
<u>ON FIBRE-CEMENT BOARD SURFACES</u>				
<u>One coat alkali resistant primer and two coats premium quality, fully washable and stain resistant acrylic emulsion paint on:</u>				
3	On exterior fascia's and barge boards.	m ²	186	
<u>One coat universal undercoat and two coats Plascon Velvagio polyurethane enamel paint:</u>				
4	On interior sills.	m ²	174	
<u>ON METAL SURFACES</u>				
<u>One coat universal undercoat and two coats low gloss water based enamel paint on galvanised steel:</u>				
5	Cell Door gates (both sides measured).	m ²	46	
6	Cell Door Frames.	m ²	14	
7	Windows (both sides measured).	m ²	19	
<u>ON WOOD SURFACES</u>				
<u>Stop, sand down, prepare and apply three coats 'Timbercare Rystix' or equal approved stained sealer on:</u>				
8	Members of roof trusses, etc.	m ²	83	
9	Purlins, rails, etc., not exceeding 300 mm girth.	m	101	
<u>One coat primer for wood and two coats Plascon Velvagio polyurethane I enamel paint on:</u>				
10	Interior doors.	m ²	43	
11	Exterior doors.	m ²	21	
12	Exterior doors frames.	m ²	12	
13	Interior doors frames.	m ²	34	
<u>One coat primer for wood and two coats Plascon Velvagio polyurethane I enamel paint on:</u>				
14	19mm hardwood quadrant trim, not exceeding 300mm girth.	m	590	
Carried to Collection				
Section No. 3				
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Paintwork				
			R	



	Unit	Quantity	Rate	Amount
<u>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK</u>				
<u>ON INTERNAL FLOATED PLASTER SURFACES</u>				
<u>One coat alkali resistant primer and two coats premium quality, fully washable and stain resistant water base paint on:</u>				
15	Walls	m ²	1 546	
<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>				
<u>One coat alkali resistant primer and two coats premium quality non drip acrylic emulsion paint on:</u>				
16	Walls	m ²	355	
<u>ON METAL SURFACES</u>				
<u>One coat universal undercoat and two coats low gloss water based enamel paint on galvanised steel:</u>				
17	Steel gates (both sides measured).	m ²	198	
18	Internal & External Fixed Screen (both sides measured).	m ²	26	
19	Rails, bars, pipes, etc. not exceeding 300mm girth	m	195	
<u>ON WOOD SURFACES</u>				
<u>Stop, sand down, prepare and apply three coats 'Timbercare Rystix' or equal approved stained sealer on:</u>				
20	Members of roof trusses, etc.	m ²	5	
21	Purlins, rails, etc., not exceeding 300 mm girth	m	6	
Carried to Collection				
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PAINTWORK
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SECTION NO. 4
EXTERNAL WORKS (PROVISIONAL)



Unit Quantity Rate Amount

SECTION NO. 4

EXTERNAL WORKS (PROVISIONAL)

BILL NO. 1

DEMOLITIONS, SITE CLEARANCE AND BULK EARTHWORKS

WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG104

Trade Preambles:

For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill

SUPPLEMENTARY PREAMBLES

Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item

Nature of ground:

A soils investigation has been carried out on the site by the engineer and the report is annexed to these Bills of Quantities.

Demolition:

Descriptions of demolitions give a rough guide only as to the scope of the work. Tenderers are therefore advised to visit the site before submitting a tender and to acquaint themselves with the nature and extent of the work to be done and the value of recoverable materials which are not to be re-used or handed over to the Employer. Unless otherwise stated, loose furniture, kitchen and other equipment, apparatus, machinery, etc. shall remain the property of the Employer and the removal thereof does not fall within the scope of this Contract. The Contractor shall completely demolish the buildings etc. in a careful, skilful, practical and safe manner down to 150mm below ground level. Demolitions shall include breaking up and removing: all floors and surface beds; all external screen walls, steps, ramps, aprons, surface water channels, rainwater sumps, gulley's, etc. attached to the building to be demolished; all services, manholes, etc. in ground to a point not less than 1m beyond the perimeter of the building including plugging off ends of all remaining pipes, drains, etc., filling in holes where necessary and ramming and levelling to ground level

Carried to Collection

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Bill No. 1

Demolitions, Site Clearance And Bulk Earthworks



	Unit	Quantity	Rate	Amount
<u>DEMOLITIONS</u>				
<u>Demolish and remove:</u>				
1	m	301		
2	No	8		
3	m ²	123		
4	m ²	427		
5	m ²	222		
<u>Relocation of Buildings and Utilities</u>				
6	No	1		
<u>Break up and remove:</u>				
7	m ²	76		
8	m ²	172		
<u>Take down and remove:</u>				
9	No	6		
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Unit Quantity Rate Amount

Making good of finishes, etc.

APPLICATION PROCEDURE FOR PRODUCT AS A RIGID WATERPROOFING BARRIER

REQUIREMENTS:

Proposed waterproofing system for internal of underground brick septic tank, where there is negative pressure at Joubertina Police Station.

SURFACE PREPARATION:

The surface to be treated must be clean and have an open capillary system to ensure maximum bonding.

2. Water Requirements:

A two-part product consisting of 25kg powder and 2 litres of binder to be used. Potable water requirements depending upon the method of application are as follows:

Trowel Application:

25kg Powder plus 2 litres binder and add 1 to 1,5 litres of potable water. 1 Kit will yield 4,5m² in a single coat at 3mm thick.

3. Mixing:

Use a mortar mixer (with moving blades) or heavy duty drill and paddle mixer. Pre-wet all tools and mixer before mixing and pour out excess water. Add the recommended quantity of potable water and/or liquid to the mixer as detailed in section 3 above.

The dry powder must be added slowly while mixing. Never add more water to bring back the consistency after the material has begun to stiffen.

4. Priming:

The surface must be damp, but not pooled.

5. Application:

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Unit Quantity Rate Amount

Product can be either brush or trowel applied. The total application thickness should be a minimum of 3mm with no pinholes or voids. The first coat must be textured whilst still plastic to form a key and must also be damp on the surface prior to application of the second coat. The first coat must not be damaged during the application of the second coat, i.e. must have completely hardened (approximately 4 to 8 hours).

Trowel Application (for maximum protection and smooth finish):

First a scraper coat is applied for maximum adhesion to the substrate, working from the bottom up. Ensure that all cavities in the substrate are filled in order to exclude any trapped air. The minimum thickness of 3mm should then be applied in one application. Note: In applications where protecting against water pressure (including ground water) it is recommended that the finished thickness of product is a minimum of 3mm. A product thickness of 3mm gives a yield per kit of approximately 4,5m².

6. Curing:

Freshly completed work should be protected from rain during the first 24 hours. Moisture curing and curing compounds must not be used, because the product is self-curing.

7. Coatings:

Prior to the application of a coating directly onto the product, the product must be left to cure for at least 8 hours. The surface should then be primed with product primer prior to the application of the Waterproofing coating.

- 10 Seal off incoming line to septic tank and plug incoming line at nearest manhole, approximately 10m away, suck and dislodge existing sewerage and remove all sediments from existing septic tank size 7000 x 4000 x 3000mm high.
- 11 Seal off incoming line to septic tank and plug incoming line at nearest manhole, approximately 10m away, suck and dislodge existing sewerage and remove all sediments from existing septic tank size 3050 x 2090 x 2685mm high.

No 1

No 2

Carried to Collection

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 Demolitions, Site Clearance And Bulk Earthworks



	Unit	Quantity	Rate	Amount
12 Clean and prepare all concrete surfaces, allow for engineer to inspect, fill and seal cracks with penetron inject and finish off with Peneseal FH Sealer.	m ²	210		
13 Clean and prepare all brickwork surfaces, allow for engineer to inspect, fill and seal cracks with Pro-struct 618LV from Stoncor, then apply two coats of Stonkote 681 water-based epoxy coating	m ²	210		
<u>SITE CLEARANCE, ETC</u>				
<u>Site clearance:</u>				
14 Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m ²	1 195		
15 Stripping average 150mm thick layer of top soil and stockpiling on site.	m ²	1 195		
<u>REMOVAL OF TREES, ETC</u>				
<u>Cutting down and removing, grubbing up roots and filling in holes:</u>				
16 Tree exceeding 1000mm and not exceeding 1500mm girth.	No	2		
17 Tree exceeding 2500mm and not exceeding 3000mm girth.	No	1		
18 Tree exceeding 3500mm and not exceeding 4000mm girth.	No	2		
<u>BULK EXCAVATION</u>				
<u>Open face excavation in earth over sloping site:</u>				
19 Open face excavation.	m ³	133		
<u>Extra over bulk excavation in earth for excavation in:</u>				
20 Soft rock.	m ³	13		
21 Hard rock.	m ³	7		
<u>Risk of collapse of bulk excavations:</u>				
22 Sides of bulk excavations not exceeding 1,5m deep.	m ²	58		
23 Sides of bulk excavations exceeding 1,5m deep.	m ²	22		
<u>EXCAVATION OTHER THAN BULK</u>				
<u>Excavation in earth not exceeding 2m deep:</u>				
24 V-shaped earth drains.	m ³	145		
Carried to Collection				
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	Unit	Quantity	Rate	Amount
<u>Extra over excavations other than bulk in earth for excavation in:</u>				
25	m ³	15		
26	m ³	7		
<u>CARTING AWAY</u>				
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
27	m ³	181		
<u>EARTH FILLING, ETC</u>				
<u>Selected filling with material from the excavations compacted to a density of at least 93% Mod. AASHTO maximum density:</u>				
28	m ³	42		
29	m ³	36		
30	m ³	19		
<u>Surface Preparation:</u>				
31	m ²	697		
<u>KEEPING EXCAVATIONS FREE OF WATER</u>				
<u>Keeping excavations free of water:</u>				
32	Item			
<u>TESTS</u>				
<u>Prescribed density tests on filling:</u>				
33	No	20		
<u>GRASSING</u>				
<u>Maintenance Period:</u>				
34	Item			
Carried to Collection			R	
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	Unit	Quantity	Rate	Amount
<u>Grassing of roots in rows at 500mm centres both ways:</u>				
35				
	m ²	450		
<u>Ground preparation:</u>				
36				
	m ²	450		
<u>Topsoil, compost, lime and fertilizer:</u>				
37				
	m ³	135		
38				
	m ³	270		
39				
	m ²	450		
Carried to Collection				
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Amount

BILL NO. 1

DEMOLITIONS, SITE CLEARANCE AND BULK EARTHWORKS

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Demolitions, Site Clearance And Bulk Earthworks



	Unit	Quantity	Rate	Amount
8	m ³	225		
<u>Filling with approved G5 material in accordance with SABS 1200 DM supplied and carted on to site by the Contractor, compacted to 95% Mod AASHTO density:</u>				
9	m ³	279		
10	m ³	28		
<u>Filling with approved G7 material in accordance with SABS 1200 DM supplied and carted on to site by the Contractor, compacted to 95% Mod AASHTO density:</u>				
11	m ³	79		
<u>Coarse river sand filling compacted to 95% Mod. AASHTO maximum density:</u>				
12	m ³	129		
<u>KEEPING EXCAVATIONS FREE OF WATER (WG:104)</u>				
<u>Keeping excavations free of water:</u>				
13	Item			
Keeping excavations free of all water other than subterranean water.				
<u>TESTS</u>				
<u>Prescribed density tests on filling:</u>				
14	No	45		
<u>SOIL POISONING(WG:104)</u>				
<u>Chlordane Heptachloraldrin or other approved brand of soil poison to comply with SABS 0124 applied by a Registered Pest Control company and guaranteed for ten years:</u>				
15	m ²	2 373		
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES (WG:110)</u>				
<u>25MPa/19mm Concrete:</u>				
16	m ³	20		
17	m ³	54		
			Carried to Collection	R
Section No. 4				
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Parking, Walkways And Court Yard				



