

REPUBLIC OF SOUTH AFRICA  
DEPARTMENT OF PUBLIC WORKS  
BILLS OF QUANTITIES  
FOR  
NTUZUMA SAPS:  
COMPLETION OF CCTV CONTROL ROOM  
WCS NO.: 046725

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**VOLUME THREE: THE CONTRACT**

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**QUANTITY SURVEYOR:**

EDGECOMBE & HAYES-HILL  
P O Box 25178  
Gateway  
4320

TEL: 031 566 2977

EMAIL: [ianhill@mitsol.co.za](mailto:ianhill@mitsol.co.za)

**ARCHITECT:**

DEPARTMENT OF PUBLIC WORKS  
DURBAN REGIONAL OFFICE  
Private Bag X54315  
Durban  
4000

TEL : 031 207 3131

EMAIL: [sumesh.govender@dpw.gov.za](mailto:sumesh.govender@dpw.gov.za)

**STRUCTURAL ENGINEERS:**

TGC ENGINEERS  
P.O. Box 446  
Pavilion  
3611

TEL: 031 265 1777

EMAIL: [tgc@tgcengineers.co.za](mailto:tgc@tgcengineers.co.za)

**CIVIL CONSULTING ENGINEERS:**

BVI CONSULTING ENGINEERS  
P.O.BOX 889  
Westville  
3630

TEL: 031 266 8382

EMAIL: [dbn@bvikn.co.za](mailto:dbn@bvikn.co.za)

**ELECTRICAL ENGINEERS:**

AA POWER  
55 Road 718  
Chatsworth  
4092

TEL: 031 404 3810

EMAIL: [aapower@gmail.com](mailto:aapower@gmail.com)

**MECHANICAL ENGINEERS:**

PARSONS & LUMSDEN  
P O Box 800  
Kloof  
3640

TEL: 031 764 7727

EMAIL: [nigel@parsonsandlumsden.com](mailto:nigel@parsonsandlumsden.com)

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**NOVEMBER 2022**

**REPUBLIC OF SOUTH AFRICA**  
**DEPARTMENT OF PUBLIC WORKS**  
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**FOR**  
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**PART C1: AGREEMENT AND CONTRACT DATA**

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TEL: 031 266 8382

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**C1.2: CONTRACT DATA**

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EDGEcombe & HAYES-HILL  
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EMAIL: [ianhill@mitsol.co.za](mailto:ianhill@mitsol.co.za)

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**NOVEMBER 2022**



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

<b>Project title:</b>	Ntuzuma SAPS: Completion of CCTV Control Room (003)
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<b>Tender / Quotation no:</b>	DBN22/11/02	<b>WCS no:</b>	046752	<b>Reference no:</b>	631/1220/26/1
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	<p>The Conditions of Contract are clauses 1 to 30 of the <b>JBCC®</b> Principal Building Agreement (Edition 6.2 of May 2018) prepared by the Joint Building Contracts Committee.</p> <p><b>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)).</b></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><b>CONTRACT VARIABLES</b></p> <p><b>THE SCHEDULE</b></p> <p>The <b>schedule</b> 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 <b>employer</b> and part 2: contract data completed by the <b>tenderer</b>. Part 1 must be completed in full and included in the tender documents. Both the part 1 and part 2 form part of this <b>agreement</b>.</p> <p><b>Spaces requiring information must be filled in, shown as ‘not applicable’ or deleted but not left blank.</b> 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 <b>schedule</b>. 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 <b>PG01.2 (EC) – Scope of Works</b> for detailed description
Completion of CCTV Control Room	

**Tender / Quotation no:** DBN22/11/02

## A 2.0 Site [1.1]

Erf / stand number	Portion 1 of Erf 2132 Ntuzuma C
Site address	Intshintsha Drive
Township / Suburb	Ntuzuma C
City / Town	Durban
Province	KZN
Local authority	Ethekwini
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	nkosinathi.mchunu@dpw.gov.za	Telephone	031 314 7105
Postal address	Private Bag X54315 Durban 4000		
Physical address	Corner Samora Michel and Pixley Kwasame Streets Durban 4001		

### A 3.2 Employer's representative:

Name	Mr. N.S. Mchunu	Telephone number	031 314 7105
E-mail	nkosinathi.mchunu@dpw.gov.za	Mobile number	082 452 6102
Postal address	Private Bag X54315 Durban 4000		
Physical address	Corner Samora Michel and Pixley Kwasame Streets Durban 4001		

**Tender / Quotation no: DBN22/11/02**

<b>A 4.0</b>	<b>Principal Agent [1.1; 6.2]</b>	<b>Discipline</b>	Quantity Surveyor
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Name	Edgecombe & Hayes-Hill		
Legal entity of above	Pty Ltd	Contact person	Ian Hayes-Hill
Practice number		Telephone number	031 566 2977
Country	RSA	Mobile number	083 457 925
E-mail	ianhill@mitsol.co.za		
Postal address	P.O. Box 25718 Gateway 4320		
Physical address	Suite 702, Ridge 7 27 Vuna Close Umhlanga Ridge 4321		

<b>A 5.0</b>	<b>Agent [1.1; 6.2]</b>	<b>Discipline</b>	Quantity Surveyor
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Name	Edgecombe & Hayes-Hill		
Legal entity of above	Pty Ltd	Contact person	Ian Hayes-Hill
Practice number		Telephone number	031 566 2977
Country	RSA	Mobile number	083 457 9825
E-mail	ianhill@mitsol.co.za		
Postal address	P.O.Box 25178 Gateway 4320		
Physical address	Suite 702, Ridge 7 27 Vuna Close Umhlanga Ridge 4321		

<b>A 6.0</b>	<b>Agent [1.1; 6.2]</b>	<b>Discipline</b>	Structural Consulting Engineers
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Name	TGC Engineers		
Legal entity of above		Contact person	Grant Lewis
Practice number		Telephone number	031 265 1777
Country	RSA	Mobile number	082 536 7653
E-mail	tgc@tgcengineers.co.za		
Postal address	P.O.Box 446 Pavilion 3611		
Physical address	Suite 6, 4 The Crescent Westway Office Park Westville 3635		

**Tender / Quotation no: DBN22/11/02**

<b>A 7.0</b>	<b>Agent [1.1; 6.2]</b>	<b>Discipline</b>	Civil Consulting Engineers
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Name	BVI Consulting Engineers		
Legal entity of above		Contact person	Patson Tumba
Practice number		Telephone number	031 266 8382
Country	RSA	Mobile number	082 510 5627
E-mail	dbn@bvikn.co.za		
Postal address	P.O.Box 889 Westville 3630		
Physical address	2 <sup>nd</sup> Floor, Pharos House 70 Buckingham Terrace Westville 3630		

<b>A 8.0</b>	<b>Agent [1.1; 6.2]</b>	<b>Discipline</b>	Electrical Engineers
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Name	AA Power		
Legal entity of above		Contact person	Sanjay Narain
Practice number		Telephone number	031 404 3810
Country	RSA	Mobile number	082 303 6039
E-mail	aapower1@gmail.com		
Postal address	55 Raod 718 Chatsworth 4092		
Physical address	55 Raod 718 Chatsworth 4092		

<b>A 9.0</b>	<b>Agent [1.1; 6.2]</b>	<b>Discipline</b>	Mechanical Engineers
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Name	Parson & Lumsden		
Legal entity of above		Contact person	Graham Anderson
Practice number		Telephone number	031 764 7727
Country	RSA	Mobile number	073 265 1080
E-mail	nigel@parsonsandlumsden.com		
Postal address	P.O.Box 800 Kloof 3640		
Physical address	Block 6, MRM Office Park 10 Village Road Kloof 3610		

**Tender / Quotation no:** DBN22/11/02

<b>A 10.0</b>	<b>Agent [1.1; 6.2]</b>	<b>Discipline</b>	
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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		

<b>A 11.0</b>	<b>Agent [1.1; 6.2]</b>	<b>Discipline</b>	
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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		

<b>A 12.0</b>	<b>Agent [1.1; 6.2]</b>	<b>Discipline</b>	
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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".



Tender / Quotation no: DBN22/11/02

**B CONTRACT INFORMATION**

**B 1.0 Definitions [1.1]**

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

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

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

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

Documents comprising the agreement	Page numbers
The JBCC® Principal Building Agreement, Edition 6.2 May 2018	1 to 30
DPW-04 (EC): CONTRACT DATA: JBCC PRINCIPAL BUILDING AGREEMENT (Edition 6.2 of May 2018)	1 to 31
The JBCC® General Preliminaries for use with the JBCC® Principal Building Agreement, Edition 6.2 May 2018	1 to 7
Drawings as per drawing register issued with the tender	
Specifications issued with the tender	
Schedules issued with the tender	
Bills of Quantities issued with the tender	1 to 136

**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] ]	<b>Principal Agent</b>
<b>Principal agent's and agents' interest or involvement in the works other than a professional interest [6.3]</b>	
Nil	

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**B 6.0 Insurances [10.0]**

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

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**B 7.0 Obligations of the employer [12.1]**

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

**B 8.0 Appointment of Nominated Subcontractors [14.0]**

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

**B 9.0 Appointment of Selected Subcontractors [15.0]**

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

Tender / Quotation no: DBN22/11/02

**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**

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

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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	Included in Contract Period
Total construction period for the Works as a whole up to and including Practical Completion, as indicated below [24.1]	12
Period to achieve Works Completion Refer B18.0 [19.8]	Included in Contract Period
Defect liability period up to and including Final Completion	3
<b>Total Contract period [B18: 1.2]</b>	12
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 417.34

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

<b>Construction period [B18: 1.2] and Practical Completion for the Works as a whole [19.0]</b> The time for achieving Practical Completion of the whole of the Works is <b>measured from the</b> date of possession of the <b>site</b> by the <b>contractor</b> inclusive of all <b>public holidays, special non-working days and builders' holiday shut down periods.</b>	Applicable
The date for practical completion for the works as a whole shall be the period in <b>months</b> 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]	12
Period for inspection in <b>working days</b> by the principal agent [19.3]	1
<b>Penalty amount</b> per calendar day for <b>late Practical Completion</b> , excluding VAT. [24.1]	R4 173.66
<b>Penalty amount</b> per calendar day for <b>late Works Completion</b> Refer B18.0 [19.8]: Thirty percent (30%) of penalty amount per calendar day for late Practical Completion, excluding VAT.	R 1 252.10
<b>Penalty amount</b> per calendar day for <b>late Final Completion [21]</b> : Fifteen percent (15%) of penalty amount per calendar day for late Practical Completion, excluding VAT.	R 626.05

