



public works & infrastructure

Department:
Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA

REFERENCE NO. 19/2/4/2/2/6598/24

TENDER NO: MTH06/2025

**14 SAI BATTALION MTHATHA: UPGRADE OF FINANCE
ACCOUNTING SATELLITE OFFICE – COMPLETION OF WORKS:
CONTRACT NO. 2**

VOLUME 3

THE CONTRACT

ISSUED BY:

**DEPARTMENT OF PUBLIC WORKS
PRD II BUILDING
SUTHERLAND STREET
MTHATHA
5100
25270**

CONTACT PERSON:

**MR.L.D.YAKA
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DEPARTMENT OF PUBLIC WORKS
14 SAI BATTALION MTHATHA: UPGRADE OF FINANCE ACCOUNTING SATELLITE OFFICE – COMPLETION OF WORKS:
CONTRACT NO. 2
TENDER NO. MTH06/25

PART C1: Agreement and Contract Data

DEPARTMENT OF PUBLIC WORKS
14 SAI BATTALION MTHATHA: UPGRADE OF FINANCE ACCOUNTING SATELLITE OFFICE – COMPLETION OF WORKS:
CONTRACT NO. 2
TENDER NO. MTH06/25

C1.2 Contract Data

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

Project title:	14 SAI BATTALION MTHATHA: UPGRADE OF FINANCE ACCOUNTING SATELLITE OFFICE - COMPLETION OF WORKS: CONTRACT NO. 2
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Tender / Quotation no:	MTH06/2025	WCS no:	N/A	Reference no:	19/2/4/2/2/6598/24
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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

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A 2.0 Site [1.1]

Erf / stand number	
Site address	
Township / Suburb	
City / Town	
Province	
Local authority	
GPS Coordinates	

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	denis.yaka@dpw.gov.za	Telephone	047 - 502 7119
Postal address	Private Bag X5007 MTHATHA 5100		
Physical address	Corner of Durham and Sutherland Street PRD II Building 5 th Floor Mthatha, 5100		

A 3.2 Employer's representative:

Name	Mr. Jaap van Wyk	Telephone number	0437210186
E-mail	jaapvw@mariswe.com	Mobile number	0829262279
Postal address	Clevedon House 2 Clevedon Road Selborne East London, 5241		
Physical address	Clevedon Houses 2 Clevedon Road Selborne East London, 5241		

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A 4.0	Principal 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 5.0	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 6.0	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 7.0	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 8.0	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 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		

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".

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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 Copies of all relevant construction documentation – this to includes 1 priced Bills of Quantities and 2 unpriced Bills of Quantities)	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	
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%	Select
Or	Works with practical completion in sections [10.2] With a deductible not exceeding 5% of each and every claim	Contract sum plus 10%	Select
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%	Select
	Direct contractors [10.1.1; 10.2] where applicable, to be included in the contract works insurance	RPQS to determine value	Select
	Free issue [10.1.1; 10.2] where applicable, to be included in the contract works insurance	RPQS to determine value	Select
	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	Select
	Other insurances [10.1.5]		
	Hi Risk Insurance Refer B18.0 [10.1.5.1]	R PQS to determine value	Select
	Other insurances: If applicable, description 1:	R PQS to determine value	Select
	Other insurances; If applicable, description 2:	R PQS to determine value	Select

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B 7.0 Obligations of the employer [12.1]

Existing premises will be in use and occupied [12.1.2]	Select
If applicable, description:	
Restriction of working hours [12.1.2]	Select
If applicable, description:	
Natural features and known services to be preserved by the contractor [12.1.3]	Select
If applicable, description:	
Restrictions to the site or areas that the contractor may not occupy [12.1.4]	Select
If applicable, description:	
Supply of free issue of material and goods [12.1.10]	Select
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]

Select	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]

Select	If applicable, description of sections
Section 1	
Section 2	
Section 3	
Section 4	
Section 5	
Section 6	
Remainder of the 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 the time from the date of award (commencement date) 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	Select
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.	Select
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]	insert construction period as per B12.1 or N/A if Works in portions
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]	
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
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

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]	Select					
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 construction 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

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B 14.0 Defects liability period [21.0]

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

Select	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]	
Contract price adjustment / Cost fluctuations Refer [25.3.4; 26.9.5]	Select
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]		Select
Availability of construction information [P2.3]		Select
Previous work - dimensional accuracy - details of previous contract(s) [P3.1]		Select
Previous work - defects - details of previous contract(s) [P3.2]		Select
Inspection of adjoining properties - details [P3.3]		Select
Handover of site in stages - specific requirements [P4.1]		Select
Enclosure of the works - specific requirements [P4.2]		Select
Geotechnical and other investigations - specific requirements [P4.3]		Select
Existing premises occupied - details [P4.5]		Select
Services - known - specific requirements [P4.6]		Select
Water [P8.1]	By contractor	Select
	By employer	Select
	By employer – metered	Select
Electricity [P8.2]	By contractor	Select
	By employer	Select
	By employer – metered	Select
Ablution and welfare facilities [P8.3]	By contractor	Select
	By employer	Select
Communication facilities - specific requirements [P8.4]		Select
Protection of the works - specific requirements [P11.1]		Select
Protection / isolation of existing works and works occupied in sections - specific requirements [P11.2]		Select
Disturbance - specific requirements [P11.5]		Select
Environmental disturbance - specific requirements [P11.6]		Select

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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>
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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 C ompletion 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 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.	Select
(b)	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.	Select
(c)	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.	Select
(d)	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.	Select
(e)	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. 48491 of 28 April 2023. and the cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.	Select
(f)	DPWI National Youth Service training and development programme (NYS) – Condition of Contract.	Select
(g)	Labour Intensive Works – Condition of Contract.	Select
(h)		Select
(i)		Select

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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.

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

Tender / Quotation no: MTH06/2025

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**.

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

Tender / Quotation no: MTH06/2025

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	<p>Where the detailed breakdown of preliminaries amounts for Option B is not provided, Option A shall apply</p>

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.

DEPARTMENT OF PUBLIC WORKS
14 SAI BATTALION MTHATHA: UPGRADE OF FINANCE ACCOUNTING SATELLITE OFFICE – COMPLETION OF WORKS:
CONTRACT NO. 2
TENDER NO. MTH06/25

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

Insert name
Private Bag **insert no**
insert town
insert postal code

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: **insert Contract / Tender No**, for the **insert description of works** (hereinafter referred to as the “contract”) in the amount of R **insert amount, (insert amount in words)**, (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 **insert amount, (insert amount in words)** 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: **MTH06/2025**

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: _____

DEPARTMENT OF PUBLIC WORKS
14 SAI BATTALION MTHATHA: UPGRADE OF FINANCE ACCOUNTING SATELLITE OFFICE – COMPLETION OF WORKS:
CONTRACT NO. 2
TENDER NO. MTH06/25

PART C2: Pricing Data

DEPARTMENT OF PUBLIC WORKS
14 SAI BATTALION MTHATHA: UPGRADE OF FINANCE ACCOUNTING SATELLITE OFFICE – COMPLETION OF WORKS:
CONTRACT NO. 2
TENDER NO. MTH06/25

C2.1 Pricing Instructions

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

Project title:	14 SAI BATTALION MTHATHA: UPGRADE OF FINANCE ACCOUNTING SATELLITE OFFICE – COMPLETION OF WORKS: CONTRACT NO. 2				
Tender / Quotation no:	MTH06/2025	WCS No:	N/A	Reference no:	19/2/4/2/2/6598/24

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.

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

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

Should the bills of quantities / lump sum document be a fixed price contract, the following clause must be retained in the Pricing Assumptions. (Delete this instruction and the following clause if a fixed price contract is applicable)

Tenderers are to take note that contract price adjustments **are not applicable** to this contract. Tenderers should therefore make provision in the **contract sum**, schedule of rates, etc., for possible price increases during the contract period, as no claims in this regard shall be entertained.

Should the bills of quantities / lump sum document not be a fixed price contract, the following clause must be inserted in the Pricing Assumptions. (Delete this instruction if a fixed price contract is applicable, or delete item in total if not a 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.

Ensure that the applicability of CPAP is indicated in the Contract Data DPW04 (Delete this instruction)

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 SUBMISSION OF LOCAL MATERIAL UTILISATION REPORT (LOCAL CONTENT)

Submission of Local Material Utilisation Reports is *insert "applicable" or "not applicable" to this project.*

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

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 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, indicating the percentage targets achieved 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. 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 CONTRACT PARTICIPATION GOALS

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

Prescribed Profit and Attendance percentages have been stipulated, all inclusive of associated costs to the contractor for implementation and allowance for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

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 TARGETED LOCAL BUILDING MATERIAL MANUFACTURERS CONTRACT PARTICIPATION GOAL

The Minimum Targeted Local Building Material Manufacturers CPG is *insert "applicable" or "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 C3.6.1. Prescribed Profit and Attendance percentages have been stipulated, all inclusive of associated costs to the contractor for implementation and allowance 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 SUPPLIERS CONTRACT PARTICIPATION GOAL

The Minimum Targeted Local Building Material Suppliers CPG is *insert "applicable" or "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 C3.6.2. Prescribed Profit and Attendance percentages have been stipulated, all inclusive of associated costs to the contractor for implementation and allowance 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 LABOUR CONTRACT PARTICIPATION GOAL

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

The Minimum Targeted Local Labour Skills Development CPG is *insert "applicable" or "not applicable"* to this project.

Provision is made within the Contract Participation Goal section in the Bill of Quantities for the Minimum Targeted Local Labour CPG in the execution of this project as described in PG-01.2 (EC) SCOPE OF WORKS C3.6.3. Prescribed Profit and Attendance percentages have been stipulated, all inclusive of associated costs to the contractor for implementation and allowance 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 ENTERPRISE DEVELOPMENT CONTRACT PARTICIPATION GOAL

The Minimum Targeted Enterprise Development Contract Participation Goal is *insert "applicable" or "not 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 C3.6.4. The provisional amount allowed is for the appointment of training coordinator, mentor, training service providers and training of the beneficiary enterprises. The provisional amount will be adjusted in accordance with the actual Contract Amount (Awarded tender amount excluding allowance, provisional amounts and VAT) of the awarded bid.

Prescribed Profit and Attendance percentages have been stipulated, all inclusive of associated costs to the contractor for implementation and allowance 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.

C2.1.11.5 MINIMUM TARGETED TARGETED CONTRACT SKILLS DEVELOPMENT GOALS (CSDG)

The Minimum Targeted Contract Skills Development CPG is *insert "applicable" or "not 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 C3.6.5. 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

The provisional amount will be adjusted in accordance with the actual Contract Amount (Awarded tender amount excluding allowance, provisional amounts and VAT) of the awarded bid.

Prescribed Profit and Attendance percentages have been stipulated, all inclusive of associated costs to the contractor for implementation and allowance for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

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

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.

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 2 of the Standard.

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 48491 Government Gazette, 23 April 2023 (Table 2, 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

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.

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

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.

The contractor shall apportion the cost of accommodating work integrated learners (P1 and P2 learners) and candidates for professional registration by using Table 3 in the Standard and this cost will be used to determine the Rand value and will be used in determining the contract participation goal in the Bills of Quantities.

Table 3: The notional cost of providing training opportunities per quarter

Source: cidb Standard for Developing Skills through Infrastructure Contracts as published in the Government Gazette Notice No 48491 Government Gazette, 23 April 2023 (table 3, Page 9)

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 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 provisional item.

Example: Training Target Calculation for a R65,7m GB contract

Contract amount	R65 700 000
Contract duration	12 Months
CSDG	0,50%
Minimum CSDG target	0,50% x R65 700 000 = R328 500 (Minimum requirement)

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	1	R23 000	R92 000	R92 000

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

Method 3: Candidacy for an unemployed learner with a 3-year qualification	1	R61 500	R246 000	R246 000
Total	2			R338 000

C2.1.11.6 NATIONAL YOUTH SERVICE TRAINING AND DEVELOPMENT PROGRAMME

The National Youth Service Training and Development Programme is *insert "applicable" or "not 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.

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 C3.6.6.

Prescribed Profit and Attendance percentages have been stipulated, all inclusive of associated costs to the contractor for implementation and allowance for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

C2.1.11.7 LABOUR-INTENSIVE WORKS

Labour Intensive Works is *insert "applicable" or "not 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. Provision has been made within the Contract Participation Goal section in the Bill of Quantities for the monthly reporting illustrating the value of the works executed under Labour Intensive Works CPG in the execution of this project as described in PG-01.2 (EC) SCOPE OF WORKS C3.6.7 and any other supplementary specifications.

Prescribed Profit and Attendance percentages have been stipulated, all inclusive of associated costs to the contractor for implementation and allowance 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 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.

DEPARTMENT OF PUBLIC WORKS
14 SAI BATTALION MTHATHA: UPGRADE OF FINANCE ACCOUNTING SATELLITE OFFICE – COMPLETION OF WORKS:
CONTRACT NO. 2
TENDER NO. MTH06/25

PART C3: Scope of Work

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

Project title:	14 SAI BATTALION MTHATHA: UPGRADE OF FINANCE ACCOUNTING OFFICE – COMPLETION OF WORKS: CONTRACT NO. 2		
Tender / Quotation no:	MTH06/2025	Reference no:	19/2/4/2/2/6598/24

C3. Scope of Works

C3.1 EXTENT OF THE WORKS

The Employers objective is to complete the planned upgrades (enhancement of amenities and security measures) to the existing finance accounting office at the 14 SAI Military Base in Mthatha, abandoned by a previous contractor, so that the facility can be put back into service.

The accounting office comprises of 2 cashiers offices, 1 toilet, 1 strong room and a general public area, the total floor area of which in 55m².

The works include building, electrical and security installation works and entails the assessment of works undertaken by others, and completion of the outstanding works, commissioning of the complete installation and upholding the works over a 3-months defects liability period.

The building works typically includes brickwork, plastering, painting, ironmongery, joinery, carpentry, glazing and floor coverings.

The electrical works typically includes completion of electrical wiring, installation of isolators for AC units, issuing of CoC for DB board installed by others, installation of data cabling and commissioning of all works.

The security installation works includes the installation of an access control system, the completion of the alarm system and CCTV systems, as well as commissioning of completed installations.

Building works

- Repairs to bullet-proof windows (by specialist supplier):
 - Repair scratches on BPW2. Window also to be removed and re-installed correctly (turned around). If irreparable, replacement of window;
 - Replace cracked bullet-proof window (BPW1);
 - Removed and re-install correctly (turned around) bullet-proof window (BPW3). If irreparable, replacement of window;
- Replacement of one external and two internal doors and frames with security doors and frames;
- Installation new lock mechanism to strong room door (keys lost) – by specialist locksmith;
- Removal of lock opening protection cover from strong room door and repair paintwork;
- Installation of two (inner and outer) ventilation blocks covers (similar to existing) to the square ventilation opening to the strong room;
- Repairs of cracks in walls prior to painting;
- Painting of both exterior and interior walls and ceilings;
- Epoxy painting of strong room floor and floor of access area in front of strong room;
- Varnishing of all wood works (wooden doors);
- Varnishing of parts of face bricks to match with the existing;
- Installation of toilet roll holder, mirror (600mm x 400mm) and air freshener spray holder) to toilet cubicle.

- Replacement of wooden counter tops with 32mm marble counter tops.
- Installation of new lockable access trap door (600mm x600mm) in ceiling.

Electrical Works

- Assess, undertake works as required and issue CoC for new DB board installed by others;
- Repairs to interior lights;
- Completion of installation of isolators for the AC units;
- Servicing of AC units
- Inspection and completion of electrical wiring as required;
- Placing of installed data cabling into power skirtings or conduits; and
- Installation of UPS unit
- Installation of ventilation louvres, grills and ducts and extractor fan to bathroom.
- Commissioning of all installed works.

Security Installation Works

- Installation of access control equipment;
- Completion of alarm system installed by others;
- Completion of CCTC works installed by others; and
- Commissioning of all installed works.

C3.2 ORDER OF THE WORKS

Describe any procedure affecting the sequence of construction or other activities.

Contract details for the works in sections, if applicable, must be inserted in clause B11 and B12 of form DPW-04 (EC): Contract Data. ***(Delete this instruction)***

C3.3 BUILDINGS OCCUPIED

Describe any specific restrictions with regard to buildings in use.

Specific requirements must be described in clause B17 of form DPW-04 (EC): Contract Data. and the Schedule of Variables, Section B, JBCC Preliminaries. ***(Delete this instruction)***

C3.4 ACCESS

The 14 SAI Military Base is located some 12 km west of Mthatha, off the R61, in the King Sabata municipal area of the O. R. Tambo District Municipality in the Eastern Cape Province.

The base can be accessed by turning south off the R61, opposite the turn-off to the Mthatha airport, and travelling 1.5km to the entrance to the base. The accounting office is located adjacent of the main administrative building in the base.

The co-ordinate of the base are as follows:

Latitude: 28.650963

Longitude: -31.567392

The layout of the base and its associated facilities, as well as that of the accounting office, are indicated on the drawings. A locality map is contained in Section C4 of this document.

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
- 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 CIDB Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts, No. 41237 Government Gazette, 10 November 2017
- C3.5.5 CIDB Standard for Minimum Requirements for Engaging Contractors and Sub-Contractors on 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. 42021 Government Gazette, 9 November 2018
- C3.5.7 CIDB Standard for Developing Skills through Infrastructure Contracts, No 48491 Government Gazette, 23 April 2023.

C3.6 **CONTRACT PARTICIPATION GOALS AND CIDB BUILD PROGRAMME – SEE ATTACHED PAGE**

Provision has been made within the Contract Participation Goal section in the Bill of Quantities for the respective CPGs. Prescribed Profit and Attendance percentages have been stipulated, all inclusive of associated costs to the contractor for implementation and allowance for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

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.

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

C3.6.1 Minimum Targeted Local Material Manufacturer Contract Participation Goal

The Minimum Targeted Local Building Material Manufacturers CPG is *insert "applicable" or "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 the King Sabata Dalindyebo Local Municipality, within the O.R.Tambo District Municipality, in the Eastern Cape, 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 specified value as indicated in the CPG Bill of Quantity Section for Targeted Local Material Manufacturer participation will result in a **thirty percent (30%)** 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 contractor shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

Note to PM: Note to PM: A feasibility study must be undertaken at project level to verify that the contract participation goal can realistically be achieved within the targeted area. Such feasibility study shall be included in the specifications. Guidelines for undertaking a feasibility study are given in Appendix A of Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts No. 41237 GOVERNMENT GAZETTE, 10 November 2017. The above example may be used if the project is located in a relatively small town. The percentage is determined by introducing the project to the local community at least one year in advance whilst planning is completed and then again at least two months prior to tender to establish the local capacity of suppliers in conjunction with the local Business Forums, Contractor Forums, Councillors and Community Leaders. If the project is in a large city one could also specify the ward/s which must take preference which is generally the ward or wards closest to where the project is being executed. The percentage penalty is project specific which must be guided by the value and complexity of the project, and should be realistic. (Delete this instruction)

C3.6.2 Minimum Targeted Local Building Material Suppliers Contract Participation Goal

The Minimum Targeted Local Building Material Suppliers CPG **is insert "applicable" or "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 **King Sabata Dalindyebo Local Municipality, within the OR Tambo District Municipality, Eastern Cape.** **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 kilometers** 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 kilometers** of the project site.

Failure to achieve the minimum specified value as indicated in the CPG Bill of Quantity Section for Targeted Local Material Manufacturer participation will result in a **thirty percent (30%)** 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.

Note to PM: Note to PM: A feasibility study must be undertaken at project level to verify that the contract participation goal can realistically be achieved within the targeted area. Such feasibility study shall be included in the contract data. Guidelines for undertaking a feasibility study are given in Appendix A of Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts No. 41237 GOVERNMENT GAZETTE, 10 November 2017. The above example may be used if the project is located in a relatively small town. The percentage is determined by introducing the project to the local community at least one year in advance whilst planning is completed and then again at least two months prior to tender to establish the local capacity of suppliers in conjunction with the local Contractor Forums, Councillors and Community Leaders. If the project is in a large city one could also specify the ward/s which must take preference which is generally the ward or wards closest to where the project is being executed. The percentage penalty is project specific which must be guided by the value and complexity of the project, and should be realistic. (Delete this instruction)

C3.6.3 Minimum Targeted Local Labour Skills Development Contract Participation Goal

The Minimum Targeted Local Labour Skills Development CPG is **insert "applicable" or "not 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 **King Sabata Dalindyebo Local Municipality, within the OR Tambo District Municipality, Eastern Cape.insert applicable Ward/s, Municipal District, Town, City, Province** 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 **insert number of working days as determined by the Construction Period** working days. The minimum CPG participation for Targeted Local Labour Skills Development is **insert applicable percentage, both in words and figures**, 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.

Note to PM: Note to PM: A feasibility study must be undertaken at project level to verify that the contract participation goal can realistically be achieved within the targeted area. Such feasibility study shall be included in the contract data. Guidelines for undertaking a feasibility study are given in Appendix A of Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts No. 41237 GOVERNMENT GAZETTE, 10 November 2017. The above example may be used if the project is located in a relatively small town. The percentage is determined by introducing the project to the local community at least one year in advance whilst planning is completed and then again at least two months prior to tender to establish the local capacity of suppliers in conjunction with the local Contractor Forums, Councillors and Community Leaders. If the project is in a large city one could also specify the ward/s which must take preference which is generally the ward or wards closest to where the project is being executed. The percentage penalty is project specific which must be guided by the value and complexity of the project and should be realistic. (Delete this instruction)

C3.6.4 CIDB BUILD PROGRAMME: Minimum Targeted Enterprise Development Contract Participation Goal

The Minimum Targeted Enterprise Development Contract Participation Goal is **insert "applicable" or "not 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 **insert percentage Min 5% and Max 30%** 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 insert percentage Min 5% and Max 30%** 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 7 to 9, General Building and Civil Engineering contracts. Preference will be given to **insert type of enterprises, e.g. General Building, Electrical, Mechanical, Plumbing, etc. .It could be either or any combination of all Enterprises.**

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.

Note to PM: Specify preferred Enterprises based on discussions with the local contractor forums, Community leaders and councillors. A feasibility study must be undertaken at project level to verify that the contract participation goal can realistically be achieved within the targeted area. Such feasibility study shall be included in the contract data. Guidelines for undertaking a feasibility study are given in Appendix A of Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts No. 41237 GOVERNMENT GAZETTE, 10 November 2017 (Delete this instruction)

C3.6.4.1 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.

C3.6.4.2 Management

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

C3.6.4.3 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

C3.6.4.4 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)*.

C3.6.4.5 The Key Personal

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

C3.6.4.6 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.

C3.6.4.7 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

C3.6.4.8 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.

C3.6.4.9 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.

C3.6.4.10 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)

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

The Minimum Targeted Contract Skills Development CPG is *insert "applicable" or "not 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 48491 of 23 April 2023 and the 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.

C3.6.5.1 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.

The contract skills participation goals, expressed in Rand, shall not be less than the contract amount multiplied by a percentage (%) factor given in Table 1 in the Standard for the applicable class of Construction works.

Table 1: 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 2 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 2: 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 remeasurable item.

- (a) The successful contractor may employ part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates ~~(delete that which is not applicable)~~ 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 **insert applicable percentage, both in words and figures** from eligible part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates ~~(delete that which is not applicable)~~ 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 **insert applicable number, both in words and figures** Occupational qualifications, trade qualification, work integrated learners – P1 and P2 learners, professional candidates. ~~(Delete that which is not applicable)~~

C3.6.5.2 Management

- (a) The successful contractor must keep site records regarding the part/full occupational qualification learners', trade qualification learners', work integrated learners' or candidates' ~~(delete that which is not applicable)~~ 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 part/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, trade qualification learners, work integrated learners, candidates. ~~(delete that which is not applicable)~~
- (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 learners, trade qualification learners, work integrated learners, candidates ~~(delete that which is not applicable)~~ 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 learner, trade qualification learner, work integrated learner, candidate ~~(delete that which is not applicable)~~ 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 learners, trade qualification learners, work integrated learners or candidates ~~(delete that which is not applicable)~~ 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 ~~(delete that which is not applicable)~~ 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 ~~(delete that which is not applicable)~~.
- (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 candidates ~~(delete that which is not applicable)~~.
- (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 ~~(delete that which is not applicable)~~ 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 ~~(delete that which is not applicable)~~ 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.