	Unit	Quantity	Rate	Amount
<u>REINFORCED CONCRETE (WG: 110)</u>				
<u>30MPa/19mm Concrete:</u>				
18	m ³	71		
19	m ³	43		
20	m ³	36		
21	m ³	5		
<u>TEST BLOCKS</u>				
<u>Tests blocks:</u>				
22	Sets	33		
<u>FINISHING TOP SURFACE OF CONCRETE (WG:104)</u>				
<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
23	m ²	394		
24	m ²	80		
<u>FORMWORK (WG:111)</u>				
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
<u>Rough Formwork to sides:</u>				
25	m	156		
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>				
<u>Smooth Formwork to sides:</u>				
26	m	750		
<u>MOVEMENT JOINTS, ETC</u>				
<u>Saw-cut joints:</u>				
27	m	112		
<u>Expansion joints with 8mm jointex or softboard, 15mm diameter backing strip and sealant gunned into place, between vertical concrete and brick surfaces:</u>				
28	m	350		
Carried to Collection				
Section No. 4				
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			R	



	Unit	Quantity	Rate	Amount
<u>REINFORCEMENT (WG:114)</u>				
<u>Fabric reinforcement:</u>				
29	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m ²	474	
<u>PRECAST CONCRETE (WG: 112)</u>				
<u>Kerbs:</u>				
30	Precast concrete kerb (SABS Figure 4) bedded, jointed and laid complete including Class B concrete haunching.	m	638	
31	Precast concrete kerb (SABS Figure 4) circular on plan not exceeding 4m radius formed with 330mm lengths of straight kerb bedded, jointed and laid complete including Class B concrete haunching.	m	205	
32	Precast concrete transition kerb (SABS Figure 4) bedded, jointed and laid complete including Class B concrete haunching.	m	47	
33	Precast concrete tinlet kerb (SABS Figure 4) bedded, jointed and laid complete including Class B concrete haunching.	m	38	
<u>BOND AND INTERLOCKING CONCRETE BLOCK PAVERS</u>				
<u>Paving of 60mm thick natural grey interlocking concrete paving units Class 35 (Type S-A) including dry filler river sand swept and vibrated into joints, including treatment with weed killer, all laid on subgrade (elsewhere measured) conforming to SABS 1200D degree of accuracy:</u>				
34	Paving in herringbone bond to, side walks, pathways, roads and parking to falls	m ²	2 350	
<u>Galvanised Mild Steel balustrading:</u>				
35	1050mm high balustrades consisting of 40 x 40mm Hot dipped galvanized holosec frame, with 40cvx 10mm flat bar stiffeners, etc all according to balustrade detail drawing no. 1807-S-GEN-T-005 attached to these bill of quantities.	m	35	
<u>DAMP-PROOFING OF WALLS AND FLOORS</u>				
<u>One layer of 250 micron Consol Plastics Gunplas Black waterproof sheeting sealed at laps with Gunplas Pressure Sensitive Tape:</u>				
36	Under surface beds.	m ²	474	
			R	
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Carried to Collection



	Unit	Quantity	Rate	Amount
<u>SEALING STRIPS, JOINT SEALANTS, ETC</u>				
<u>Sikaflex Pro 2 HP' or equal approved polysulphide sealing compound including backing cord, bond breaker, primer, etc.:</u>				
37	m	350		
<u>ROOF COVERING</u>				
<u>0,58mm Brownbuilt Z275 Prepainted factory coated finished galvanised Clielok concealed sheeting in continuous lengths roof sheeting fixed to timber purlins in strict accordance with manufacturers specifications:</u>				
38	m ²	204		
<u>GALVANISED STRUCTURAL STEEL</u>				
<u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete:</u>				
39	Tonnes	0.46		
40	Tonnes	0.18		
<u>Welded beams in single lengths with flat base, cap, bearer and connection plates, bolted to steel columns:</u>				
41	Tonnes	1.00		
<u>Purlins and bracers bolted to steel:</u>				
42	Tonnes	1.17		
43	Tonnes	0.25		
44	Tonnes	1.00		
<u>PAINTWORK</u>				
<u>ON SMOOTH CONCRETE</u>				
<u>Prepare surfaces and remove all loose material, uncured cement and builder's plaster with hydrochloric acid, fill holes and cracks with 'Polycell Mendall 90' flexible crackfiller, and apply two coats premium quality driveway and floor enamel' paint:</u>				
45	m	150		
Carried to Collection			R	
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		Unit	Quantity	Rate	Amount
46	"STOP" sign.	No	2		
47	"PARAPLEGIC PICTOGRAM" sign.	No	3		
Carried to Collection					
Section No. 4					R
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PARKING, WALKWAYS AND COURT YARD

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Parking, Walkways And Court Yard



	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 4</u> <u>EXTERNAL WORKS (PROVISIONAL)</u> <u>BILL NO. 3</u> <u>SEWER RETICULATION</u></p> <p><u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG146</u></p> <p><u>Trade Preambles:</u> For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u> Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item</p> <p><u>uPVC pipes and fittings.</u> Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings. Soil, waste and vent pipes and fittings shall be solvent weld jointed.</p> <p><u>Vitrified clay pipes etc.:</u> Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid.</p> <p><u>Excavations:</u> No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling. Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.</p> <p><u>Laying, backfilling, bedding, etc. of pipes</u> Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.</p>				
Carried to Collection			R	
Section No. 4 Bill No. 3 Sewer Reticulation				



	Unit	Quantity	Rate	Amount
<p><u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u></p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Storm water drainage Pipe trenches etc. shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB: Earthworks (Pipe trenches) Clause 5.7.2 will only be applicable if authorised by the Engineer in writing.</p> <p>Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB: Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding.</p> <p><u>Descriptions of pipes laid in trenches:</u></p> <p>Descriptions of pipes laid in trenches shall be deemed to include for carting away all surplus excavated material to a dumping site located by the contractor.</p> <p><u>Descriptions of catch pits, junction boxes, manholes, etc.:</u></p> <p>Descriptions of catch pits, junction boxes, manholes, etc., shall be deemed to include for compaction, disposal of surplus excavated material to a dumping site located by the contractor, risk of collapse and keeping excavations free from water.</p> <p><u>SOIL DRAINAGE</u></p> <p><u>uPVC Class 34 pipes:</u></p>				
1	m	5		
2	m	6		
3	m	195		
4	m	18		
<p><u>Extra over uPVC Class 34 pipes for fittings:</u></p>				
5	No	5		
6	No	2		
7	No	3		
8	No	4		
Carried to Collection				
Section No. 4				
Bill No. 3				
Sewer Reticulation				
			R	



	Unit	Quantity	Rate	Amount
9	No	1		
10	No	3		
11	No	2		
12	No	3		
13	No	1		
<u>Manholes:</u>				
14	No	6		
15	No	7		
16	No	1		
<u>SUNDRIES</u>				
<u>Sundries:</u>				
17	m ³	19		
18	m ³	19		
19	m ³	37		
20	No	6		
21	No	7		
Carried to Collection				
Section No. 4				
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Sewer Reticulation				



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BILL NO. 3
SEWER RETICULATION
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Section No. 4
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Sewer Reticulation



	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 4</u> <u>EXTERNAL WORKS (PROVISIONAL)</u> <u>BILL NO. 4</u> <u>WATER RETICULATION</u></p> <p><u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG148</u></p> <p><u>Trade Preambles:</u> For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u> Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item</p> <p><u>uPVC pressure pipes and fittings:</u> Pipes for water supply shall be of the class stated. Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings. Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints. Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be 'Cobra Watertech' type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.</p> <p><u>Descriptions of catch pits, junction boxes, manholes, etc.:</u> Descriptions of catch pits, junction boxes, manholes, etc., shall be deemed to include for compaction, disposal of surplus excavated material to a dumping site located by the contractor, risk of collapse and keeping excavations free from water.</p>				
Carried to Collection				R
Section No. 4 Bill No. 4 Water Reticulation				



	Unit	Quantity	Rate	Amount
<p><u>Thrust Blocks:</u></p> <p>Thrust blocks for pressure pipes to be formed of Class B concrete shaped for fittings with notching's of suitable size to take fittings and with sinking's and flanges of short collar detachable joints of suitable size to allow for removing of coupling when necessary including necessary formwork, excavation, etc.</p> <p><u>Laying, backfilling, bedding, etc. of pipes</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.</p> <p>Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB: Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding.</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Storm water drainage Pipe trenches etc. shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SAB.</p> <p><u>Descriptions of pipes laid in trenches:</u></p> <p>Descriptions of pipes laid in trenches shall be deemed to include for carting away all surplus excavated material to a dumping site located by the contractor.</p> <p>Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.</p> <p>No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.</p> <p><u>Reducing fittings:</u></p> <p>Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc. will be entertained.</p> <p><u>WATER SUPPLIES IN GROUND</u></p> <p><u>PN 12.5 PE 100 HDPE pipes:</u></p>				
1	m	115		
Carried to Collection			R	
Section No. 4				
Bill No. 4				
Water Reticulation				



	Unit	Quantity	Rate	Amount
22 Thrust blocks at Tee junctions as per detail drawing Drawing No. 1807-C-WAT-T-013 attached to these bill of quantities	No	4		
23 Thrust blocks at Reducers as per detail drawing Drawing No. 1807-C-WAT-T-013 attached to these bill of quantities	No	1		
<u>Sundry fittings:</u>				
24 50mm Isolating Gate valve.	No	9		
25 110mm Gate valve.	No	15		
<u>Sundries:</u>				
26 Extra over excavation in earth for pipe trenches, chambers, etc. for excavation in soft rock.	m ³	18		
27 Extra over excavation in earth for pipe trenches, chambers, etc. for excavation in hard rock.	m ³	14		
28 Extra over backfilling to pipe trenches, chambers, etc. with G5 material in accordance to SABS 1200 DM for compaction to 95% Mod AASHTO density.	m ³	125		
29 Unreinforced concrete in thrust blocks in trenches at bends, tees, etc. including extra excavation, formwork, etc.	m ³	1		
30 660 x 660mm Cast iron stopcock box including brick chamber below 1000mm deep internally.	No	14		
<u>Water Meter Chamber</u>				
31 25Mpa/19mm concrete base slab.	m ³	1		
32 25Mpa/19mm concrete cover slab.	m ³	1		
33 Type 245 fabric reinforcement in concrete base slab	m ²	4		
34 Type 617 fabric reinforcement in concrete base slab	m ²	3		
<u>Brickwork of NFP bricks in class II mortar:</u>				
35 One brick wall	m ²	6		
36 Type 9B lockable polymer concrete cover and frame SANS 1882-2003.	No	1		
37 20mm Diameter expansion bolts.	No	8		
38 Franke Aqua 205mm or equal approved self closing bib tap.	No	8		
Carried to Collection				
Section No. 4				
Bill No. 4				
Water Reticulation				
			R	