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

<b>Construction period [B18: 1.1] and Practical completion for portions of the Works [20.0]</b>	Not Applicable					
Portions of the Works in sections:	1	2	3	4	5	6
Period for inspection by the principal agent in <b>working days</b> [19.3]						



The date for practical completion shall be the period in <b>months</b> as indicated from the date of possession of the site by the contractor [12.2.7; 24.1]					
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**Tender / Quotation no:** DBN22/11/02

The date for practical completion for <b>the whole</b> of the Works, if applicable shall be the period in <b>months</b> as indicated from the date of possession of the site by the contractor inclusive of all <b>public holidays, special non-working days and builders' holiday shut down periods</b> [12.2.7; 24.1]	insert contract period as per B12.1 or N/A if Works as a whole is applicable
Penalty for late Practical Completion, <b>if completion in sections is required</b> , excluding VAT	
The penalty amount per day for failing to complete <b>section 1</b> of the Works is:	R
The penalty amount per day for failing to complete <b>section 2</b> of the Works is:	R
The penalty amount per day for failing to complete <b>section 3</b> of the Works is:	R
The penalty amount per day for failing to complete <b>section 4</b> of the Works is:	R
The penalty amount per day for failing to complete <b>section 5</b> of the Works is:	R
The penalty amount per day for failing to complete <b>section 6</b> of the Works is:	R
The penalty amount per day for failing to complete <b>the whole</b> 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 <b>Select</b> , 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 <b>Select</b> , excluding VAT	

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

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

13.8	
13.9	
13.10	

**Tender / Quotation no:** DBN22/11/02

**B 14.0 Defects liability period [21.0]**

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

Applicable	If applicable, description of applicable elements
14.1	Emergency generator - 12 months
14.2	Air conditioning system and plant - 12 months
14.3	Mechanical equipment (e.g. Fire detection, Fire suppression system, etc.) - 12 months
14.4	
14.5	
14.6	
14.7	
14.8	
14.9	
14.10	

**B 15.0 Payment [25.0]**

Date of month for issue of regular payment certificates Refer B18.0 [25.2]	Last day of month
Contract price adjustment / Cost fluctuations Refer [25.3.4; 26.9.5]	Not Applicable
If applicable, method to calculate	CPAP
Employer shall pay the contractor within: Refer B18.0 [25.10]	Thirty (30) calendar days

**B 16.0 Dispute resolution [30.0]**

<b>Mediation</b>	Applicable
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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".

Name of nominating body	Association of Arbitrators (Southern Africa)
Appointment of Mediator	State Attorney
<b>Litigation</b>	Court with Jurisdiction

**Tender / Quotation no:** DBN22/11/02

**B 17.0 JBCC® General Preliminaries - selections**

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



Disturbance - specific requirements [P11.5]	Not Applicable
Environmental disturbance - specific requirements [P11.6]	Not Applicable

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## B 18.0 SPECIFIC CHANGES MADE TO JBCC® DOCUMENTATION

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

1.2	<p><b>Definitions</b></p> <p><b>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.</b></p> <p><b>ADVERSE WEATHER CONDITIONS:</b> 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><b>AGREEMENT:</b> 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><b>CONSTRUCTION PERIOD:</b> The period commencing on the date of possession of the <b>site</b> by the <b>contractor</b> and ending on the date of <b>practical completion</b>.</p> <p><b>CONTRACT PERIOD:</b> The period commencing on the date of the letter of acceptance and ending on the date of final completion.</p> <p><b>COST FLUCTUATION</b> 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><b>DEFAULT INTEREST:</b> No clause.</p> <p><b>GUARANTEE FOR CONSTRUCTION:</b> A security in terms of the DPW's Guarantee for Construction form/s, obtained by the contractor from an institution approved by the employer [CD].</p> <p><b>INTEREST:</b> 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><b>LETTER OF ACCEPTANCE:</b> The letter of formal acceptance of the Contractor's or Service Provider's Tender / Bid, issued and signed by the Employer.</p> <p><b>PAYMENT CERTIFICATE:</b> 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>
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**PRINCIPAL AGENT:** The person or entity appointed by the **employer** and named in the **contract data for organs of state and other public sector bodies**. In the event of a **principal agent** not being appointed, then all the duties and obligations of a **principal agent** as detailed in the **agreement** shall be fulfilled by the employer's representative as named in the **contract data for organs of state and other public sector bodies**.

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

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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	<p>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].</p>
4.2	<p>Refer to clause 6.7 [CD].</p>
4.3	<p>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.</p>
5.2	<p>Replace last sentence with the following:          The original signed agreement shall be held by the Employer.</p>
5.4	<p>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.</p>
5.5	<p>Replace clause with the following:          The parties may publish or disclose on any platform only the contract scope and contract amount.</p>
6.5	<p>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.</p>
6.7	<p>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.</p>
7.2	<p>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.</p>
8.4	<p>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.</p>
9.2.7	<p>Add the following to the end of the first sentence: "... due to no fault of the contractor".</p>

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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	<p>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.</p>
10.2	<p>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.</p>
10.6	No clause.
10.11	<p>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.</p>
11.1	<p>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).</p> <p>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.</p> <p>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.</p>
11.1.1	No clause.
11.1.2	No clause.
11.2.2	No clause.
11.3	No clause.
11.4.1	<p>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.</p>
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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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".

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 <b>priced document</b> contains errors or discrepancies and/or prices considered by the employer or <b>principal agent</b> to be imbalanced or unreasonable the employer or <b>principal agent</b> and the <b>contractor</b> shall adjust such prices without any change to the <b>contract sum</b> .
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  <b>WORKS COMPLETION</b> (1) Within seven (7) calendar days of the date of practical completion the principal agent shall issue to the contractor a works completion list defining the outstanding work and defects apparent at the date of practical completion to be completed or rectified to achieve works completion.  (2) Where, in the opinion of the contractor, the works completion list has been completed the contractor shall notify the principal agent who shall inspect within seven (7) calendar days of receipt of such a notice. Where, in the opinion of the principal agent, the Works Completion list:  (2)(a) Has been satisfactorily completed, the principal agent shall forthwith issue a certificate of Works Completion to the contractor with a copy to the employer

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

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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".

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 <b>contractor</b> fails to bring the <b>works</b> , or a <b>section</b> thereof, to <b>practical-, works-, or final- completion</b> by the applicable completion date [B10 CD], or the revised applicable completion date, the <b>contractor</b> shall be liable to the <b>employer</b> for the <b>penalty</b> [B10 CD].
24.2	Replace clause 24.2 with the following: Where the <b>employer</b> elects to levy such <b>penalty</b> the <b>employer</b> , or the <b>principal agent</b> on instruction from the <b>employer</b> , shall give <b>notice</b> thereof to the <b>contractor</b> . The <b>principal agent</b> shall determine the <b>penalty</b> due from the later of the date for <b>practical- works-, or final- completion</b> [B10 CD], or the revised date for <b>practical- works-, or final- completion</b> , up to and including the earlier of:
24.2.1	Replace clause 24.2.1 with the following: The actual or deemed date of <b>practical-, works- or final- completion</b> of the <b>works</b> , or a <b>section</b> 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 &amp; 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 <b>security</b> is selected in terms of C 1.0 Securities [11.0] the value of the <b>works</b> in terms of 25.1 and of the <b>materials and goods</b> 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 <b>payment certificates</b> issued up to the date of <b>practical completion</b>.</p> <p>25.12.3 Ninety-seven per cent (97%) of such value in interim <b>payment certificates</b> issued on the date of <b>works completion</b> and up to but excluding the date of <b>final completion</b>.</p> <p>25.12.4 Ninety-nine per cent (99%) of such value in interim <b>payment certificates</b> issued on the date of <b>final completion</b> and up to but excluding the final <b>payment certificate</b> in terms of 26.</p> <p>25.12.5 One hundred per cent (100%) of such value in the final <b>payment certificate</b> in terms of 26 except where the amount certified is in favour of the <b>employer</b>. In such an event the payment reduction shall remain at the adjustment level applicable to the <b>final payment certificate</b>.</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 <b>works</b> in terms of 25.1 and <b>materials and goods</b> 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 <b>payment certificates</b> issued up to the date of <b>practical completion</b>.</p> <p>25.12.8 Ninety-seven per cent (97%) of such value in interim <b>payment certificates</b> issued on the date of <b>practical completion</b> and up to but excluding the date of <b>final completion</b>.</p> <p>25.12.9 Ninety-nine per cent (99%) of such value in interim <b>payment certificates</b> issued on the date of <b>final completion</b> and up to but excluding the final <b>payment certificate</b> in terms of 26.</p> <p>25.12.10 One hundred per cent (100%) of such value in the final <b>payment certificate</b> in terms of 26 except were the amount certified is in favour of the <b>employer</b>. In such an event the payment reduction shall remain at the adjustment level applicable to the final <b>payment certificate</b>.</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 <b>principal agent</b> shall prepare the final account in consultation with the employer and issue the <b>final account</b>, to the <b>contractor</b> within sixty (60) <b>working days</b> of the date of <b>practical completion</b>.</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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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".

27.6	<p>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.</p>
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	<p>Add the following as clause 29.1.4: The <b>contractor's</b> estate has been sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa.</p>
29.1.5	<p>Add the following as clause 29.1.5: The <b>contractor</b> has engaged in corrupt or fraudulent practices in competing for or in executing the contract.</p>
29.1.6	<p>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.</p>
29.7	<p>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].</p>
29.9	<p>Replace clause 29.9 with the following: The <b>employer</b> has the right of recovery against the <b>contractor</b>, where applicable, [CD] from:</p> <p>The guarantee for construction (variable) until the final payment has been made; <b>or</b> The guarantee for construction (fixed) until the date of practical completion; <b>or</b> The payment reduction until the final payment is made; <b>or</b> The cash deposit made as security until the final payment is made.</p>
29.14.1	No clause.
29.14.3	No clause.