Note to PM: Note to PM: A feasibility study must be undertaken at project level to verify that the contract participation goal can realistically be achieved within the targeted area. Such feasibility study shall be included in the contract data. Guidelines for undertaking a feasibility study are given in

Appendix A of Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts No. 41237 GOVERNMENT GAZETTE, 10 November 2017

C3.6.6 NATIONAL YOUTH SERVICE TRAINING AND DEVELOPMENT PROGRAMME (NYS)

The National Youth Service Training and Development Programme is **insert "applicable" or "not 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.

C3.6.7 LABOUR-INTENSIVE WORKS

Labour Intensive Works is **insert "applicable" or "not applicable" to this project.**

Where labour intensive work is specified in the Bill of Qualities and specified 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.

Failure by the contractor to achieve the specified value of the Labour Intensive Participation Goal as stipulated within the Bills of Quantities will result in a **thirty percent (30%)** penalty of the value of the works not done by means of labour intensive methods, excluding VAT, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

Employer's objectives:

The employer's objectives are to deliver public infrastructure using labour-intensive methods in accordance with EPWP Guidelines.

Labour-intensive works:

Labour-intensive works shall be constructed/maintained using local workers who are temporarily employed in terms of the scope of work.

Labour-intensive competencies of supervisory and management staff:

Contractors shall only engage supervisory and management staff in labour-intensive works that have completed the skills programme including Foremen/ Supervisors at NQF level 4 "National Certificate: Supervision of Civil Engineering Construction Processes" and Site Agent/ Manager at NQF level 5 "Manage Labour-Intensive Construction Processes" or equivalent QCTO qualifications (See Appendix C) at NQF outlined in Table 1.

C3.6.7.1 GENERIC LABOUR-INTENSIVE SPECIFICATION

Should labour-intensive works be applicable to the contract the following Generic Labour-intensive Specification (informed by SANS 1921-5, Construction and management requirements for works contracts - Part 5: Earthworks) which covers activities which are to be performed by hand, should be inserted in the Scope of Works without amendment or modification as set out below.

Contractors are referred to the Guidelines for the Implementation of Labour-intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP) for the generic labour-intensive specification applicable to the contract.

This specification establishes general requirements for activities which are to be executed by hand involving the following:

- trenches having a depth of less than 1.5 metres
- stormwater drainage
- roads
- sidewalks and non-motorised transport infrastructure
- water and sanitation

Precedence

Where this specification is in conflict with any other standard or specification referred to in the Scope of Works to this Contract, the requirements of this specification shall prevail

Hand excavatable material

Hand excavatable material is:

a) granular materials:

- i) whose consistency when profiled may in terms of Table 3 be classified as very loose, loose, medium dense, or dense; or
- ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 15 blows of a dynamic cone penetrometer is required to penetrate 100mm;

b) cohesive materials:

- i) whose consistency when profiled may in terms of Table 3 be classified as very soft, soft, firm, stiff and stiff / very stiff; or
- 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.

Table 3: Consistency of materials when profiled			
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;	Stiff	Can be indented by thumb-nail; slight indentation produced by pushing geological pick

	requires many blows for excavation.		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 excavatable 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 cone 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 excavatable material including topsoil classified as hand excavatable 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)

Submission of Monthly Local Material Utilisation Report (Local Content) *insert "applicable" or "not applicable" to this project.*

The Contractor shall when applicable to this project, 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 contractor 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 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

1.2 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)

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

1.3 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

1.4 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

BOQ 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

1.5 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 notional 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 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

1.6 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

1.7 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

DEPARTMENT OF PUBLIC WORKS

14 SAI BATTALION MTHATHA: UPGRADE OF FINANCE ACCOUNTING SATELLITE OFFICE – COMPLETION OF WORKS:

CONTRACT NO. 2

TENDER NO. MTH06/25

Building Work / Specification

TECHNICAL SPECIFICATION FOR THE INDURATION (HARDENING/TOUGHENING) OF PHYSICAL SECURITY AT CASH OFFICES

4. Security Door and Framea. Modular Door Frame

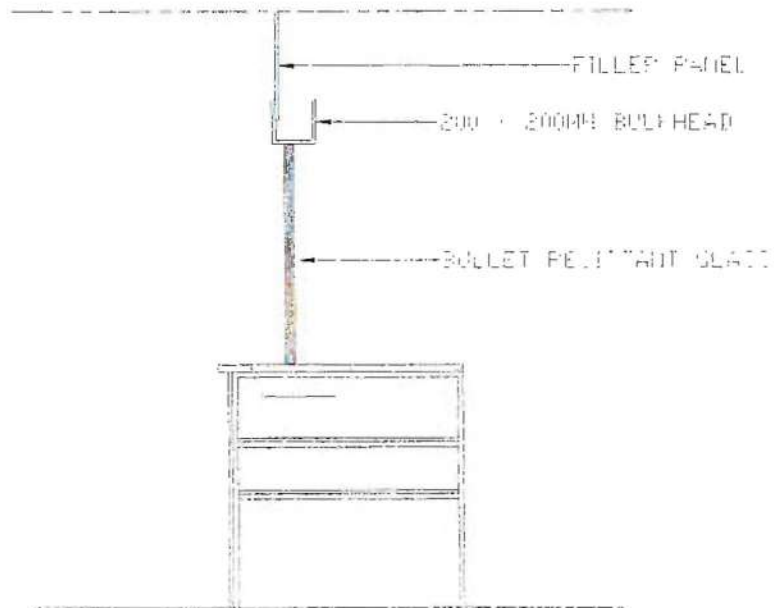
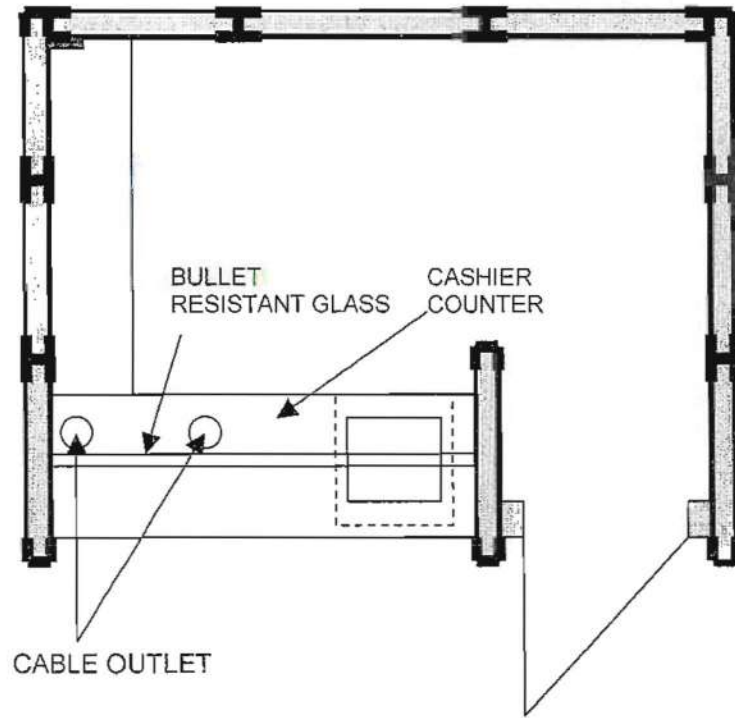
- i. Door Frame. 50mm x 25mm x 2.5mm rectangular mild steel tubing with 10mm x 10mm solid steel welded in rectangular tubing to form rebate, in a 900mm (wide) frame.
- ii. Top Panel
 - (1) Panel to be fitted above door to form part of the frame. Panel is identical in design, material and build to Modular Cubicle Wall Panels (see par 1 above).
 - (2) Top panel height is dependent on the height of the wall panels (standard cubicle ceiling height is 2700mm).
- iii. Fixing Specifications
 - (1) Modular Door Frame to be securely fastened within the Modular Panels of the cubicle.
 - (2) Due to the modular design the Modular Door Frame and Modular Security Door can be installed in three different locations in the Prefabricated Secured Cash Office Cubicle (see Figure 6).

b. Modular Security Door (G3 Security Door)

- i. Modular Security Door 2032mm (high) x 900mm (wide) x 40mm (thick) with 3mm mild steel lining inside, to be made up with a Supawood (MDF) outside finish and 15mm "T" profile solid timber edges to receive hinge and locksets.
- ii. Anti-tamper aluminium T-section installed between door and door frame to protect the lock.
- iii. Door fitted with security lock – Tessa 2030/30B security double cylinder in 2030 F/60 emergency exit lock with push-down emergency release bar on the interior of the cubicle.
- iv. Modular Security Door to be fitted with three x 100mm (long) stainless steel roller bearing hinges securely fastened with 6mm x 45mm stainless steel countersunk head screws.
- v. Modular Security Door to be fitted with 12mm silver Asto-optical wide angle 160 degree door viewer.
- vi. Finish
 - (1) One coat MDF edge sealer applied as per Plascon specifications and two coats of Flowline KNL spray paint as per Plascon specifications.
 - (2) Door to be finished in a "light grey" colour.

SECURED CASH TELLER UNIT

FIGURE 7: SECURED CUBICLE WITH TELLER – TELLER UNIT



SECTION THRU
TELLER COUNTER

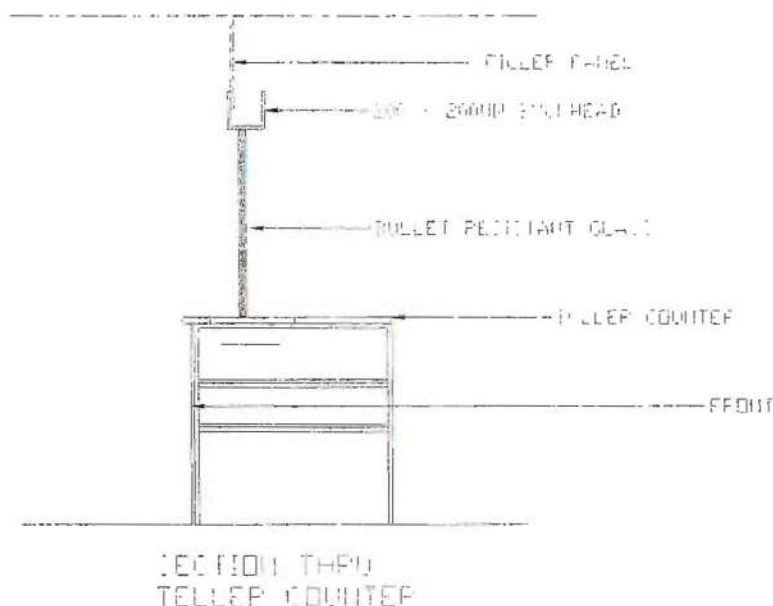
TECHNICAL SPECIFICATION FOR THE INDURATION (HARDENING/TOUGHENING) OF PHYSICAL SECURITY AT
CASH OFFICES5. Counter Top

- a. Formica post form top of 1550mm (long) x 1000mm (wide) (manufactured in accordance with SABS/1762/1998), bonded under factory-controlled conditions to a 32mm hi-density Bison Particle board core (conform to SABS EN1312/396).
- b. Balanced on the reverse side with a Formica brown backer (balancing grade laminate) of nominal thickness of minimum 0.8mm.
- c. The counter top to be finished in a "Folkestone grey" colour.
- d. Counter top to be fitted with two x 60mm cable outlets (cable tidies) for computer equipment in top as per Figure 7.
- e. The counter top to be mounted on three steel A-frame leg sections (see par 7 underneath).

TECHNICAL SPECIFICATION FOR THE INDURATION (HARDENING/TOUGHENING) OF PHYSICAL SECURITY AT
CASH OFFICES

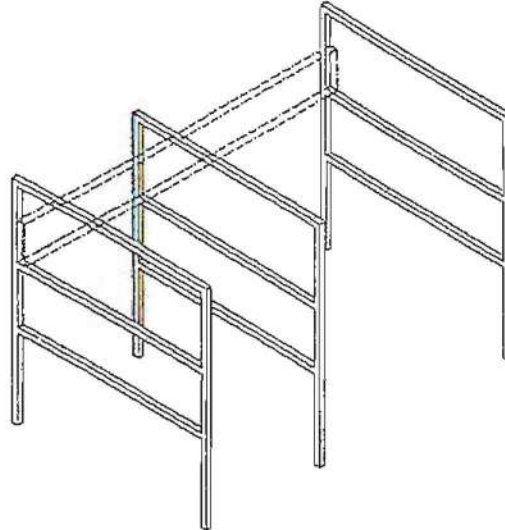
SECURED CASH TELLER UNIT

FIGURE 8: TELLER UNIT – VERTICAL FRONT SECTION



6. Vertical Front Section of Secured Cash Teller Unit

- a. The vertical front panel is identical in design, material and build to Modular Cubicle Wall Panels (see par 1 above), with the exception of the following:
 - i. Size. 1550mm (long) x 1000mm (high).
 - ii. Exterior Finish. Low-glare "black labyrinth" colour.
 - iii. Interior Finish. Plascon "hammertone grey" spray paint.
- b. Solid timber skirting 20mm (thick) x 1550mm (long) x 28mm (wide) to be fixed on the bottom section of vertical front.
- c. Additional 2mm (thick) x 1550mm (long) x 100mm (high) natural anodised aluminium skirting to also be fixed on the bottom section of vertical front, in front of timber skirting. Skirting to be fixed with non-flammable industrial contact.

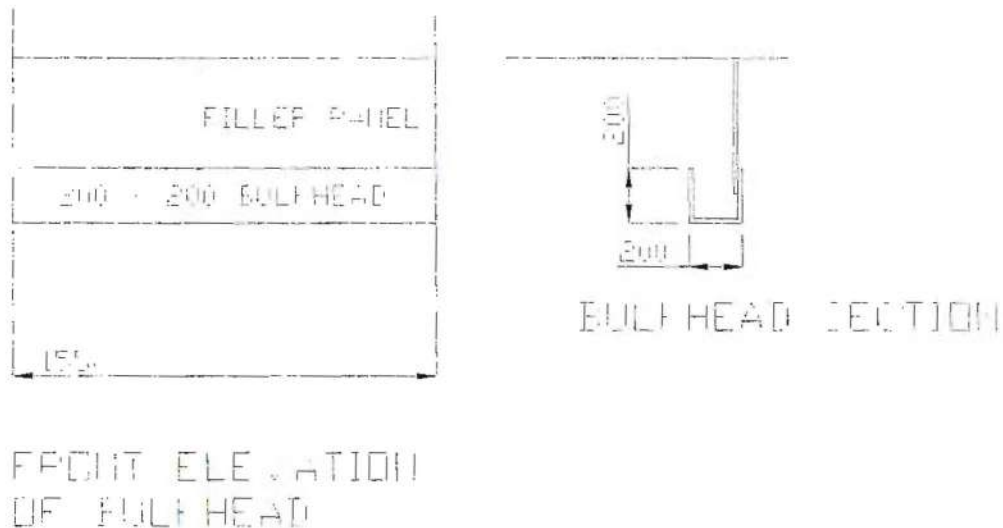
SECURED CASH TELLER UNIT**FIGURE 9: TELLER UNIT – STEEL COUNTER LEGS****7. Steel Frame (A-Frame Legs)**

- a. Three x leg sections of 1.6mm (thick) x 25mm (long) x 25mm (wide) mild steel square tubing.
- b. Leg Sections
 - i. Two x vertical tubes of 985mm (high) per leg section.
 - ii. Three x horizontal tubes of 950mm (long) welded into vertical tubes in each leg section.
 - iii. Tubes welded in the form of an A-frame with the necessary fastening holes for the top-, front- and side panels of cashier's counter top and workstation.
 - iv. Leg sections to be finished in a "hammertone grey" colour.
 - v. Each leg with adjustable "black" colour insert (foot plug) 25mm (long) x 25mm (wide) with 8mm thread and 8mm adjustable foot.
- c. Computer Shelf
 - i. Melamine shelf of 600mm x 600mm x 16mm (thick) for personal computer central processing unit to be fitted with eight x 35mm DIN7992C / SP counter-sink pozi-panhead tapped screws Z-P horizontally to two A-frame leg sections.
 - ii. Shelf to be finished in a "dawn grey" colour.

TECHNICAL SPECIFICATION FOR THE INDURATION (HARDENING/TOUGHENING) OF PHYSICAL SECURITY AT
CASH OFFICES

SECURED CASH TELLER UNIT

FIGURE 10: TELLER UNIT – BULKHEAD AND FILLER PANEL



8. Bulkhead and Filler Panel

a. Bulkhead

- i. Bottom. "Black labyrinth" colour Formica of 16mm (thick) x 1550mm (long) x 200mm (high) with "black" colour PVC edging 3mm (thick) x 16mm (wide).
- ii. Side Panels. Two x vertical side panels of 16mm (thick) x 1550mm (long) x 200mm (high) in "dawn grey" colour Melamine front and back sides, with 200mm (long) x 200mm (high) end sections in same material.
- iii. Bulkhead must be glued and screwed together on the inside with steel corner brackets or timber cleats 20mm (long) x 20mm (high), by means of utilising eight x 40mm DIN7992C / SP counter-sink pozi-panhead tapped screws Z-P.

b. Filler Panel

i. Panelling

- (1) Should panelling be installed above the bullet-resistant glass to close the gap between the bulkhead and mesh cubicle ceiling.
- (2) Panelling must be identical in design, material and build to the Modular Cubicle Wall Panels (see par 1 above).

TECHNICAL SPECIFICATION FOR THE INDURATION (HARDENING/TOUGHENING) OF PHYSICAL SECURITY AT
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- (3) The length of the panel to be 1550mm. The filler panel's height is dependent on the height of the wall panels (standard cubicle ceiling height is 2700mm).

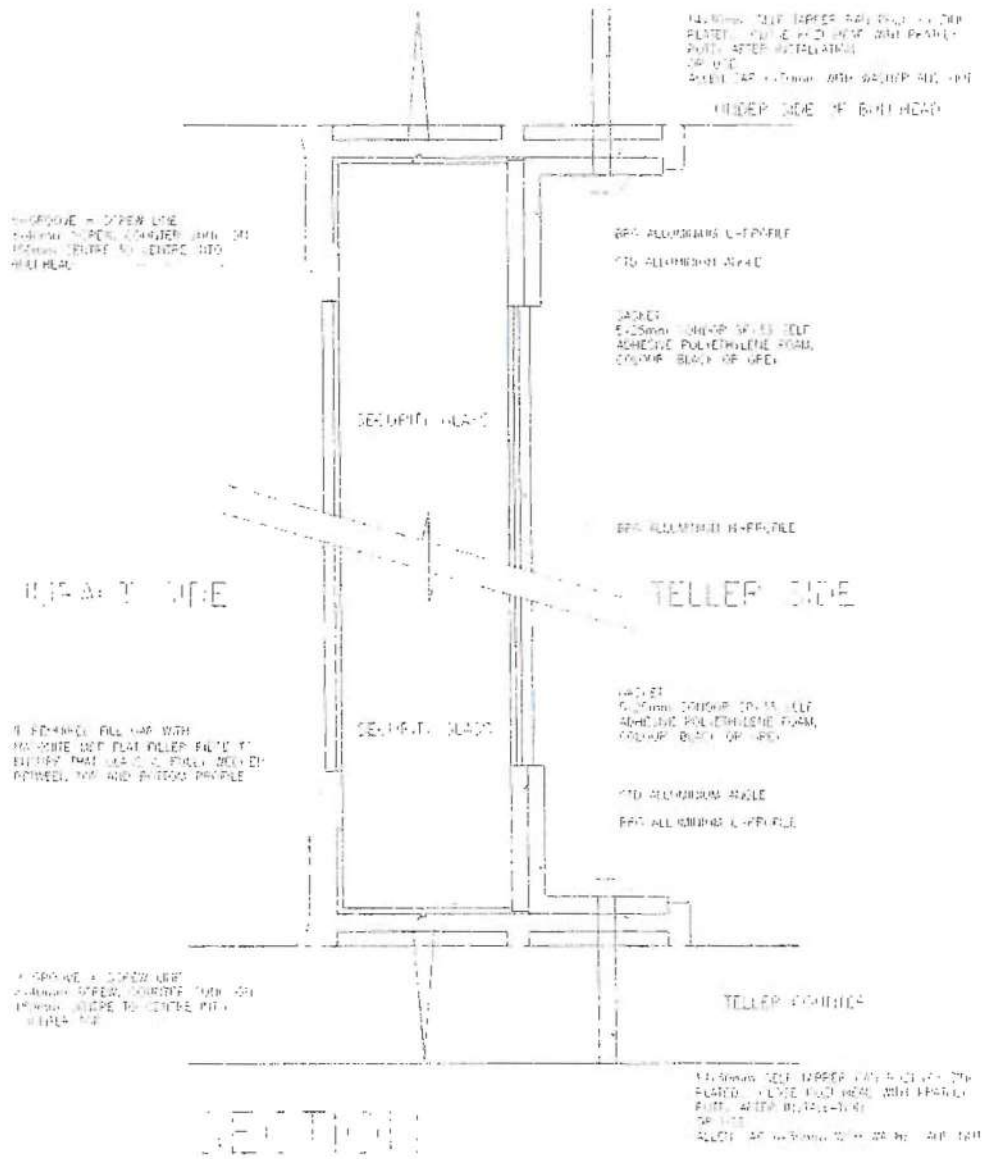
ii. Louvers

- (1) Instead of panelling, mild steel louvers can be installed on top of the bulkhead.
- (2) Louvers must be powder-coated to match natural anodised aluminium.
- (3) Louvers must be of such a design to not allow shooting through into the cubicle ("inverted V" design).