	Unit	Quantity	Rate	Amount
<u>Sundry fittings:</u>				
39	No	10		
40	No	6		
41	No	3		
42	No	4		
43	No	3		
44	No	3		
45	No	3		
<u>Municipal Connection:</u>				
46	No	1		
47	No	1		
48	No	1		
<u>Testing:</u>				
49	Item			
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BILL NO. 4
WATER RETICULATION
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Water Reticulation



	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 4</u> <u>EXTERNAL WORKS (PROVISIONAL)</u> <u>BILL NO. 5</u> <u>STORMWATER DRAINAGE</u></p> <p><u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG146</u></p> <p><u>Trade Preambles:</u> For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u> Where item in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item.</p> <p><u>Concrete pipes:</u> Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.</p> <p><u>Exposed concrete surfaces:</u> Exposed surfaces of concrete storm water channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catch pits, inspection chambers, etc. shall be finished smooth with plaster.</p> <p><u>Excavations:</u> No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling. Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.</p> <p><u>Laying, backfilling, bedding, etc. of pipes</u> Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions. Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Storm water drainage Pipe trenches etc. shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB: Earthworks (Pipe trenches) Clause 5.7.2 will only be applicable if authorised by the Engineer in writing.</p>				
Carried to Collection			R	
Section No. 4 Bill No. 5 Stormwater Drainage				



	Unit	Quantity	Rate	Amount
<p>Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB: Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding.</p> <p><u>Descriptions of pipes laid in trenches:</u></p> <p>Descriptions of pipes laid in trenches shall be deemed to include for carting away all surplus excavated material to a dumping site located by the contractor. Note minimum width of trench is 500mm on either side of pipe.</p> <p><u>Descriptions of catch pits, junction boxes, manholes, etc.:</u></p> <p>Descriptions of catch pits, junction boxes, manholes, etc., shall be deemed to include for compaction, disposal of surplus excavated material to a dumping site located by the contractor, risk of collapse and keeping excavations free from water.</p> <p><u>SITE CLEARANCE, ETC</u></p> <p><u>Site clearance.</u></p>				
1	m ²	376		
2	m ²	376		
<p><u>STORMWATER CHANNELS</u></p> <p><u>In-Situ concrete (25Mpa) open storm water channels having V - Shaped water way formed in top, finished smooth on all exposed surfaces (3:1) untinted cement plaster trowelled smooth and with angles rounded, cast suitable lengths in alternate panels, including all formwork, moulds, shallow excavation, 150mm G7 filling and ramming, type 193 fabric reinforcement, laying to falls, bedding and pointing (3:1) cement mortar:</u></p>				
3	m	227		
4	m	263		
5	m	88		
<p><u>Excavations (WG: 104):</u></p>				
6	m ³	217		
Carried to Collection				
Section No. 4				
Bill No. 5				
Stormwater Drainage				
			R	



	Unit	Quantity	Rate	Amount
<u>Extra over excavations other than bulk in earth for excavation in:</u>				
7	Soft rock.	m ³	22	
8	Hard rock.	m ³	11	
<u>EXISTING SERVICES THAT INTERSECT OR ADJOIN AT PIPE TRENCH</u>				
<u>Services that intersect at trench</u>				
9	Electrical and Telecommunication cables	No	10	
10	Sewer and Water lines	No	15	
<u>Services that adjoin at trench</u>				
11	Electrical and Telecommunication cables	No	30	
12	Sewer and Water lines	No	20	
<u>PIPES</u>				
<u>Precast Class B concrete pipe Type SC and Class 100D</u>				
13	450mm diameter pipe	m	97	
14	300mm diameter pipe	m	120	
<u>uPVC pipes:</u>				
15	110mm Diameter uPVC drainex pipe or similar approved incased in 19mm stone, with A2 bidim non-woven geotex or similar approved blanket complete as per stormwater details drawing no. 1807-C-SW-T-010	m	165	
16	110mm Diameter cast iron rodding eye includind concrete incasing complete as per stormwater details drawing no. 1807-C-SW-T-010	No	17	
<u>CATCH PITS</u>				
<u>Manholes:</u>				
17	2190 x 1240mm manhole, formed of 220mm brickwork, factory made precast cover slab and ring sections, etc, with maximum depth of 3.0m complete as per stormwater details drawing no. 1807-C-SW-T-010	No	1	
18	1440 x 1140mm manhole, formed of 220mm brickwork, in-situ reinforced concrete ring beams, etc, with maximum depth of 3.0m complete as per stormwater details drawing no. 1807-C-SW-T-010	No	1	
			Carried to Collection	R
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Stormwater Drainage				



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BILL NO. 5
STORMWATER DRAINAGE
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	Unit	Quantity	Rate	Amount
SECTION NO. 4				
EXTERNAL WORKS (PROVISIONAL)				
BILL NO. 6				
RETAINING WALLS				
EXCAVATION OTHER THAN BULK (WG: 104)				
Excavation in earth not exceeding 2m deep:				
1	Trenches. (LI)	m ³	36	
Extra over excavations other than bulk in earth for excavation in:				
2	Soft rock.	m ³	4	
3	Hard rock.	m ³	2	
Risk of collapse of excavations other than bulk:				
4	Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	95	
5	Sides of trench and hole excavations exceeding 1,5m deep.	m ²	25	
CARTING AWAY				
Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
6	Off site to a dumping site to be found by the Contractor.	m ³	30	
EARTH FILLING, ETC				
Filling with material from the excavations compacted to a density of at least 95% Mod. AASHTO maximum density:				
7	Backfilling to trenches, holes, etc. (LI)	m ³	5	
Filling with G5 material in accordance with SABS 1200 DM, material supplied and carted onto site by the Contractor, compacted to a density of at least 98% Mod. AASHTO maximum density:				
8	Behind retaining walls.	m ³	39	
KEEPING EXCAVATIONS FREE OF WATER				
Keeping excavations free of water:				
9	Keeping excavations free of all water other than subterranean water.	Item		
			Carried to Collection	R
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Retaining Walls				



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RETAINING WALLS
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Section No. 4
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 Retaining Walls



	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u>				
<u>EXTERNAL WORKS (PROVISIONAL)</u>				
<u>BILL NO. 7</u>				
<u>RAINWATER TANKS AND STANDS</u>				
<u>TRADE PREAMBLES</u>				
<u>Trade Preambles:</u>				
For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A) for the full descriptions of material to be used and work to be done in this Bill				
<u>SUPPLEMENTARY PREAMBLES</u>				
Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item				
<u>EXCAVATION OTHER THAN BULK</u>				
<u>Excavate in earth not exceeding 2 m deep:</u>				
1	Trenches.	m ³	18	
<u>Extra over excavations other than bulk in earth for excavation in:</u>				
2	Soft rock.	m ³	1	
3	Hard rock.	m ³	1	
<u>Risk of collapse of excavations other than bulk:</u>				
4	Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	60	
<u>CARTING AWAY</u>				
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
5	Off site to a dumping site to be found by the Contractor.	m ³	8	
<u>EARTH FILLING, ETC</u>				
<u>Filling with material from the excavations compacted to a density of at least 96% Mod. AASHTO maximum density:</u>				
6	Backfilling to trenches, holes, etc.	m ³	9	
			Carried to Collection	R
Section No. 4				
Bill No. 7				
Rainwater Tanks And Stands				



	Unit	Quantity	Rate	Amount
<u>Filling with approved G7 material in accordance with SABS 1200 MF supplied and carted onto site by the Contractor, compacted to a density of at least 96% Mod. AASHTO maximum density:</u>				
7	m ³	4		
<u>Surface Preparation:</u>				
8	m ²	16		
<u>KEEPING EXCAVATIONS FREE OF WATER</u>				
<u>Keeping excavations free of water:</u>				
9	Item			
<u>TESTS</u>				
<u>Prescribed density tests on filling:</u>				
10	No	8		
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>10Mpa/19mm Concrete:</u>				
11	m ³	1		
<u>REINFORCED CONCRETE</u>				
<u>20Mpa/19mm Concrete:</u>				
12	m ³	4		
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>25Mpa/19mm Concrete:</u>				
13	m ³	14		
<u>TEST BLOCKS</u>				
<u>Test blocks:</u>				
14	Sets	12		
			R	
Section No. 4				
Bill No. 7				
Rainwater Tanks And Stands				

Carried to Collection



	Unit	Quantity	Rate	Amount
<u>METALWORK</u>				
<u>SUNDRY GALVANIZED STEELWORK</u>				
<u>Sundry galvanised steelwork:</u>				
23	Bolts.	Kg	11	
24	40 x 2.0mm Hoop iron strap 6400mm long, in four equal sections, wrapped around tank, one end of each section once bent and once holed for bolts, (bolts elsewhere measured) bolted to post (post elsewhere measured), the other end twice holed for pop rivets for adjustable keep (adjustable keep elsewhere measured)	No	8	
25	Adjustable latch and keep 'Moss Express Part No. 491976' or equal approved pop riveted to hoop iron strap (hoop iron strap elsewhere measured)	No	8	
<u>TANKS, ETC</u>				
<u>Tanks:</u>				
26	5 000 Litre 'Beige' plastic seamless water storage tank complete fixing lugs and setting in position on concrete tank stand (elsewhere measured).	No	8	
27	Hole through top of tank lid for 100 x 100mm pipe.	No	8	
Carried to Collection				
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Bill No. 7				
Rainwater Tanks And Stands				
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BILL NO. 7
RAINWATER TANKS AND STANDS
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 Rainwater Tanks And Stands



	Unit	Quantity	Rate	Amount
<u>EARTH FILLING, ETC</u>				
<u>Filling with approved G5 material in accordance with SABS 1200 MF supplied and carted onto site by the Contractor, compacted to a density of at least 97% Mod. AASHTO maximum density:</u>				
7	m ³	9		
<u>Surface Preparation:</u>				
8	m ²	25		
<u>KEEPING EXCAVATIONS FREE OF WATER (CPAP Work Group No 104)</u>				
<u>Keeping excavations free of water:</u>				
9	Item			
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>15Mpa/19mm Concrete:</u>				
10	m ³	3		
<u>30Mpa/19mm Concrete:</u>				
11	m ³	13		
<u>FINISHING TOP SURFACE OF CONCRETE</u>				
<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
12	m ²	25		
<u>REINFORCEMENT</u>				
<u>High tensile steel reinforcement to structural concrete work:</u>				
13	Tonnes	0.14		
<u>MEDIUM PRESSURE PIPELINES</u>				
<u>Supply, lay and fix hot dip galvanised (HDGS) pipe complete with couplings for the following diameters:</u>				
14	m	35.00		
15	m	100		
			Carried to Collection	R
Section No. 4				
Bill No. 8				
Elevated Tank Stand And Tank				