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

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

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

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

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(h)	Labour Intensive Works – Condition of Contract. (Applicable to all CE projects and all GB projects ≥ R30 million)	<b>Not applicable</b>
(i)		<b>Select</b>
(j)		<b>Select</b>

## 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.**

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

### C 2.0 Payment of preliminaries [25.0]

#### Contractor's selection

Select Option A or B

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

#### Payment methods

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

#### 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**.

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

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

### Failure to provide particulars within the period stated

Option A	<p>Where the allocation of <b>preliminaries</b> amounts for Option A is not provided, the following allocation of <b>preliminaries</b> 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 <b>preliminaries</b> per <b>section</b> is not provided, the categorised amounts shall be prorated to the cost of each <b>section</b> within the <b>contract sum</b> as determined by the <b>principal agent</b></p>
Option B	Where the detailed breakdown of <b>preliminaries</b> amounts for Option B is not provided, Option A shall apply

### 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.

**PA-16.2 (EC): TENDER AND CONTRACT CONDITIONS PERTAINING TO  
CONTRACT PARTICIPATION GOAL  
(PARTICIPATION OF TARGETED ENTERPRISES)  
FOR**

<b>Project title:</b>	<i>Ntuzuma SAPS: Completion of CCTV Control Room (Contract 003)</i>
<b>Tender no:</b>	<i>DBN22/11/02</i>

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## PARTICIPATION OF TARGETED ENTERPRISES

### 1. Introduction

This document provides for the setting of participation targets (contract participation goal) for a contract, the measurement of key participation indicators to be used in the evaluation of tenders and the audit of compliance with tendered contract participation goals during the execution of the contract.

### 2. Scope

This document:

- 2.1 specifies the general requirements for contracting targeted enterprises on a contract for the provision of works and/or services;
- 2.2 specifies the requirements for the contract participation goal; and
- 2.3 describes the means by which:
  - 2.3.1. progress towards the achievement of the tendered contract participation goal will be monitored;
  - 2.3.2. compliance with requirements will be verified and monitored; and
  - 2.3.3. penalties will be applied in the event of non-compliance with requirements set out herein

### 3. Definitions

For the purposes of this document, unless the context indicates otherwise:

- 3.1 **commercially useful function** means the actual performance of works or the provision of services in the discharge of any contractual obligation, which includes, without limitation, the performance of a distinct element of works and/or services which the targeted enterprise has the skills and expertise to undertake, and the responsibility for management and supervision.
- 3.2 **contract participation goal (CPG)** means the financial value of works and/or services which the contractor subcontracts to targeted enterprises, exclusive of preliminaries, contingencies, escalation and value added tax, expressed as a percentage of the net amount.
- 3.3 **net amount** means the financial value of the contract at the time of the award thereof, exclusive of preliminaries, contingencies, escalation and value added tax.
- 3.4 **principal agent / engineer** means the principal agent if the JBCC 2000 Principal Building Agreement is used, or engineer if the GCC 2004 General Conditions of Contract is used.
- 3.5 **targeted enterprise** means a contractor who is registered with the CIDB in a potentially emerging (PE) contractor grading designation.
- 3.6 **targeted enterprise declaration affidavit** means an affidavit, in the format provided for in the contract, which confirms the bona fides of a targeted enterprise.

### 4. Requirements

#### 4.1 Contract participation goal

- 4.1.1. The contractor shall subcontract targeted enterprises directly in the performance of the contract to the extent that the total financial value of such subcontracts, in accordance with all the requirements of this document, is sufficient to achieve the contract participation goal provided for in the contract.

NOTE: The contract participation goal is to be tendered in the Preference Points Claim Form and Affidavit (PA-16.1 EC) in T2.2 which must be submitted together with the tender. Failure to tender a contract participation goal will result in the contractor not being awarded indirect preference points.

4.1.2. The contractor must submit to the principal agent / engineer details of his plan to achieve the tendered contract participation goal in the Contract Participation Goal Implementation Plan (see annexure A), within five working days of being instructed to do so. If no such instructions are given, these plans must be submitted to the principal agent / engineer before or with the submission of the first claim for payment.

NOTE: The information contained in the Contract Participation Goal Implementation Plan facilitates the monitoring of the performance of the contractor in terms of his contract participation goal obligations.

## 4.2 Achieving the contract participation goal

### 4.2.1. General

A contractor may achieve the contract participation goal by subcontracting one or more targeted enterprises to perform commercially useful functions in the performance of the contract.

### 4.2.2. Verification of the status of targeted enterprises

Contractors must submit to the principal agent / engineer completed Targeted Enterprise Declaration Affidavits (see annexure B), together, where required, with Letters of Undertaking to act as Subcontractors (see annexure C), in respect of each and every targeted enterprise whose contribution shall be counted towards the tendered contract participation goal. These documents must be submitted before or with the submission of the first claim for payment, or as otherwise agreed in writing with the employer.

## 4.3 Points awarded for the tendered contract participation goal

4.3.1. Indirect preference points for the contract participation goal shall be granted by converting the following to a percentage of the net amount:

the total financial value of the works and/or services, exclusive of preliminaries, contingencies, escalation and value added tax, subcontracted to targeted enterprises, in fulfilling contractual obligations, subject to such targeted enterprises not further subcontracting.

4.3.2. The minimum contract participation goal for which indirect preference points will be awarded is set out in the Notice and Invitation to Tender (PA-04 EC) in T1.1.

4.3.3. Tenderers will qualify for indirect preference points if their tendered contract participation goals are equal to or exceed the minimum set by the employer. Tenderers may increase their contract participation goals above the minimum and the tenderer who tenders the highest contract participation goal will receive the maximum indirect preference points allocated in the Notice and Invitation to Tender (PA-04 EC) in T1.1.

4.3.4. The number of indirect preference points awarded for the tendered contract participation goal will be calculated using the following formula:

$$Ng = Z \left( 1 + \frac{D-X}{X} \right)$$

Where:

Ng	=	the number of indirect preference points awarded
D	=	the tendered contract participation goal percentage
X	=	the highest contract participation goal percentage tendered
Z	=	the maximum indirect preference points stated in the Notice and Invitation to Tender (PA-04 EC) in T1.1

## 5. Compliance with the contract

### 5.1 General

5.1.1. The contractor must enter into written contractual agreements with all the targeted enterprises cited in the Contract Participation Goal Implementation Plan and shall, as soon as is practicable, but not later than the commencement of such subcontracted works and/or services, furnish the principal agent / engineer with copies of such agreements and the written acceptances thereof.

5.1.2. Such written contractual agreements must not contain any of the following:

- a) a right to set off in favour of the employing contractor not provided for by law;
- b) arbitrary decision making powers in favour of the employing contractor or his agent, with no recourse to independent adjudication in the event of a dispute arising;
- c) payment procedures based on a pay-when-paid system;
- d) retention percentages and periods of retention after completion, which are greater than percentages and periods provided for in the contract; or
- e) conditions which are more onerous than those which exist in the contract.

5.1.3. The subcontracts to be performed by the targeted enterprises shall thereafter neither be reduced in scope, nor terminated without prior written notification to the employer.

### 5.2 Substitutions

5.2.1. In the event that a contracted targeted enterprise is found:

- a) to be unable to perform, or to perform on time;
- b) to be unable to produce acceptable work;
- c) to be unwilling to perform work required;
- d) not to be fit to perform the services; or
- e) not to be creditable towards contract participation goals;

the contractor shall notify the employer in writing of the apparent necessity to reduce or terminate such a targeted enterprise's subcontract, citing the reasons therefore, as well as new measures to be implemented by the contractor to achieve the tendered contract participation goal.

5.2.2. In such event, the contractor shall either provide a substitute targeted enterprise to take over the works and/or services of such subcontract, or subcontract a targeted enterprise on another aspect of the contract, so as to achieve the tendered contract participation goal. The contractor shall, in such circumstances, submit to the employer a Targeted Enterprise Declaration Affidavit in respect of the proposed substitute or subcontracted other targeted enterprise, and supply details of the nature and value of the subcontract which shall be performed by such targeted enterprise.

5.2.3. Provided that the events referred to in 5.2.1 (a) to (e) resulted due to no fault of the contractor, the employer may, at his sole discretion and upon the basis of evidence submitted by the contractor in support of fruitless efforts in good faith to secure substitute or other targeted enterprise participation, grant a waiver in respect of contract participation goal obligations.

### 5.3 *Bona fides* of targeted enterprises

Where an enterprise under contract was initially considered to be a targeted enterprise but is later discovered not to be so, or is found not to be creditable towards contract participation goals, the employer may consider a partial waiver of the contractor's obligations towards the achievement of the contract participation goal in respect of such an enterprise, should the contractor satisfactorily demonstrate that he was justified in believing the enterprise to be a targeted enterprise.

## 6. Records

- 6.1 The contractor shall submit all the documentation required in terms of 4.1.2, 4.2.2, 5.1 and 6.2 timeously as well as a schedule clearly indicating the commencement and completion dates of works and/or services to be performed by all the contracted targeted enterprises, for the purpose of securing credits towards the tendered contract participation goal. This schedule shall be submitted together with his programme which is required in terms of the relevant conditions of contract and shall be updated by the contractor whenever a change in date occurs.
- 6.2 The contractor shall prepare and attach to his claim for payment, in a form approved by the employer, the following:
- a) a brief report which describes the commercially useful functions performed by the targeted enterprises in the performance of the contract, both over the interim period and on a cumulative basis; and
  - b) a schedule reflecting the total value of the subcontracts, the cumulative value of the subcontracts and the value of works and/or services performed over the period for which payment is claimed in respect of each and every targeted enterprise.
- 6.3 should random inspections conducted by the principal agent / engineer on targeted enterprise activities indicate that such enterprises are not performing in accordance with the requirements of this document, the contractor shall provide, in addition to the requirements of 6.2, separate weekly resource returns and any other relevant information in respect of such targeted enterprises in a format approved by the principal agent / engineer.
- 6.4 The principal agent / engineer shall certify the value of work completed towards the tendered contract participation goal whenever a claim for payment is issued and shall notify the contractor of this amount.
- 6.5 The contractor shall, upon completion of each individual targeted enterprise's subcontract, issue a completion certificate and certify the amount paid to such targeted enterprises. He shall submit the certificates, counter-certified by the relevant targeted enterprises, to the principal agent / engineer for record-keeping purposes and for purposes of verifying compliance with the tendered contract participation goal.
- 6.6 The contractor's claims for payment may be rejected as being incomplete should all appropriate supporting documentation described in 6.2, 6.3 and 6.5 not be provided.
- 6.7 The contractor's final claim for payment may be considered only after the certificates described in 6.5 are received.