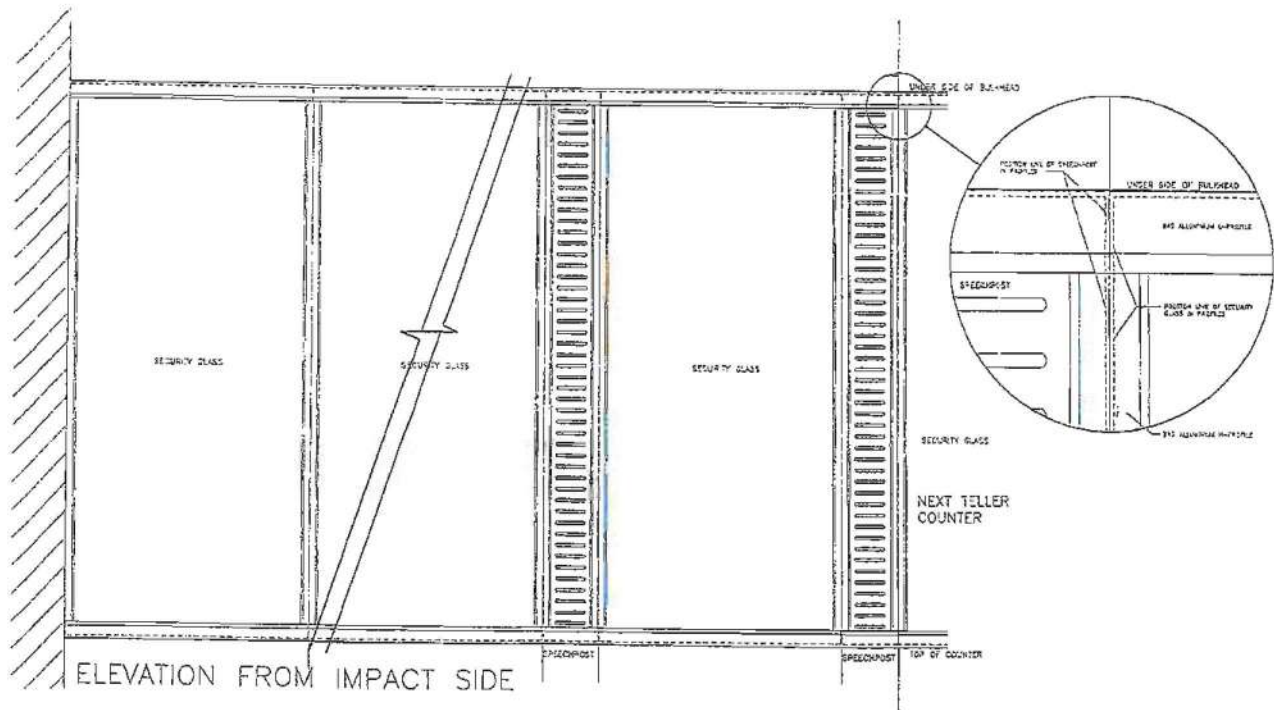
TECHNICAL SPECIFICATION FOR THE INDURATION (HARDENING/TOUGHENING) OF PHYSICAL SECURITY AT CASH OFFICES

SECURED CASH TELLER UNIT

FIGURE 11: TELLER UNIT – BULLET-RESISTANT GLASS IN FRAMEWORK



TECHNICAL SPECIFICATION FOR THE INDURATION (HARDENING/TOUGHENING) OF PHYSICAL SECURITY AT CASH OFFICES



9. Bullet-Resistant Glass (BRG) in Metal Framework

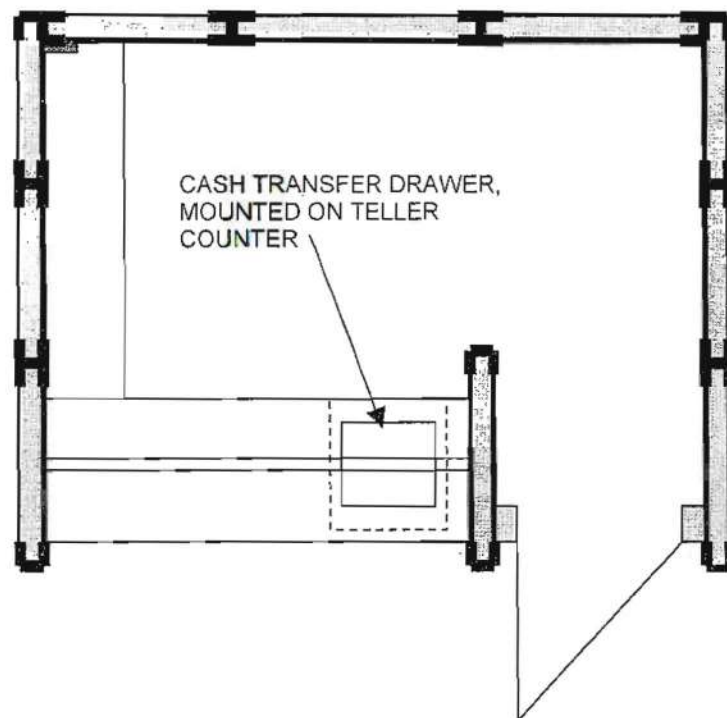
- a. Three x BRG panels of 1000mm (high) x 440mm (wide) each.
- b. BRG panels must offer Industry Designation G3 level protection against Nato R1 calibre weapons, e.g. 78mm thick Resistoglass or 53mm thick Resistolite, etc.
- c. Fitment in Aluminium
 - i. BRG panels must be fitted in an aluminium "L" 25,4mm (high) x 25,2mm (wide) close profile with a SPX33 black 5mm x 25mm STRPSA Sondor gasket at top and bottom.
 - ii. At the furthest (left and right) vertical ends, the total BRG panel (comprised of three individual BRG panels) must be installed in between two x C-channels and secured to the wall/dividing screen.
 - iii. The three individual BRG panels to be joined together with H-sections, including two x vertical speech posts 31mm (thick) x 1000mm (high) x 90mm (wide), with a 3mm aluminium wall thickness.
 - iv. The bottom and top L-profiles to be secured in counter top and bulkhead with six x 30mm DIN7972C / SP zinc-plated counter-sink pozi-panhead tapping screws Z-P with 150mm spacing, and lock section standard aluminium profile to be secured through L-profile into counter top and bulkhead with eight x 40mm DIN 7981 pozi-panhead self-tapping type AB, hard zinc-plated, screws.
- d. Fitment in Steel. As an alternative to the use of aluminium, pre-welded mild steel frames of 5mm thickness, powder-coated to match natural anodised aluminium, can

TECHNICAL SPECIFICATION FOR THE INDURATION (HARDENING/TOUGHENING) OF PHYSICAL SECURITY AT
CASH OFFICES

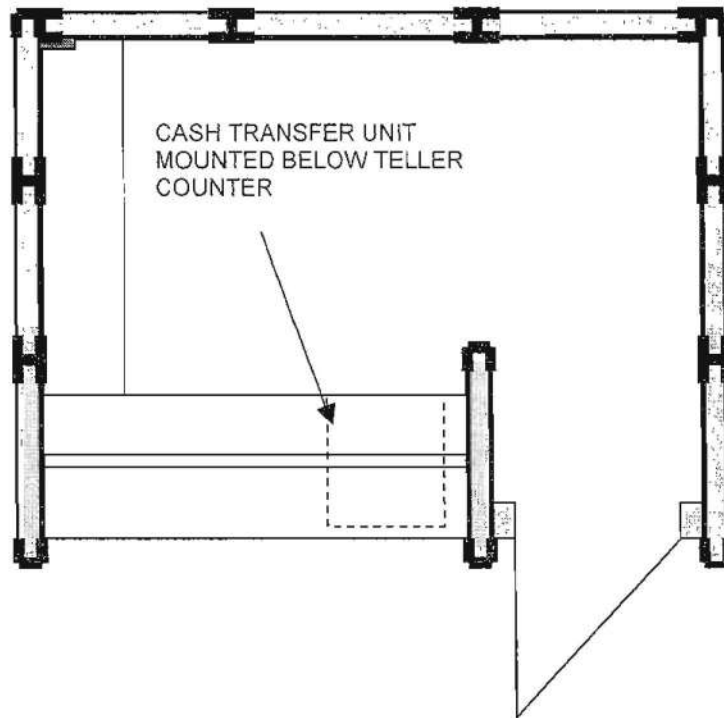
also be utilised.

e. Construction

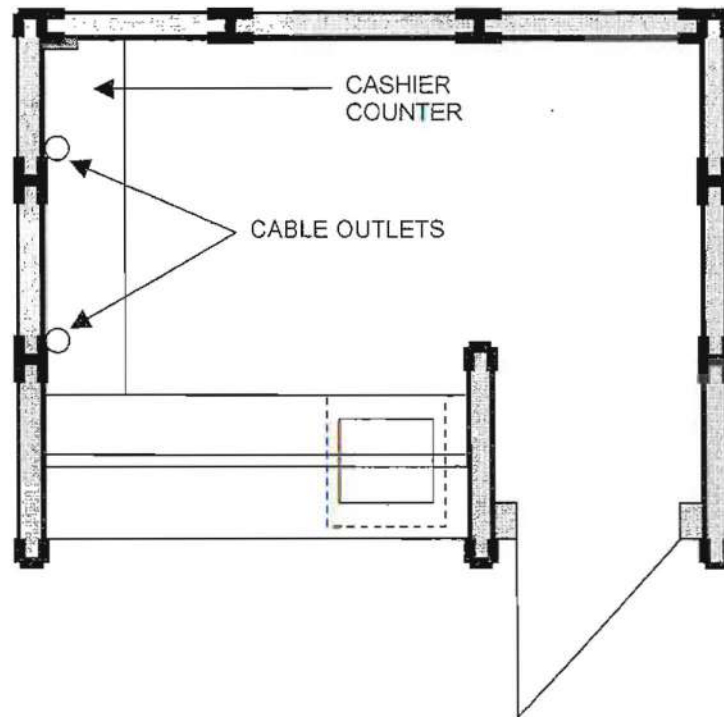
- i. It is important to note that, irrespective aluminium or mild steel being utilised to fit the BRG, the construction on the impact (exterior) side should allow no gaps/openings that could be easily attackable with crowbars/other leverage instruments/equipment.
- ii. In addition, no screws/bolts should be located on the impact side in order to prevent attack through disassembly.

SECURED CASH TELLER UNIT**FIGURE 12: TELLER UNIT – CASH TRANSFER DRAWER****10. Cash Transfer Drawer**

- a. The drawer must consist of a moveable tray in a stainless steel brush finish.
- b. The drawer must be of a "pay-trough" design with three x lockable moveable positions.
- c. The drawer must have a "black" colour powder-coated 3mm mild steel body and natural anodised frame for bulk articles.
- d. The drawer of 145mm (deep) x 460mm (long) x 400mm (wide) must be installed underneath the BRG's aluminium L-profile in the counter top.

SECURED CASH TELLER UNIT**FIGURE 13: TELLER UNIT – BULK CASH TRANSFER UNIT**11. Bulk Cash Transfer Unit

- a. The Bulk Cash Transfer Unit of 750mm (long) x 440mm (wide) x 550mm (high) features inter-lockable 6mm (thick) mild steel doors.
- b. The transfer unit is designed in such a manner that both the doors cannot be open simultaneously – the door on the cashier side must be locked before the door on the client side can be opened, and *vice versa*.
- c. The unit must feature an extendable conveyor roller tray inside.
- d. The unit must be finished in "grey" colour powder-coated mild steel.
- e. The unit must rest on a mild steel 25mm x 25mm tubing framework (rectangular with four legs) to be ± 100 mm away from the ground and mounted through the vertical front section of cashier's counter top with eight x 40mm DIN 7981 pozi-panhead self tapping type AB, hard zinc plated screws.

SECURED CASH TELLER UNIT**FIGURE 14: TELLER UNIT – CASHIER'S WORKSTATION**12. Cashier's Workstation

- a. Post-form "moss granite" / "grey" colour Formica top 32mm (thick) x 1700mm (long) x 600mm (wide) secured:
 - i. Next to and onto counter top frame with two x steel brackets 6mm (thick) x 100mm (wide) x 200mm (long) with the necessary holes, and
 - ii. With the other side onto the interior side of the modular cubicle wall panel with two x steel "L" brackets. Provision to be made at this end for the vertical power skirting riser.
- b. Both 600mm sides to be edged with 3mm (thick) x 32mm (wide) "black" colour PVC edging.
- c. To be fitted with two x 60mm cable outlets (cable tidies) for computer equipment in top as per Figure 14.



public works
& infrastructure

Department:
Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA

SPECIFICATION

FOR THE

ELECTRICAL INSTALLATION (PART 1 OF 2)

AT

DOD: 14 SAI BATTALION – FINANCIAL ACCOUNTING SATELLITE OFFICE

MTHATHA

ELECTRICAL ENGINEER

CARIFRO CONSULTING ENGINEERS
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DEPARTMENT OF PUBLIC WORKS

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DATE: JUNE 2025

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PART B: ELECTRICAL WORK

NOTICE TO TENDERERS

1. The tenderer for the principal contract shall submit additional information regarding the installer of the Electrical Installation together with the returnables enclosed with the tender enquiry documents
2. The Contractor, on acceptance of his tender for the principal contract shall submit within the period stated, the information indicated on the forms following immediately after the Summary of the bills of quantities for this installation.

SPECIFICATION FOR ELECTRICAL WORK

PART 1: GENERAL

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PART 1: GENERAL

1 TESTS

After completion of the works and before first delivery is taken, a full test will be carried out on the installation for a period of sufficient duration to determine the satisfactory working thereof. During this period the installations will be inspected and the Contractor shall make good, to the satisfaction of the Representative/Agent, any defects which may arise.

The Contractor shall provide all instruments and equipment required for testing and any water, power and fuel required for the commissioning and testing of the installations at completion.

2 MAINTENANCE OF INSTALLATION

With effect from the date of the First Delivery Certificate the Contractor shall at his own expense undertake the regular servicing of the installation during the maintenance period and shall make all adjustments necessary for the correct operation thereof.

If during the said period the installations is not in working order for any reason for which the Contractor is responsible, or if the installations develop defects, he shall immediately upon being notified thereof take steps to remedy the defects and make any necessary adjustments.

Should such stoppages however be so frequent as to become troublesome, or should the installations otherwise prove unsatisfactory during the said period the Contractor shall, if called upon by the Representative/Agent or the Director-General, at his own expense replace the whole of the installations or such parts thereof as the Representative/Agent or the Director-General may deem necessary with apparatus specified by the Representative/Agent or the Director-General.

3 REGULATIONS

The installation shall be erected and tested in accordance with the Acts and Regulations as indicated in the scope of works

4 NOTICES AND FEES

The Contractor shall give all notices required by and pay all necessary fees, including any inspection fees, which may be due to the local Supply Authority.

On production of the official account, only the net amount of the fee charged by the Supply Authority for connection of the installation to the supply mains, will be refunded to the Contractor by the Department.

5 SCHEDULE OF FITTINGS

In all instances where schedule of light, socket outlet and power points are attached to or included on the drawings, these schedules are to be regarded as forming part of the specification.

6 QUALITY OF MATERIALS

Only materials of first-class quality shall be used and all materials shall be subject to the approval of the Department. Departmental specifications for various materials to be used on this Contract are attached to and form part of this specification.

Wherever applicable the material is to comply with the relevant South African Bureau of Standards, specifications, or to British Standard Specifications, where no SABS Specifications exist.

Materials wherever possible, must be of South African manufacture.

7 CONDUIT AND ACCESSORIES

The type of conduit and accessories required for the service, i.e. whether the conduit and accessories shall be of the screwed type, plain-end type or of the non-metallic type and whether metallic conduit shall

be black enamelled or galvanised, is specified in Part 2 of this specification.

Unless other methods of installation are specified for certain circuits, the installation shall be in conduit throughout. No open wiring in roof spaces or elsewhere will be permitted.

The conduit and conduit accessories shall comply fully with the applicable SABS specifications as set out below and the conduit shall bear the mark of approval of the South African Bureau of Standards.

- a) Screwed metallic conduit and accessories: SABS 1065, parts 1 and 2.
- b) Plain-end metallic conduit and accessories: SABS 1065, parts 1 and 2.
- c) Non-metallic conduit and accessories: SABS 950

All conduit fittings except couplings, shall be of the inspection type. Where cast metal conduit accessories are used, these shall be of malleable iron. Zinc base fittings will not be allowed.

Bushes used for metallic conduit shall be brass and shall be provided in addition to locknuts at all points where the conduit terminates at switchboards, switch-boxes, draw-boxes, etc.

Draw-boxes are to be provided in accordance with the "Wiring Code" and wherever necessary to facilitate easy wiring.

For light and socket outlet circuits, the conduit used shall have an external diameter of 20mm. In all other instances the sizes of conduit shall be in accordance with the "Wiring Code" for the specified number and size of conductors, unless otherwise directed in part 2 of this specification or indicated on the drawings.

Only one manufactured type of conduit and conduit accessories will be permitted throughout the installation.

Running joints in screwed conduit are to be avoided as far as possible and all conduit systems shall be set or bent to the required angles. The use of normal bends must be kept to a minimum with exception of larger diameter conduits where the use of such bends is essential.

All metallic conduit shall be manufactured of mild steel with a minimum thickness of 1,2mm for plain-end conduit and 1,6mm in respect of screwed conduit.

Under no circumstances will conduit having a wall thickness of less than 1,6mm be allowed in screeding laid on top of concrete slabs.

Bending and setting of conduit must be done with special bending apparatus manufactured for the purpose and which are obtainable from the manufacturers of the conduit systems. Damage to conduit resulting from the use of incorrect bending apparatus or methods applied must on indication by the Department's inspectorate staff, be completely removed and rectified and any wiring already drawn into such damaged conduits must be completely renewed at the Contractor's expense.

Conduit and conduit accessories used for flame-proof or explosion proof installations and for the suspension of luminaires as well as all load bearing conduit shall in all instances be of the metallic screwed type.

All conduit and accessories used in areas within 50 km of the coast shall be galvanised to SABS 763.

Tenderers must ensure that general approval of the proposed conduit system to be used is obtained from the local electricity supply authority prior to the submission of their tender. Under no circumstances will consideration be given by the Department to any claim submitted by the Contractor, which may result from a lack of knowledge in regard to the supply authority's requirements.

8 CONDUIT IN ROOF SPACES

Conduit in roof spaces shall be installed parallel or at right angles to the roof members and shall be secured at intervals not exceeding 1,5m by means of saddles screwed to the roof timbers.

Nail or crampets will not be allowed.

Where non-metallic conduit has been specified for a particular service, the conduit shall be supported and fixed with saddles with a maximum spacing of 450 mm. The Contractor shall supply and install all additional supporting timbers in the roof space as required.

Under flat roofs, in false ceilings or where there is less than 0,9m of clearance, or should the ceilings be insulated with glass wool or other insulating material, the conduit shall be installed in such a manner as to allow for all wiring to be executed from below the ceilings.

Conduit runs from distribution boards shall, where possible terminate in fabricated sheet steel draw-boxes installed directly above or in close proximity to the boards.

9 SURFACE MOUNTED CONDUIT

Wherever possible, the conduit installation is to be concealed in the building work; however, where unavoidable or otherwise specified under Part 2 of the specification, conduit installed on the surface must be plumbed or levelled and only straight lengths shall be used.

The use of inspection bends is to be avoided and instead the conduit shall be set uniformly and inspection coupling used where necessary.

No threads will be permitted to show when the conduit installation is complete, except where running couplings have been employed.

Running couplings are only to be used where unavoidable, and shall be fitted with a sliced couplings as a lock nut.

Conduit is to be run on approved spaced saddles rigidly secured to the walls.

Alternatively, fittings, tees, boxes, couplings etc., are to be cut into the surface to allow the conduit to fit flush against the surface. Conduit is to be bedded into any wall irregularities to avoid gaps between the surface and the conduit.

Crossing of conduits is to be avoided, however, should it be necessary purpose-made metal boxes are to be provided at the junction. The finish of the boxes and positioning shall be in keeping with the general layout.

Where several conduits are installed side by side, they shall be evenly spaced and grouped under one purpose-made saddle.

Distribution boards, draw-boxes, industrial switches and socket outlets etc., shall be neatly recessed into the surface to avoid double sets.

In situations where there are no ceilings the conduits are to be run along the wall plates and the beams.

Painting of surface conduit shall match the colour of the adjacent wall finishes.

Only approved plugging materials such as aluminium inserts, fibre plugs, plastic plugs, etc., and round-head screws shall be used for fixing saddles, switches, socket outlets, etc., to walls, wood plugs and the plugging in joints in brick walls are not acceptable.

10 CONDUIT IN CONCRETE SLABS

In order not to delay building operations the Contractor must ensure that all conduits and other electrical equipment which are to be cast in the concrete columns and slabs are installed in good time.

The Contractor shall have a representative in attendance at all times when the casting of concrete takes place.

Draw-boxes, expansion joint boxes and round conduit boxes are to be provided where necessary. Sharp bends of any nature will not be allowed in concrete slabs.

Draw and/or inspection boxes shall be grouped under one common cover plate, and must preferably be installed in passages or male toilets.

All boxes, etc., are to be securely fixed to the shuttering to prevent displacement when concrete is cast. The conduit shall be supported and secured at regular intervals and installed as close as possible to the neutral axis of concrete slabs and/or beams.

Before any concrete slabs are cast, all conduit droppers to switchboards shall be neatly spaced and rigidly fixed.

11 FLEXIBLE CONNECTIONS FOR CONNECTING UP OF STOVES, MACHINES, ETC.

Flexible tubing connections shall be of galvanised steel construction, and in damp situations of the plastic sheathed galvanised steel type. Other types may only be used subject to the prior approval of the Department's site electrical representative.

Connectors for coupling onto the flexible tubing shall be of the gland or screw-in types, manufactured of either brass or cadmium or zinc plated mild steel, and the connectors after having been fixed onto the tubing, shall be durable and mechanically sound.

Aluminium and zinc alloy connectors will not be acceptable.

12 WIRING:

Except where otherwise specified in Part 2 of this specification, wiring shall be carried out in conduit throughout. Only one circuit per conduit will be permitted.

No wiring shall be drawn into conduit until the conduit installation has been completed and all conduit ends provided with bushes. All conduits to be clear of moisture and debris before wiring is commenced.

Unless otherwise specified in Part 2 of this specification or indicated on the service drawings, the wiring of the installation shall be carried out in accordance with the "Wiring Code". Further to the requirements concerning the installation of earth conductors to certain light points as set out in the "Wiring Code", it is a specific requirement of this document that where plain-end metallic conduit or non-metallic conduit has been used, earth conductors must be provided and drawn into the conduit with the main conductors to all points, including all luminaires and switches throughout the installation.

Wiring for lighting circuits is to be carried out with 1,5mm² conductors and a 1,5mm²-earth conductor. For socket outlet circuits the wiring shall comprise 4mm² conductors and a 2,5mm²-earth conductor. In certain instances, as will be directed in Part 2 of this specification, the sizes of the aforementioned conductors may be increased for specified circuits. Sizes of conductors to be drawn into conduit in all other instances, such as feeders to distribution boards, power points etc., shall be as specified elsewhere in this specification or indicated on the drawings. Sizes of conductors not specified must be determined in accordance with the "Wiring Code".

The loop-in system shall be followed throughout, and no joints of any description will be permitted.

The wiring shall be done in PVC insulated 600/1000 V grade cable to SABS 150.

Where cable ends connect onto switches, luminaires etc., the end strands must be neatly and tightly twisted together and firmly secured. Cutting away of wire strands of any cable will not be allowed.

13 SWITCHES AND SOCKET OUTLETS

All switches and switch-socket outlet combination units shall conform to the Department Quality Specifications, which form part of this specification.

No other than 16A 3-pin sockets are to be used, unless other special purpose types are distinctly

specified or shown on the drawings.

All light switches shall be installed at 1,4m above finished floor level and all socket outlets as directed in the Schedule of Fittings which forms part of this specification or alternatively the height of socket outlets may be indicated on the drawings.

14 SWITCHGEAR

Switchgear, which includes circuit breakers, iron-clad switches, interlocked switch-socket outlet units, contactors, time switches, etc., is to be in accordance with the Departmental Quality Specifications which form part of this specification and shall be equal and similar in quality to such brands as may be specified.

For uniform appearance of switchboards, only one approved make of each of the different classes of switchgear mentioned in the Quality Specifications shall be used throughout the installations.

15 SWITCHBOARDS

All boards shall be in accordance with the types as specified, be constructed according to the detail or type drawings and must be approved by the Department before installation.

In all instances where provision is to be made on boards for the supply authority's main switch and/or metering equipment the contractor must ensure that all requirements of the authorities concerned in this respect are met.

Any construction or standard type aboard proposed, as an alternative to that specified must have the prior approval of the Department.

All busbars, wiring, terminals, etc., are to be adequately insulated and all wiring is to enter the switchgear from the back of the board. The switchgear shall be mounted within the boards to give a flush front panel. Cable and boxes and other ancillary equipment must be provided where required.

Clearly engraved labels are to be mounted on or below every switch. The working of the labels in English and Afrikaans, is to be according to the lay-out drawings or as directed by the Department's representative and must be confirmed on site. Flush mounted boards to be installed with the top of the board 2,0m above the finished floor level.

16 WORKMANSHIP AND STAFF

Except in the case of electrical installations supplied by a single-phase electricity supply at the point of supply, an accredited person shall exercise general control over all electrical installation work being carried out.

The workmanship shall be of the highest grade and to the satisfaction of the Department.

All inferior work shall, on indication by the Department's inspecting officers, immediately be removed and rectified by and at the expense of the Contractor.

17 CERTIFICATE OF COMPLIANCE

On completion of the service, a certificate of compliance must be issued to the Department's Representative/Agent in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993).