	Unit	Quantity	Rate	Amount
16	m	35.00		
17	No	2		
18	No	6		
19	No	3.00		
<u>ANCHOR THRUST BLOCKS AND PEDISTALS</u>				
<u>Anchor/thrust blocks and pedestals:</u>				
20	No	3		
21	No	1		
22	No	1		
<u>VALVE CHAMBERS</u>				
<u>Valve chambers. Rate to include formwork and all other necessary work required to complete these chambers:</u>				
23	No	1		
24	No	1		
25	No	1		
26	m	2		
<u>LIGHTNING PROTECTION</u>				
27	Item			
<u>METALWORK</u>				
<u>GALVANISED SUNDRY METALWORK</u>				
<u>Bolts:</u>				
28	No	16		
			Carried to Collection	R
Section No. 4				
Bill No. 8				
Elevated Tank Stand And Tank				



	Unit	Quantity	Rate	Amount
<u>TANKS, ETC</u>				
<u>Tanks:</u>				
29				
Supply and install a 32 kL hot dip galvanized (70 micron) ABECO or similar approved steel tank (L = 2.44m, Breadth =3.66m, Depth = 3.66m), sterilized, with 4.5 mm panel thickness, 10m high support structure (stand), walkway around tank and landing. platform and complete with the following appertances: Level indicator, leveldex level control valve complete with 90° flanged cast iron bend, flanged scour outlet of size 80 mm Ø, flanged over flow outlet of size 80 mm Ø, flanged inlet of size 80 mm Ø, flanged outlet of size 50 mm Ø, inside and outside access ladder, lockable access manhole	No	1		
<u>PAINTWORK</u>				
<u>ON METAL</u>				
<u>Prepare surfaces and remove all loose material, dust, grease, salts and contamination with aquasolve degreaser, rinse and apply one coat galvogrip metal primer, apply one coat universal undercoat and one coat high gloss enamel paint on galvanised steel or aluminium:</u>				
30	m ²	20		
Members of lattice columns and beams.				
31	m	20		
Rails, bars, pipes, etc. not exceeding 300mm girth.				
Carried to Collection				
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Bill No. 8				
Elevated Tank Stand And Tank				



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ELEVATED TANK STAND AND TANK
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Section No. 4
Bill No. 9
Fencing



	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u>				
<u>EXTERNAL WORKS (PROVISIONAL)</u>				
<u>BILL NO. 10</u>				
<u>FLAG POLES</u>				
<u>WORK GROUPS: Unless otherwise stated the work group for this Bill shall be WG104</u>				
<u>Trade Preambles:</u>				
For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A & PW371B) for the full descriptions of material to be used and work to be done in this Bill				
<u>SUPPLEMENTARY PREAMBLES</u>				
Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item				
<u>EARTHWORKS</u>				
<u>Excavation in earth not exceeding 2m deep:</u>				
1	Holes.	m ³	1	
<u>Risk of collapse of excavations other than bulk:</u>				
2	Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	1	
<u>CARTING AWAY</u>				
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
3	Off site to a dumping site to be found by the Contractor.	m ³	1	
<u>KEEPING EXCAVATIONS FREE OF WATER</u>				
<u>Keeping excavations free of water:</u>				
4	Keeping excavations free of all water other than subterranean water.	Item		
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES (WG: 110)</u>				
<u>25MPa/19mm Concrete:</u>				
5	Bases	m ³	1	
			Carried to Collection	R
Section No. 4				
Bill No. 10				
Flag Poles				



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BILL NO. 10
FLAG POLES
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EXTERNAL WORKS (PROVISIONAL)

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SECTION SUMMARY



SECTION NO. 5

EPWP



	Unit	Quantity	Rate	Amount
<u>Technical training for 45 days (ref. SL 11.02.02):</u>				
6	.01 Travelling (based on R100 / day return trip/facilitators/learners.)	No	3	
7	.02 Accommodation (based on 5 nights / week and R 300 / facilitator (x3) / 39 nights)	No	3	
<u>Tests for medical fitness.</u>				
8	.01 Provision of General Medical Practitioner or Clinic to examine EPWP youth workers on medical fitness before appointment.	No	25	
9	Profit (ref. SL 11.05.02)	Item		
10	Attendance (ref. SL 11.05.02)	Item		
<u>ALTERNATIVE WORKERS FOR THE PERIOD OF OFF-SITE TRAINING:</u>				
11	Life skills training for 5 days (ref. SL 11.03.01)	Days	0	
12	Life skills training for 5 days (ref. SL 11.02.01)	Days	0	
<u>EMPLOYMENT OF YOUTH WORKERS</u>				
13	Employment of youth workers (off-site/theoretical training: Life Skills & Technical)	Days	1 250	
14	Employment of youth workers (on - site training)	Man Weeks	225	
<u>The unit of measurement shall be the number of youth workers at the MINMEC labour rates multiplied by the period employed in months and the rate tendered shall include full compensation for all costs associated with the employment of youth workers and for complying with the conditions of contract. The cost for the training shall be excluded from this item. This item is based on max of 12 months appointment for youth workers</u>				
15	Profit on Item 2	Item		
16	Attendance on Item 2	Item		
<u>PROVISION OF EPWP BRANDED OVERALLS & T-SHIRT/GOLF SHIRTS TO YOUTH WORKERS</u>				
17	Supply 2 x EPWP/NYS branded overalls, safety shoes, 1 x hard hats, 2 x to youth workers (ref. SL 11.05.01)	No	25	
18	Profit on Item (ref. SL 11.05.02)	Item		
19	Attendance on Item (ref. SL 11.05.02)	Item		
Carried to Collection				
Section No. 5				
Bill No. 1				
Epwp (provisional)				
			R	



	Unit	Quantity	Rate	Amount
<u>PROVISION OF SMALL TOOLS FOR YOUTH WORKERS</u>				
20	No	25		
21	Item			
22	Item			
<u>APPOINTMENT OF YOUTH TEAM LEADER</u>				
23	No	1		
24	Hours	0		
<u>PROVISION OF CATERING FOR EXIT WORKSHOP</u>				
25	No	25		
Carried to Collection				R
Section No. 5				
Bill No. 1				
Epwp (provisional)				



Amount

BILL NO. 1
EPWP (PROVISIONAL)
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Epwp (provisional)



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EPWP

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SECTION NO. 6
PROVISIONAL SUMS



	Unit	Quantity	Rate	Amount
2 Profit on above item	Item			
3 Attendance on ditto	Item			
4 AllowanCe for furniture removal, from storage back to houses	Item			20 000 00
5 Profit on above item.	Item			
6 Attendance on ditto	Item			
7 Allow for furniture storage containers for a period of 2 months	Item			30 000 00
8 Profit on above item	Item			
9 Attendance on ditto	Item			
10 Allow for IT Installations	Item			550 000 00
11 Profit on above item.	Item			
12 Attendance on ditto.	Item			
Carried to Collection				
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Bill No. 1				
Provisional Sums				



Amount

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PROVISIONAL SUMS
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Provisional Sums



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SECTION SUMMARY

PROVISIONAL SUMS

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SECTION NO. 7

ALLOWANCE FOR CONTRACT PARTICIPATION **GOALS**



	Unit	Quantity	Rate	Amount
<u>SECTION NO. 7</u>				
<u>ALLOWANCE FOR CONTRACT PARTICIPATION GOALS</u>				
<u>BILL NO. 1</u>				
<u>CPG's (PROVISIONAL)</u>				
<u>CONTRACT PARTICIPATION GOAL</u>				
Note to tenderers: As CPGs may not provide any bidder a competitive advantage. Provisional amounts and fixed percentages for profit and attendance have been provided. Only the provisional amount will be adjusted once the awarded tender amount and/or the beneficiaries have been appointed, and the final values have been ascertained.				
<u>MINIMUM TARGETED ENTERPRISE DEVELOPMENT</u>				
1				
A provisional amount has been allowed for in the execution of this project as described in PG-01.1 (EC) / PG-01.2 (EC) SCOPE OF WORKS C3.7.5. The provisional amount allowed is for the appointment of training coordinator, mentor, training service providers and training of the beneficiary enterprises including monitoring and monthly reporting.				
	Prov Sum			510 000 00
2				
Allowance for profit all inclusive of associated costs to the contractor for implementation.				
	%	5		
3				
Allowance for attendance all inclusive of associated costs to the contractor for implementation.				
	%	5		
<u>MINIMUM TARGETED SKILLS DEVELOPMENT GOALS</u>				
4				
A provisional amount has been allowed for the Minimum Targeted Development CPG in the execution of this project as described in PG-01.1 (EC) / PG-01.2 (EC) SCOPE OF WORKS C3.7.6.				
<ul style="list-style-type: none"> • stipends payable to the beneficiaries • appointment of training coordinator • appointment of mentor (where applicable) • appointment of training service providers • other additional costs as per table 3 of the Standard • monitoring and monthly reporting 				
	Prov Sum			115 000 00
Carried to Collection				R
Section No. 7				
Bill No. 1				
Cpg's (provisional)				



	Unit	Quantity	Rate	Amount
5 Allowance for profit all inclusive of associated costs to the contractor for implementation.	%	5		
6 Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	5		
<u>NATIONAL YOUTH SERVICE TRAINING AND DEVELOPMENT PROGRAMME</u>				
The programme shall be implemented in terms of the Implementation of the National Youth Service Programme under the Expanded Public Works (EPWP) and shall be priced in the CPG section of the Bills of Quantities				
Provision has been made within the Contract Participation Goal section in the Bill of Quantities for the National Youth Service Training and Development Programme CPG in the execution of this project as described in PG-01.1 (EC) / PG-01.2 (EC) SCOPE OF WORKS C3.7.7. The contractor to price all applicable elements of this BOQ section.				
Refer to separate EPWP-NYS section in BOQ.				
7 Allowance for monthly reporting based on the implementation of the EPWP-NYS as per the specifications and EPWP-NYS BOQ all inclusive of associated costs to the contractor.	%	5		
<u>LABOUR INTENSIVE PARTICIPATION GOAL</u>				
8 Labour Intensive Participation Goal - Allowance for monthly reporting of labour intensive works by main contractor based on determination by PQS taking into account specific project variables. Allowance for monitoring and monthly reporting on Works executed by means of Labour Intensive methods by main contractor and subcontractors based on determination by PQS taking into account specific project variables	Prov Sum			162 000 00
9 Allowance for profit all inclusive of associated costs to the contractor for implementation.	%	5		
Carried to Collection			R	
Section No. 7				
Bill No. 1				
Cpg's (provisional)				



Amount

BILL NO. 1
CPG's (PROVISIONAL)
COLLECTION

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ALLOWANCE FOR CONTRACT PARTICIPATION GOALS

SECTION SUMMARY

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CPG's (PROVISIONAL)

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	SubTotal excluding Value Added Tax	
	ADD VAT @ 15%:	
	LESS: CREDIT FOR MATERIALS	
	Credit for materials arising from demolitions and materials on site.	
	Carried to Tender	R
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Part C3: Scope of Work

C3 Scope of Work

PG-01.2 (EC) SCOPE OF WORKS – JBCC 2000 PRINCIPAL BUILDING AGREEMENT (Edition 6.2 of May 2018)

Project title:	<i>Joubertina Police Station ERF 1200: Repairs & Maintenance of Electrical, Mechanical, Civil & Structural Elements to the Complex: Completion of Contract 1.</i>		
Tender / Quotation no:	PE25/2022	Reference no:	19/2/4/2/2/6417/24

C3. Scope of Works

C3.1 EXTENT OF THE WORKS

Building Work:

1. Main Administration Building
 - Replace existing roof covering and repair roof structure
 - Replace rainwater goods
 - Replace all steel and timber windows with new aluminium windows
 - Repair and repaint internal and external plaster, doors and frames
 - Upgrade of Electrical and Mechanical fittings
 - Upgrade of internal floor finishes
 - Upgrade and replace ironmongery
 - Replace all sanitary fittings
 - Remove and revamp all existing Joinery

2. Cell Block
 - Replace existing roof and repair roof structure
 - Replace rainwater goods
 - Replace all steel and timber windows with new aluminium windows
 - Repair and repaint internal and external plaster, doors and frames
 - Upgrade of Electrical and Mechanical fittings
 - Upgrade of internal floor finishes
 - Upgrade and replace ironmongery

3. Docket Store
 - Replace existing roof covering and repair roof structure
 - Replace rainwater goods
 - Replace all steel and timber windows with new aluminium windows
 - Repair and repaint internal and external plaster, doors and frames
 - Upgrade of Electrical and Mechanical fittings
 - Upgrade of internal floor finishes
 - Upgrade and replace ironmongery
 - Replace all sanitary fittings
 - Remove and revamp all existing Joinery

4. Tyre Store Completion of the following
 - Repaint internal and external plaster, doors and frames

5. Detective Unit Completion of the following
 - Repaint internal and external plaster, doors and frames
 - Upgrade of Electrical and Mechanical fittings
 - Upgrade of internal floor finishes
 - Upgrade and replace ironmongery
 - Replace all sanitary fittings
 - Remove and revamp all existing Joinery

6. SAPS Residence A Completion of the following
 - Repaint internal and external plaster, doors and frames

- Upgrade of Electrical and Mechanical fittings
- Upgrade of internal floor finishes
- Upgrade and replace ironmongery
- Replace all sanitary fittings
- Remove and revamp all existing Joinery
- Revamp existing kitchens, bedrooms, bathrooms and toilets

7. SAPS Residence B Completion of the following

- Repaint internal and external plaster, doors and frames
- Upgrade of Electrical and Mechanical fittings
- Upgrade of internal floor finishes
- Upgrade and replace ironmongery
- Replace all sanitary fittings
- Remove and revamp all existing Joinery
- Revamp existing kitchens, bedrooms, bathrooms and toilets

External Works Completion:

Removal and replacement of existing walkways, pathways, parking and court yards. Complete removal and replacement of existing security fence with 2.4m high clearVu fence. Upgrading storm water channels and storm water drainage pipes, Replace 8 x 5kl rainwater harvesting tanks and stands. New 32kl elevated water tank. Upgrading sewer reticulation. Upgrading water supply and installing new fire ring main. Upgrading flag poles. Bulk earthworks and new landscaping.

C3.2 ORDER OF THE WORKS

- The works are to be phased in 4 distinct phases.
- Decanting will be facilitated by using the existing buildings.
- Site works phasing to be consistent with building phasing and maintaining permanent access.
- Refer to phasing diagram MDA 308 - 300

C3.3 BUILDINGS OCCUPIED

All of the buildings on the site have varied occupancy levels. The decanting plan / phasing plan will facilitate moving of staff during the construction phase to free up buildings for the works.

C3.4 ACCESS

Access to the site will be from a temporary entry point at the Southern Boundary of the site. This access will only be used by the contractor and is off of Kerk Straat
No access will be allowed onto the precinct by construction vehicles from the main gate at Olivier Street.

C3.5 STANDARD MINIMUM REQUIREMENTS

In terms of section 5(2) of the Construction Industry Development Board Act, 2000 (Act no. 38 of 2000) (the Act), the Construction Industry Development Board is empowered to establish and promote best practice standards, Standard Requirements and Guidelines which includes the following but not limited to:

C3.5.1 cidb Best Practice: Green Building Certification, No. 34158 Government Gazette, 1 April 2011

C3.5.2 cidb Standard for Developing Skills through Infrastructure Contracts, No. 36760 Government Gazette, 23 August 2013

Any reference to words "Bid" or "Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

- C3.5.3 cidb Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, No 36190 Government Gazette, 25 February 2013
- C3.5.4 Preferential Procurement Policy Framework Act, 2000: Preferential Procurement Regulations, 2017, No. 40553 Government Gazette, 20 January 2017
- C3.5.5 cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts, No. 41237 Government Gazette, 10 November 2017
- C3.5.6 cidb Standard for Minimum Requirements for Engaging Contractors and Sub-Contractors on Construction Works Contracts, No. 41237 Government Gazette, 10 November 2017
- C3.5.7 cidb Standard for Minimum Requirements for Engaging Contractors and Sub-Contractors on Construction Works Contracts, No. 42021 Government Gazette, 9 November 2018
- C3.5.8 cidb Standard for Developing Skills through Infrastructure Contracts, No. 43495 Government Gazette, 3 July 2020

C3.6 CONTRACT PARTICIPATION GOALS AND CIDB BUILD PROGRAMME

The contractor shall achieve in the performance of the contract the following Contract Participation Goals (CPGs) as specified below. Provision for pricing of compliance with the achieving the CPGs is made in the Contract Participation Goal Section of the Bills of Quantities and it is explicitly pointed out that all requirements in respect of the aforementioned are deemed to be priced thereunder and no additional claims in this regard shall be entertained:

C3.6.1 Minimum Thirty Percent (25%) Mandatory Sub-contracting Contract Participation Goal

MINIMUM THIRTY PERCENT (25%) MANDATORY SUBCONTRACTING TO SMMEs: IMPLEMENTATION OF PREFERENTIAL PROCUREMENT REGULATIONS 2017

25% Mandatory subcontracting is “applicable” to this project.

It is the requirement of the employer that the contractor enhances the use of local Small, Micro and Medium Enterprises (SMME’s) in executing this contract, irrespective whether the thirty percent (30%) Participation Goal is applicable or not.

The thirty percent (25%) mandatory Sub-contracting shall be achieved in the execution of the contract in accordance with the Preferential Procurement Policy Framework Act, 2000: Preferential Procurement Regulations, 2017 as published in the Government Gazette Notice No. 40553 of 20 January 2017.

- (a) SMME’s involvement of at least **25% Twenty Five Percent** of the tender amount at the time of tender to be sourced from within **5km** radius of the project site with the intention to maximize use of local SMMEs within **Joubertina in Ko-Kamma Local Municipality, in Sarah Baartman District in the Easter Cape**
- (b) SMME’s involvement of at least **R510 000.00 (Five Hundred and Ten Thousand)** of the Tender Value to be sourced from within **5km** radius of the project site.

Bidders are cautioned not to under-price items earmarked to be executed by SMMEs as adjustment to too low rates will not be entertained by the Employer.

Bidders to sub-contract a minimum of thirty percent (25%) of the tender amount including VAT at the time of tender (All inclusive, Including VAT). to any one or more of the following categories:

- a. An EME or QSE
- b. An EME or QSE which is at least 51% owned by black people
- c. An EME or QSE which is at least 51% owned by black people who are youth
- d. An EME or QSE which is at least 51% owned by black people who are women
- e. An EME or QSE which is at least 51% owned by black people with disabilities
- f. An EME or QSE which is at least 51% owned by black people living in rural or underdeveloped areas or townships
- g. A co-operative which is at least 51% owned by black people
- h. An EME or QSE which is at least 51% owned by black people who are Military veterans
- i. More than one of the categories referred to in paragraphs (a) to (h).

Bidders to refer to the CSD for a list of prospective sub-contractors provided with the tender. The bidder may refer to the CSD website should the list provided be insufficient.

Bidders must ensure that the sub-contractors conform to the following:

- a. Possess relevant accreditation where applicable;
- b. Be registered with relevant bodies (CIDB, various Councils, etc.) where applicable;
- c. Possess necessary capabilities to deliver the sub-contracted work;
- d. Meet the requirements in terms of the stipulated designated groups; and
- e. Geographical located at the place where the project will be delivered. Geographical location must be determined using the following criteria:
 - Relevant Ward. If not available;
 - Relevant neighbouring Wards. If not available;
 - Relevant Local Municipality. If not available;
 - Relevant District Municipality. If not available;
 - Relevant Metro. If not available;
 - Relevant Province. If not available;
 - Relevant Neighbouring Province. And If not available;
 - Anywhere within the borders of South Africa .

It is the bidder's responsibility to source alternative SMMEs should the parties with whom agreements were entered into at the time of tendering either no longer exist or do not perform or render work of an acceptable standard, subject to the approval by the Employer. Failure to achieve the **minimum twenty five percent (25%)** SMME participation based on the tender amount including VAT, will result in a **R5000/day** penalty on the amount of work on which there is no compliance (Excluding VAT), unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

C3.6.2 Minimum Targeted Local Material Manufacturer Contract Participation Goal

The Minimum Targeted Local Building Material Manufacturers CPG is "not applicable" to this project.

It is the requirement of the employer that the contractor enhances the use of local Small, Micro and Medium Enterprise Local Material Manufacturers (SMME's) in executing this contract, irrespective whether a minimum percentage Participation Goals is applicable or not.

The Minimum Targeted Local Manufacturers of Material Contract Participation Goal, in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020.

A Targeted Local Material Manufacturer is a targeted enterprise that operates or maintains a factory or establishment that produces on its premises materials or goods required by the principal contractor for the performance of the contract.

Note: Adapted from SANS 10845-7:2015, definition 2.13

Preference shall be given to the Targeted Local Material Manufacturer where feasible in **insert applicable Ward/s, Municipal District, Town, City, Province**, and provided that:

- (a) Such materials comply in all respects with the specific requirements of PW371 and SANS specifications,
- (b) The non-availability of such materials shall not adversely affect the desired progress of the specific works,
- (c) The use of such suppliers shall not constitute grounds for any claim for increased cost in respect thereof,
- (d) Materials of at least **insert applicable percentage, both in words and figures** of the total value of materials purchased excluding VAT to be sourced from within **insert applicable kilometerskm** radius of the project site,
- (e) Material of at least **insert applicable percentage, both in words and figures** of the total value of materials purchased excluding VAT to be sourced from within **insert applicable kilometerskm** radius of the project site.

Failure to achieve the minimum **insert applicable percentage, both in words and figures** Targeted Local Material Manufacturer participation expressed as a percentage of the original tender amount, excluding allowances and VAT, will result in a **insert applicable percentage, both in words and figures** penalty of the prorated targeted value of materials not complied with unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

C3.6.3 Minimum Targeted Local Building Material Suppliers Contract Participation Goal

The Minimum Targeted Local Building Material Suppliers CPG is “not applicable” to this project.

It is the requirement of the employer that the contractor enhances the use of local Small, Micro and Medium Enterprise Local Material Suppliers (SMME's) in executing this contract, irrespective whether a minimum percentage Participation Goals is applicable or not.

The Minimum Targeted Local Manufacturers of Material Contract Participation Goal shall be achieved in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract..

A targeted supplier is a targeted enterprise that

- a) owns, operates or maintains a store, warehouse or other establishment in which goods are bought, kept in stock and regularly sold to wholesalers, retailers or the public in the usual course of business; and
- b) engages, as its principal business and in its own name, in the purchase and sale of goods.