## 7. Penalties

7.1 In the event that the contractor fails to substantiate that any failure to achieve the tendered contract participation goal was due to quantitative underruns, the elimination of items contracted to targeted enterprises, or any other reason beyond the contractor's control which may be acceptable to the employer, the penalties provided for in 7.1.1 below shall apply:

7.1.1. The contractor shall be liable to the employer for the payment of a penalty amount equal to Z% of the financial value of contracts not awarded to targeted enterprises required to have achieved the tendered contract participation goal.

Where: Z is the maximum indirect preference points stated in the Notice and Invitation to Tender (PA-04 EC) in T1.1

## Annexure A

### Contract Participation Goal Implementation Plan

Employer	
Project description	
Tender number	
Project reference number	

#### A.1. Contract parameters

Contract participation goal applicable to the contract		%
Contract sum at time of award (exclusive of value added tax)	R	
Less: preliminaries	R	
Less: contingencies and escalation	R	
<b>Net amount</b>	R	<b>(1)</b>

#### A.2. Achieving the contract participation goal

I/We commit to achieve the contract participation goal (CPG) by subcontracting to targeted enterprises

#### A.3. Documentation

In support of my/our contract participation goal requirements, I/we submit the following documents:

(List all documents accompanying this form viz: Targeted Enterprise Declaration Affidavits; Letters of Undertaking to perform as Subcontractors) \*

\* Contractors are responsible for the reproduction of sufficient number of copies of these forms for the purpose of this contract.

##### A.3.1.

.....

##### A.3.2.

.....

##### A.3.3.

.....

##### A.3.4.

.....

**A.4. Contracting of targeted enterprises as subcontractors**

Note: The financial value of the participation claimed towards the contract participation goal shall exclude preliminaries, contingencies, escalation and value added tax

I/we certify that I/we will be contracting the following targeted enterprises as subcontractors:

**A.4.1**

Name of targeted enterprise	
Address	
Contact Person	
Telephone	
Fax	
Service/work to be performed	
Company/enterprise income tax reference number	
CIDB Registration Number	
CIDB Contractor Grading Designation	
Financial value of participation claimed towards contract participation goal	R
Percentage participation claimed towards contract participation goal	%

**A.4.2**

Name of targeted enterprise	
Address	
Contact Person	
Telephone	
Fax	
Service/work to be performed	
Company/enterprise income tax reference number	
CIDB Registration Number	
CIDB Contractor Grading Designation	
Financial value of participation claimed towards contract participation goal	R
Percentage participation claimed towards contract participation goal	%

**A.4.3**

Name of targeted enterprise	
Address	
Contact Person	
Telephone	
Fax	
Service/work to be performed	
Company/enterprise income tax reference number	
CIDB Registration Number	
CIDB Contractor Grading Designation	
Financial value of participation claimed towards contract participation goal	R
Percentage participation claimed towards contract participation goal	%

**A.4.4**

Name of targeted enterprise	
Address	
Contact Person	
Telephone	
Fax	
Service/work to be performed	
Company/enterprise income tax reference number	
CIDB Registration Number	
CIDB Contractor Grading Designation	
Financial value of participation claimed towards contract participation goal	R
Percentage participation claimed towards contract participation goal	%

(Continue as required for other targeted enterprises)

**A.5. Summary of targeted enterprise participation**

Name of contracted targeted enterprise	Financial value of subcontracts	Percentage participation claimed towards contract participation goal
	R	%
	R	%
	R	%
	R	%
	R	%
	R	%
	R	%
	R	%
	R	%
<b>Total contribution towards CPG</b>	<b>R</b>	<b>% (2)</b>

**Targeted Contract Participation Goal:**

$= (2)/(1) \times 100 = R...../R..... \times 100$	$= ..... \%$
---	--------------

**A.6. Undertaking**

I/We hereby certify to the best of my/our knowledge that the above information, facts and representations are correct and that the proposed targeted enterprises named are able to perform commercially useful functions in the performance of the contract and are *bona fide* targeted enterprises.

**SIGNED FOR THE CONTRACTOR:**

<b>Name of contractor</b>	<b>Signature</b>	<b>Date</b>

**WITNESSED BY:**

<b>Name of witness</b>	<b>Signature</b>	<b>Date</b>

## Annexure B

### Targeted Enterprise Declaration Affidavit

Employer	
Project description	
Tender number	
Project reference number	

**B.1. Name of targeted enterprise**

--

**B.2. Legal Entity**

Company or Close Corporation:	<b>OR</b>	Natural Person or Partnership:
and: Whose Registration number is:		Whose Identity Number(s) is/are:
and: Whose Income Tax Reference Number is:		Whose Income Tax Reference Number(s) is/are:

**B.3. And who is:**

Represented herein, and who is duly authorized to do so, by: Mr/Mrs/Ms: ..... In his/her capacity as: .....	<b>Note:</b> A Resolution / Power of Attorney, signed by all the Directors / Members / Partners of the Legal Entity <u>must</u> accompany this Affidavit, authorizing the representative to make this affidavit.
--	---

**B.4. Principal business activities**

--

**B.5. *Domicilium citandi et executandi***

The targeted enterprise elects as its <i>domicilium citandi et executandi</i> in the Republic of South Africa, where any and all legal notices may be served, as (physical address):  <div style="border: 1px solid black; height: 40px; width: 100%;"></div>
---

**B.6. Other contact details of the targeted enterprise are:**

Telephone No:	
Cellular Phone No:	
Fax No:	
Postal address:	
Banker:	
Branch:	
Account number:	
CIDB Registration Number:	
CIDB Contractor Grading Designation:	

**B.7. List a maximum of five contracts which you are presently engaged in and have not yet completed:**

Contract description	Location	Employer	Contract amount	Expected completion date (month and year)

**B.8. List the four largest contracts/assignments completed by you in the last three years:**

Work performed	Employer	Contact person & telephone number	Contract amount

**B.9. Declaration (to be signed in the presence of a Commissioner of Oaths):**

I, ....., the undersigned,

- (a) warrant that I am duly authorized to depose to this Affidavit on behalf of .....; and
- (b) confirm that the contents of this Affidavit are within my personal knowledge, and are, save where stated otherwise, to the best of my knowledge and belief both true and correct.

**SIGNED BY THE DEPONENT:**

<b>Name of deponent</b>	<b>Signature</b>	<b>Date</b>
<b>Duly authorized to sign on behalf of:</b>	<b>Address:</b>	<b>Telephone:</b>

Signed and sworn to before me at .....

on this the ..... day of ..... 20.... by the Deponent, who has acknowledged that he/she knows and understands the contents of this Affidavit, that it is true and correct to the best of his/her knowledge and that he/she has no objection to taking the prescribed oath, and that the prescribed oath will be binding on his/her conscience.

Signed: Commissioner of Oaths: .....

**Official Stamp:**

**Note: All pages of this Affidavit must be initialled by both the Deponent and the Commissioner of Oaths**



### Annexure C

## Letter of Undertaking from a Targeted Enterprise to act as a Subcontractor

Employer	
Project description	
Tender number	
Project reference number	

**From (name and address of targeted enterprise)**

Name	
Address	

**To (name and address of contractor)**

Name	
Address	

The undersigned undertakes to perform the following works and/or provide the following services in connection with the above-mentioned contract:

.....  
 .....  
 .....

for an estimated amount of R ..... excluding preliminaries, contingencies, escalation and value added tax subject to the terms of any agreement made between us for the purposes of the contract.

The status of the undersigned as a targeted enterprise is confirmed in the attached targeted enterprise declaration affidavit

<b>Name</b>	<b>Signature</b>	<b>Designation</b>	<b>Date</b>

who duly warrants that he/she is authorized to sign this letter.

REPUBLIC OF SOUTH AFRICA  
DEPARTMENT OF PUBLIC WORKS  
BILLS OF QUANTITIES

1  
FOR  
NTUZUMA SAPS:  
COMPLETION OF CCTV CONTROL ROOM  
WCS NO. 046725

---

**C1.3: FORM OF GUARANTEE**

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**NOVEMBER 2022**

## 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

Public Works  
Private Bag X54315  
Durban  
4000

Sir,

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

- 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: DBN22/11/02, for the Ntuzuma SAPS: Completion of CCTV Control Room(003) (hereinafter referred to as the "contract") in the amount of R \_\_\_\_\_, ( \_\_\_\_\_ ), (hereinafter referred to as the **contract sum**),  
I / We, \_\_\_\_\_  
in my/our capacity as \_\_\_\_\_ and hereby  
representing \_\_\_\_\_ (hereinafter referred to as the "**guarantor**") advise that the **guarantor** holds at the **employer's** disposal the sum of R \_\_\_\_\_, ( \_\_\_\_\_ ) being 5% of the **contract sum** (excluding VAT), for the due fulfillment of the contract.
- 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.
- 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.
- The amount paid by the **guarantor** in terms of this guarantee may be retained by the **employer** on condition that upon the issue of the last final **payment certificate**, the **employer** shall account to the **guarantor** showing how this amount has been expended and refund any balance due to the **guarantor**.

**Tender no: (Insert Tender Number)**

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

SIGNED AT \_\_\_\_\_ ON THIS \_\_\_\_\_ DAY OF  
\_\_\_\_\_ 20\_\_

**AS WITNESS**

1. \_\_\_\_\_
2. \_\_\_\_\_

\_\_\_\_\_  
**By and on behalf of**  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
**(insert the name and physical address of the guarantor)**

**NAME:** \_\_\_\_\_

**CAPACITY:** \_\_\_\_\_  
**(duly authorised thereto by resolution attached marked Annexure A)**

**DATE:** \_\_\_\_\_

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

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

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

### FOR ATTENTION

**Public Works**  
Private Bag X54315  
**Durban**  
**4000**

Sir,

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

1. With reference to the contract between \_\_\_\_\_  
\_\_\_\_\_ (hereinafter referred to as the "**contractor**") and the Government of the Republic of South Africa, in its Department of Public Works and Infrastructure, (hereinafter referred to as the "**employer**"), Contract/Tender No: \_\_\_\_\_, for the **Ntuzuma SAPS: Completion of CCTV Control Room(003)** (hereinafter referred to as the "**contract**" in the amount of R \_\_\_\_\_, ( \_\_\_\_\_ ) (hereinafter referred as the **contract sum**),  
I / We, \_\_\_\_\_  
in my/our capacity as \_\_\_\_\_ and hereby  
representing \_\_\_\_\_ (hereinafter referred to as the "**guarantor**") advise that the **guarantor** holds at the **employer's** disposal the sum of R \_\_\_\_\_, ( \_\_\_\_\_ ) being 10% of the **contract sum** (excluding VAT), for the due fulfillment of the contract.
2. I / We advise that the **guarantor's** liability in terms of this guarantee shall be as follows:
  - (a) From and including the date on which this guarantee is issued and up to and including the date of payment of the amount in the last final **payment certificate**, the **guarantor** will be liable in terms of this guarantee to the maximum amount of 10% of the **contract sum** (excluding VAT);
  - (b) The **guarantor's** liability shall reduce to 3 % of the **contract value** (excluding VAT) as determined at the date of the last **certificate of practical completion**, subject to such amount not exceeding 10% of the **contract sum** (excluding VAT).
  - (c) The **guarantor's** liability shall reduce to 1 % of the **contract value** (excluding VAT) as determined at the date of the last **certificate of final completion**, subject to such amount not exceeding 10 % of the **contract sum** (excluding VAT).
  - (d) This guarantee shall expire on the date of the last **final payment certificate**.
  - (e) The **practical completion certificate** and the **final completion certificate** referred to in this guarantee shall mean the certificates issued in terms of the contract.