18 EARTHING OF INSTALLATION

Main earthing

The type of main earthing must be as required by the supply authority if other than the Departments, and in any event as directed by the Department's representative, who may require additional earthing to meet test standards.

Where required an earth mat shall be provided, the minimum size, unless otherwise specified, being 1,0m

x 1,0m and consisting of 4mm diameter hard-drawn bare copper wires at 250mm centres, brazed at all intersections.

Alternatively or additionally earth rods or trench earths may be required as specified or directed by the Department's authorised representative.

Installations shall be effectively earthed in accordance with the "Wiring Code" and to the requirements of the supply authority. All earth conductors shall be stranded copper with or without green PVC installation.

Connection from the main earth bar on the main board must be made to the cold water main, the incoming service earth conductor, if any and the earth mat or other local electrode by means of 12mm x 1,60 mm solid copper strapping or 16 mm² stranded (not solid) bare copper wire or such conductor as the Department's representative may direct. Main earth copper strapping where installed below 3m from ground level, must be run in 20 mm diameter conduit securely fixed to the walls.

All other hot and cold water pipes shall be connected with 12mm x 0,8mm perforated for solid copper strapping (not conductors) to the nearest switchboard. The strapping shall be fixed to the pipework with brass nuts and bolts and against walls with brass screws at 150-mm centres. In all cases where metal water pipes, down pipes, flues, etc., are positioned within 1,6m of switchboards an earth connection consisting of copper strapping shall be installed between the pipework and the board. In vertical building ducts accommodating both metal water pipes and electrical cables, all the pipes shall be earthed at each distribution board.

Roofs, gutters and down pipes

Where service connections consist of overhead conductors, all metal parts of roofs, gutters and down pipes shall be earthed. One bare 10mm² copper conductor shall be installed over the full length of the ceiling void, fixed to the top purlin and connected to the main earth conductor and each switchboard. The roof and gutters shall be connected at 15m intervals to this conductor by means of 12mm X 0,8mm copper strapping (not conductors) and galvanised bolts and nuts. Self-tapping screws are not acceptable. Where service connections consist of underground supplies, the above requirements are not applicable.

Sub-distribution boards

A separate earth connection shall be supplied between the earth busbar in each sub-distribution board and the earth busbar in the Main Switchboard. These connections shall consist of a bare or insulated stranded copper conductors installed along the same routes as the supply cables or in the same conduit as the supply conductors. Alternatively armoured cables with earth continuity conductors included in the armouring may be utilised where specified or approved.

Sub-circuits

The earth conductors of fall sub-circuits shall be connected to the earth busbar in the supply board in accordance with SABS 0142.

Ring Mains

Common earth conductors may be used where various circuits are installed in the same wire way in accordance with SABS 0142. In such instances the sizes of earth conductors shall be equivalent to that of the largest current carrying conductor installed in the wire way, alternatively the size of the conductor shall be as directed by the Engineer. Earth conductors for individual circuits branching from the ring main shall be connected to the common earth conductor with T-ferrules or soldered. The common earth shall not be broken.

Non-metallic Conduit

Where non-metallic conduit is specified or allowed, the installation shall comply with the Department's standard quality specification for "conduit and conduit accessories".

Standard copper earth conductors shall be installed in the conduits and fixed securely to all metal appliances and equipment, including metal switch boxes, socket-outlet boxes, draw-boxes, switchboards,

luminaires, etc. The securing of earth conductors by means of self-threading screws will not be permitted.

Flexible Conduit

An earth conductor shall be installed in all non-metal flexible conduit. This earth conductor shall not be installed externally to the flexible conduit but within the conduit with the other conductors. The earth conductor shall be connected to the earth terminals at both ends of the circuit.

Connection

Under no circumstances shall any connection points, bolts, screws, etc., used for earthing be utilised for any other purpose. It will be the responsibility of the Contractor to supply and fit earth terminals or clamps on equipment and materials that must be earthed where these are not provided.

Unless earth conductors are connected to proper terminals, the end shall be tinned and lugged.

19 MOUNTING AND POSITIONING OF LUMINAIRES

The Contractor is to note that in the case of board and acoustic tile ceilings, i.e. as opposed to concrete slabs, close co-operation with the building contractor is necessary to ensure that as far as possible the luminaires are symmetrically positioned with regard to the ceiling pattern.

The layout of the luminaires as indicated on the drawings must be adhered to as far as possible and must be confirmed with the Department's representative.

Fluorescent luminaires installed against concrete ceilings shall be screwed to the outlet boxes and in addition 2 x 6mm expansion or other approved type fixing bolts are to be provided. The bolts are to be $\frac{3}{4}$ of the length of the luminaires apart.

Fluorescent luminaires to be mounted on board ceilings shall be secured by means of two 40mm x No. 10 round head screws and washers. The luminaires shall also be bonded to the circuit conduit by means of locknuts and brass bushes. The fixing screws are to be placed $\frac{3}{4}$ of the length of the fitting apart.

Earth conductors must be drawn in with the circuit wiring and connected to the earthing terminal of all fluorescent luminaires as well as other luminaires exposed to the weather in accordance with the "Wiring Code".

Incandescent luminaires are to be screwed directly to outlet boxes in concrete slabs. Against board ceilings the luminaires shall be secured to the bracing or joists by means of two 40mm x No. 8 round head screws.

PART 2: INSTALLATION DETAILS

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PART 2: INSTALLATION DETAILS

1 CABLE SLEEVE PIPES

Not applicable.

2 NOTICES

Not applicable.

3 ELECTRICAL EQUIPMENT

All equipment supplied must be in accordance with the attached quality specification (Part 3 of this document), suitable for the relevant supply voltage, and frequency.

4 DRAWINGS

The drawings generally show the scope and extent of the proposed work and shall not be held as showing every minute detail of the work to be executed.

The position of power points, switches and light points that may be influenced by built-in furniture must be established on site, prior to these items being built in.

5 BALANCING OF LOAD

The Contractor is required to balance the load as equally as possible over the multiphase supply.

6 SERVICE CONDITIONS

All plant shall be designed for the climatic conditions appertaining to the service.

7 SWITCHES AND SOCKET OUTLETS

The installation of switches and socket outlets must conform to clause 13 of Part 1 of this specification.

8 LIGHT FITTINGS AND LAMPS

The installation and mounting of luminaires must conform with clause 19 of Part 1 of this specification.

The light fittings must be of the LED type, as specified in the Schedule of Light Fittings.

9 EARTHING AND BONDING

The Contractor will be responsible for all earthing and bonding of the building and installation. The earthing and bonding is to be carried out strictly as described in clause 18 of Part 1 of this specification and to the satisfaction of the Department's representative.

10 MAINTENANCE OF ELECTRICAL SUPPLY

All interruptions of the electrical supply that may be necessary for the execution of the work, will be subject to prior arrangement between the Contractor and the user Department and the Department's representative.

11 EXTENT OF WORK

The work covered by this contract comprises the complete electrical installation, in working order, as shown on the drawings and as per this specification and also the installation of any equipment supplied by the Department.

The installation shall include, but not limited, to the following:

- Supply and installation of light fittings i.e 1 x LED Bulkhead Light and 1 x LED Dome Light Red for the Strong Room
- Test and visually inspect all existing socket outlets and switches, as specified and depicted on drawings
- Supply and Installation of socket outlets for Security Equipment
- Supply and Installation of Hybrid Solar system
- Separation of Main DB creating Essential & Non-Essential sections of DB - colour coded blue, complete with voltage indicators, safety/warning labels and Schematic diagram, as per SANS 10141-2
- Re- configuration of Distribution Board power circuits. i.e Essential socket outlets to be supplied by Hybrid Solar system.
- Testing and commissioning of the Electrical installation as per SANS 10142-1, including provision of CoC for Main Distribution Board (DB), Change Over DB & Photovoltaic DB
- Supply and installation of conduit for the Security Systems
- Production of as-built drawings (mark up's) for submission to the Electrical Engineer
- Production of maintenance and operating manuals (x 3)
- 12 months defects liability period

12 SUPPLY AND CONNECTION

The supply will be at 400/230 Volt 50Hz.

Standby Plant

NO standby plant is required for this installation. However, an 8kW hybrid solar system will be installed to backup the installation during power outages (described below).

13 CONDUIT AND WIRING

All conduits, regardless of the system employed, shall be installed strictly as described in the applicable paragraphs of clauses 4 to 8 of Part 1 of the specification. Wiring of the installation shall be carried out as directed in clause 9 part 1 of this specification.

All conduit and accessories chased in to walls or run in the ceiling space to be PVC, as per SANS IEC 61386-21:2003

No surface mounted conduit mounted is envisaged. However, should the need arise, all surface mounted conduit and conduit accessories shall be galvanized plain end conduit in accordance with SANS 61386-21:2003

14 POWER POINTS

All power points are currently installed. Electrical contractor to check all conductors supplying power points are installed and terminated correctly.

Essential socket outlets to be fed from inverter supply.

15 CABLES

All cables are currently installed. Electrical contractor to check that the main supply cable has been installed and terminated correctly.

16 DISTRIBUTION BOARDS

The main distribution board has been installed:

Electrical contractor to check the DB installation complies with standard regulations and correct any non-compliance.

17 SCHEDULE OF LIGHT FITTINGS

Type A 20W LED bulkhead luminaire with high pressure die cast aluminium base, finished both outside and inside in white epoxy powder coating for added protection and reflectivity, eyelid trim ring casting shall be manufactured from high pressure die cast aluminium and finished in a special multi-stage epoxy powder surface coating and opal high impact acrylic diffuser

Type B LED dome light, Red, connected to Strong Room Lighting Circuit

18 HYBRID SOLAR SYSTEM SPECIFICATION

The Hybrid Solar PV System shall be utilised to provide power during grid failure or load shedding, with the priority source being the PV array and battery pack. Should insufficient power be generated from the PV array, power shall be sourced from the battery pack to power the buildings needs.

The Hybrid solar system shall consist of the following equipment/components:

- 8kW True Hybrid Inverter, NRS 097 approved
- Lithium Phosphate batteries
- Battery Fuse Holder & Fuses
- Battery cables & Lugs
- 550W Tier 1 PV Panels
- 6mm² Solar DC cabling
- PV Panel Mounting Structures
- DC Distribution Board
- AC Distribution Board

18.1 8kW HYBRID INVERTER (SS-8K-SG01LP1)

The inverter selected should be of the True Hybrid Nature and comply with the following specification:

Enclosure	IP 65
Protection Level	Class I
Battery Voltage	48Vd.c (40Vd.c ~ 60Vd.c)
Battery Current	190Ad.c (max.)
AC Input & Output Voltage	L/N/PE 220/230V

AC Input & Output Frequency	50/60 Hz
AC Input & Output Rated Current	36.4A
Max. AC Input & Output Current	40A (max.)
Max. AC Input & Output Power	8800W Max.
Apparent Output Power	8800VA
PV Input Voltage	370Vd.c (125Vd.c ~ 500Vd.c)
MPPT Input Voltage	150Vd.c ~ 425Vd.c
PV Input Current	22Ad.c + 22Ad.c
PV Input Power	10400W Max.
PV Isc	28Ad.c + 28Ad.c
Max. Continuous AC Passthrough Current	50Aa.c
Peak Output Power	16000W (10 seconds)
Compliance	VDE-AR-N 4105:1028-11; DIN VDE V 0124-100:2020-06; IEC/ EN62109-1/2:2010; IEC/EN62109-1/2:2011
Warranty	10 Year

18.2 10.65KW LITHIUM (LIFEPO4) BATTERY (SUN BATT10.65)

Lithium Iron Phosphate (LiFePO4) batteries of appropriate capacity with a battery management system (BMS) should be used, which conform to the following specification:

Nominal Voltage	51.2Vdc
Nominal Capacity	208Ah
Battery Energy	10.65kWh
Operating Voltage	Operating Voltage 44.8 ~ 56.16Vdc
Max. Charge and Discharge Current	200A
Display	SOC status indicator, LED indicator
Communication	RS232, RS485, CAN, Wi-Fi
Ingress Protection Rating	IP20
Cycle Life	6000 cycles or ten (10) years @ 80% DOD / 25°C / 0.5C, 70% EOL
Certification	UN38.3 / IEC62619 / IEC61000
Warranty	10 Year

18.3 TIER 1 SOLAR PANELS (JAM72S30-550/MR/1500V)

The PV modules chosen must qualify to the latest edition of IEC standards. The PV cells shall have a 25-year minimum performance warranty, as per the manufacturer's specification and to an internationally accepted standard. The tenderer is to provide details on the lifespan of the solar panels offered in relation to their output vs. time. Attach a certificate of testing.

Solar panels of appropriate capacity, which conform to the following minimum specification shall be used:

Technology	Mono PERC Half Cell
Rated Max Power	550W
Open Circuit Voltage (Voc)	49.9V
Max Power Voltage	41.96v
Short Circuit Current (ISC)	14A
Max Power Current	13.11A
Module Efficiency	21.3%
Max System Voltage	1500V
Operating Temperature	-40 to +85 C°
Product Warranty	12 years
Output Warranty	25 Year Linear
Annual Degradation	0.55% over 25 years
Certification	IEC 61215, IEC 61730, ISO 9001, ISO 14001

18.4 SOLAR ARRAY AND MOUNTING STRUCTURE

The contractor shall price for the supply, installation, erection and acceptance of module mounting structure (MMS) with all necessary accessories, auxiliaries and spare part, deemed to form part of the scope of works.

A 6.6kW PV generating plant consisting of Six (6) NE facing and Six (6) NW facing, 550W Tier 1 solar panels will be installed to the existing pitched roof. The solar panels will be mounted to top and bottom profile rails (40x40mm). The air gap between the roof and underside of the Solar Panel to be a minimum of 100mm

18.5 SOLAR CABLE & TRUNKING

DC Solar Cables are to be 1 x 6mm² multistrand tinned copper conductors with core insulation and sheath. Cables are to have a nominal voltage of 1.5kV with a max permissible voltage of 1.8kV and a permissible operating temperature of +120°C.

Cables are to reticulate in PVC 25mm Conduit and be secured to a 200mm wide return flange cable tray (with cover) mounted to P2000, using cable ties and securing the cable at intervals of 500mm. All cable trunking and accessories shall be galvanized and be properly supported at intervals of at least 1500 mm.

= END OF SPECIFICATION =

PART 3: BILLS OF QUANTITIES

PREAMBLE

TYPICAL ITEMS/PREAMBLES TO BE INSERTED IN THE BILLS OF QUANTITIES

1. The conditions of contract and the application of the Contract Price Adjustment Provisions (if applicable) shall be as set out in Main Contract.
2. The descriptions in these bills of quantities shall be read in conjunction with the specification.
3. The unit rate for each item in the Bills of Quantities shall include for all materials, labour, profit, transport, etc., everything necessary for the execution and complete installation of the work in accordance with the description.
4. The Bills of Quantities shall not be used for ordering purposes. The Contractor shall check the lengths of cables and overhead conductors on site before ordering any of the cables. Any allowance for off-cuts shall be made in the unit rates.
5. The rates shall exclude Value-Added Tax and the total carried over to the final summary.
6. All material covered by this **Specification** shall, wherever possible, be of South African manufacture.

PART 4: ELECTRICAL WORK MATERIAL SCHEDULE

The Contractor shall complete the following schedules and submit them to the Representative/Agent within 21 days of the date of the acceptance of the tender.

The schedules will be scrutinised by the Representative/Agent and should any material offered not comply with the requirements contained in the specification, the Contractor will be required to supply material in accordance with the contract at no additional cost.

NB: Only one manufacturer’s name to be inserted for each item.

Item	Material	Make or trade name	Model
1	Circuit breakers 1P, 2P, 3P		
2	Conduit		
3	Conduit boxes		
4	Metal Power skirting		
5	16A flush socket outlets mounted in Power Skirting		
6	Luminaires		
6.1	Type A – LED Bulkhead		
6.2	Type B – Red Dome Safe Light		
7	Hybrid Solar System		
7.1	Hybrid Inverter		
7.2	Lithium Battery		
7.3	Tier 1 Solar Panels		
7.4	Inverter Distribution Board		
7.5	PV Distribution Board		

PART 5: PARTICULARS OF ELECTRICAL CONTRACTOR

(To be completed by tenderers and submitted together with the tender form).

TENDER NO: _____ REFERENCE: _____

SERVICE: _____

NAME OF ELECTRICAL CONTRACTOR: _____

ADDRESS _____

ELECTRICAL CONTRACTOR'S REGISTRATION NUMBER AT THE ELECTRICAL CONTRACTING BOARD OF S.A. _____

DATE

SIGNATURE OF TENDERER

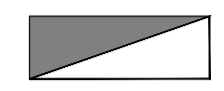











PART 6: DRAWINGS

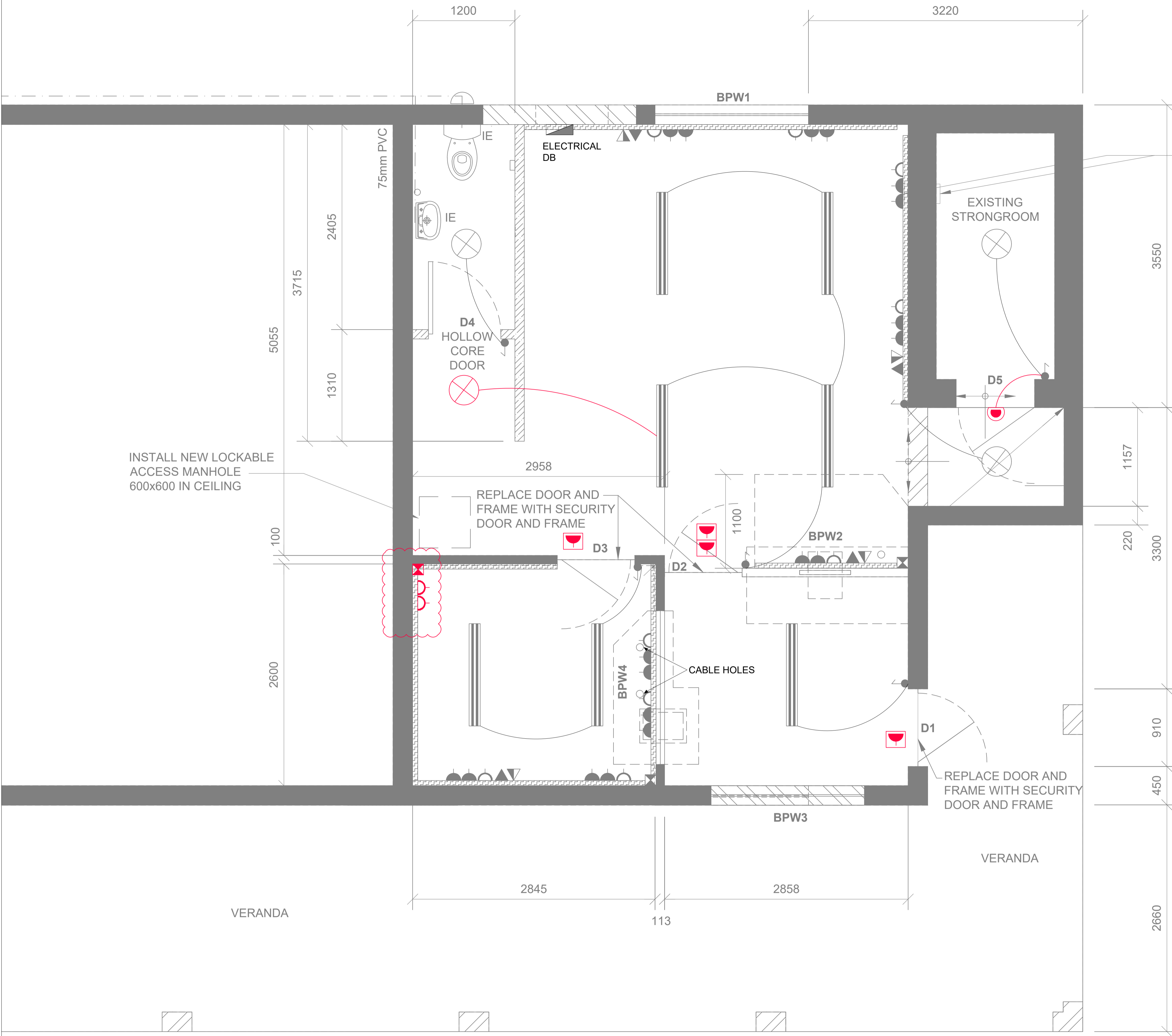
Lighting & Power Layout
HVAC Layout
Hybrid Solar System Schematic Diagram

CAR10E/1023/SAI/200E
048275ME_AC_01
CAR10E/1023/SAI/300E

NOTE:
 ALL EQUIPMENT HIGHLIGHTED IN **RED** TO BE INSTALLED. EQUIPMENT SHOWN IN GREY HAS ALREADY BEEN INSTALLED.