Note: Adapted from SANS 10845-7:2015, definition 2.14

Preference shall be given to the local material suppliers where feasible in the **insert applicable Ward/s, Municipal District, Town, City, Province**, and provided that:

- (a) Such materials comply in all respects with the specific requirements of PW371 and SANS specifications,
- (b) The none availability of such materials shall not adversely affect the desired progress of the specific works,
- (c) The use of such suppliers shall not constitute grounds for any claim for increased cost in respect thereof,

- (d) Materials of at least **insert applicable percentage, both in words and figures** of the total value of materials purchased excluding VAT to be sourced from within **insert applicable kilometerskm** of the project site,
- (e) Material of at least **insert applicable percentage, both in words and figures** of the total value of materials purchased excluding VAT to be sourced from within **insert applicable kilometerskm** of the project site.

Failure to achieve the minimum **insert applicable percentage, both in words and figures** Targeted Local Material Manufacturer participation expressed as a percentage of the original tender amount, excluding allowances and VAT, will result in a **insert applicable percentage, both in words and figures** penalty of the prorate targeted value of materials not complied with, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

C3.6.4 Minimum Targeted Local Labour Skills Development Contract Participation Goal

The Minimum Targeted Local Labour Skills Development CPG is "applicable" to this project.

It is the requirement of the employer that the contractor enhances the use of local labour in executing this contract. This is required to be done through the use of both traditional building techniques and labour-intensive construction techniques careful and considered construction planning and implemented in the project irrespective whether a minimum percentage Participation Goal is applicable or not.

The Minimum Targeted Local Skills Development Contract Participation Goal shall be achieved in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract..

Targeted labour: individuals who:

- a) are employed by the principal contractor, sub-contractor or targeted enterprises in the performance of the contract;
- b) are defined as the target group in the targeting data; and
- c) permanently reside in the target area or who are recognized as being residents of the target area on the basis of identification and association with and recognition by the residents of the target area.

Adapted from SANS 10845-7:2015, definition 2.12

Targeting of labour by skills categories is only permissible within categories of semi-skilled and unskilled labour.

Contract participation goals for semi-skilled and unskilled labour shall be limited to on-the-job training to targeted labour to enable such labour to master the basic work techniques required to undertake the work in accordance with the requirements of the contract and in a manner that does not compromise worker health and safety. In the case of targeted labour, the certification of records shall be in accordance with SANS 10845-8.

Beneficiaries will be sourced from the **Kou-Kamma Local Municipality, Sara Baartman, Joubertina, Eastern Cape** for the full duration of the Construction Period, employed by either the principal contractor, sub-contractors or targeted enterprises. The total number of working days to complete the Works amount to 300 working days. The minimum CPG participation for Targeted Local Labour Skills Development is 5% (Five Percent), expressed as a percentage of the total number of working days required to complete the Works. The contractor shall attain or exceed the CPG in the performance of the contract. Failure to achieve the minimum Targeted Local Labour Skills Development CPG will result in a payment reduction of **R5 000** (Excluding VAT), per working day

which training has not been provided to the workforce in attendance, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

C3.6.5 CIDB BUILD PROGRAMME: Minimum Targeted Enterprise Development Contract Participation Goal

The Minimum Targeted Enterprise Development Contract Participation Goal is "applicable" to this project.

The aim of this best practice standard for indirect targeting for enterprise development in accordance with the Standard for Indirect Targeting for Enterprise Development (published in Government Gazette 36190 of 25 February 2013), as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract. is to promote enterprise development by providing for a minimum contract participation goal (CPG) of **five percent (5%)** of the contract amount as defined in the Standard (Tender amount, excluding allowances and VAT on selected contracts to be undertaken by joint-venture partners or to be sub-contracted to developing contractors that are also to be beneficiaries of enterprise development support from the main contractor.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

The lead partner or main contractor shall dedicate a **minimum five percent (5%)** of the tender value at the time of award, excluding allowances and VAT, to provide developmental support to targeted subcontractor or joint venture partner applicable to contracts in Grades 1 to 6, General Building and Civil Engineering contracts. Preference will be given to General Building Enterprises.

The contractor shall attain or exceed the enterprise development goal in the performance of the contract. Failing to achieve the Participation Goal will result in A) a thirty percent (30%) penalty of the value not achieved, excluding VAT, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

C3.6.5.1 Criteria

The main or lead partner of the successful bidder shall:

- (a) There must be a needs analysis for indirect targeting and development or skill standard and should be development in at least any two developmental areas namely;
 - Administrative and cost control systems
 - construction management systems and plans
 - planning, tendering and programming
 - business; technical; procurement skills
 - legal compliance
 - credit rating/history; financial loan capacity/history
 - contractual knowledge
- (b) The above needs analysis shall be mutually agreed upon between contractor and targeted enterprise
- (c) The contractor shall appoint an enterprise development coordinator to:
 - perform needs analysis on the targeted enterprise to identify developmental goals
 - develop a project specific enterprise development plan to improve the targeted enterprise/s performance in the identified developmental areas
 - provide internal mentorship support to improve the targeted enterprise/s performance

- monitor and submit to the employer’s representative a monthly enterprise development report thereby reporting on the progress of the agreed development areas with the targeted enterprise/s
- submit a project completion report to the Employer’s representative for each targeted enterprise.

C3.6.5.2 Management

The contractor shall provide a competent person/s to provide internal mentorship to the Targeted Enterprise/s in the two agreed developmental areas.

C3.6.5.3 Competence Criteria for an Enterprise Development Co-ordinator

The enterprise development co-ordinator shall have the following competencies:

- Minimum experience of 5 years in the construction industry at Managerial level as a Site Agent, Contracts Manager, Site Manager, Construction Manager, Business Development Manager or Enterprise Development Manager.
- Minimum experience of 2 years in training and development in Building or Construction; and
- National Diploma or B Degree in the Built Environment or Business Management

C3.6.5.4 Format of Communications

The contractor shall submit to the Employer’s Representative:

- *Project interim reports* in the specified format (**ED105P**) detailing interim values of the CPG that was achieved together with an assessment of the enterprise development support provided should be tabled and discussed at least monthly at progress meetings between employer’s representative and the contractor;
- *Project completion report* in the specified format (**ED101P**) to the Employer’s Representative for acceptance within 15 days of achieving practical completion. The report shall include the value of the CPG that was certified in accordance with the contract, cidb registration numbers of each and every targeted enterprise, and the value of the subcontracted works or of the joint venture entered into; and the participation parameter
- *Enterprise development declaration (ED104P)*.

C3.6.5.5 The Key Personal

The contractor shall appoint an Enterprise Development Co-ordinator and a competent person/s to provide internal mentorship.

C3.6.5.6 Management Meetings

The contractor shall report to the Employer’s Representative on the implementation and progress of the targeted enterprise development and CPG at monthly progress site meetings.

C3.6.5.7 Forms for contract administration

The contractor shall submit to the Employer’s Representative the following proformas:

- Form ED 105P Project Interim Report
- Form ED 104P Enterprise Development Declaration
- Form ED 101P Project Completion Report

C3.6.5.8 Records

The contractor shall:

- keep records of the targeted enterprise development
- keep records of the payments made to the targeted enterprises in relation to the CPG.
- ensure all the documentation required in terms of the Standard is provided with each monthly progress payment certificate and according to a prescribed format where applicable.

C3.6.5.9 Payment Certificates

The contractor shall:

- achieve the measurable CPG and providing enterprise development support to the targeted enterprise/s as per the Standard.
- submit payment certificates to the Employer Representative at intervals determined in the Contract.

C3.6.5.10 Compliance requirements

Non-compliance with the Best Practice Project Assessment Scheme

The wording of regulation 27A of the cidb regulations makes provision for the Board to enforce the cidb code of conduct in the event of clients being found to be in breach of the best practice project assessment scheme.

- Not including the requirements of the cidb standards in the conditions of tender
- Not registering the award of contract on the cidb Register of Projects (RoP)
- Not reporting practical completion on the cidb Register of Projects (RoP)

3.6.6 **CIDB BUILD PROGRAMME: Minimum Targeted Contract Skills Development Goal (CSDG)**

The Minimum Targeted Contract Skills Development CPG is "applicable" to this project.

The contractor shall achieve or exceed in the performance of the contract the Contract Skills Development Goal (CSDG) established in the Standard for Developing Skills through Infrastructure Contracts (published in Government Gazette No 43495 of 3 July 2020, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.

Failing to achieve the targeted Contract Skills Development Goal will result in A) a thirty percent (30%) penalty of the value of the portion not achieved, excluding VAT, and B) the issuing of completion certificates only after the completion certificate of achieving the skills development goal, counter-signed by the relevant individuals has been submitted, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The contractor shall apportion the learners in the different construction activities based on the scope of work. The cost of accommodating learners will be determined by using Table 3 in the Standard and this cost will be used to determine the value in Rand and will be added to the provision for training as provided for in the Preliminary and General section in the Bill of Quantities/Pricing schedules/Activity schedule.

C3.6.6.1 Methodology

The contractor shall achieve the measurable contract skills development goal by providing opportunities to learners requiring structured workplace learning using one or a combination of any of the following in relation to work directly related to the contract or order:

Method 1: structured workplace learning opportunities for learners towards the attainment of a part or a full occupational qualification;

Method 2: structured workplace learning opportunities for apprentices or other artisan learners towards the attainment of a trade qualification leading to a listed trade (GG No. 35625, 31 August 2012) subject to at least sixty percent (60%) of the artisan learners being holders of public TVET college qualifications;

Method 3: work integrated learning opportunities for University of Technology or Comprehensive University students completing their national diplomas;

Method 4: structured workplace learning opportunities for candidates towards registration in a professional category by a statutory council listed in Table 1 above.

The contract skills participation goals, expressed in Rand, shall not be less than the contract amount multiplied by a percentage (%) factor given in Table 2 in the Standard for the applicable class of construction works.

Table 2: Contracting skills development goals for different classes of engineering and construction works contracts

Class of construction works as identified in terms of Regulation 25 (3) of the Construction Industry Regulations 2004		Construction skills development goal (CSDG) (%)
Designation	Description	
CE	Civil Engineering	0.25
CE and GB	Civil engineering and General Building	0.375
EE	Electrical Engineering works (buildings)	0.25
EP	Electrical Engineering works (infrastructure)	0.25
GB	General Building	0.5
ME	Mechanical Engineering works	0.25
SB	Specialist	0.25

The contractor shall apportion the learners in the different construction activities based on the scope of work. The cost of accommodating learners will be determined by using Table 3 in the Standard and this cost will be used to determine the value in Rand and will be added to the provision for training as provided for in the Preliminary and General section in the Bill of Quantities/Pricing schedules/Activity schedule.

Table 3: Notional Cost of Training per Headcount

Source: cidb Standard for Skills Development

Type of Training Opportunity	Provision for stipends (Unemployed learners only)	Provisions for mentorship	Provisions for additional costs*	Total costs	
				Unemployed learners	Employed learners
Method 1					
Occupational qualification	R7 000	R0	R9 000	R16 000	R9 000
Method 2					
TVET College graduates	R14 000	R0	R9 000	R23 000	N/A
Apprenticeship	R14 000	R0	R12 000	R26 000	R12 000
Method 3					
P1 and P2 learners	R24 000	R20 000	R4 500	R48 500	N/A
Method 4					
Candidates with a 3 year diploma	R37 000	R20 000	R4 500	R61 500	R20 000
Candidates with 4 year qualification	R47 000	R20 000	R4 500	R71 500	R20 000

Note: the required CPG will be recalculated based on the awarded tender amount and "Contract amount" once the beneficiaries have been appointed and actual costs are known. The notional cost of providing training opportunities will increase by CPI on an annual basis based on April CPI. Should the rates increase after bid award or during construction the rates will be adjusted as a remeasuarble item.