**Tender no: DBN22/11/02**

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

SIGNED AT \_\_\_\_\_ ON THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_

**AS WITNESS**

1. \_\_\_\_\_

2. \_\_\_\_\_

Tender no: **DBN22/11/02**

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: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

REPUBLIC OF SOUTH AFRICA  
DEPARTMENT OF PUBLIC WORKS  
BILLS OF QUANTITIES  
FOR  
NTUZUMA SAPS:  
COMPLETION OF CCTV CONTROL ROOM  
WCS NO.: 046725

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**PART C2: PRICING DATA**

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**NOVEMBER 2022**



**REPUBLIC OF SOUTH AFRICA**  
**DEPARTMENT OF PUBLIC WORKS**  
**BILLS OF QUANTITIES**  
**FOR**  
**NTUZUMA SAPS:**  
**COMPLETION OF CCTV CONTROL ROOM**

**WCS NO.: 046725**

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**C2.1: PRICING INSTRUCTIONS**

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**NOVEMBER 2022**

## PG-02.2 (EC) PRICING INSTRUCTIONS - JBCC 2000 PRINCIPAL BUILDING AGREEMENT (Edition 6.2 of March 2018)

Project title:	<i>Ntuzuma SAPS: Completion of CCTV Control Room (Contract 003)</i>		
Tender no:	<i>DBN22/11/02</i>	Reference no:	<i>6310/1220/26/1</i>

### C2.1 Pricing Instructions

#### 1. GENERAL

- (a) The Standard for Uniformity in Construction Procurement published in terms of the Construction Industry Development Board (CIDB) Act, 2000 (Act no. 38 of 2000), the Standardized Construction Procurement Documents for Engineering and Construction Works as issued by the CIDB and any other relevant documentation pertaining thereto must be studied and all principles in this regard must be applied to all procurement documentation, practices and procedures.
- (b) The consultant(s)/project manager must acquaint themselves fully with all relevant matters pertaining to this section in order to enable prospective tenderers to price for all eventualities.
2. The following items must be included in the Pricing Instructions. Any additional items deemed necessary must be included herein.

#### (a) **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.

#### (b) **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** must however be net (exclusive of VAT) with VAT calculated and added to the total value thereof in the Final Summary.

**REPUBLIC OF SOUTH AFRICA**  
**DEPARTMENT OF PUBLIC WORKS**  
**BILLS OF QUANTITIES**  
**FOR**  
**NTUZUMA SAPS:**  
**COMPLETION OF CCTV CONTROL ROOM**  
**WCS NO.: 46725**

---

**PART 3: SCOPE OF WORK**

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**NOVEMBER 2022**

**REPUBLIC OF SOUTH AFRICA**  
**DEPARTMENT OF PUBLIC WORKS**  
**BILLS OF QUANTITIES**  
**FOR**  
**NTUZUMA SAPS:**  
**COMPLETION OF CCTV CONTROL ROOM**  
**WCS NO.: 046725**

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**C3: SCOPE OF WORK**

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**NOVEMBER 2022**

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

<b>Project title:</b>	<i>Ntuzuma SAPS: Completion of CCTV Control Room (Contract 003)</i>		
<b>Tender no:</b>	<i>DBN22/11/02</i>	<b>Reference no:</b>	<i>6310/1220/26/1</i>

### C3. Scope of Works

#### 1. GENERAL

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

#### 2. EXTENT OF THE WORKS

- (a) The works description – Clause 42.2.1 [1.1]

Completion of new CCTV building 740m<sup>2</sup> in extent, entrance driveway and parking for 80 vehicles and 588m of external walling together with all associated external works.

PW 1544



## **DEPARTMENT OF PUBLIC WORKS**

**HIV/AIDS**

**SPECIFICATION**

**OCTOBER 2004**

## **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**

###### **3.1 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.

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

- 3.2.1 The nature of the disease;
- 3.2.2 How it is transmitted;
- 3.2.3 Safe sexual behaviour;
- 3.2.4 Post exposure services such as voluntary counselling and testing (VCT) and nutritional plans for people living with HIV/AIDS;
- 3.2.5 Attitudes towards other people with HIV/AIDS;
- 3.2.6 Rights of the Worker in the workplace;
- 3.2.7 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;
- 3.2.8 How the Service Provider will support the Awareness Champion;
- 3.2.9 Location and contact numbers of the closest clinics, VCT facilities, counselling services and referral systems;
- 3.2.10 How the workshops will be presented, including frequency and duration;
- 3.2.11 How the workshops will fit in with the construction programme;
- 3.2.12 How the Service Provider will assess the knowledge and attitude levels of attendees to structure workshops accordingly;
- 3.2.13 How the video will be used;
- 3.2.14 How the Service Provider will elicit maximum participation from the Workers;
- 3.2.15 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 counseling.

## 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. The contractor should include the costs of posters and information booklets in his/her tender price.

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 hand over. 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**

- 7.1 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.

7.2 The Awareness Champion shall be responsible for:

7.2.1 Liaising with the Service Provider on organising awareness workshops;

7.2.2 Filling condom dispensers and monitoring condom distribution;

7.2.3 Handing out information booklets;

7.2.4 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

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																												

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*Please indicate the applicable number for the reporting period*

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

\_\_\_\_\_  
Date

\_\_\_\_\_  
Contractor

\_\_\_\_\_  
Date

Date of progress inspection: (ccyy/mm/dd)

Reporting period: (ccyy/mm/dd) \_\_\_\_\_ to (ccyy/mm/dd) \_\_\_\_\_

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: (ccyy/mm/dd) \_\_\_\_\_ to (ccyy/mm/dd) \_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_  
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
<b>Content of workshop:</b> (Mark the content included)																											
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: (ccyy/mm/dd) \_\_\_\_\_ to (ccyy/mm/dd) \_\_\_\_\_

**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: \_\_\_\_\_

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

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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:

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

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**



## Additions to health and safety specifications for all construction sites to include COVID 19

### Department Public Works

#### Date:

1. Introduction
2. References
3. Special appointments
4. Workers transport
5. Security/access control/control of visitors onsite
6. Pre-construction evaluation of medical requirements, screening and training
7. Facilities, resources and action required by principal contractor where applicable contractor onsite
8. Required procedures, documentation development and updates
9. Procedures at start during and at end of shift
10. Managing and controlling flammable hazardous chemicals
11. Contractor management
12. Compliance monitoring and discipline
13. Additional resources and recourse management

### **1. Introduction**

COVID 19 Novel Corona virus has changed the world we live in and how we will conduct business activities and life in the future. Due to this it has become necessary to take special precautions, to plan and implement control measures, to prevent further spread of this disease.

These specifications are based on the prevention of persons, objects/tools being contaminated with the virus, infection transmission and specific occupational hygiene practices that focus on the need for employers to implement measures to mitigate or eliminate the transmission of the virus in the workplace.

**This document is an addendum to the original project health and safety specification** to assist the principal contractor and contractors to protect their workers, **and** to comply with the interim Regulations that has been gazetted

### **2. References**

The Department of Employment and Labour has appealed to employers to use the prescriptions of the Occupational Health and Safety (OHS) Act of 1993 in governing workplaces in relation to Coronavirus Disease 2019 COVID19 under the National Disaster Act



Department of labour, notice no. 479, 29 April 2020, covid-19, Occupational health and safety measures in workplaces Covid-19 (c19 ohs), directive by the minister of employment and labour in terms of regulation 10 (8) of the regulations issued by the minister of cooperative governance and traditional affairs in terms of section 27 (2) of the disaster management act, 2002 (act no. 57 of 2002)

The OHS Act read with the Hazardous Biological Agents Regulations requires the employer to provide and maintain as far as is reasonably practicable a working environment that is safe and without risks to the health of employees

**Section 8(2)(b) of OHS act** *requires steps such as may be reasonably practicable to eliminate or mitigate any hazard or potential hazard before resorting to personal protective equipment (PPE).* However, in the case of COVID19, a combination of controls is required, although the main principle is to follow the hierarchy of controls

However, before the implementation of control measures, current risk assessments need to be reviewed and updated, considering the new hazards posed by exposure to COVID-19 in the workplace. The risk assessment should take the Risk Assessment Guides published online by the National Department of Health into account

### 3. Special appointments

- a. *The employer must appoint a manager (from within the existing structure) to address the concerns of employees and workplace representatives concerning COVID 19*
- b. Appointment and training of security personnel and adequate personnel to conduct procedures of screening, isolating, conducting questionnaire and further actions required if person presents positive COVID 19 symptoms

### 4. Workers transport

- a. Where possible the contractors must arrange transport of their employees in line with the travel rules of not more than 70% occupancy and social distancing
- b. Where not possible to avoid the use of public transport provide employees with information on the virus and precautions to take during public transport travel:
  - i. Frequent sanitising
  - ii. Maintain social distancing (at least 2 m)
  - iii. Always wear a mask
  - iv. Coughing, sneezing safe practice and spitting
  - v. When being coughed or sneezed on, turn face away and do not touch face before hands have been sanitised
  - vi. Do not travel if experiencing symptoms of infection
  - vii. Provide employees with CIPC travel certificate



## 5. Security/access control/control of visitors onsite

- a. **Only 1 access point allowed** on site during the Phase lockdown period.
- b. A policy of lockdown inside site for the whole shift must be maintained which will mean that employees will not be allowed to exit and re-enter the site during working hours. This will prevent employees from bringing contaminated food or articles onto site and **will have to bring food from home**
- c. The principal contractor must enforce strict access control and no person may enter the site except those who have undergone induction training and who is listed on the employee list
- d. The only exceptions are persons who have pre-arranged official appointment which has been approved by the project construction manager. This person may not enter the site before they have passed the screening procedure (fever and questionnaire) and thereafter must be escorted by a person designated by the construction manager
- e. Biometric or any form of touch access entry is prohibited
- f. Delivery vehicle drivers must undergo and pass the full COVID 19 screening procedure or may not leave the cab of the vehicle and wear a face mask
- g. Where more than one Principal Contractor operates on site. A meeting must be held with all the Principal Contractors where an access plan must be formulated and **agreed to in writing**, which incorporates the sharing of expenses and other resources.