LEGEND

	DISTRIBUTION BOARD
	2X28W, T5 FLUORESCENT WITH LLB DIFFUSER
	18W LED BULKHEAD, ALUMINIUM
	RED DOME SAFE LIGHT, CONNECTED TO LIGHT SWITCH
	16Amp SUPPLY SOCKET OUTLET
	16Amp DEDICATED SUPPLY SOCKET OUTLET
	x2 COMPARTMENT POWER SKIRTING
	RJ45 COMPUTER OUTLET
	RJ11 TELEPHONE OUTLET
	POWER SKIRTING RISER
	SINGLE LEVEL LIGHT SWITCH
	SINGLE SOCKET OUTLET IN CEILING SPACE



INSTALL VENTILATION BLOCK COVERS TO OPENING - STAINLESS STEEL AS PER EXISTING

INSTALL NEW LOCKABLE ACCESS MANHOLE 600x600 IN CEILING

REPLACE DOOR AND FRAME WITH SECURITY DOOR AND FRAME

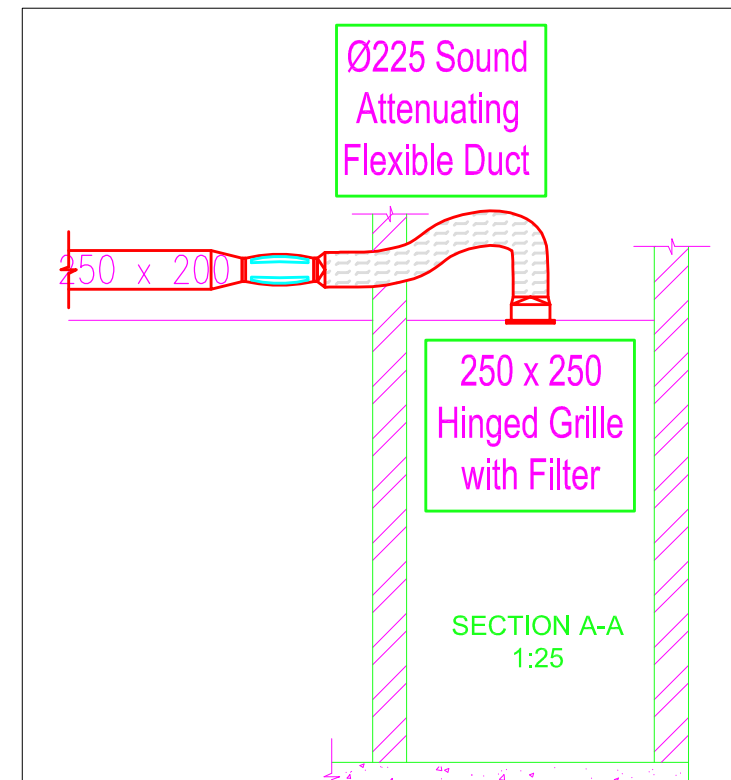
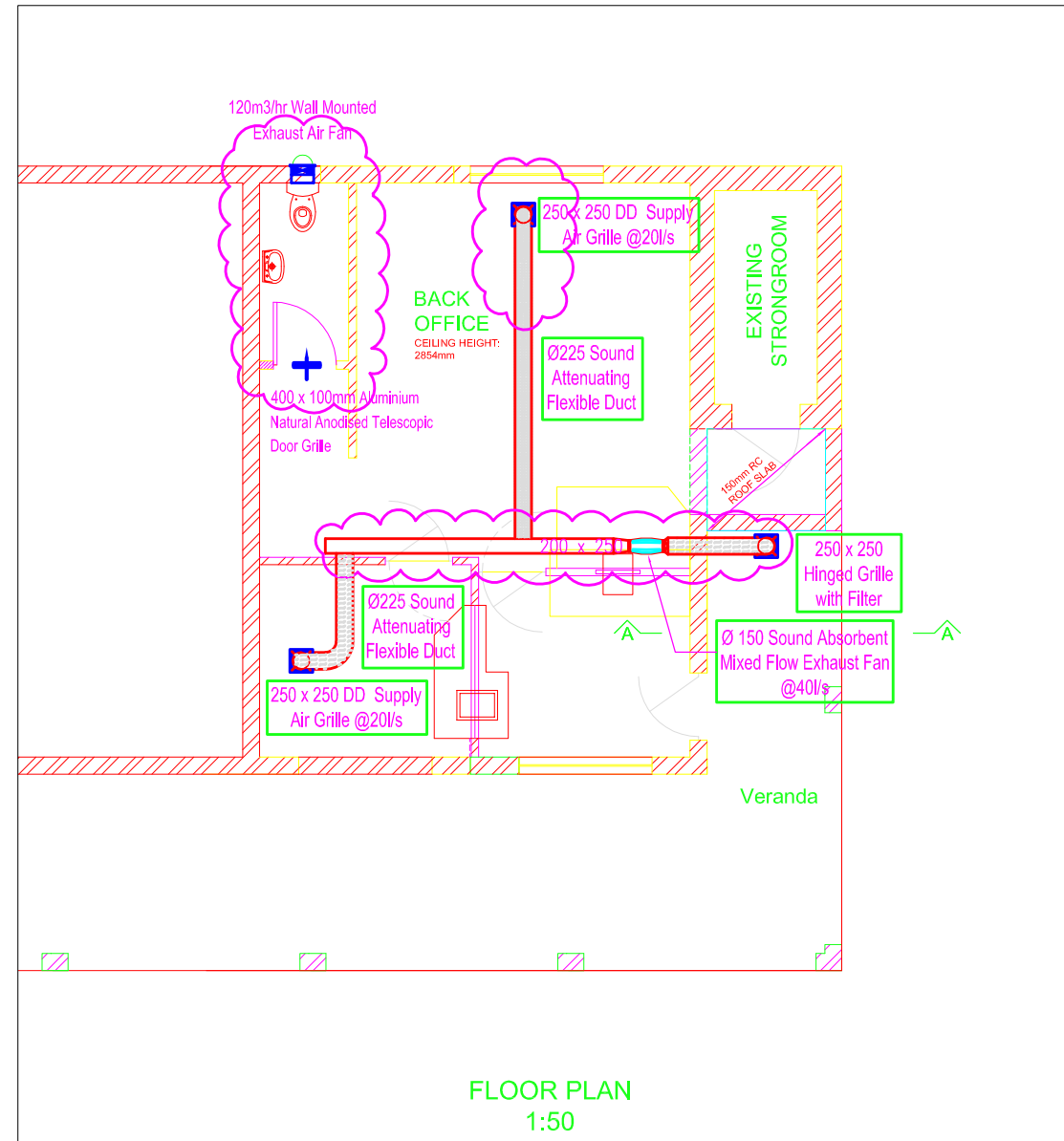
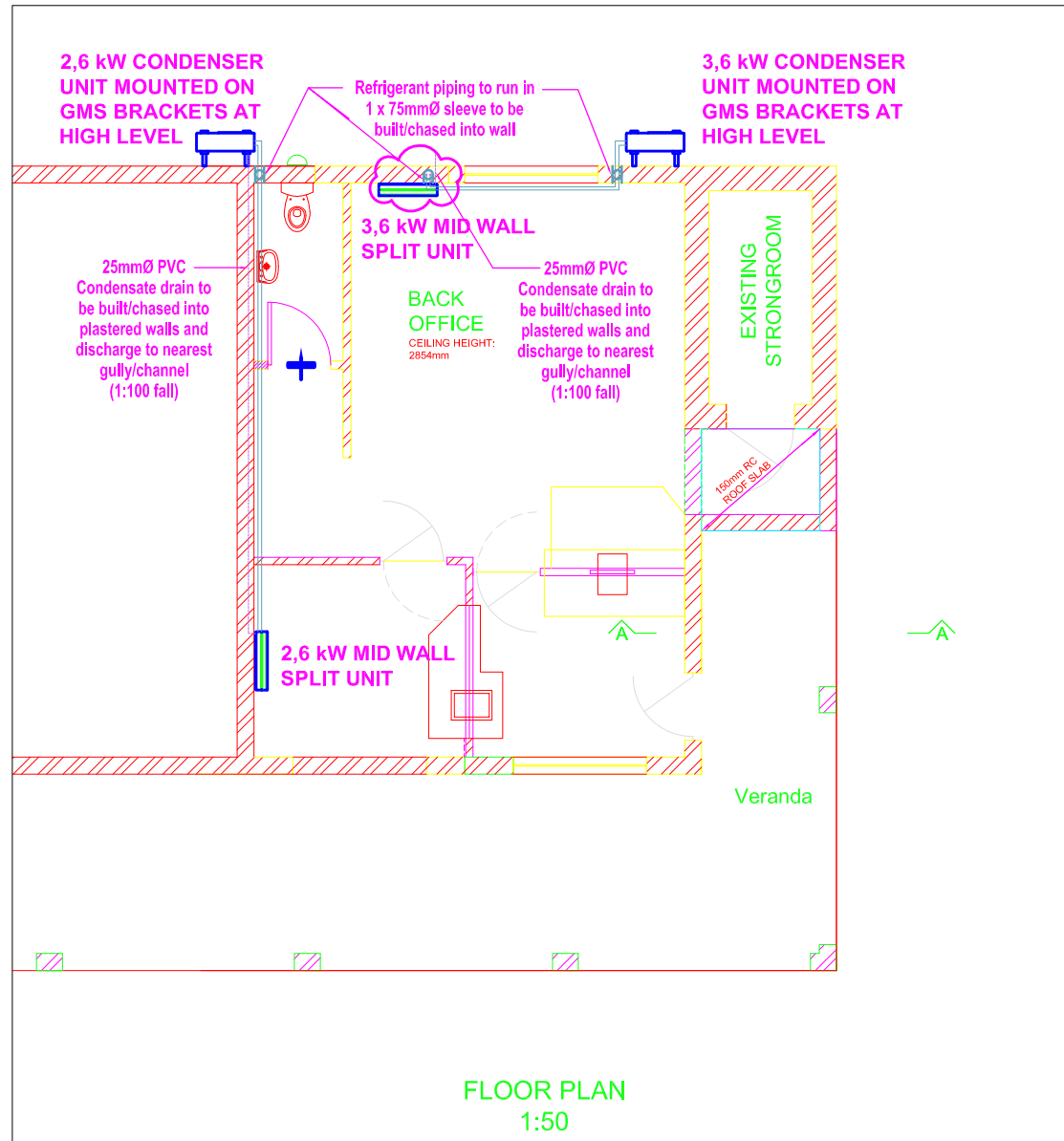
REPLACE DOOR AND FRAME WITH SECURITY DOOR AND FRAME



DRAWING TITLE
FINANCE OFFICE LIGHTING & POWER LAYOUT

CLIENT: DEPARTMENT OF DEFENSE
 PROJECT: MTHATHA 14 SAI BATTALLION
 SECTION: FINANCE OFFICE
 DETAILS: LIGHTING & POWER LAYOUT

DESIGNED L.N.	DRAWN T.S.	APPROVED L.N.
SCALE N.T.S.	COPYRIGHT RESERVED	DATE 01.11.2024
DRAWING No. CAR10E/1023/SAI/200E		REV 0



NOTE:

- 1) AIR CONDITIONING CONTRACTOR TO MARK-UP SLEEVE ROUTES/ POSITIONS FOR BUILDER TO BUILD/CHASE SLEEVES INTO WALL.
- 2) EXTRACT FAN TO BE SWITCHED FROM CIRCUIT BREAKER INSIDE DISTRIBUTION BOARD AS SHOWN ON ELECTRICAL ENGINEERS DRAWINGS.

NOTES

NO.	DATE	AMENDMENT	REV
01	09-02-2012	CONSTRUCTION	1
02	23-07-2012	AIRCONDITIONING AND VENTILATION	2
		LAYOUT REVISED; EXHAUST FAN AND DOOR GRILLE ADDED FOR ABLUTION	

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cad file name
048275ME_AC_01

public works
Department: Public Works
REPUBLIC OF SOUTH AFRICA

DIRECTOR-GENERAL
Mr S DONGWANA

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discipline
MECHANICAL ENGINEER

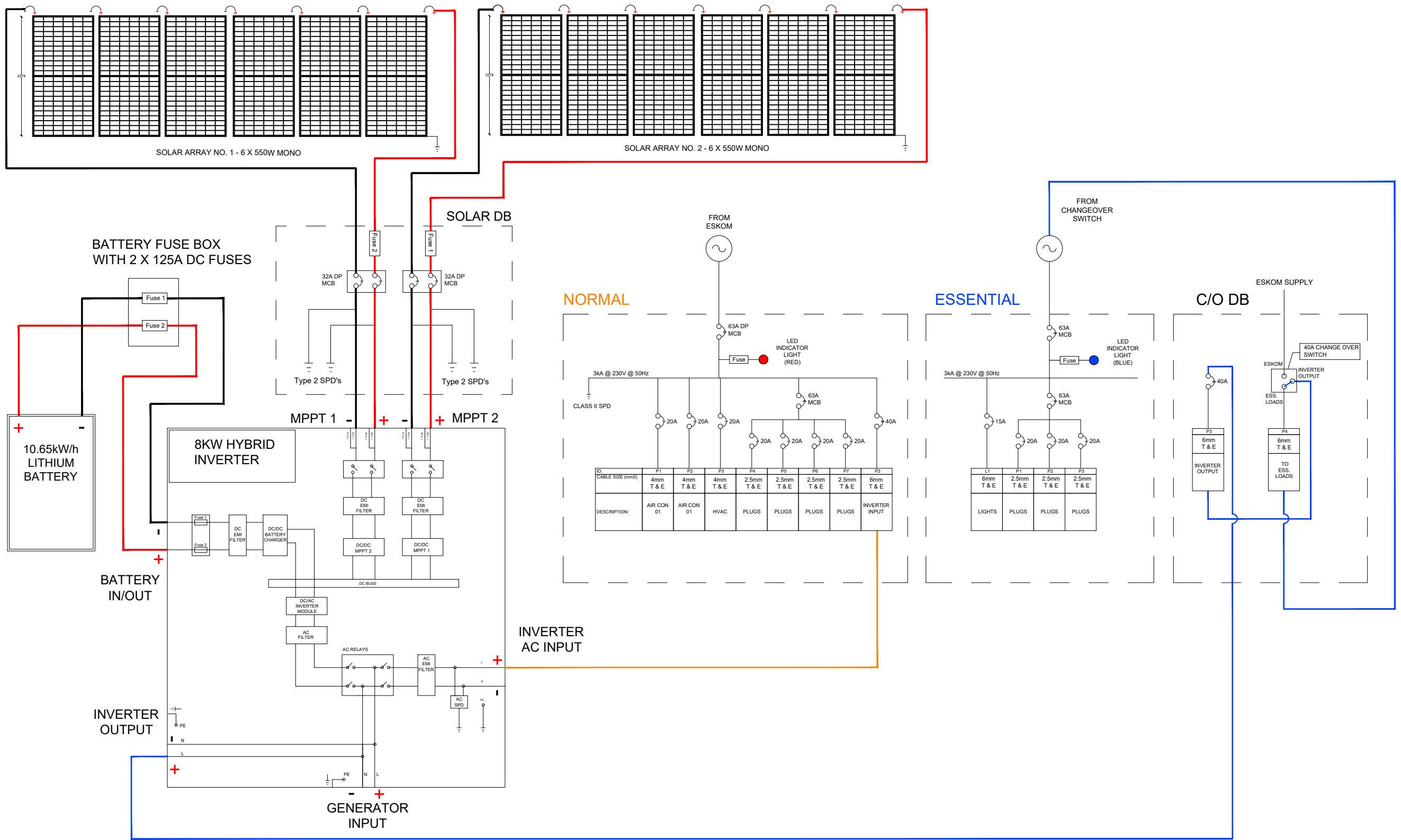
service
INDURATION OF CASH OFFICES OF THE FINANCIAL MANAGEMENT DIVISION SOUTH AFRICAN DEFENCE FORCE

WCS number
WCS 048275S

drawing title
FLOOR PLAN, AIRCONDITIONING AND VENTILATION INSTALLATION

ref.no	designed	M.R.
scale	drawn	L.D.
date	checked	M.R.
13/06/2019		

type number
drawing number
048275ME_AC_01 Rev: 2



NORMAL

ESSENTIAL

C/O DB

ID	CABLE SIZE (mm ²)	P1	P2	P3	P4	P5	P6	P7	P8
	4mm T & E	4mm T & E	4mm T & E	2.5mm T & E	2.5mm T & E	2.5mm T & E	2.5mm T & E	2.5mm T & E	6mm T & E
DESCRIPTION:	AIR CON 01	AIR CON 01	HVAC	PLUGS	PLUGS	PLUGS	PLUGS	PLUGS	INVERTER INPUT

L1	P1	P2	P3
6mm T & E	2.5mm T & E	2.5mm T & E	2.5mm T & E
LIGHTS	PLUGS	PLUGS	PLUGS

REVISIONS			
No	Date	By	Description



CUSTOMER	SAI 14 BATTALION
TITLE	HYBRID SOLAR SYSTEM SCHEMATIC DIAGRAM

DRAWN	CHECKED	APPROVED
D.C	G.G	G.G
SCALE	COPYRIGHT RESERVED	DATE
NTS		01.11.2024
DRAWING No.		REV
CAR10E/1024/SAI/300		0



public works
& infrastructure

Department:
Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA

SPECIFICATION

FOR THE

SECURITY INSTALLATION (PART 2 OF 2)

AT

DOD: 14 SAI BATTALION – FINANCIAL ACCOUNTING SATELLITE OFFICE

MTHATHA

ELECTRICAL ENGINEER

CARIFRO CONSULTING ENGINEERS
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Belgravia
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Contact Person: David Carr
Tel No. 076 865 9044
Email: david@carifro.com

DEPARTMENT OF PUBLIC WORKS

PRD II BUILDING
29 SUTHERLAND STREET
PRIVATE BAG X5007
UMTHATHA
5100

DATE: JUNE 2025

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PART B: SECURITY WORK

NOTICE TO TENDERERS

1. The tenderer for the principal contract shall submit additional information regarding the installer of the Electrical Installation together with the returnables enclosed with the tender enquiry documents
2. The Contractor, on acceptance of his tender for the principal contract shall submit within the period stated, the information indicated on the forms following immediately after the Summary of the bills of quantities for this installation.

SPECIFICATION FOR SECURITY WORK

PART 1: GENERAL

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PART 1: GENERAL

1 TESTS

After completion of the works and before first delivery is taken, a full test will be carried out on the installation for a period of sufficient duration to determine the satisfactory working thereof. During this period the installations will be inspected and the Contractor shall make good, to the satisfaction of the Representative/Agent, any defects which may arise.

The Contractor shall provide all instruments and equipment required for testing and any water, power and fuel required for the commissioning and testing of the installations at completion.

2 MAINTENANCE OF INSTALLATION

With effect from the date of the First Delivery Certificate the Contractor shall at his own expense undertake the regular servicing of the installation during the maintenance period and shall make all adjustments necessary for the correct operation thereof.

If during the said period the installation is not in working order for any reason for which the Contractor is responsible, or if the installations develop defects, he shall immediately upon being notified thereof take steps to remedy the defects and make any necessary adjustments.

Should such stoppages however be so frequent as to become troublesome, or should the installation otherwise prove unsatisfactory during the said period the Contractor shall, if called upon by the Representative/Agent or the Director-General, at his own expense replace the whole of the installations or such parts thereof as the Representative/Agent or the Director-General may deem necessary with apparatus specified by the Representative/Agent or the Director-General.

3 REGULATIONS

The installation shall be erected and tested in accordance with the following Acts and Regulations:

- (i) SANS 10142: "Code of Practice for the Wiring of Premises",
- (ii) Occupational Health and Safety Act, 1993 (Act 85 of 1993),
- (iii) National Building Regulations and Building Standards Act 1996 (Act 29 of 1996)
- (iv) Private Security Industry Regulation Act 56 of 2001

4 QUALITY OF MATERIALS

Only materials of first-class quality shall be used and all materials shall be subject to the approval of the Department.

Wherever applicable the material is to comply with the relevant South African Bureau of Standards, specifications, or to British Standard Specifications, where no SABS Specifications exist.

5 LOCATION

This system set is to provide Access Control for the Cash Office at the DOD 14 SAI BATTALION in Mthatha.

6 SITE CONDITIONS

The following site conditions will be applicable and all equipment shall be capable of operation at these conditions.

- a) Height above sea level : 701m
- b) Maximum temperature : 35.0 DB: 23WB summer
- c) Minimum temperature : -2.0 DB winter
- d) Relative Humidity at lowest temperature : 95 %

PART 2: INSTALLATION DETAILS

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PART 2: INSTALLATION DETAILS

1 SCOPE OF THE WORK

The Contractor's work shall consist of, but shall not necessarily be limited to the supply, interim storage and installation of the following:

- Supply and installation of Access Control system
- Supply and installation of CCTV system
- Supply and installation of Alarm system
- Wiring and termination of control cables
- System interfaces
- Production of as-built drawings
- Production of maintenance and operating manuals x 3
- Testing, integration & commissioning and handover
- 12 months defects liability period.

2 ELECTRONIC EQUIPMENT

All equipment supplied must be according to the specification below and suitable for the relevant supply voltage, and frequency.

3 DRAWINGS

The drawings generally show the scope and extent of the proposed work and shall not be held as showing every minute detail of the work to be executed.

4 SERVICE CONDITIONS

All equipment shall be designed for the climatic conditions appertaining to the service.

5 ACCESS CONTROL SYSTEM

The access control system shall be of the On-line type, controlling access to the three (3) main doors of the Finance Office, as shown on drawing no. CAR10E/1023/SAI/201E

The access control and monitoring system shall comprise of the following components:

- Weatherproof (IP65) & Vandal Proof (IK09) Terminal reader (Biometric, RFID Card & Keypad)
- Control Panel with Power Supply Unit
- Magnetic Strike Lock
- Door Position Sensor
- Host PC with Monitor
- Monitoring and Database Software
- Required cabling and connectors for the system

The access control and monitoring system shall be capable of the following:

- Expand to accommodate multiple users on LAN and WAN configurations.
- Full on-line operation, but also allow off-line operation with no loss of functionality or security during a host or network failure.
- Allow LAN/WAN connection using TCP/IP connectivity.
- Scheduled back-up of database.
- Easy to use Graphic User Interface.
- Graphic display of Access Control Locations to facilitate monitoring of alarms or malfunction.
- Digital Video Recorder software integration.
- Memory enhanced controllers, with battery back-up, which will enable continuous access control even under power failure conditions.
- Tracking of users to show last location entered.
- On-line downloading of updated firmware while hardware remains in-situ.
- Additional security control and online monitoring with CCTV.

5.1 ACCESS CONTROL TERMINAL READER

The access control terminal reader shall be a high-end integrated terminal complete with either an 125KHz or 13.56MHz card reader

The access control terminal shall be weather & vandal proof which protects the electronics against vandalism and tampering. The external terminal shall be housed in a vandal resistance 314 Stainless steel encloser.

The terminal shall come with a suitable method of indicating, system ready, card rejected and or card accepted. All locations shall make use of a **reader-in / reader-out** system to ensure maximum access control. The readers shall come complete with Wiegand interface, employing Wiegand protocol and have an internal buzzer which shall indicate when the door is left open longer than the programmed time.

The installation of the readers shall be co-ordinated to ensure that they are installed on the correct positions and firmly fixed to walls or door frames, with fixing screws that require specialist tools to remove.

To ensure that a card is not used by different people to enter an area, readers shall be mounted on both sides of the door and a valid exit is required before the card can be used for entry. It shall be possible to create reports of who is in which anti-pass back area at any given moment from the PC.

The anti-pass back must be able to:

- Determine that an exit has been performed before the card can enter again
- Gives information of who is in what area on the PC.

In addition to the above, the reader must also comprise the following functions:

- Multiple Authentication Methods & Dual Fingerprint Authentication
- 2.8" Colour LCD Screen
- IP65 /IK09
- 20 000 Card Users
- 15 000 Fingerprints (1:N)
- 64 000 Event Log
- Capacitive Keypad
- Identification 1:1000 < 1 second
- Connects to UNIS Template Management and Access Control Software Suite

5.2 ELECTRO MAGNETIC DOOR LOCKS

The doors controlled by the access control system shall be fitted with magnetic locks, as indicated on the drawings. The magnetic locks shall be of floating strike plate type with a minimum pressure rating of 270kg. Locks shall contain circuitry for status indication.

The security contractor shall be responsible for all fixing materials, brackets, co-ordination et cetera to successfully and aesthetically mount the locks on the secure side of the doors. It is important to note that the contractor shall obtain the engineer's approval of his mounting detail before installation commences. No claims in this regard shall be considered after the award of this contract.

5.3 HOST PC

The Host PC shall be dedicated to processing communications from the controllers to the database (server), as well as polling the controllers and logging the data.

PC minimum requirements:

Type	: Industrial Computer, Aluminium Body, fanless design.
Model	: Ionn Alpha-IW12
CPU	: Intel Core i5 1235U (Ten Core, 12 Threads, 4.4GHz)
Memory	: 2 x DDR4 3200 SODMM memory (Max 64GB)

RAM	: 1 x 16GB DDR4 Chip
Display Chip	: Intel Iris Xe Graphics
Display Port	: 4 x HDMI HD Ports
Front I/O	: 4 x USB2.0 & 1 x Power Switch
Back I/O	: 1 x DC, 3 X USB3.0, 4 x HDMI, 1 x USB2.0, 2 x Intel LAN
Storage	: Supports 1 x M.2 M-Key 2280 slot, E-Key 2330 slot, B-Key 3042
Hard Disk Drive	: 1TB with 8GB free
Monitor	: 24" HD LED
OS	: Windows Pro 11

The PC shall include all other ancillary equipment, namely, all the necessary operating software (Windows 11 Professional), Optical Wheel Mouse USB, Keyboard USB mouse, keypad et cetera.

Please Note: The PC shall come complete with the Access Control and NVR management system software.

5.4 BREAK GLASS UNIT

Green break glass units installed on the secure side at each controlled door are to be wired to release the door magnet in the event of an emergency or reader failure.

All manual call units shall comply with the standard specification; the location of which shall be as indicated on the drawings, mounted at 1400mm AFFL. These call units must all have **plastic covers** to prevent unauthorised operation. Each call point shall be supplied with a plastic reset key to be held in the Guard room.

5.5 POWER SUPPLIES

The Security system shall be fed from 230 V mains power supply from the distribution board in the Cash Office. The conductors shall be 2.5mm PVC insulated conductors and earth fed from a 20-amp single pole 5kA circuit breaker directly to each socket outlet mounted in the ceiling void.

The standby batteries for the system shall be capable of supporting the system as specified.

6 CCTV SYSTEM

The CCTV system shall be IP based and provide visual monitoring and recording, both externally and internally. The CCTV cameras are to be supplied and installed by the Security Contractor in the positions shown on Drawing Number CAR10E/1023/SAI/201E.