- (a) The successful contractor may employ part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates directly or through a Skills Development Agency (SDA), (A1 - List of cidb accredited SDAs).
- (b) The successful contractor must employ at least sixty percent (60%) of the learners from an FET / TVET college should the contractor select to have part/full occupational qualification learners and trade qualification learners contributing to the CSDG.
- (c) The successful contractor shall employ at least 5% (Five percent) from eligible part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates in the employment of the employer.
- (d) The successful contractor shall ensure that no single method shall contribute more than seventy five percent (75%) of the CSDG for the contract.
- (e) The successful contractor may only place thirty three percent (33%) employed employees or that of his subcontractors contributing to the CSDG.
- (f) The contractor shall employ at least sixty percent (60%) of the learners from a Public FET / TVET college should the contractor select to have trade qualification learners (Method 2) contributing to the CSDG.
- (g) One of the objectives of the project is to train 1 professional candidates within the built environment.

C3.6.6.2 Management

- (a) The successful contractor must keep site records regarding the full occupational qualification learners', candidates' progress, site attendance, hours worked and other relevant information as required by the Standard.
- (b) The successful contractor shall provide the required number of appropriately qualified mentors to the maximum number of full occupational qualification learners, trade qualification learners, work integrated learners in the proportion as specified in the Standard.

- (c) The successful contractor shall provide a supervisor to manage the training of the part/full occupational qualification learners, candidates.
- (d) The successful contractor shall submit to the employer's representative a baseline training plan in the specified format (Pro-forma A2) for the part/full occupational qualification candidates within 30 days of start of the contract.
- (e) The successful contractor shall submit to the employer's representative project interim report in the specified format (Pro-forma A3) on the progress of each of part/full occupational qualification candidate every three months.
- (f) The successful contractor shall submit to the employer's representative the names and particulars in the specified format (Pro-forma A4) of the supervisor, mentors for the part/full occupational qualification learner candidates within 30 days of start of the contract.
- (g) The successful contractor shall keep a daily record of all the part/full occupational qualification learners, trade qualification learners, work integrated learners, candidates on site and their daily activities and shall be made available to the employer's representative on request.
- (h) The successful contractor shall submit to the employer's representative the reports on the progress and status of the part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates with the monthly invoice for the payment certificate.
- (i) The successful contractor shall have health and safety inductions for all part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates.
- (j) The successful contractor shall conduct entry and exit medical tests of all part/full occupational qualification learners, trade qualification learners, work integrated learners or.
- (k) The successful contractor shall provide personal protective equipment (PPE) to all part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates at the start of their employment on site.
- (l) Based on the agreed skills methods the contractor may employ part/full Occupational Qualification Learners and /or Trade Qualification Learners and/or Work Integrated Learners and/or Candidates directly or through a Skills Development Agency (SDA), training provider or skills development facilitator (Form A1 - List of cidb accredited SDAs). The contractor shall ensure that no more than one Method shall be applied to any individual concurrently in the calculation of the CSDG for the contract.

C3.6.7 NATIONAL YOUTH SERVICE TRAINING AND DEVELOPMENT PROGRAMME (NYS)

The National Youth Service Training and Development Programme is "*applicable*" to this project.

The programme shall be implemented in terms of the Implementation of the National Youth Service Programme under the Expanded Public Works (EPWP) and shall be priced in the CPG section of the Bills of Quantities. Monthly reports are to be submitted to the Employer's Representative.

Failure by the contractors to achieve the specified number to be trained in the NYS section of the CPG section within the Bills of quantities will result in a Payment reduction as per bill of quantities per person, excluding VAT, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

C3.6.8 LABOUR-INTENSIVE WORKS

Labour Intensive Works is "*applicable*" to this project.

Any reference to words "Bid" or Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 8 blows of a dynamic cone penetrometer is required to penetrate 100mm;

Note

- 1) A boulder is material with a particle size greater than 200mm, a cobble and gravel is material between 60 and 200mm.
- 2) A dynamic cone penetrometer is an instrument used to measure the in-situ shear resistance of a soil comprising a drop weight of approximately 10 kg which falls through a height of 400mm and drives a cone having a maximum diameter of 20mm (cone angle of 60° with respect to the horizontal) into the material being used.

GRANULAR MATERIALS		COHESIVE MATERIALS	
CONSISTENCY	DESCRIPTION	CONSISTENCY	DESCRIPTION
Very loose	Crumbles very easily when scraped with a geological pick.	Very soft	Geological pick head can easily be pushed in as far as the shaft of the handle.
Loose	Small resistance to penetration by sharp end of a geological pick.	Soft	Easily dented by thumb; sharp end of a geological pick can be pushed in 30-40 mm; can be moulded by fingers with some pressure.
Medium dense	Considerable resistance to penetration by sharp end of a geological pick.	Firm	Indented by thumb with effort; sharp end of geological pick can be pushed in up to 10 mm; very difficult to mould with fingers; can just be penetrated with an ordinary hand spade.
Dense	Very high resistance to penetration by the sharp end of a geological pick; requires many blows for excavation.	Stiff	Can be indented by thumb-nail; slight indentation produced by pushing geological pick point into soil; cannot be moulded by fingers.
Very dense	High resistance to repeated blows of a geological pick.	Very stiff	Indented by thumb-nail with difficulty; slight indentation produced by blow of a geological pick point.

Trench excavation

All hand excavateable material in trenches having a depth of less than 1,5 metres shall be excavated by hand.

Compaction of backfilling to trenches (areas not subject to traffic)

Backfilling to trenches shall be placed in layers of thickness (before compaction) not exceeding 100mm. Each layer shall be compacted using hand stampers;

- a) to 90% Mod AASHTO;
- b) such that in excess of 5 blows of a dynamic come penetrometer (DCP) is required to penetrate 100 mm of the backfill, provided that backfill does not comprise more than 10% gravel of size less than 10mm and contains no isolated boulders, or

c) such that the density of the compacted trench backfill is not less than that of the surrounding undisturbed soil when tested comparatively with a DCP.

Excavation

All excavateable material including topsoil classified as hand excavateable shall be excavated by hand. Harder material may be loosened by mechanical means prior to excavation by hand. Any material which presents the possibility of danger or injury to workers shall not be excavated by hand.

Clearing and grubbing

Grass and bushes shall be cleared by hand.

Shaping

All shaping shall be undertaken by hand.

Loading

All loading shall be done by hand. Haulage equipment should be selected in a manner that allows loading by hand to the greatest extent possible.

Haul

Excavation material shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150m.

Offloading

All material, however transported, is to be off-loaded by hand, unless tipper-trucks are utilised for haulage.

Spreading

All material shall be spread by hand.

Compaction

Small areas may be compacted by hand provided that the specified compaction is achieved. Appropriate rollers should be used where higher (than can be achieved by hand) levels of compaction are required or for large areas.

Grassing

All grassing shall be undertaken by sprigging, sodding, or seeding by hand.

Stone pitching and rubble concrete masonry

All stone required for stone pitching and rubble concrete masonry, whether grouted or dry, must to be collected, loaded, off loaded and placed by hand.

Sand and stone shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150m.

Grout shall be mixed and placed by hand.

Manufactured Elements

Elements manufactured or supplied by the Contractor, such as manhole rings and cover slabs, precast concrete planks and pipes, masonry units and edge beams shall not individually, have a mass of more than 320kg. Where the mass of an element exceeds 55 kg, consideration should be given to the size of the element relative to its total mass related to the number of workers who would be needed to lift such mass

C3.7 Submission of Accrual Reports

The Contractor shall submit accrual reports to the client representative at the end of March and September each year for the duration of the Service Contract period from the date of appointment up to and including project closeout. This is to ensure that PMTE complies with the accounting framework GRAP, which requires that PMTE disclose all its accruals as at the end of each reporting date.

C3.8 Submission of Monthly Local Material Utilisation Report (Local Content)

The contractors shall be responsible for record keeping, documenting and submission of monthly local material utilization report with supporting documentation to the Employer's representative within 7 working days of the beginning of the successive month, in terms of DTI&C designated industry/sector/sub-sector schedule as per the PA36 and Annexures C attached to the tender document. The final percentage achievement to be reconciled upon completion of the project and form part of the final account. Failure by the contractors to achieve the specified percentage of local content per designated industry/sector/sub-sector as listed will result in a thirty percent thirty percent (30%) penalty of the value not achieved, excluding VAT, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

Examples of calculating CPGs and related penalties

CPGs values are based on the Tender Amount at the time of the award. Determining the actual values is based either on the Tender Amount including allowances and Vat or the Tender Amount at the time of award excluding allowances and VAT, where Allowances include the following:

- Provisional amounts
- CPG allowances
- Nominated and/or selected subcontractors
- Contract price adjustment (Not provided for within the B of Q by NDPWI)
- Contingency amounts (Not provided for within the B of Q by NDPWI)

CPG values in the CPG Bill of Quantities Section will be recalculated based on the “Tender Amount” or the “Contract Amount” which ever applicable and the provisional amounts adjusted accordingly. Sanctions (penalties) are applicable to all CPGs where the contractor fails to achieve the minimum specified requirements, unless the contractor can prove to the Employer’s satisfaction that the non-achievement was beyond his/her control. No penalties will be applied should the CPG value, based on the original “Tender Amount” or the “Contract Amount”, has been achieved.

1.1. 30% SMME mandatory subcontracting CPG

When applicable, a minimum of 30% of the total tender amount at the time of award, including all allowances and VAT are to be subcontracted to SMMEs.

CPG calculation example:

“Tender Amount” = R150 mil

CPG 30% subcontracting value = R45 Mil

Calculation of penalty:

Percentage penalty applicable = 5% as specified in the Scope of Works (PG01.2)

CPG Achieved = R30 Mil (R15 Mil shortfall)

Penalty = R15 Mil x 5% = R750 000 Excl. VAT

1.2 Targeted Local Building Material Manufacturers CPG

When applicable, the CPG is expressed as a percentage of the “Contract Amount”, i.e. the Tender Amount at the time of award excluding allowances and VAT.

CPG calculation example:

“Tender Amount” = R150 Mil all inclusive of allowances and VAT

“Contract Amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)

CPG to be achieved = 5% as specified in the Scope of Works (PG01.2)

CPG target value = R130 Mil x 5% = R 6,5 Mil (Value of material to be purchased from local manufacturers, excluding VAT)

Calculation of penalty:

Percentage penalty applicable = 10% as specified in the Scope of Works (PG01.2)

CPG target value = R6,5 Mil excluding VAT

CPG Achieved = R5,5 Mil (R1 Mil shortfall) excluding VAT

Penalty = R1 Mil x 10% = R100 000 excluding VAT

1.3 Targeted Local Building Material Suppliers CPG

When applicable, the CPG is expressed as a percentage of the “Contract Amount”, i.e. the Tender Amount at the time of award excluding allowances and VAT.