## 6. Pre-construction evaluation, screening and training

Principal contractor and contractor's pre-construction requirements:

It is critical that the principal contractor conduct the following preparatory actions before going to site. These actions must be documented and each employee must sign that he/she has undergone this screening and training and understands and procedures

### a. Evaluation:

- i. Employees medical evaluation, ensuring annual medical is valid

### ii. Screening:

1. Fever screening
2. **Health questionnaire** (signs and symptoms)
3. Questionnaire of travel during shut down level 4 and exposure
4. Employee practical understanding of:



- a. the risks of the virus
- b. how do you get contaminated?
- c. how do you get infected?
- d. signs and symptoms
- e. prevention

## **b. Training program**

It is important to understand that workers have been off site for an extended period and which requires that the principal contractor and contractors develop a full risk based induction training and awareness program, policies and procedure for COVID 19 and communicate it with management, employees and contractors which include the following:

- i. Employees responsibility to look after their own health and safety and preventing from being infected or infecting other persons
- ii. What is COVID 19
- iii. How are you infected
- iv. Explanation of symptoms and signs (ever, cough, sore throat, redness of eyes or shortness of breath or difficulty in breathing, body aches, loss of smell or loss of taste, nausea, vomiting, diarrhoea, fatigue, weakness or tiredness
- v. Incubation period
- vi. Explain the risk of underlying conditions, i.e.:
  1. People 60 years and older
  2. People with chronic lung disease or moderate to severe asthma
  3. People who have serious heart conditions
  4. People who are immunocompromised
  5. People with diabetes
  6. People with chronic kidney disease undergoing dialysis
  7. People with liver disease
- vii. Self-monitoring and reporting of symptoms, possible exposure or infection to company
- viii. The importance of being aware of who you have been in contact with during work and after hours to assist with tracking in case of being infected
- ix. How to self-isolate
- x. Company COVID sick leave and Temporary Employer Relief Scheme under regulation 10(8) of the Regulations promulgated in terms of section 27(2) of the Disaster Management Act
- x. How to prevent infection:
  1. Correct methods of sanitising
- f. Hands
- g. Personal hygiene
- h. Site facilities





2. Social distancing
  3. Not touching face
  4. The correct way to cough or sneeze
  5. Correct use, limitations of and disposal of PPE
  6. How to protect yourself and family after hours
- x. What to do if employee is not feeling well and are presenting with the symptoms when already at the work-place or before arrival onsite include:
1. Employees
    - a. If already onsite
      - i. Immediate reporting to employer
      - ii. Social distancing and other preventative actions
    - b. When not onsite yet
      - i. Do not go to work
      - ii. Who to contact at your company?
      - iii. Relevant company contact numbers
  2. Principal contractor and contractors
    - a. Procedures and PPE required when employee presents with symptoms at the site screening and needs to be isolated and tracking of persons in contact with that employee
    - b. Procedures and care of persons who are in self isolation or being treated at hospital or COVID 19 facility
    - c. Company and employee return to work after recovery procedures
- xii. Updated company COVID 19:
1. SHE plan and risk assessment
  2. Policies
  3. PPE requirements
  4. Method statements & risk assessment
  5. Stay at home policy and sick leave
  6. Employee assistance/care program
- xiii. Include COVID awareness in every day DSTI/permit to work system
- 7. Facilities, resources and action required by principal contractor where applicable contractor onsite**
- a. Provide these employees with appropriate PPE for their tasks



- b. Prevention of employees having to come into close-proximity (Queuing or bundling together)
- c. Method/procedure of providing drinking water that cannot be contaminated with the virus
- d. Adequate and appropriate risk-based:
  - i. PPE
  - ii. Sanitising/hand washing facilities at entrance, eating areas, offices, kitchens, toilets (Foot pedal hand sanitisers is the preferable option)
  - iii. Awareness signage and posters
- e. Procedures for sanitising site, offices, toilets, eating areas, meeting rooms communal kitchen appliances, printers and telephones
- f. Procedures and rules to minimise exposure during:
  - i. Meetings (Alternates to close contact meetings)
  - ii. Duration and maximum number of delegates at close contact meetings
  - iii. Induction, Toolbox talk, DSTI
  - iv. Sanitising of areas, offices, boardrooms and furniture
  - v. Communal drinking facility use
  - vi. Housekeeping and garbage removal
- g. Provide an isolation area/tent/room where person can be interviewed and remain until instructions have been received from the COVID 19 control centre on next step to be taken

### **CORONA 24 Hour HOTLINE 0800029999**

#### **8. Required procedures, documentation development and updates**

The contractor must develop new and update existing plans, policies, documentation and procedures to include COVID 19

- a. She plan and policy
- b. Company COVID 19 plans, policies, procedures and programs to include:
  - i. Prevention, exposure, infection
  - ii. Social distancing during entering and exiting site, meetings, training
  - iii. Creating different areas for and staggering start of work and lunch-times, training sessions and effective planning of required staff compliments
  - iv. Cooperation with local police, clinic, emergency services and notifying them of the project and developing beneficial relationships
  - v. Engaging with CLO and communities and establish a trust relationship by providing relevant information and possible assistance where possible
  - vi. Emergencies (mass infections)
  - vii. Post-infection return to work guideline, which include:
    - 1. minimum medical and practical criteria for return to work
    - 2. medical evaluation by occupational health practitioner



- viii. Employee emotional care and assistance during and post infection
- ix. Management and disposal of contaminated PPE and equipment
- x. Planning to maximise social distancing
- xi. Planning of production and progress to optimise the work-force to minimise the amount of persons onsite at one-time
- xii. Managing and disposal of biological (Virus) contaminated PPE and other personal waste
- xiii. Daily reporting to management of screening results and of persons who were isolated, taken for testing and follow-up
- xiv. Reporting of persons who have been confirmed to be infected to company management, department of labour and Health
- xv. Contact-tracing of persons who were in contact with a person who have been isolated or who has been confirmed as being infected
- xvi. Updated risk assessment to include COVID 19 hazards and risks
- xvii. Evaluation of daily screening, reporting to management and if required update procedure and training
- xviii. Company policy related to paid sick leave in terms of section 22 of the BCEA illness benefit in terms of clause 4 of the Directive issued on 25 March 2020 on the COVID-19 Temporary Employer Relief Scheme under regulation 10(8) of the Regulations promulgated in terms of section 27(2) of the Disaster Management Act;
- xix. Also revise the permit to work where required.

#### **9. Procedures at start during and at end of shift**

- a. Include conducting and recording information of:

- i. Sanitisation

- 1. At start of shift all persons must sanitise with sanitiser that contains at least 70% alcohol with foot pedal or automatic detection and spray device, no hand contact
- 2. Site facilities, offices, boardrooms, toilets, eating areas, surfaces
- 3. Hand and power tools, and other communal equipment to be wiped down

- ii. Fever screening and procedure when person has fever

- 1. Re-do fever screen and if high fever

- a. Isolate and questionnaire
- b. Procedure if evidence points at infection
- c. Contact call centre and follow instructions
- d. Also follow company procedure for reporting to management, client and authorities

#### **10. Managing and controlling flammable hazardous chemicals**

- a. The type of sanitiser used for COVID 19 must have a minimum of 70% alcohol and it is important that adequate stock is held onsite
- b. Due to its high alcohol content it poses a fire risk as well as a possible risk of being used by workers for intoxicating purposes which can lead to poisoning



- c. It is therefore particularly important to include these risks into account when the risk assessments is updated
- d. The principal contractor and contractors must ensure that they provide a flammable liquid storage facility, considering the quantities they will be storing onsite which conforms with local government fire regulations and GSR 4
- e. The storage area must be lockable and issuing and stock levels must be controlled by an appointed competent hazardous chemical substance controller
- f. Records of stock levels, issuing and usage must be updated daily and any discrepancies must be reported to management and investigated
- g. Decanting procedures must be developed which includes spillage control. Bottles into which it has been decanted into must be marked to clearly show the contents
- h. Appropriate and adequate signage must be posted
- i. Adequate Alcohol resistant foam or Carbon dioxide (CO<sub>2</sub>) fire extinguishers must be appropriately positioned Inspections of the flammable hazardous chemicals store must be conducted at least monthly
- j. Inspections of the flammable hazardous chemicals store must be conducted at least monthly
- k. First aiders should be trained on the first aid measures as set out in the MSDS

## 11. Contractor management

It is the responsibility of the principal contractors to ensure that all contractor comply with the requirements of the addition to the original project health and safety specifications

## 12. Compliance monitoring and discipline

- a. Monitoring of compliance is critical to the prevention program and there may be no tolerance of non-compliance
- b. Strict appropriate disciplinary action must be instituted against employees, contractors, consultants or any person
- c. found in breach of the requirements
- d. The client will be responsible for compliance through audits and inspections and evaluation of principal contractors' reports
- e. The principal contractor must monitor compliance through inspections and COVID 19 specific audit of:
  - i. Available equipment
  - ii. Sanitiser/washing facilities
  - iii. Sanitising of site facilities
  - iv. Employee screening
  - v. Access control
  - vi. Availability of isolation facilities
  - vii. Separation and procedures followed when employees present with symptoms
  - viii. Continuous awareness training
  - ix. Recordkeeping
  - x. Sub-contractor training and screening records, risk assessments and monitoring



- f. Any suspected or confirmed infection or noncompliance with the COVID 19 requirements must be reported to the client health and safety agent with immediate effect
- g. A written incident report must be supplied within 24 hours after the incident. If the risk assessment or procedures are required to be reviewed, same will be done within 36 hours.