The CCTV system shall comprise of the following components:

- IP cameras (External & internal)
- Network Video Recorder (NVR)
- Video Management Software
- Host PC with Monitor
- CAT 6 cabling with RJ45 connectors

The CCTV cameras are to be supplied and installed by the Security Contractor in the positions shown on Drawing Number CAR10E/1023/SAI/201E.

The tenderer shall provide a 15U, free-standing, 19-Inch, 600mm deep network cabinet with two fans and two shelves. Cabinet to be of robust design with adjustable feet and heavy-duty castors, manufactured with high-strength steel. The rack shall house the digital recorder, access control equipment and all other ancillary equipment, allowing inlets for bringing in all the cabling from cameras and security equipment.

The minimum requirements for the various Surveillance components are as follows:

6.1 IP CAMERAS (IPC-HDBW3449R1-ZAS-PV), equal or similar approved by engineer.

- 4MP 1/2.7" CMOS image sensor, low luminance, and high-definition image.
- Outputs max. 4 MP (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and IR LED; the max. IR illumination distance is 50 m and max warm light distance is 40 m.
- ROI, SMART H.264 +/-H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 512 G Micro SD card; built-in dual MICs; 1-ch speaker; Support two-way talk.
- 12 VDC/PoE power supply, easy for installation.
- IP67, IK10 protection.
- Sound and light alarm (red and blue lights).
- SMD 4.0.
- Supports AI SSA and one-tap arming and disarming.
- SMD area can be set in warm light areas that support triggering alarms.

6.2 NETWORK VIDEO RECORDER (DHI-NVR5216-EI), equal or similar approved by engineer.

- Wiz Sense Technology c/w Perimeter Protection and Facial Recognition
- 16 Channels
- Removable hard drive
- 2 monitor outputs
- Audio facility (16 channel)
- Built-in DVD writer
- Built-in Ethernet port
- 2HDD hard disk capacity
- IO box & keypads suitable for the system including RS422 & RS485 communication medium

6.3 VIDEO MANAGEMENT SOFTWARE (DSS Express), equal or similar approved by engineer.

- Triplex operation (simultaneous local playback, record, and live viewing)
- Per camera setting for speed, quality and motion detection.
- Advanced search by Time/Date. Event, Alarm and Camera.
- Pre-event recording
- Alarm notification
- Pre/post alarm recording
- Multi-camera display upon alarm
- Record Overwrite Mode
- Transmission medium specification:
 - Coaxial cable c/w bnc connectors et cetera
 - RG62 (solid core coax) without amplifier.
 - CAT 6E

6.4 VIDEO MONITOR (LS19A330NHMXZN), equal or similar approved by engineer.

- 24" FHD Colour monitor
- Industry standard BNC, S-video, Audio Loop Through
- NTSC/PAL auto recognition

- High viewing angle
- Under/Over scan function

7 ALARM SYSTEM

The alarm system shall be stand alone and provide protection against unwanted intruders when the Cash Office is closed. The alarm system is to be supplied and installed by the Security Contractor with equipment positions shown on Drawing Number CAR10E/1023/SAI/201E.

The Alarm system shall comprise of the following components:

- 10 Zone Control Panel in Metal enclosure complete with
- Wall mounted Power Supply 16V AC 1.25 AMP 20 VA
- 32 Character LCD Key Pad
- PIR Quad Detectors
- Infrared window beam detectors
- Emergency Panic Button/s at Teller desks
- Magnetic Door Contact to external door
- LTE / 4G / 3G / 2G / GSM Communicator Module with Sim Card
- Alarm Siren

8 MAKING GOOD

The successful tenderer will be responsible for the making good of existing finishes where damaged during installation of any security equipment.

The existing finishes shall be made good to the satisfaction of the Engineer.

9 ADMITTANCE TO CONTROLLED AREAS

The supply and installation of the security systems will be the responsibility of the Security Contractor and not that of the Electrical Contractor who will however be responsible for the necessary conduit runs to the various electrically operated equipment with the assistance of the Security Contractor.

The control of the Cash Office will be as follows and all the equipment required shall be by the Security Contractor:

9.1 SEQUENCE OF CONTROL

ENTRANCE TO THE FINANCE OFFICE

- The authorised person shall open the main Security Gate with a key.
- He/she will then open the Main Security Door via Fingerprint, Card and/or Pin number.
- The card reader will then release the Main Security Door magnetic lock and the person shall gain access into the Cash Office
- Opening of the Main Security Door will trigger the alarm.
- Once inside, the authorised person will have 30 seconds to key in their secret pin code onto the keypad, which will be situated next to the door.
- Once the code is accepted, the alarm will deactivate.
- Access to the Main Office and Cash Cubicle Security doors will be via Fingerprint, Card and/or Pin number

NOTE:

- Emergency panic Buttons will activate the Alarm System regardless of whether the system is armed or not.
- All doors will be fitted with Door closers which will cause the doors to close automatically once left unattended.

EXITING THE FINANCE OFFICE

- Opening of the Security doors to Exit the offices will be via Fingerprint, Card and/or Pin number
- Opening of the Main Security Gate will be via Release Button or Key
- Once all staff have exited the office, the authorised person shall arm the Alarm system via the key pad and exit the Main Security door Gate.
- Once inside, the authorised person will have 30 seconds to key in their secret pin code onto the keypad, which will be situated next to the door.
- Once the code is accepted, the alarm will deactivate.
- Access to the Main Office and Cash Cubicle Security doors will be via Fingerprint, Card and/or Pin number

10 TESTING & COMMISSIONING

10.1 GENERAL

The Contractor shall draw up procedures for and execute the following tests and inspections:

- Site tests
- Acceptance tests.

The Employer and Engineer will have the right to attend any or all tests and inspections.

The Contractor must supply all the necessary test equipment to execute the tests.

All completed test and inspection reports must be submitted to the Engineer before acceptance of the system.

The Contractor must execute all tests and submit completed test reports to the Engineer. The Engineer shall have the right to request the Contractor to perform all or some tests in the presence of the Engineer and the Employer.

In the event of failure of the system to pass any of the tests, a re-test will be required within 14 days of the original test. The cost associated with all re-tests will be for the account of the Contractor.

10.2 SITE TESTS

Site tests must be executed on all systems/modules before integration of the system takes place.

The site tests must ensure that all sub-systems function according to the specifications and comply with the specification.

The site test procedures must contain at least the following:

- I. Sub-system/module description and identification number.
- II. Test equipment needed/used.
- III. Logical explanation of actions and/or measurements to be taken in order to determine the compliance with the specifications.
- IV. Test reports containing the following:
 - Specified values/requirements.
 - Measures/observed values/requirements.
 - Remarks
 - Name and capacity of person that performed the tests
 - Date of tests.
 - Space for acceptance of the test report by the Engineer.

The test procedures must be submitted to the Engineer for approval at least two weeks before the scheduled tests.

10.3 ACCEPTANCE TESTS AND COMMISSIONING

Acceptance tests shall be executed on the integrated system as a whole before the first delivery can take place.

Successful completion of the acceptance tests will serve as proof that the system is functioning as required. No handing over of the system or execution of Tests on Completion in terms of the Contract shall take place before the Engineer is satisfied that the system conforms to specification.

11 TRAINING OF STAFF

The Contractor shall undertake to train the Employer's operating staff to be fully competent in the operation of the equipment.

Before or on completion of the installation, when the system is in running order, the Contractor shall instruct operators in the operation of the system until they are fully conversant with the equipment and the handling thereof.

The Contractor shall take full responsibility for the safety of personnel during training and for the quality of work produced by such personnel under his supervision.

Training of staff and personnel shall be equivalent to eight full hours of training, done over two to three days.

12 WARRANTY PERIOD

It shall be possible to do maintenance in one equipment section, without interfering with the other parts of the security system.

The contractor shall include in the tender price a "free" warranty period of 12 months. This shall include all repairs/replacement of defective equipment.

When any equipment becomes defective during the warranty period the Contractor will be contacted by the Employer to repair or replace the defective equipment.

13 OPERATING AND MAINTENANCE MANUALS

13.1 OPERATING MANUALS

The Sub-Contractor shall supply as part of the contract three (3) copies of the Operation Manual and "As Built" drawings of the complete Security system.

- (a) The Manuals shall contain the name, address and all telephone numbers of the Company supplying and installing the Security system.
- (b) The location of the main switch that isolates all power to the Security system.
- (c) Details of maintenance service agreement as specified in this section.

The Manuals must be compiled in layman's language.

At least one month before commissioning, one draft copy shall be submitted to the Engineer for comments and approval. Operating manuals shall give a clear description of and the purpose of the installation.

- (a) Paper copies of all approved drawings and diagrams.
- (b) Detailed description of the different components used in the installation.
- (c) On- and off switching procedures.

- (d) Guidelines for routine-test to be carried out by the End User inclusive of the periods during which tests are to be undertaken.
- (e) Detailed instructions for procedures to be followed during a fault or alarm.

The Sub-Contractor shall in addition to documentation specified above and/or in the Standard Specifications furnish the Engineer with two sets of documents and drawings related to the concept, design, installation, commissioning, operation and maintenance of the entire system and its components, on or before the First Delivery date.

The following drawings are required:

- Layout drawings
- Schematic drawings
- Internal circuit drawings and schematic circuit drawings of all panels, etc.

The following documents are required:

- Full description of the system.
- Operating instructions.
- Installation instructions.
- Commissioning instructions.
- Maintenance instructions, maintenance schedule and troubleshooting guide.
- Parts Books, Spares Books and Log Book
- Inspection Certificates and Reports

13.2 MAINTENANCE MANUALS

Three complete sets of maintenance manuals (Technical) prepared in English shall be supplied by the Contractor.

At least one month before commissioning a draft copy shall be submitted to the Engineer for comments and approval.

Maintenance manuals shall consist of the following:

- (a) A general description of the system.
- (b) A general description of the controls.
- (d) Detailed monthly, quarterly, semi-annually and annual preventative maintenance procedures (if necessary).
- (e) Manufacturer's catalogues clearly indicating type, and model of equipment supplied.
- (h) List of spare parts for all equipment.
- (i) Fault tracing/finding procedures.

Manuals shall be bound in a firm hard cover.

The information shall be clear and readable and supplied with an index.

The above-mentioned manuals shall be available at first delivery. Delivery of the installation will not be accepted without the manuals.

14 AS-BUILT DRAWINGS

The as-built drawings shall contain the following (where installed):

- Position of all field devices
- Conduit and trunking routes and sizes

15 DEVIATIONS FROM THE SPECIFICATION

Explanatory remarks with regard to special technical characteristics of the Tender, or with regard to variations to the design of the building structure to house the installation or remarks regarding the contents of the Specification, shall be comprehensively described in the blank space provided on this page (or in an accompanying letter). Should no remarks be made or special requirements stated, it shall be interpreted that the installation offered in the Tender duly complies with the requirements of the Specification. Should remarks of requirements be included in an accompanying letter, the Tenderer shall so state in the space provided on this page.

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SIGNATURE OF TENDERER:

16 SCHEDULES OF MATERIALS

THE FOLLOWING SCHEDULES SHALL BE COMPLETED IN FULL. FAILURE TO DO SO WILL RESULT IN THE TENDER BEING DECLARED NULL AND VOID

1.		MAIN PANEL/CONTROLLER	
	(i)	Make	.....
	(ii)	Model	.....
	(iii)	Battery size – A/H	.....
	(iv)	Back-up time	.....
	(v)	Printer port	y/n.....
	(vi)	Computer and network port	y/n.....
	(vii)	Input power supply	.....
	(ix)	Country of origin	.....
	(x)	Number of terminals per controller	.....
2.		DOOR CONTROLLER	
	(i)	Make	.....
	(ii)	Model	.....
	(iii)	Battery size – A/H	.....
	(iv)	Back-up time	.....
	(v)	Country of origin	.....
3.		INTRUSION SYSTEM	
	(i)	Manufacturer	.....
4.		IP CAMERAS	
	(i)	Make	.....
	(ii)	Model A	.....
	(iii)	Model B	.....
5.		NETWORK VIDEO RECORDER	
	(i)	Make	.....
	(ii)	Model	.....
6.		HOST PC	
	(i)	Make	.....
	(ii)	Model	.....
7.		MONITOR	
	(i)	Make	.....
	(ii)	Model	.....
8.		NETWORK SWITCH	
	(i)	Make	.....
	(ii)	Model	.....

= END OF SPECIFICATION =

PART 3: BILLS OF QUANTITIES

PREAMBLE

TYPICAL ITEMS/PREAMBLES TO BE INSERTED IN THE BILLS OF QUANTITIES

1. The conditions of contract and the application of the Contract Price Adjustment Provisions (if applicable) shall be as set out in Main Contract.
2. The descriptions in these bills of quantities shall be read in conjunction with the specification.
3. The unit rate for each item in the Bills of Quantities shall include for all materials, labour, profit, transport, etc., everything necessary for the execution and complete installation of the work in accordance with the description.
4. The Bills of Quantities shall not be used for ordering purposes. The Contractor shall check the lengths of cables and overhead conductors on site before ordering any of the cables. Any allowance for off-cuts shall be made in the unit rates.
5. The rates shall exclude Value-Added Tax and the total carried over to the final summary.
6. All material covered by this **Specification** shall, wherever possible, be of South African manufacture.

DOD: 14 SAI BATTALION SATELLITE FINANCIAL OFFICE - MTHATHA

PRICE SUMMARY

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>TOTAL AMOUNT</u>
Bill No. 1	Preliminary & General (25%)	_____
Bill No. 2	ICT	_____
Bill No. 3	HVAC	_____
Bill No. 4	Electrical	_____
Bill No. 5	Solar Backup System	_____
Bill No. 6	Sundry Items	_____
	Sub Total	_____
	Add VAT @ 15%	_____
	Total	=====

TOTAL TENDER PRICE CARRIED OVER TO PART "A" OF THE TENDER DOCUMENTS (EXCLUDING VAT) _____

NAME OF FIRM:

TENDERER'S SIGNATURE

NAME IN PRINT

ADDRESS

.....

.....

DATE

TEL. NO.

FAX NO.

DOD: 14 SAI BATTALION SATELLITE FINANCIAL OFFICE - MTHATHA**BILL NO. 1: PRELIMINARY & GENERAL**

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1,1	Compliance with General Conditions of Contract, Insurances, Sureties, Travelling, Accomodation, Out of Town Allowances, etc	Sum	1		
1,2	Establishment on site and provision of buildings and storage facilities including de-establishment of site, cleaning and tidying up in the course of the contract	Sum	1		
1,3	Full time contract management and supervision of the works including liason with other Contractors and submission of installation programme, including weekly revisions thereto from time to time or as may be required by the Engineer	Months	4		
1,4	Liason with SAI 14 (user department)	Item	1		
1,5	Provide a Health and Safety Plan in accordance with the OHS Act, Construction Regulations, attend H&S meetings called by the Client, report on compliance with H&S Plan	Item	1		
TOTAL CARRIED FORWARD TO SUMMARY PAGE					

DOD: 14 SAI BATTALION SATELLITE FINANCIAL OFFICE - MTHATHA**BILL NO. 3: SECURITY SYSTEM****DOD: 14 SAI BATTALION SATELLITE FINANCIAL OFFICE - MTHATHA****BILL NO. 2: ICT**

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2,1	CCTV SYSTEM				
2,1,1	4MP IR Vari-focal Dome WizSense Network Camera, External, as specified	No.	5		
	Supply	No.	5		
	Install				
2,1,2	4MP Smart Dual Light Vari-focal Eyeball WizSense Network Camera, Internal, as specified	No.	3		
	Supply	No.	3		
	Install				
2,1,3	Network Video Recorder, 16Ch, 2HDD, 1U, as specified	No.	1		
	Supply	No.	1		
	Install				
2,1,4	SATA 8TB SAS Hard Drive – 3.5", 7200rpm	No.	2		
	Supply	No.	2		
	Install				
2,1,5	18 Port Cloud Managed Desktop Switch with 16-Port POE	No.	1		
	Supply	No.	1		
	Install				
2,1,6	Cat 6 CCA Grey UTP Cable	m	100		
	Supply	m	100		
	Install				
2,1,7	RJ45 CAT6 UTP Modular Plug	each	40		
	Supply	each	40		
	Termination				
2,2	ACCESS CONTROL SYSTEM				
2,2,1	Electric Rim Gate Lock, Inward Open RHS with 2 x Release buttons, C/W power supply and backup battery	Sum	1		
	Supply	Sum	1		
	Install				
2,2,2	Magnetic Door Lock 280kg	each	3		
	Supply	each	3		
	Install				
2,2,3	Access Control Reader (Biometric, Card & Keypad), as specified	No.	6		
	Supply	No.	6		
	Install				
2,2,4	Vandal Resistant enclosure for A/C Reader	No.	1		
	Supply	No.	1		
	Install				
2,2,5	Access control cards, as specified	No.	20		
	Supply	No.	20		
	Program				
2,2,6	Emergency green break glass unit, as specified	No.	3		
	Supply	No.	3		
	Install				
2,2,7	Door Closer (HEAVY DUTY) 100-120KG	each	4		
	Supply	each	4		
	Install				
2,2,8	1.5mm ² 2 core flex cable for Mag locks	m	30		
	Supply	m	30		
	Install				
TOTAL CARRIED FORWARD TO NEXT PAGE					

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Balance Brought Forward				
2,2,9	Mylar 6 Core shielded cable				
	Supply	m	50		
	Install	m	50		
2,2,10	3A Power Supply Unit, 12.8VDC, C/W 7AH Lithium Life-PO4 battery in lockable enclosure for Access Control Doors				
	Supply	Sum	3		
	Install	Sum	3		
2,2,11	Access Door Controller, 4 Door c/w power supply unit and enclosure				
	Supply		1		
	Install		1		
2,3	ALARM SYSTEM				
2,3,1	10 Zone hybrid control panel c/w metal enclosure				
	Supply	No.	1		
	Install	No.	1		
2,3,2	Alarm keypad, as specified				
	Supply	No.	1		
	Install	No.	1		
2,3,3	LTE / 4G / 3G / 2G / GSM Communicator Module, c/w Sim Card				
	Supply	No.	1		
	Install	No.	1		
2,3,4	Surface mount magnetic contacts for doors, as specified				
	Supply	No.	8		
	Install	No.	8		
2,3,5	Passive Infrared and Microwave sensor with Anti cloaking Technology, c/w ceiling mounted bracket (internal)				
	Supply	No.	3		
	Install	No.	3		
2,3,6	Passive Outdoor infrared Linear Beam Detectors, min 1m, (set of 2)				
	Supply	No.	2		
	Install	No.	2		
2,3,7	External Alarm sounder and Strobe Light, 65 dB (A) at 8 metres				
	Supply	No.	1		
	Install	No.	1		
2,3,8	6 Core CCA Buglar Alarm Cable				
	Supply	m	100		
	Install	m	100		
2,3,9	Wall mount transformer 16V AC 1.25 AMP 20 VA				
	Supply	each	1		
	Install	each	1		
2,4	ICT GENERAL				
2,4,1	15U 600mm (d) Floor standing rack, complete with PSU, as specified				
	Supply	No.	1		
	Install	No.	1		
2,4,2	24 Port Cat6 Rack Mount Patch Panel				
	Supply	No.	1		
	Install	No.	1		
2,4,3	Cat6 Patch Leads				
	Supply	No.	18		
	Install	No.	18		
2,4,4	19-inch Rack Mount Brush Panel				
	Supply	No.	1		
	Install	No.	1		
TOTAL CARRIED FORWARD TO NEXT PAGE					

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Balance Brought Forward				
2,4,5	Industrial Computer, all Aluminium Fanless design, as specified				
	Supply	No.	1		
	Install	No.	1		
2,4,6	Windows 11 Pro Operating System for above computer				
	Supply	No.	1		
	Install	No.	1		
2,4,7	24" FHD LED Monitor, super slim design, as specified				
	Supply	No.	2		
	Install	No.	2		
2,4,8	CCTV & Access Control Software, as specified				
	Supply	No.	1		
	Install	No.	1		
2,4,9	Testing, Intergrating and Commissioning of the complete ICT system, including CCTV, Access Control and Alarm System	Sum	1		
2,4,10	Any items not mentioned above, yet required for the successful completion of the ICT installation	Sum	1		
TOTAL CARRIED FORWARD TO SUMMARY PAGE					

DOD: 14 SAI BATTALION SATELLITE FINANCIAL OFFICE - MTHATHA**BILL NO. 3: MECHANICAL SERVICES**

Item No	Description	Unit	Qty	Rate	Total Amount
3,1	RECTANGULAR DUCTWORK Unless otherwise specified all sheet metal ductwork shall be supplied with internal insulation and shall be c/w all the necessary galvanized iron rod and angle supports				
3,1,1	Rectangular ductwork 250x 250 Supply Install	m m	1 1		
3,1,2	Rectangular ductwork 200x 250 Supply Install	m m	4 4		
3,2	DUCTWORK FITTINGS				
3,2,1	Transformation Ø150 to 250 x 250 app 200 long Supply Install	each each	1 1		
3,2,2	Transformation Ø150 to 200 x 250 app 200 long Supply Install	each each	1 1		
3,3	SOUND ATTENUATING FLEXIBLE DUCTWORK Supply and Install Aluminium ducting internally and externally, as shown on the AC drawings				
3,3,1	Aluminium Ducting Dia Ø225 Supply Install	m m	7 7		
3,4	INLINE DUCT FANS				
3,4,1	Integrated mixed flow fan c/w sound absorbent material, all the necessary controls 140 m3/hr fresh air capacity suitable for continuous duty Supply Install	each each	1 1		
3,5	GRILLES & LOUVERS				
3,5,1	Sheet metal plenum box for 250 x 250 grille c/w Ø225 spigot for flexible duct Supply Install	each each	2 2		
3,5,2	DD type grille c/w regulating damper powder coated white 250 x 250 Supply Install	each each	2 2		
3,5,3	Aluminium air inlet louvers back to back c/w 50 mm blades, bird and vermin proof mesh 250 x 250 Supply Install	each each	1 1		
3,5,4	120m3/hr wall mounted exhaust air fan c/w automatic operated back draft shutter Supply Install	each each	1 1		
3,5,5	400X100mm aluminium natural anodised telescopic door grille Supply Install	each each	3 3		
TOTAL CARRIED FORWARD TO NEXT PAGE					

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Balance Brought Forward				
3,6	FILTER HOUSING				
3,6,1	Filter frame suitable for 250 x 250 primary 50 mm deep pleated filters	each	3		
3,7	FILTERS				
3,7,1	Farr or equal Lockpleat 250 x 250 x 50 washable primary filter	each	1		
3,8	AIR CONDITIONING				
3,8,1	Full service to Single phase inveter heatpump mid wall split unit for Back Office room, 3.6kW	each	1		
3,8,2	Full service to Single phase inveter heatpump mid wall split unit for Front Office room, 1.6kW	each	1		
3,8,3	Allowance for replacement of Air Conditioner parts	each	1		
3,8,4	Supply & Installation of Mini lime condensate pump kit c/w trunking for the air-conditioning unit in Secure Office	each	1		
3,8,5	Supply of Remote Control c/w batteries for Air Conditioner Units	each	2		
3,9	EXTRACTION FAN				
3,9,1	150mm Dia, 240 m3/hr wall mounted extraction fan c/w automatic operated back draft shutter for toilet	each	1		
3,10	TESTING AND COMMISSIONING				
3,10,1	Ventilation systems	Sum	1		
3,11	DOCUMENTATION				
3,11,1	Supply all test records and approval documentation	Sum	1		
3,12	O&M MANUALS				
3,12,1	Compilation of Operating and Maintenance Manuals for approval by Mechanical Engineer. Copies in Lever arch file format and Soft Copy Format on Data Stick/DVD	Item	3		
3,12,2	"As Builts" drawings	Set	3		
3,13	OTHER				
3,13,1	Any items not mentioned above, yet required for the successful completion of the ICT installation	Sum	1		
TOTAL CARRIED FORWARD TO SUMMARY PAGE					