CPG calculation example:

“Tender Amount” = R150 Mil all inclusive of allowances and VAT

“Contract Amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)

Any reference to words “Bid” or Bidder” herein and/or in any other documentation shall be construed to have the same meaning as the words “Tender” or “Tenderer”.

CPG to be achieved = 5% as specified in the Scope of Works (PG01.2)
CPG target value = R130 Mil x 5% = R 6,5 Mil (Value of material to be purchased from local suppliers, excluding VAT)

Calculation of penalty:

Percentage penalty applicable = 20% as specified in the Scope of Works (PG01.2)
CPG target value = R6,5 Mil excluding VAT
CPG Achieved = R5,5 Mil (R1 Mil shortfall) excluding VAT
Penalty = R1 Mil x 20% = R200 000 excluding VAT

1.4 Targeted Local Labour Skills Development CPG

When applicable, the CPG is expressed as a percentage of the total number working days required to complete the Works.

CPG calculation example:

“Tender Amount” = R150 Mil all inclusive of allowances and VAT
“Contract amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)
Number of working days required to complete the Works based on the construction period = 600 days
CPG percentage participation to be achieved = 30% as specified in the Scope of Works (PG01.2)
Required number of working days training to be provided = 180 days (600 x 30%)

Calculation of penalty:

Payment reduction = R 5 000 per day for not providing training as specified in the Scope of Works (PG01.2)
CPG = 600 working days x 30% = 180 working days training to be provided
CPG Achieved = 160 days (20 days shortfall where no training was provided)
Penalty = 20 days x R5 000 payment reduction per day= R100 000 excluding VAT

1.5 National Youth Service Programme (NYS) CPG

When applicable, a separate NYS Bill of Quantities will be included in the tender documentation will indicate the number of beneficiaries to be trained.

Calculation of penalty:

Payment reduction per person not trained as stipulated in the NYS Bill of Quantities = R 2 500 per person.
Total number of NYS Beneficiaries as stipulated in the NYS Bill of Quantities = 25
Total Number of NYS beneficiaries trained = 20 (shortfall of 5 beneficiaries)
Penalty = 5 x R2 500 = R12 500 Excl. VAT

1.6 Labour Intensive Works CPG

When applicable, the work to be done by way of Labour intensive methods are specified in the Bills of Quantities with a “LI”.

CPG calculation example:

“Tender Amount” = R150 Mil all inclusive of allowances and VAT
“Contract Amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)
CPG value = R10 Mil (Total value of labour-intensive works specified in the Bills of Quantities)

Calculation of penalty:

CPG value = R10 Mil
Percentage penalty applicable = 30% as specified in the Scope of Works (PG01.2)
CPG Achieved = 9 Mil (R1 Mil shortfall)
Penalty = R1 Mil x 30% = R300 000 Excl. VAT

1.7 Cidb BUILD Programme: Enterprise Development

When applicable, the Enterprise Development CPG expressed as a percentage of the “Contract amount” =

Tender amount at the time of award excluding allowances and VAT. Failure to achieve the minimum Targeted Local Labour Skills Development CPG will result in a payment reduction of an amount specified in the Scope of Works (PG01.2) per working day where training was not provided.

The monetary value of training to be provided is stipulated in the CPG BoQ section. The number of beneficiaries to be trained is dependent on the “Contract Amount” as well the number of beneficiaries appointed which will generally resort under the Grade 1 and 2 cidb categories. The provisional amount will therefore be adjusted in terms of the “contract Amount”, the number of beneficiaries to be trained and the actual cost for providing the training.

Part 1: Calculation of 5% CPG example:

“Tender Amount” = R150 Mil all inclusive of allowances and VAT

“Contract Amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)

CPG percentage participation to be achieved = 5% as specified in the Scope of Works (PG01.2) CPG

value = R6,5 Mil (Value of work to be subcontracted to emerging enterprises)

Calculation of penalty

Percentage penalty applicable = 30% as specified in the Scope of Works (PG01.2)

CPG Minimum 5% = R6,5 Mil

Achieved = R5,5 Mil (Only subcontracted work to the value of R5,5 Mil, i.e. R1 Mil shortfall)

Penalty = R1 Mil x 30% = R300 000 Excl. VAT

Part 2: Calculations in terms of training to be done:

The number of enterprises to be developed is subject to the contract amount and the apportionment of the work as per Example 1 below.

Number of enterprises to be trained = 6 x 1 GB subcontractors

Total cost for training = R 1 660 000

Calculation of penalty

Total number of enterprises to be trained = 6

Total number trained = 4 (2 Shortfall)

Training cost per beneficiary = R1 660 000 / 6 = R 276 666,67 per beneficiary

Penalty = R 276 666,67 x 2 x 30% = R166 000 Excl. VAT

B of Q Item	Description	Unit	Rate	Quantity	Amount (R)
5	Enterprise Development				
5.1	Enterprise Development of Targeted Enterprise or JV partners				
5.1.1	Appointment of training co-ordinator	Per Quarter	45 000	8	360 000
5.1.2	Appointment of Mentor /Training Service provider	Per Quarter	135 000	8	1 080 000
5.1.3	Needs Analysis and Enterprise Development Plan per Targeted Enterprise	No.	5 000	6	30 000
5.1.4	Monitoring and Interim reporting per targeted enterprise	Per Quarter	20 000	8	160 000
5.1.5	Project Completion report per Targeted Enterprise	No.	5 000	6	30 000
	Provisional Sum to be carried over to CPG bill of quantities				1 660 000

“Contract amount” Tender amount excl. allowances and VAT, 130 000 000

CPG Monetary value (5%) to be subcontracted to beneficiaries for training 6 500 000

No of enterprises based on the CPG value 6 Grade 1 / 2 GB/CE,ETC.

Contract period (months) 24

Note: Rates to be determined by PQS and adjusted to accepted quotation amounts

1.8 Cidb BUILD Programme: Skills Development (Principal contractor including subcontractors and consultants)

When applicable, the contract skills development participation goals, expressed in Rand, shall be no less than the “contract amount” multiplied by a percentage (%) factor for the applicable class of

construction works.

The monetary value of training to be provided is stipulated in the CPG BoQ section. The number of beneficiaries to be trained is dependent on the “Contract Amount” as well the number of beneficiaries appointed which will generally resort under the Grade 1 and 2 cidb categories. The provisional amount will therefore be adjusted in terms of the “Contract Amount”, the number of beneficiaries to be trained from which *Method* and the actual cost for providing the training.

CPG Calculation

Table 2: Contracting skills development goals for different classes of engineering and construction works contracts

Source: cidb Standard for Developing Skills through Infrastructure Contracts as published in the Government Gazette Notice No. 43495 of 3 July 2020 (Page 7)

Class of construction works as identified in terms of Regulation 25 (3) of the Construction Industry Regulations 2004		Construction skills development goal (CSDG) (%)
Designation	Description	
CE	Civil Engineering	0.25
CE and GB	Civil engineering and General Building	0.375
EE	Electrical Engineering works (buildings)	0.25
EP	Electrical Engineering works (infrastructure)	0.25
GB	General Building	0.5
ME	Mechanical Engineering works	0.25
SB	Specialist	0.25

“Contract amount” = Tender amount at the time of award excluding allowances and expenses, and VAT

Contractor CPG:

CPG calculation

“Contract amount” x factor from Table 3 above.

CPG calculation example:

“Tender Amount” = R150 Mil for GB, all inclusive of allowances and VAT

“Contract Amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)

Factor for GB = 0,5% (as per Table 2 above)

CPG in R value = R130 Mil x 0,5% = R650 000 i.e. total cost of training to amount to R650 000

Calculation of penalty:

Percentage penalty applicable = 30% as specified in the Scope of Works (PG01.2)

CPG value = R650 000

Achieved = R550 000 = R100 000 Shortfall

Penalty = R100 000 x 30% = R30 000 Excl. VAT

Calculations based on “Contract Amount” after b5d award and after bid award and appointment of beneficiaries

Actual CPG training requirement value after award upon selecting method/s of training and appointment of beneficiaries = R676 000 (Table 4 below) and the provisional amount allowed for to be adjusted accordingly. The new monetary value of training required will then form the basis for determining penalties applicable. No penalties will be applied should the CPG value, based on the “Contract Amount” be achieved.

Table 4: Notional cost recalculation upon appointment of beneficiaries.

Source: cidb Standard for Developing Skills through Infrastructure Contracts as published in the Government Gazette Notice No. 43495 of 3 July 2020 (Page 10)

Skills Types	Number of learners	Notional Cost / Learner / Quarter	Notional cost / learner / year	Total Notional Cost over 12 months Contract
Method 2: Workplace learning opportunities, with unemployed TVET graduates	2	R23 000	R92 000	R184 000

Method 3: Candidacy for an unemployed learner with a 3-year qualification	2	R61 500	R246 000	R492 000
Total	4			R676 000

Note: the required CPG will be recalculated based on the awarded Tender amount and "Contract Amount" once the beneficiaries have been appointed and actual costs are known

Note: The notional cost of providing training opportunities will increase by CPI on an annual basis based on April CPI as published by Stats SA. The rates will be adjusted as an adjustment to the provisional amounts should the rates increase after bid award or during the construction period

Part C4: Site Information

C4 Site Information

PG-03.2 (EC) SITE INFORMATION – JBCC 2000 PRINCIPAL BUILDING AGREEMENT (EDITION 6.2 OF MAY 2018)

Project title:	<i>Joubertina Police Station ERF 1200: Repairs & Maintenance of Electrical, Mechanical, Civil & Structural Elements to the Complex: Completion of Contract 1.</i>				
Tender no:	PE25/2022	WCS no:	051843	Reference no:	19/2/4/2/2/6417/24

C4 Site Information

1. GENERAL

The Standard for Uniformity in Construction Procurement published in terms of the Construction Industry Development Board (CIDB) Act, 2000 (Act no. 38 of 2000), the Standardized Construction Procurement Documents for Engineering and Construction Works as issued by the CIDB and any other relevant documentation pertaining thereto must be studied and all principles in this regard must be applied to all procurement documentation, practices and procedures.

2. Site Information

The project only calls for upgrading and renovations. A formal geotechnical investigation was done, and the trial hole positions, and soil conditions was tabled in the Geotechnical report. From known information the water table is deep and excavation for footings and foundations for new walls and tank stand will not be problematic.

The area is calcrete and no loose sand is expected. Foundations where applicable will be average 600mm deep and footing sizes 750x250 for 230mm walls and 450x230 for 110mm internal walls. 125mm Thick reinforced surface beds on compacted fill where new foundations and new walls are required.

The setting out is indicated on the drawings.

The site is located in Joubertina.

The works comprise of renovations to the existing SAPS precinct at Joubertina SAPS. All existing buildings are constructed with brick and mortar with Metal roof sheets and one Building having asbestos roof sheets.

All buildings are existing and scope of works includes:

- Internal demolition of brickwork, alterations to existing ablution layout
- Upgrade / replacement to internal finishes, ceilings and fittings
- Removal of asbestos roof sheets and steel roof sheets installation of new roof sheets.
- new perimeter fencing
- new bulk earthworks, paving and access roads
- upgrade of the sewer reticulation
- upgrade of water storage tower

The health and safety specification clearly outlines the process for removal of the asbestos. The SAPS precinct will remain in operation for the full duration of the contract