### **13. Additional resources and recourse management**

- a. It is a fact that finance and budgets of active projects that were shut down due to COVID 19 have approved budgets and available capital projects that are currently running have already been allocated and approved and Therefore funds should be available from the client to pay Principal Contractors/Contractors
- b. It is therefore critical that the principal contractor ensure that their payment certificates and related documents are correct and is submitted before deadline dates with their invoices. Many delays in payment from clients are due to incorrect or insufficient documentation that has been submitted late.
- c. It is important to understand that the COVID 19 virus has affected all parties and cooperation will increase the probability of completing the project successful
- d. It is critical that the client and principal contractor re-negotiate and discuss the project deadlines and budget and agree on solutions to the benefit of all. The impact of screening, site access, delayed delivery of long lead items due to manufacturing constraints and restrictions due to COVID19 legislation must be considered when negotiating the program and deadlines specifically.
- e. Clients must not delay payment to principal contractors and principal contractors must do the same with their contractors. Delaying payments will have a snowball effect all the way down to the workers who have in some case already not received salaries or has only received partial payment
- f. Businesses must do their utmost to protect the workers who are the most crucial asset of construction
- g. Although SMME are businesses in their own right, many of these companies were already struggling financially before lockdown started and the principal contractor could use the assistance of the project CLO to ensure that workers are being paid and if not report it to the principal contractor.
- h. Contractor must assist employees with UIF claims.
- i. **All the above requirement and information must be filtered down to the contractors onsite**

**“Health and safety is not negotiable”**



DEPARTMENT OF PUBLIC WORKS

## OCCUPATIONAL HEALTH AND SAFETY

# HEALTH & SAFETY SPECIFICATIONS

FOR

PROJECTS AND MAINTENANCE  
(BUILDING/ELECTRICAL/MECHANICAL)

MANAGED ON BEHALF OF

THE DEPARTMENT OF  
PUBLIC WORKS

(THE "CLIENT")

PROJECT:

*NTUZUMA SAPS: COMPLETION OF CCTV ROOM*

TENDER NO:

DBN22/11/02

**SUPERVISION BY THE DEPARTMENT OF PUBLIC WORKS**

Mr /Ms/Me - PROJECT MANAGER  
Mr Nathi Mchunu  
DPW Regional Office  
Private Bag 54315  
Durban  
4000

Mr /Ms/Me - CONTROL/WORKS MANAGER  
(add full details of the inspector)

.....  
.....

.....**AND/OR ITS AGENT:** [as per CR 4(5)] – {Also refer specifically to Sections 8(2)(g),  
8(2)(h) and 37(2) of the Act}

AGENT:

**SUPERVISION BY THE PRINCIPAL CONTRACTOR:**

**PRINCIPAL CONTRACTOR:** (full particulars of principle contractor / contractor)

Mr /Ms/Me - HEALTH & SAFETY OFFICER (BUILDING)  
(add full details of this officer)

.....  
.....

Mr /Ms/Me - HEALTH & SAFETY OFFICER (ELECTRICAL)  
(add full details of this officer)

.....  
.....

Mr /Ms/Me - HEALTH & SAFETY OFFICER (MECHANICAL)  
(add full details of this officer)

.....  
.....

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## ATTACHMENTS:

14. HEALTH AND SAFETY FILE COMPILATION AND CONTENT
15. SAFETY AND SWITCHING PROCEDURES FOR ELECTRICAL  
INSTALLATIONS



**16. GUIDE TO THE GENERAL ADMINISTRATIVE REGULATIONS**  
**17. IMPORTANT CONTACT DETAILS (HEALTH & SAFETY ONLY)**

**1. PREAMBLE**

In terms of Construction Regulation 4(1)(a) of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), the Department of Public Works, as the Client and/or its Agent on its behalf, shall be responsible to prepare Health & Safety Specifications for any intended construction project and provide any Principal Contractor who is making a bid or appointed to perform construction work for the Client and/or its Agent on its behalf with the same.

The Client's further duties are as described in The Act and the Regulations made there-under. The Principal Contractor shall be responsible for the Health & Safety Policy for the site in terms of Section 7 of the Act and in line with Construction Regulation 5 as well as the Health and Safety Plan for the project.

This 'Health and Safety Specifications' document is governed by the "Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), hereinafter referred to as 'The Act'. Notwithstanding this, cognisance should be taken of the fact that no single Act or its set of Regulations can be read in isolation. Furthermore, although the definition of Health and Safety Specifications stipulates 'a documented specification of all health and safety requirements pertaining to associated works on a construction site, so as to ensure the health and safety of persons', it is required that the entire scope of the Labour legislation, including the Basic Conditions of Employment Act be considered as part of the legal compliance system. With reference to this specification document this requirement is limited to all health, safety and environmental issues pertaining to the site of the project as referred to here-in. Despite the foregoing it is reiterated that environmental management shall receive due attention.

Due to the wide scope and definition of construction work, every construction activity and site will be different, and circumstances and conditions may change even on a daily basis. Therefore, due caution is to be taken by the Principal Contractor when drafting the Health and Safety Plan based on these Health and Safety Specifications. Prior to drafting the Health and Safety Plan, and in consideration of the information contained here-in, the contractor shall set up a Risk Assessment Program to identify and determine the scope and details of any risk associated with any hazard at the construction site, in order to identify the steps needed to be taken to remove, reduce or control such hazard. *This Risk Assessment and the steps identified will be the basis or point of departure for the Health and Safety Plan.* The Health and Safety Plan shall include documented 'Methods of Statement' (see definitions under Construction Regulations) detailing the key activities to be performed in order to reduce as far as practicable, the hazards identified in the Risk Assessment.

The Department of Public Works is tasked to provide accommodation and operational facilities to a very large proportion of the approximate 40 National Departments responsible for the governance of the Department of Public Works. A very large number of State employees and public users of the facilities and the services provided there-in directly interacts with the facilities provided by the well-being, health and safety of a great number of people. This Department thus

has directly or indirectly, an impact on the Republic of South Africa as well as the National Parliament.

In this a high premium is to be placed on the health and safety of the most valuable assets of the Department of Public Works. These are its personnel, the personnel of its Clients and the physical assets of which it is the custodian and may also include the public as well. The responsibilities the Department and relevant stakeholders have toward its employees and other people present in the facilities or on the sites are captured further in this specification document. These responsibilities stem from both moral, civil and a variety of legal obligations. The Principal Contractor is to take due cognisance of the above statement.

Every effort has been made to ensure that this specification document is accurate and adequate in all respects. Should it however, contain any errors or omissions they may not be considered as grounds for claims under the contract for additional reimbursement or extension of time, or relieve the Principal Contractor from his responsibilities and accountability in respect of the project to which this specification document pertains. Any such inaccuracies, inconsistencies and/or inadequacies must immediately be brought to the attention of the Agent and/or Client.

## **2. SCOPE OF HEALTH AND SAFETY SPECIFICATION DOCUMENT**

The Health and Safety Specifications pertaining to the project; “Mtunzini Justice: Repairs & Renovations Including Upgrade of Office Building etc. – see paragraph 8 on page 13), cover the subjects contained in the index and is intended to outline the normal as well as any special requirements of the Department pertaining to the health and safety matters (including the environment) applicable to the project in question. These Specifications should be read in conjunction with the Act, the Construction Regulations and all other Regulations and Safety Standards which were or will be promulgated under the Act or incorporated into the Act and be in force or come into force during the effective duration of the project. The stipulations in this specification, as well as those contained in all other documentation pertaining to the project, including contract documentation and technical specifications shall not be interpreted, in any way whatsoever, to countermand or nullify any stipulation of the Act, Regulations and Safety Standards which are promulgated under, or incorporated into the Act.

## **3. PURPOSE**

The Department is obligated to implement measures to ensure the health and safety of all people and properties affected under its custodianship or contractual commitments, and is further obligated to monitor that these measures are structured and applied according to the requirements of these Health and Safety Specifications. *(All references to the singular shall also be regarded as references to the plural)*

The purpose of this specification document is to provide the relevant Principal Contractor (and his /her contractor) with any information other than the standard conditions pertaining to construction sites which might affect the health and safety of persons at work and the health and safety of persons in connection with the use of plant and machinery; and to protect persons other than persons at work against hazards to health and safety arising out of or in connection with the

activities of persons at work during the carrying out of construction work for the Department of Public Works. The Principal Contractor (and his /her contractor) is to be briefed on the significant health and safety aspects of the project and to be provided with information and requirements on inter alia:

- a) safety considerations affecting the site of the project and its environment;
- b) health and safety aspects of the associated structures and equipment;
- c) submissions on health and safety matters required from the Principal Contractor (and his /her contractor); and
- d) the Principal Contractor's (and his /her contractor) health & safety plan.

To serve to ensure that the Principal Contractor (and his /her contractor) is fully aware of what is expected from him/her with regard to the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) and the Regulations made there-under including the applicable safety standards, and in particular in terms of Section 8 of the Act.

To inform the Principal Contractor that the Occupational Health and Safety Act, 1993 (Act 85 of 1993) in its entirety shall apply to the contract to which this specification document applies. The Construction Regulations promulgated on 18 July 2003 and incorporated into the above Act by Government Notice R 1010, published in Government Gazette 25207 shall apply to any person involved in construction work pertaining to this project, as will the Act.

#### **4. DEFINITIONS - The most important definitions in the Act and Regulations pertaining to this specification document are hereby extracted.**

“Purpose of the Act” –

To provide for the health and safety of persons at work and the health and safety of persons in connection with the use of plant and machinery; the protection of persons other than persons at work against hazards to health and safety arising out of or in connection with the activities of persons at work; to establish an advisory council for occupational health and safety; and to provide for matters connected therewith.

“Agent” –

means any person who acts as a representative for a client;

“Client” –

means any person for whom construction work is performed;

“Construction Work” is defined as any work in connection with –

- (a) the erection, maintenance, alteration, renovation, repair, demolition or dismantling of or addition to a building or any similar structure;
- (b) the installation, erection, dismantling or maintenance of a fixed plant where such work includes the risk of a person falling;
- (c) the construction, maintenance, demolition or dismantling of any bridge, dam, canal, road, railway, runway, sewer or water reticulation system or any similar civil engineering structure; or
- (d) the moving of earth, clearing of land, the making of an excavation, piling, or any similar type of work;

“Contractor” –

means an employer, as defined in Section 1 of the Act, who performs construction work and includes Principal Contractors;

“Health and Safety File” –

means a file, or other record in permanent form, containing the information required a contemplated in the regulations;

“Health and Safety Plan” –

means a documented plan which addresses hazards identified and includes safe work procedures to mitigate, reduce or control the hazards identified;

“Health and Safety Specification” –

means a documented specification of all health and safety requirements pertaining to the associated works on a construction site, so as to ensure the health and safety of persons;

“Method Statement” –

means a document detailing the key activities to be performed in order to reduce as reasonably as practicable the hazards identified in any risk assessment;

“Principal Contractor” –

means an employer, as defined in section 1 of the Act who performs construction work and is appointed by the client to be in overall control and management of a part of or the whole of a construction site;

“Risk Assessment” –

means a program to determine any risk associated with any hazard at a construction site, in order to identify the steps needed to be taken to remove, reduce or control such hazard.