DOD: 14 SAI BATTALION SATELLITE FINANCIAL OFFICE - MTHATHA**BILL NO. 4: ELECTRICAL INSTALLATION**

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
4,1	CONDUIT & ACCESSORIES				
	All conduit and accessories to be PVC. The supply and installation of conduit prices to include cutting, drawboxes, fixing material, all conduit accessories, round boxes, locknuts, bushes, cover plates et cetera.				
4,1,1	20mm PVC Conduit cast in concrete				
	Supply	m	50		
	Install	m	50		
4,1,2	25mm PVC Conduit cast in concrete				
	Supply	m	50		
	Install	m	50		
4,1,3	Galvanised bosal, 100 x 50 x 50 switch boxes for 20mm dia conduit built into brickwork or cast into concrete (coverplates measured elsewhere)				
	Supply	each	5		
	Install	each	5		
4,1,4	Galvanised bosal, 100 x 100 x 50 switch boxes for 25mm dia conduit built into brickwork or cast into concrete (coverplates measured elsewhere)				
	Supply	each	5		
	Install	each	5		
4,1,5	2x4 Blank Metal Cover Plate				
	Supply	each	6		
	Install	each	6		
4,1,6	4x4 Blank Metal Cover Plate				
	Supply	each	4		
	Install	each	4		
4,1,7	PVC Round Box, 2 Way for 20mm Conduit, Chased in Wall				
	Supply	each	4		
	Install	each	4		
4,1,8	PVC Round Box, 2 Way for 25mm Conduit, Chased in wall				
	Supply	each	8		
	Install	each	8		
4,1,9	Nylon Draw Tape				
	Supply	m	50		
	Install	m	50		
4,2	CONDUCTOR				
	The supply and installation of PVC insulated single core stranded copper conductors drawn into conduits				
4,2,1	4mm ² PVC black & red				
	Supply	m	50		
	Install	m	50		
4,2,2	2.5mm ² PVC black & red				
	Supply	m	100		
	Install	m	100		
4,2,3	2,5mm ² PVC green/yellow earth wire				
	Supply	m	100		
	Install	m	100		
4,2,4	1.5mm ² PVC black & red				
	Supply	m	50		
	Install	m	50		
TOTAL CARRIED FORWARD TO NEXT PAGE					

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Balance Brought Forward				
4,3	CIRCUIT BREAKERS & ISOLATOR				
4,3,1	20Amp DP surface mounted isolator with cover plate for Air Conditioner	each	1		
	Supply	each	1		
	Install				
4,3,2	20Amp SP 5kA circuit breaker mounted in DB	each	4		
	Supply	each	4		
	Install				
4,4	SOCKET OUTLET				
4,4,1	16Amp Single Socket Outlet surface mounted in ceiling space with cover plates for Mag locks and Door Controler	each	4		
	Supply	each	4		
	Install				
4,5	POWER SKIRTING				
	The supply and installation of modular pre-galvanised 3 compartment power ducting complete with 2 separate clip on steel full length covers colour sandstone				
4,5,1	3 compartment P801 power ducting complete with 2 covers	m	10		
	Supply	m	10		
	Install				
4,5,2	16 Amp 3 pin flat dedicated socket outlet Blue	each	10		
	Supply	each	10		
	Install				
4,5,3	RJ 45 data outlets	each	5		
	Supply	each	5		
	Install				
4,6	LIGHTING				
	The supply and installation of lthe following light fittings				
4,6,1	20W LED Bulkhead with Aluminium body and trim Ring, White	m	1		
	Supply	m	1		
	Install				
4,6,2	LED Light Red for Walk in Safe, mounted above door	m	1		
	Supply	m	1		
	Install				
TOTAL CARRIED FORWARD TO SUMMARY PAGE					

DOD: 14 SAI BATTALION SATELLITE FINANCIAL OFFICE - MTHATHA**BILL NO. 5: SOLAR INSTALLATION**

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5,1	INVERTER WORKS				
	The supply and installation of Hybrid inverter & batteries, wall mounted next to existing main DB				
5,1,1	8kW 1P Hybrid Inverter	each	1		
	Supply	each	1		
	Install				
5,1,2	AC Inverter DB c/w 40A DP Input and Output circuit breakers, 40A Manual Bypass Switch, Voltage indicators, Warning labels, etc.	each	1		
	Supply	each	1		
	Install				
5,1,3	Double Compartment PVC Trunking (OBO) with cover	m	10		
	Supply	m	10		
	Install				
5,1,4	10.65kW Lithium Battery 51.2V, 200Ah, 1C c/w wall mounting brackets, battery cables & lugs	each	2		
	Supply	each	2		
	Install				
5,1,5	DC Battery protection, c/w 125A Fuse Holder and Fuses	each	2		
	Supply	each	2		
	Install				
5,1,6	25mm ² DC Battery Cable - Red & Black	m	20		
	Supply	m	20		
	Install				
5,2	SOLAR WORKS				
5,2,1	555W Tier 1 Solar Panels	each	12		
	Supply	each	12		
	Install				
5,2,2	Solar Mounting Structure per panel	each	12		
	Supply	each	12		
	Install				
5,2,3	6mm Solarflex DC cable	m	180		
	Supply	m	180		
	Install				
5,2,4	MC4 connectors with fuses	each	4		
	Supply	each	4		
	Install				
5,2,5	Earthing of solar panels, connected together and earthed via down conductor and earth spike	Sum	1		
5,2,6	Solar Combiner box c/w 20A DC Fuse Holders & 16A DC fuses & SP SPD's for two (2) PV strings	each	2		
	Supply	each	2		
	Install				
5,2,7	Surface mounted PVC trunking, 40mmx40mm, White, 3m length, on Wall or Ceiling Space	each	12		
	Supply	each	12		
	Install				
TOTAL CARRIED FORWARD TO NEXT PAGE					

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Balance Brought Forward				
5,3	ELECTRICAL WORKS				
5,3,1	40A DP Input circuit breaker rated in accordance with inverter installed in existing Main DB complete with bridging conductors	each	1		
	Supply	each	1		
	Install				
5,3,2	6mm Twin & Earth Input & output cabling				
	Supply	m	10		
	Install	m	10		
	Terminations	each	2		
5,3,3	Seperation of Main DB creating Essential & Non-Essential sections of DB - colour coded blue, voltage indicators, safety/warning labels as per SANS 10141-2	Sum	1		
5,3,4	Earthing system complete - earth spike, clamp, conduit & earthing conductor	Sum	1		
5,3,5	Re-locating of existing circuitry between existing, non essential & essential sections	each	10		
5,4	GENERAL				
5,4,1	Certificate Of Compliance for complete Solar Installation	Sum	1		
5,4,2	Programming & Commissioning of the Complete System	Sum	1		
5,4,3	Sundries - Hilti nails, insulation tape, drill bits, holesaws, ferrules etc	Sum	1		
5,4,4	Roof structure inspection and approval by Structural Engineer	Sum	1		
5,4,5	Any items not mentioned above, yet required for the successful completion of the ICT installation	Sum	1		
TOTAL CARRIED FORWARD TO SUMMARY PAGE					

DOD: 14 SAI BATTALION SATELLITE FINANCIAL OFFICE - MTHATHA**BILL NO. 6: SUNDRY ITEMS**

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
6,1	Housekeeping, sundry items, consumable stocks, such as circuit beads engraving, labels etc.	Sum	1		
6,2	Provide for the earthing of all the building to wiring code including provision for readily accessible earth terminal in low voltage room for other services	Sum	1		
6,3	Testing of complete Electrical installation in terms of SANS 10142-1 & Provide Certificate of Compliance for Distribution Board	Sum	1		
6,4	Compile Operating and Maintenance Manuals for approval by Electrical Engineer. Copies in Lever arch file format and Soft Copy Format on Data Stick/DVD	Item	3		
6,5	Training of end-user	Sum	1		
TOTAL CARRIED FORWARD TO PRICE SUMMARY PAGE					

PART 4: PARTICULARS OF SECURITY CONTRACTOR

(To be completed by tenderers and submitted together with the tender form).

TENDER NO: _____ REFERENCE: _____

SERVICE: _____

NAME OF SECURITY CONTRACTOR: _____

ADDRESS _____

SECURITY CONTRACTOR'S REGISTRATION BODY & NUMBER _____

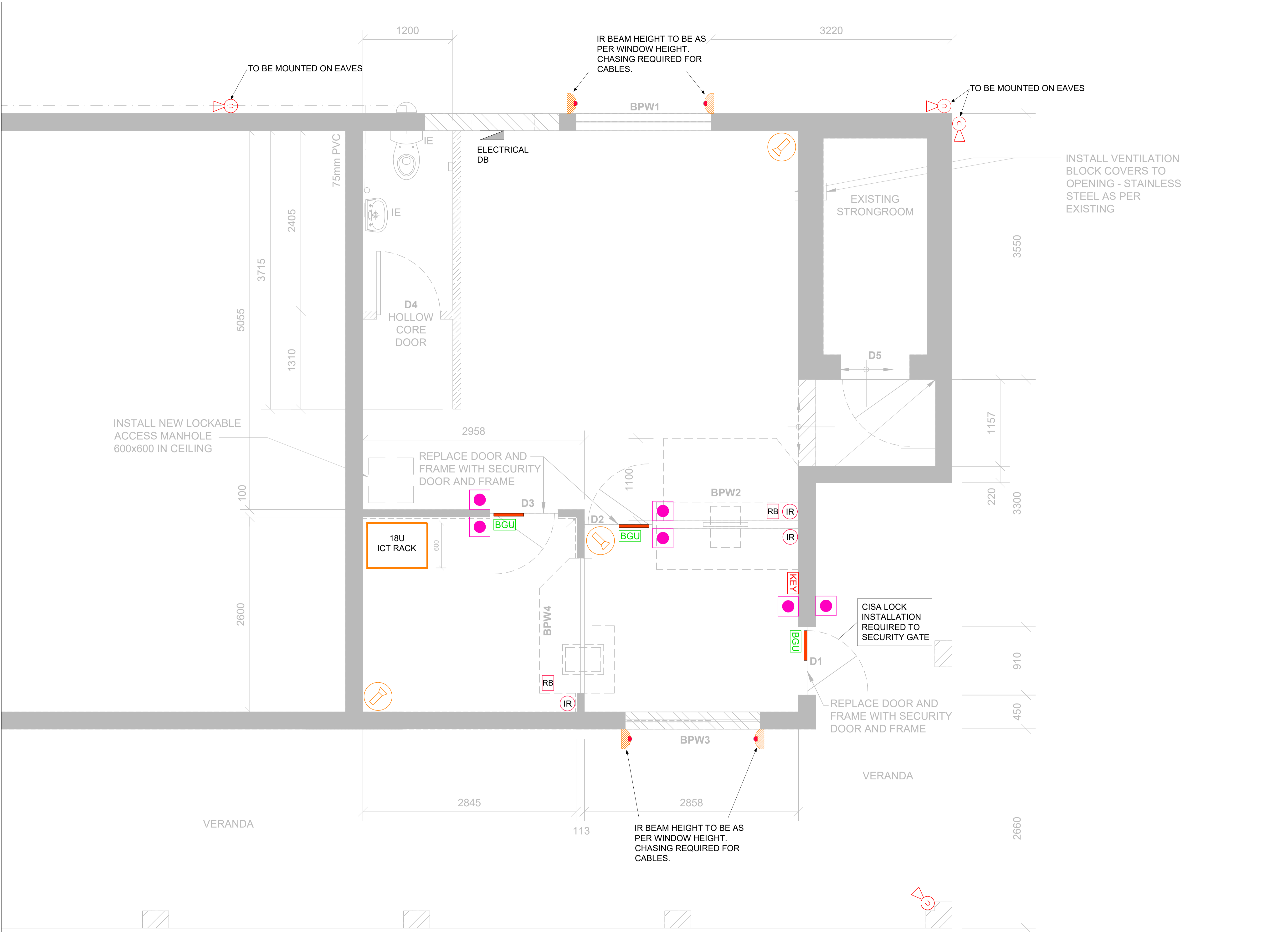
DATE _____ SIGNATURE OF TENDERER _____

PART 5: DRAWINGS

ICT Layout

CAR10E/1023/SAI/201E

ICT LEGEND	
	ACCESS CONTROL POINT @ 1000mm AFFL
	PASSIVE INFRARED MOTION SENSOR, CEILING MOUNTED
	WINDOW INFRARED BEAMS
	ALARM KEY PAD @ 1400mm AFFL
	BREAK GLASS UNIT
	EXTERNAL 4MP IP DOME CAMERA, IP67, IK10
	INTERNAL 4MP IP DOME CAMERA
	HEAVY DUTY MAG LOCK
	SECURITY GATE RELEASE BUTTON



DRAWING TITLE

**CASH OFFICE
ICT LAYOUT**

CLIENT: DEPARTMENT OF DEFENSE

PROJECT: MTHATHA 14 SAI BATTALLION

SECTION: FINANCE OFFICE

DETAILS: FINANCE OFFICE ICT LAYOUT

DESIGNED L.N.	DRAWN T.S.	APPROVED L.N.
SCALE N.T.S.	COPYRIGHT RESERVED	DATE 01.11.2024
DRAWING No. CAR10E/1023/SAI/201E		REV 0

DEPARTMENT OF PUBLIC WORKS

14 SAI BATTALION MTHATHA: UPGRADE OF FINANCE ACCOUNTING SATELLITE OFFICE – COMPLETION OF WORKS:

CONTRACT NO. 2

TENDER NO. MTH06/25

OHS Specification

Site Specific Health and Safety Specification

Issued in terms of the Occupational Health and Safety Act, 1993
And Related Regulations

**14 SAI BATTALION MTHATHA: UPGRADE OF FINANCE
ACCOUNTING SATELLITE OFFICE – COMPLETION OF WORKS**

Client: Department of Public Works
OHS Agent: Newground Projects

Prepared by:
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CHSA 063/2017
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1 SCOPE

This site-specific health and safety specification in respect of the UPGRADE OF THE FINANCE ACCOUNTING SATELLITE OFFICE.

Detailed scope of work as per the tender document hereunder:

The major items of work forming part of this Contract are described below in general terms, with more details provided in the specifications and tender drawings.

Building works:

- Replacement of floor carpet tiles in the main building;
- Installation of vinyl tiles in the cashiers offices and toilet;
- Application of epoxy paint to the strong room floor;
- Installation of locking mechanism to the strong room door;
- Repair/replacement of bullet-proof windows in the cashiers offices;
- Installation of air bricks in the toilet;
- Installation of two new solid doors in the cashiers office;
- Supply and installation of a wooden work bench in the cashiers office;
- Fastening loose fittings to joinery works;
- Varnishing all woodworks; Repair cracks in walls;
- Painting interior walls and ceilings; Painting exterior plastered walls; and
- Treating parts of new exterior face brick work to match existing.

Electrical Works:

- Assess, undertake works as required and issue CoC for new DB board installed by others;
- Repairs to interior lights; Installation of isolators for the AC units;
- Inspection and completion of electrical wiring as required;
- Placing of installed data cabling into power skirtings or conduits; and
- Commissioning of all installed works.

Security Installation Works:

- Installation of access control equipment; Completion of alarm system installed by others;
- Completion of CCTC works installed by others; and
- Commissioning of all installed works.

This specification establishes general requirements to enable the Principal Contractor to satisfy aspects of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) and the relevant related regulations. The Principal Contractor is required to develop, implement and maintain a site-specific health and safety plan. The Client is required to provide certain site-specific information to the Principal Contractor and a health and safety specification for the works to enable such a plan to be formulated. Accordingly, this specification on its own cannot ensure compliance with the requirements of the Act.

A Client must stop any contractor from executing construction work which is not in accordance with the contractor's health and safety plan for the site or which poses to be a threat to the health and safety of persons.

2 DEFINITIONS

As per the Occupational Health and Safety Act (85 of 1993) and the relevant regulations and applicable standards.

2.1 List of Abbreviations

CC	Compensation Commissioner
Pr CHSA	Professional Construction Health and Safety Agent
CHSO	Construction Health and Safety Officer
DoL	Department of Labor
GAR	General Administration Regulations
GSR	General Safety Regulations
HCSR	Hazardous Chemical Substances Regulations
HIRA	Hazard Identification Risk Assessment
H&S	Health and Safety
OHSA	Occupational Health and Safety Act No. 85 of 1993 (as amended)
OHSS	Occupational Health and Safety Specification
PA	Principal Agent
PSHSS	Project Specific Health and Safety Specification
PC	Principal Contractor
PPE	Personal Protective Equipment
SANS	South African National Standards (Authority)
SDS	Safety Data Sheet
SWP	Safe Work Procedure

2.2 Key References

Occupational Health and Safety Act No. 85 of 1993 and Regulations (as amended)

Related Relevant Regulations (Electrical Installations Regulation etc.)

Compensation for Injury and Occupational Diseases Act No. 100 of 1993 (as amended)

SANS codes.

3 INTERPRETATION

The Act and its associated regulations shall have precedence in the interpretation of any ambiguity or inconsistency between it and this specification.

3.1 Purpose of the Project Specific Health and Safety Specification (PSHSS)

The PSHSS is a performance specification to ensure that the Client and any bodies that enter into formal agreements with the Client / Agents, Professional Service Consultants (Engineers, Quantity Surveyors and Architects), Principal Contractors and Contractors achieve an acceptable level of OHS performance.

No advice, approval of any document required by the PSHSS, such as hazard identification and risk assessments, or any other form of communication from the Client shall be construed as acceptance by the Client of any obligation that absolves the Principal Contractor from achieving the required level of performance and compliance with legal requirements. Furthermore, there is no acceptance of liability by the Client, which may result from the Principal Contractor failing to comply with the PSHSS, i.e. the Principal Contractor remains responsible for achieving the required performance levels.

A Mandatory Agreement in terms of Section 37.2 of the OHSA will be signed between parties prior to any works commencing. The PSHSS highlights the aspects to be implemented over and above the minimum requirements of current legislation. Requirements may be changed should new risks or issues are identified that could not have been foreseen during the design phase of the project, or during the construction phase. Any new legislation or standards (legislated or determined by the Client) that are promulgated or accepted during the contract will automatically be applied.

It should be noted that this OHSS in no way relieves the Contractor of any of his responsibilities set out in the Act and Regulations

3.2 Requirements

A project specific H&S Plan in response to this PSHSS will be subject to approval by the Pr CHSA. This must include all supporting documentation as required to verify the H&S system of the Principal Contractor.

4 GENERAL REQUIREMENTS

4.1 Risks

Principal Contractor to provide a detailed risk assessment for the entire works on site, which will include, but not limited to:

- Site establishment (specified area)
- Working at heights
- Scaffolding
- Working at an operational facility
- Management of hazardous chemical substances
- Public safety
- Noise
- Dust generated from construction activities.

All risk assessments and safe working procedures must be communicated to all persons on site and a communication register must be available on site in the H&S file.

4.2 Specified Hazardous Chemical Substances

Material Safety data sheets are to be provided for those products that will be utilized by the Principal Contractor.

The material safety data sheets should be not less than three years (3) old and should contain 16 points and be relevant for South African Products utilized.

5 OCCUPATIONAL HEALTH & SAFETY MANAGEMENT

5.1 Notification of Construction Work

Notification of Construction Work must be completed and submitted to DOL by the contractor, this will only be possible after the Contractor's appointment. The contractor will only be allowed to get access to site AFTER approval of the Notification of Construction by DOL and the relevant health and safety file.

The Principal Contractor must keep a copy of the Notification of construction in the health and safety file always.

5.2 Appointment of Competent Site Personnel

The CEO (OHSA S16.1) of the PC will take overall responsibility for the appointment of competent site staff for the duration of the project. Should the CEO not be personally involved in the project, the H&S responsibilities are to be delegated to the Site Agent (OHSA 16.2). Knowledge and training in H&S are required, and certificates indicating H&S training as well as experience to be included in CVs.

5.3 Construction manager

A competent construction manager must be appointed to manage all the works on this single site and have training and experience. The Construction Manager will be overall in charge of Health and Safety on site.

A detailed CV must be submitted with certified certificates.

5.4 Construction supervisors

Competent supervisors must be appointed for activities and ensuring occupational health and safety compliance on site.

A detailed CV must be submitted with certified certificates.

5.5 Construction safety officer

A Part-Time SACPCMP registered, construction health and safety officer must be appointed in writing for the duration of the contract. The part time officer must visit site at least twice a week.

The Construction Health and Safety Officer appointed for this project must be in possession of a health and safety qualification equivalent to National Diploma or SAMTRAC.

The appointed health and safety officer must have at least two years' health and safety related experience in construction work.

The appointment of the health and safety officer must be approved by the Client's Health and Safety Agent.

A detailed CV must be submitted with certificates.

5.6 Health and Safety Representative

Irrespective of the number of employees, a health and safety representative must be on site full time, who reports to the part time officer and the construction manager.

5.7 Activity Specific risk

In compiling the risk assessment for this project, the Principal Contractor will need to take into consideration the following (but not limited too)

- Working at heights
- Scaffolding
- Hazardous material /chemicals
- Public safety
- Waste management
- Noise
- Dust generated from construction activities

Refer to the attached baseline risk assessment for hazards and risk to be considered in preparation of the risk assessments.

5.8 Health Risks and Medical Surveillance

All employees and persons on site must be in position of a valid work specific medical certificate issued by a qualified a registered occupational medical practitioner, prior to any work commencing.

Due to the nature of works, ergonomic risks must be considered and adequately addressed.

All employees must have an exit medical completed. It is preferable that the Principal Contractor have a medical surveillance programme in place.

5.9 Ergonomic Risk

The Principal Contractor must ensure that as far as reasonably practicable, ergonomic related hazards are analyzed, evaluated and addressed in a risk assessment. Control measures must be part of the Risk assessment and implemented.

5.10 Scaffolding

Before any scaffolding work may commence on site the principal contractor must appoint a scaffolding erector and inspector with the relevant competency certificates.

It is envisaged that scaffolding will be required.

The principal contractor must ensure that all scaffolding on site is built according to the Construction Regulations 16 and SANS 10085 code.

A copy of the SANS10085 must be on file.

5.11 Emergency Procedures

An emergency plan and procedure that is appropriate to the risks is required prior to commencement on site. It is advised that the system should be simple and easy for any worker to follow.

The emergency plan is to ensure the inclusion of local service providers. Such arrangements should be made with these persons prior to the commencement of the project. Local emergency telephone numbers must be made part of the emergency procedure.

The general principals of emergency management are to be applied as it applies to the hierarchy of control and management. The PC must consult with the Client in preparation of an emergency.

All employees that will be working on site must be trained in the emergency procedure and a training register must be available in the H&S file.

The Emergency plan and Emergency contact details must be displayed at the site camp notice board.

5.12 First Aiders and First Aid Equipment

At least 1 Level 3 first aider to be trained for the site. First aiders shall be available and accessible on site always and be able to work as a team when responding to any emergency on the project.

The first aider's emergency numbers must be displayed on the first aid box and notice boards.

Appropriately stocked first aid kits, at least to the requirements of the Annexure to the GAR, are to be available at all times to assure continual availability and access on site.

5.13 Fires and Emergency Management

Attention to emergency planning and procedures is very important. Requirement in terms of identified risks:

- Explosions
- Fire;
- Public Safety;
- Falls from heights,
- Working in awkward positions

The emergency plan is to ensure the inclusion of local service providers where possible. Such arrangements should be made with these persons prior to the commencement of the project; the emergency plan is to include the risks of fire on site and related to any specific activities.

Fire extinguishers will be appropriate for the risk and in sufficient numbers to deal with the type of fires that could occur.

5.14 Incident Management and Compensation Claims

All incidents and accidents are to be investigated. All serious incidents involving any form of disabling injury or fatality are to be reported to the Client /CHS Agent immediately. This shall be confirmed in writing following the incident.

5.15 Personal Protective Equipment (PPE) and Clothing

The PC is to provide PPE to all employees free of charge:

The wearing of the identified SANS approved PPE at all times is non-negotiable.

- Hard hats;
- Protective footwear;
- Overalls that ensure worker visibility.
- Eye protection (if required)
- Hearing protection (if required)
- Reflective jackets (no bibs)
- Respiratory protection (minimum of FF2)
- Safety Harnesses with Big Hooks; and
- Any other necessary PPE identified from SDSs and/or risk assessments.

5.16 Occupational Health and Safety Signage

On-site H&S signage is required. Signage shall be posted up at fixed or temporary working areas, or other potential risk areas/operations. These signs shall be in accordance with the requirements of the General Safety Regulations or SANS requirements as amended.

- Construction board.
- 'hard hat area' or other PPE requirements noted;
- First aid box positions (including vehicles); and
- Fire extinguishers.

Signs shall be posted at areas of work on site indicating that maintenance, repair work is being conducted and that persons should take note of H&S requirements.

5.17 Transportation of Workers

Transportation of workers shall comply with the relevant legislative requirements. No equipment or materials may be transported in the same vehicle.

5.18 Induction of Employees and Visitors, General H&S Training

A simple, formal induction program is to be prepared which is site specific. Inductions must be carried out for all workers (all persons on site) and visitors (including Client) to the site.

Pre-task training or DSTI is required to ensure workers are familiar with the risks and H&S measures of the work or tasks to be done.

6 COMMUNICATION ON SITE

All H&S communication during the project between the PR CHSA and the PC will be done in writing, including the issue and responses to non-conformances and H&S audit results.

7 CARE OF WORKERS ON SITE (WELFARE)

Toilet facility must be made available on site by the principal contractor (Male & Female toilets). Mobile Toilets will be placed in the areas where employees are working on site. Mobile toilets must be serviced weekly and proof by the service provider kept as proof for audit purposes. The Principal Contractor is to ensure that enough toilet paper is available, and hand wash facilities.

8 DISCIPLINE, ALCOHOL AND SUBSTANCE ABUSE

All employees (management included) are to follow instructions given in the interest of H&S. Disciplinary action is to be imposed on those who do not follow such instructions or company rules or policies.

A drug and alcohol abuse policy by the Principal Contractor must be put in place and all employees on site must sign an attendance register as acknowledgement.

No person can work or access site if under the influence of alcohol or other substances that could have an impact on their own or others safety.

9 WORKING AT HEIGHTS

A practical site-specific fall plan needs to be compiled by a competent qualified person as per unit standard 229994.

All person working at heights must have working at height training as per the unit standard 229998.

All employees to be declared medically fit by an occupational medical practitioner. (all exposures including working at heights)

10 DEMOLITIONS

The PC must take into consideration the noise and dust that will be generated during removal of existing and new activities (cutting and grinding)

11 INCLEMENT WEATHER

Workers must be supplied with adequate protective clothing.

Windy conditions to be monitored.

12 WASTE MANAGEMENT

A well-documented practical waste management plan to be available.

The Principal Contractor must ensure that cleaning of painting equipment is done properly and ensure nothing enters the existing storm water system.

Protection of existing Client property to be maintained.

13 ACCESS AND DELIVERY

Access and delivery will need to be arranged and should not cause any disruptions.

14 PUBLIC SAFETY

The principal contractor must ensure that all his employees refrain from any loitering in the premises where no work is taking place.

No interaction between workers and public to be entertained.

15 CONTRACTOR MANAGEMENT

The principal contractor must ensure proper management of any contractor appointed by him.

Each contractors OHS documents must be approved by the principal contractor prior to conducting any work.

16 AUDITING

External auditing by the H&S agent will be conducted at least monthly and inspections as required.

The site will be inspected, and the documentation audited relative to the activities and H&S plan and Client OHS specification.

The PC shall ensure that all his contractors are audited at least monthly and records thereof made available to the H&S agent.

17 NON-CONFORMANCES

Should, at any time, the works, or part of the works, be stopped due to unsafe acts or non-compliance with the Clients OHS Spec or PCs H&S Plan; the PC shall have no claim for extension of time or any other compensation.

18 CLOSE OUT

Upon completion of the project the H&S file of the PC and all Contractors will be required to provide a consolidated H&S document to the Client.

All records will be in electronic format and submitted to the OHS Agent for approval.

19 HEALTH AND SAFETY FILE

The documentation submitted and approved following the awarding of the contract will be used to form the H&S file. The H&S file is required to be laid out in a logical manner, and documentation filed within the file is to be easily accessible.

The following completed information shall be included (but not be limited to) as part of the index:

- The Site-Specific Health and Safety Specification. (from Client)
- Baseline risk assessment
- The H&S Plan and the approval by Client;
- Appointment by Client;
- Mandatory agreement with Client;
- Record of Competencies (CVs) and appointments;
- Training Records;
- Method statements;
- Risk assessments;
- Safe work procedures;
- Emergency and injury management;
- Safety data sheets
- Medical surveillance records;
- Registers; and
- Employee records (who is on site)

20 ENQUIRES

Please do not hesitate to contact the undersigned for any queries relating to the site-specific health and safety specifications

Name: Prascilla Valentyn
Cell Number: 082 946 0336
Pr.CHSA/063/2017

DEPARTMENT OF PUBLIC WORKS

14 SAI BATTALION MTHATHA: UPGRADE OF FINANCE ACCOUNTING SATELLITE OFFICE – COMPLETION OF WORKS:
CONTRACT NO. 2

TENDER NO. MTH06/25

HIV/AIDS SPECIFICATION FOR CIVIL CONTRACTS



DEPARTMENT OF PUBLIC WORKS

HIV/AIDS

SPECIFICATION FOR

CIVIL CONTRACTS

APRIL 2004

NOTES TO CONSULTANTS

Please include the following note to tenderers, Preliminary and General items and HIV/AIDS Specification with the attached schedules in the appropriate Sections in the Bill of Quantities.

NOTES TO TENDERERS

HIV/AIDS AWARENESS

These Bills of Quantities contain items relating to HIV/AIDS awareness. The items have been included under “Section 1: Preliminary and General” to enable tenderers to allow for the implementation of prescribed HIV/AIDS awareness specifications for the benefit of all workers under this Contract.

Tenderers must take note that compliance with the HIV/AIDS awareness programme is compulsory.

SECTION 1: PRELIMINARY AND GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	C
		HIV/AIDS AWARENESS					
1. ...		It is required of the Contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities. Provision for pricing of HIV/AIDS awareness is made under items 1. to 1. ... hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained The Contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the Representative/Agent, notwithstanding the provisions of Clause 52 of the General Conditions of Contract for Works of Civil Engineering Construction 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					
1. ...		AWARENESS CHAMPION Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification	Sum				
1. ...		AWARENESS WORKSHOPS Selection and appointment of a competent Service Provider approved by the Representative/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	Sum				
1. ...		POSTERS, BOOKLETS, VIDEOS, ETC. Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification	Sum				
1. ...		ACCESS TO CONDOMS Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification	Sum				
1....		MONITORING Monitoring HIV/AIDS awareness of workers, providing the Representative/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	Sum				

SECTION

HIV/AIDS SPECIFICATION

HIV/AIDS REQUIREMENTS

1 SCOPE

This specification contains all requirements applicable to the Contractor for creating HIV/AIDS awareness amongst all of the Workers involved in this project for the duration of the construction period, through the following strategies:

- Raising awareness about HIV/AIDS through education and information on the nature of the disease, how it is transmitted, safe sexual behaviour, attitudes towards people affected and people living with HIV/AIDS, how to live a healthy lifestyle with HIV/AIDS, the importance of voluntary testing and counselling, the diagnosis and treatment of Sexually Transmitted Infections and the closest health Service Providers
- Informing Workers of their rights with regard to HIV/AIDS in the workplace
- Providing Workers with access to condoms and other awareness material that will enable them to make informed decisions about sexual practices

2 DEFINITIONS AND ABBREVIATIONS

2.1 Definitions

Service Provider: The natural or juristic person recognised and approved by the Department of Public Works as a specialist in conducting HIV/AIDS awareness programmes

Service Provider Workshop Plan: A plan outlining the content, process and schedule of the training and education workshops, presented by a Service Provider which has been approved by the Representative/Agent

Worker: Person in the employ of the Contractor or under the direction or supervision of the Contractor or any of his Sub-contractors, who is on site for a minimum period of 30 days in all

2.2 Abbreviations

HIV	:	Human Immunodeficiency Virus
AIDS	:	Acquired Immune Deficiency Syndrome
STI	:	Sexually Transmitted Infection

3 BASIC METHOD REQUIREMENT

The Contractor shall, through a Service Provider, conduct onsite workshops with the Workers

The Service Provider shall develop and compile a Service Provider Workshop Plan to be presented at the workshops and which will be best suited for this project to achieve the specified objectives with regard to HIV/AIDS awareness.

The Service Provider Workshop Plan shall be based on the following information provided by the Contractor:

- Number of Workers and Sub-contractors on site
- When new Workers or Sub-contractors will join the construction project
- Duration of Workers and Sub-contractors on site

- How the maximum number of Workers can be targeted with workshops
- How the Contractor prefers workshops to be scheduled, e.g. three hourly sessions per Worker, or one 2.5 hour workshop per Worker
- Profile of Workers, including educational level, age and gender (if available)
- Preferred time of day or month to conduct workshops
- A Gantt chart reflecting the construction programme, for scheduling of workshops
- Suitable venues for workshops

The Contractor shall submit the Service Provider Workshop Plan for approval within 21 days after the tender acceptance date. After approval by the Representative/Agent, the Contractor shall make available a suitable venue that will be conducive to education and training

The Service Provider Workshop Plan shall address, but will not be limited to the following:

- 3.1 The nature of the disease;
- 3.2 How it is transmitted;
- 3.3 Safe sexual behaviour;
- 3.4 Post exposure services such as voluntary counselling and testing (VCT) and nutritional plans for people living with HIV/AIDS;
- 3.5 Attitudes towards other people with HIV/AIDS;
- 3.6 Rights of the Worker in the workplace;
- 3.7 How the Awareness Champion will be equipped prior to commencement of the HIV/AIDS awareness programme with basic HIV/AIDS information and the necessary skills to handle questions regarding the HIV/AIDS awareness programme on site sensitively and confidentially;
- 3.8 How the Service Provider will support the Awareness Champion;
- 3.9 Location and contact numbers of the closest clinics, VCT facilities, counselling services and referral systems;
- 3.10 How the workshops will be presented, including frequency and duration;
- 3.11 How the workshops will fit in with the construction programme;
- 3.12 How the Service Provider will assess the knowledge and attitude levels of attendees to structure workshops accordingly;
- 3.13 How the video will be used;
- 3.14 How the Service Provider will elicit maximum participation from the Workers;
- 3.15 A questions and answers slot (interactive session)

The Service Provider Workshop Plan shall encompass the Specific Learning Outcomes (SLO) as stipulated

4 HIV/ AIDS AWARENESS EDUCATION AND TRAINING

4.1 Workshops

The Contractor shall ensure that all Workers attend the workshops

The workshops shall adequately deal with all the aspects contained in the Service Provider Workshop Plan. A video of HIV/AIDS in the construction industry, which can be obtained from all Regional Offices of the Department of Public Works, is to be screened to Workers at workshops. In order to enhance the learning experience, groups of not exceeding 25 people shall attend the interactive sessions of the workshops

4.2 Recommended practice

4.2.1 Workshop Schedule

Presenting information contained in the Service Provider Workshop Plan can be divided in as many workshop sessions as deemed practicable by the Contractor, provided that all Workers are exposed to all aspects of the workshops as outlined in the Service Provider Workshop Plan

Breaking down the content of information to be presented to Workers into more than one workshop session however, has the added advantage that messages are reinforced over time while providing opportunity between workshop sessions for Workers to reflect and test information. Workers will also have an opportunity to ask questions at a following session

4.2.2 Service Providers

A database of recommended Service Providers is available from all Regional Offices of the Department of Public Works

4.2.3 HIV/AIDS Specific Learning Outcomes and Assessment Criteria

Workers shall be exposed to workshops for a minimum duration of two-and-a-half hours. In order to set a minimum standard requirement, the following specific learning outcomes and assessment criteria shall be met

4.2.3.1 UNIT 1: The nature of HIV/AIDS

After studying and understanding this unit, the Worker will be able to differentiate between HIV and AIDS and comprehend whether or not it is curable. The Worker will also be able to explain how the HI virus operates once a person is infected and identify the symptoms associated with the progression of HIV/AIDS

Assessment Criteria:

1. Define and describe HIV and AIDS
2. List and describe the progression of HIV/AIDS

4.2.3.2 UNIT 2: Transmission of the HI virus

After studying and understanding this unit, the Worker will be able to identify bodily fluids that carry the HI virus. The Worker will be able to recognise how HIV/AIDS is transmitted and how it is not transmitted

Assessment Criteria:

1. Record in what bodily fluids the HI virus can be found
2. Describe how HIV/AIDS can be transmitted
3. Demonstrate the ability to distinguish between how HIV/AIDS is transmitted and misconceptions around transmittance of HIV/AIDS

4.2.3.3 UNIT 3: HIV/AIDS preventative measures

After studying and understanding this unit, the Worker will comprehend how to act in a way that would minimise the risk of HIV/AIDS infection and to use measures to prevent the HI virus from entering the bloodstream

Assessment Criteria:

1. Report on how to minimise the risk of HIV/AIDS infection
2. Report on precautions that can be taken to prevent HIV/AIDS infection
3. Explain or demonstrate how to use a male and female condom
4. List the factors that could jeopardize the safety of condoms provided against HIV/AIDS transmission

4.2.3.4 UNIT 4: Voluntary HIV/AIDS counselling and testing

After studying and understanding this unit, the Worker will be able to recognise methods of testing for HIV/AIDS infection. The Worker will be able to understand the purpose of voluntary HIV/AIDS testing and pre- and post-test counselling

Assessment Criteria:

1. Describe methods of testing for HIV/AIDS infection
2. Report on why voluntary testing is important
3. Report on why pre- and post-test counselling is important

4.2.3.5 UNIT 5: Living with HIV/AIDS

After studying and understanding this unit, the Worker will be able to recognise the importance of caring for people living with HIV/AIDS and be able to manage HIV/AIDS

Assessment Criteria

1. List and describe ways to manage HIV/AIDS
2. Describe nutritional needs of people living with HIV/AIDS
3. Describe ways to embrace a healthy lifestyle as a person living with HIV/AIDS
4. Explain the need for counselling and support to people living with HIV/AIDS

4.2.3.6 UNIT 6: Treatment options for people with HIV/AIDS

After studying and understanding this unit, the Worker will be familiar with the various treatments available to HIV/AIDS infected or potentially HIV/AIDS infected people

Assessment Criteria

1. Discuss anti-retroviral therapy
2. List methods of treatment to prevent HIV/AIDS transmission from mother-to-child
3. Describe the need for treatment of opportunistic diseases for people living with HIV/AIDS
4. Describe post exposure prophylactics

4.2.3.7 UNIT 7: The rights and responsibilities of Workers in the workplace with regard to HIV/AIDS

After studying and understanding this unit, the Worker will be able to identify the rights and responsibilities of the Worker living with HIV/AIDS in the workplace. The Worker will recognise the importance of accepting colleagues living with HIV/AIDS and treating them in a non-discriminative way

Assessment Criteria:

1. Discuss the rights of a person living with HIV/AIDS in the workplace
2. Discuss the responsibilities of a person living with HIV/AIDS in the workplace
3. Report on why acceptance and non-discrimination of colleagues living with HIV/AIDS is important

4.3 **Displaying of plastic laminated posters and distribution of information booklets**

The Contractor shall obtain a set of four laminated posters conveying different key messages and information booklets, which are available from all Regional Offices of the Department of Public Works

The above-mentioned posters and information booklets have been prepared to raise awareness and to share information about HIV/AIDS and STI's

Posters or display stands shall be displayed on site as soon as possible, but not later than 14 days after the date of site handover

Posters shall be displayed in areas highly trafficked by Workers, including toilets, rest areas, the site office and compounds

The posters on display must always be intact, clear and readable

Information booklets must be distributed to all Workers as soon as possible, but not later than 14 days after site handover, or as soon as the Worker joins the site

5 PROVIDING WORKERS WITH ACCESS TO CONDOMS

The Contractor shall provide and maintain condom dispensers and make both male and female condoms, complying with the requirements of SABS ISO 4074, available at all times to all Workers at readily accessible points on site, for the duration of the contract. The Contractor may obtain condom dispensers from the Department of Health and condoms may be obtained from the Local Clinic or the Department of Health

At least one male and one female condom dispenser and a sufficient supply of condoms, all to the approval of the Representative/Agent, shall be made available on site within 14 days of site handover. Contractors should note that arrangements to obtain condoms from the Department of Health Clinics prior to site hand over may be necessary, to ensure that condoms are available within 14 days of site handover

Condoms shall be made available in areas highly trafficked by Workers, including toilets, the site office and compounds

6 ENSURING ACCESS TO HIV/AIDS TESTING AND COUNSELLING FACILITIES AND TREATMENT OF SEXUALLY TRANSMITTED INFECTIONS (STI)

The Contractor shall provide Workers with the names of the closest Service Providers that provide HIV/AIDS testing and counselling and Clinics providing Sexually Transmitted Infection (STI) diagnosis and treatment. Information on these Service Providers and Clinics must be displayed on a poster of a size not smaller than A1 in an area highly trafficked by Workers

7 APPOINTMENT OF AN HIV/AIDS AWARENESS CHAMPION

Within 14 days of site handover the Contractor shall appoint an Awareness Champion from amongst the Workers, who speaks, reads and writes English, who speaks and understands all the local languages spoken by the Workers and who shall be on site during all stages of the construction period. The Contractor shall ensure that the Awareness Champion has been trained by the Service Provider on basic HIV/AIDS information, the support services available and the necessary skills to handle questions regarding the HIV/AIDS programme in a sensitive and confidential manner

The Awareness Champion shall be responsible for:

- 7.1 Liaising with the Service Provider on organising awareness workshops;
- 7.2 Filling condom dispensers and monitoring condom distribution;
- 7.3 Handing out information booklets;
- 7.4 Placing and maintaining posters

8 **MONITORING**

The Contractor shall grant to the Representative/Agent reasonable access to the construction site, in order to establish that the Contractor complies with his obligations regarding HIV/AIDS awareness under this contract

The Contractor must report problems experienced in implementing the HIV/AIDS requirements to the Representative/Agent

The attached SITE CHECKLIST (SCHEDULE A) shall be completed and submitted at every construction progress inspection to the Representative/Agent

The attached SERVICE PROVIDER REPORT (SCHEDULE B) shall be completed and submitted on a monthly basis to the Department's Project Manager, through the Representative/Agent

The attached CONTRACTOR HIV/AIDS PROGRAMME REPORT (SCHEDULE C), a close out programme report, shall be completed by the Contractor at the end of the contract

SCHEDULE A

HIV/AIDS PROGRAMME : SITE CHECKLIST

When did construction commence _____

Name of Departmental Project Manager _____

Please refer to HIV/AIDS Programme activities during the reporting period

<i>Tick the block if Contractor satisfactorily complied with specifications</i>																												
DATE	PI				PI				PI				PI				PI				PI							
	D	D	M	M	D	D	M	M	D	D	M	M	D	D	M	M	D	D	M	M	D	D	M	M	D	D	M	M
Programme implemented within 14 days of site handover																												
Awareness champion on site																												
HIV/AIDS awareness service provider report																												
Male condom dispenser																												
Sufficient male condoms available																												
Male condom dispenser in a highly trafficked area																												
Female condom dispenser																												
Sufficient female condoms available																												
Female condom dispenser in a highly trafficked area																												
All four types of posters displayed																												
Posters in a good condition																												
Posters in a highly trafficked area																												
Posters displayed on local support services: clinic & VCT centre																												
Support service poster/s in highly trafficked area																												
Support service poster/s in a good condition																												

Not Applicable

SEE DRAWINGS

<i>Please indicate the applicable number for the reporting period</i>							
Workers on payroll (at PI)							
Sub-Contractors who will be on site for longer than 30 days (at PI)							
Workshop attendees							
Number of workshops held							
Scheduled workshops according to approved workshop plan							
Booklets distributed							
Male condoms distributed							
Female condoms distributed							

Representative/Agent							

Contractor							

Date of progress inspection (dd/mm/yy) _____

Reporting period: (dd/mm/yy)_____ to (dd/mm/yy) _____

Deviations from HIV/AIDS awareness programme plan:

Corrective actions

Representative/Agent

Departmental Project Manager

Date

Date

SCHEDULE B

HIV/AIDS AWARENESS PROGRAMME: SERVICE PROVIDER REPORT

Reporting period: (dd/mm/yy) _____ to (dd/mm/yy) _____

Number of workshops conducted in reporting period _____

Number of scheduled workshops according to approved workshop plan _____

Deviations from workshop plan:

State reasons for deviating from workshop plan:

Corrective actions:

Service Provider

Contractor

Date

Date

HIV/AIDS AWARENESS PROGRAMME : WORKSHOP CONTENT ADDRESSED

<i>Fill in the applicable information with regard to each workshop conducted</i>																												
DATE	W/S				W/S				W/S				W/S				W/S				W/S							
	D	D	M	M	D	D	M	M	D	D	M	M	D	D	M	M	D	D	M	M	D	D	M	M	D	D	M	M
Content of workshop: <i>(Mark the content included)</i>																												
SLO1																												
SLO2																												
SLO3																												
SLO4																												
SLO5																												
SLO6																												
SLO7																												
HIV/AIDS in construction video																												
Indicate the duration of the workshop in hours																												
Total number of Workers																												
Indicate workshop venue																												

SCHEDULE C

CONTRACTOR HIV/AIDS PROGRAMME REPORT

Project name _____

Project Location _____

Contract value of project (R) _____

Department of Public Works Project Manager _____

HIV/AIDS Programme duration: (dd/mm/yy) _____ to (dd/mm/yy) _____

AWARENESS MATERIAL

Describe location of posters displayed during the programme _____

Comments on posters _____

Indicate total number of booklets distributed _____

Comments on booklets _____

CONDOMS

Indicate total number of male condoms distributed _____

Indicate total number of female condoms distributed _____

Describe where male condom dispenser was placed _____

Describe where female condom dispenser was placed _____

HIV/AIDS WORKSHOPS

Indicate the total number of HIV/AIDS workshops conducted _____

Indicate the duration of workshops _____

Indicate the total number of Workers that participated in the HIV/AIDS workshops _____

Indicate the total number of Workers that were exposed to the video on HIV/AIDS in the Construction Industry _____

Comments on HIV/AIDS workshops on site _____

GENERAL

Briefly describe programme activities and satisfaction with outcome _____

Additional comments, suggestions or needs with regard to the HIV/AIDS awareness programmes on site

Yes	No	Currently developing one
-----	----	--------------------------

Please indicate if your company has a formal HIV/AIDS policy focussing on HIV/AIDS awareness raising and care and support of HIV/AIDS Workers

Please indicate if, to your knowledge, you have lost any workers during the duration of the project to HIV/AIDS related sicknesses. One or more of the following might indicate an HIV/AIDS related death:

Excessive weight loss
 Reactive TB
 Hair loss
 Severe tiredness

Coughing or chest pain
 Pain when swallowing
 Persistent fever
 Diarrhoea

Vomiting
 Meningitis
 Memory loss
 Pneumonia

Number of HIV/AIDS-related deaths _____

Contractor

Date

Departmental Project Manager

Date

DEPARTMENT OF PUBLIC WORKS
14 SAI BATTALION MTHATHA: UPGRADE OF FINANCE ACCOUNTING SATELLITE OFFICE – COMPLETION OF WORKS:
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PART C4: Site Information

Not Applicable

DEPARTMENT OF PUBLIC WORKS
14 SAI BATTALION MTHATHA: UPGRADE OF FINANCE ACCOUNTING SATELLITE OFFICE – COMPLETION OF WORKS:
CONTRACT NO. 2
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C4.1: Locality Map

SEE DRAWINGS