## **5. OCCUPATIONAL HEALTH & SAFETY MANAGEMENT**

### **5.1 Structure and Organisation of OH&S Responsibilities**

#### **5.1.1. *Overall Supervision and Responsibility for OH&S***

- \* The Client and/or its Agent on its behalf to ensure that the Principal Contractor, appointed in terms of Construction Regulation 4(1)(c), implements and maintains the agreed and approved H&S Plan. Failure on the part of the Client or Agent to comply with this requirement will not relieve the Principal Contractor from any one or more of his/her duties under the Act and Regulations.
  
- \* The Chief Executive Officer of the Principal Contractor in terms of Section 16 (1) of the Act to ensure that the Employer (as defined in the Act) complies with the Act. The pro forma Legal Compliance Audit may be used for this purpose by the Principal Contractor or his/her appointed contractor.
  
- \* All OH&S Act (85 /1993), Section 16 (2) appointee/s as detailed in his/her/their respective appointment forms to regularly, in writing, report to their principals on matters of health and safety per routine and ad hoc inspections and on any deviations as soon as observed, regardless of whether the observation was made during any routine or ad hoc inspection and to ensure that the reports are made available to the principal Contractor to become part of site records (Health & Safety File).
  
- \* The Construction Supervisor and Assistant Construction Supervisor/s appointed in terms of Construction Regulation 6 to regularly, in writing, report to their principals on matters of health and safety per routine and ad hoc inspections and on any deviations as soon as observed, regardless of whether the observation was made during any routine or ad hoc inspection and to ensure that the reports are made available to the principal Contractor to become part of site records (Health & Safety File).
  
- .
  
- \* All Health and Safety Representatives (SHE-Reps) shall act and report as per Section 18 of the Act.

#### **5.1.2. *Further (Specific) Supervision Responsibilities for OH&S***

Several appointments or designations of responsible and /or competent people in specific areas of construction work are required by the Act and Regulations. The following competent appointments, where applicable, in terms of the Construction Regulations are required to ensure compliance to the Act, Regulations and Safety Standards.

***Required appointments as per the Construction Regulations:-***

<b>Item</b>	<b>Regulation</b>	<b>Appointment</b>	<b>Responsible Person</b>
1.	4(1)(c)	Principal contractor for each phase or project	Client
2.	5.(3)(b)	Contractor	Principal Contractor
3.	5(11)	Contractor	Contractor
4.	6(1)	Construction supervisor	Contractor
5.	6(2)	Construction supervisor sub-ordinates	Contractor
6.	6(6)	Construction Safety Officer	Contractor
7.	7(1)	Person to carry out risk assessment	Contractor
8.	7(4)	Trainer/Instructor	Contractor
9.	8(1)(a)	Fall protection planner	Contractor
10.	10 (a)	Formwork & support work supervisor	Contractor
11.	10(e) + (f)	Formwork & support work examiner	Contractor
12.	11(1)	Excavation supervisor	Contractor
13.	11(3)(b)(ii)(b)	Professional engineer or technologist	Contractor
14.	11(3)(k)	Explosives expert	Contractor
15.	12(1)	Supervisor demolition work	Contractor
16.	12(2) + (3)	Demolition expert	Contractor
17.	12(11)	Explosives expert	Contractor
18.	14(2)	Scaffold supervisor	Contractor
19.	15(1)	Suspended platform supervisor	Contractor
20.	15(2)(c)	Compliance plan developer	Contractor
21.	15(8)(c)	Suspended platform expert	Contractor
22.	15(13)	Outrigger expert	Contractor
23.	17(8)(a)	Material hoist inspector	Contractor
24.	18(1)	Batch plant supervisor	Contractor
25.	18(7)	Batch plant operator	Contractor
26.	19(2)(b)	Power tool expert	Contractor
27.	19.2 (g) (i)	Power tool controller	Contractor
28.	20(f)	Tower crane operator	Contractor
29.	21(1)(d)(i)	Construction vehicle and mobile plant operator	Contractor
30.	21(1)(j)	Construction vehicle and mobile plant inspector	Contractor
31.	22(d)	Temporary electrical installations inspector	Contractor
32.	22 (e)	Temporary electrical installations controller	Contractor
33.	26 (a)	Stacking and storage supervisor	Contractor
34.	27 (h)	Fire equipment inspector	Contractor

This list may be used as a reference or tool to determine which components of the Act and Regulations would be applicable to a particular site, as was intended under paragraph 3 & 4 of the Chapter “Preamble” (page 4) above. This list must not be assumed to be exclusive or comprehensive.

## 5.2 *Communication & Liaison*

- 5.2.1 OH&S Liaison between the Employer, the Principal Contractor, the other Contractors, the Designer and other concerned parties shall be through the H&S Committee as per the procedures determined by the H&S Committee.
- 5.2.2 In addition to the above, communication may be directly to the Client or his appointed Agent, verbally or in writing, as and when the need arises.
- 5.2.3 Consultation with the workforce on OH&S matters will be through their Supervisors and H&S Representatives ('SHE – Reps')
- 5.2.4 The Principal Contractor will be responsible for the dissemination of all relevant OH&S information to the other Contractors e.g. design changes agreed with the Client and/or its Agent on its behalf and the Designer, instructions by the Client and/or his/her agent, exchange of information between Contractors, the reporting of hazardous/dangerous conditions/situations etc.

## 6. **INTERPRETATION**

(i) The Occupational Health and Safety Act and all its Regulations, with the exception of the Construction Regulations, distinguish between the roles, responsibilities and functions of employers and employees respectively. It views consultants and contractors as employees of the "owner" of a construction or operational project, the "owner" being regarded as the employer. Only if formally agreed to by way of the written agreement in this regard between the "owner(s)" and consultant and /or between the "owner(s)" and the contractor(s), will these assumptions be relinquished in favour of the position agreed upon between the relevant parties.

(ii) The position taken by the Construction Regulations is that the "owner", in terms of its instructions, operates (has to operate) in the role of client as per relevant definition. The contractors working for the "client" are seen to be in two categories, i.e. the Principal Contractor and Contractors. The Principal Contractor has to take full responsibility for the health and safety on the site of the relevant project / contract. This includes monitoring health and safety conditions and overseeing administrative measures required by the Construction Regulations from all contractors on the project site. (Ordinary / sub) Contractors are required to operate under the scrutiny and control (in terms of all health and safety measures which are covered in the Construction Regulations) of the Principal Contractor. Where, for the work the Principal Contractor will have to execute himself, practical health and safety measures are applicable, he will also be subject to the relevant requirements with which (ordinary / sub) Contractors have to comply. The Principal Contractor will, however, not have to actually fulfill such requirements in respect of any of the work / functions of any (ordinary / sub) Contractors on the site for which he has been appointed as Principal Contractor. However, he has to monitor / oversee such processes, ensuring that the requirements are complied with and that the required appointments / evaluations / inspections / assessments and tests are done and that the records are duly generated and kept as prescribed in the Construction Regulations. This has to feature clearly in the Principal Contractor's Health and Safety Plan.

## 7. **RESPONSIBILITIES**

## 7.1 Client

7.1.1 The Client or his appointed Agent on his behalf will appoint each Principal Contractor for this project or phase/section of the project in writing for assuming the role of Principal Contractor as intended by the Construction Regulations and determined by the Bills of Quantities.

7.1.2 The Client or his appointed Agent on his behalf shall discuss and negotiate with the Principal Contractor the contents of the health and safety plan of the both Principal Contractor and Contractor for approval.

7.1.3 The Client or his appointed Agent on his behalf, will take reasonable steps to ensure that the health and safety plan of both the Principal Contractor and Contractor is implemented and maintained. The steps taken will include periodic audits at intervals of at least once every month.

7.1.4 The Client or his appointed Agent on his behalf, will prevent the Principal Contractor and/or the Contractor from commencing or continuing with construction work should the Principal Contractor and/or the Contractor at any stage in the execution of the works be found to:

- have failed to have complied with any of the administrative measures required by the Construction Regulations in preparation for the construction project or any physical preparations necessary in terms of the Act;
- have failed to implement or maintain their health and safety plan;
- have executed construction work which is not in accordance with their health and safety plan; or
- act in any way which may pose a threat to the health and safety of any person(s) present on the site of the works or in its vicinity, irrespective of him/them being employed or legitimately on the site of the works or in its vicinity.

## 7.2 Principal Contractor

7.2.1 The Principal Contractor shall accept the appointment under the terms and Conditions of Contract. The Principal Contractor shall sign and agree to those terms and conditions and shall, before commencing work, notify the Department of Labour of the intended construction work in terms of Regulation 3 of the Construction Regulations. Annexure B of this Specification contains a “Notification of Construction Work” form. The Principal Contractor shall submit the notification in writing prior to commencement of work and inform the Client or his Agent accordingly.

7.2.2 The Principal Contractor shall ensure that he is fully conversant with the requirements of this Specification and all relevant health and safety legislation. This Specification is not intended to supersede the Act nor the Construction Regulations or any part of either. Those sections of the Act and the Construction Regulations which apply to the scope of work to be performed by the Principal Contractor in terms of this contract (entirely or in part) will continue to be legally required of the Principal Contractor to comply with. The Principal Contractor will in no manner or means be absolved from the responsibility to comply with all applicable sections of the Act, the



Construction Regulations or any Regulations proclaimed under the Act or which may perceivable be applicable to this contract.

7.2.3 The Principal Contractor shall provide and demonstrate to the Client a suitable and sufficiently documented health and safety plan based on this Specification, the Act and the Construction Regulations, which shall be applied from the date of commencement of and for the duration of execution of the works. This plan shall, as appendices, include the health and safety plans of all Sub-contractors for which he has to take responsibility in terms of this contract.

7.2.4 The Principal Contractor shall provide proof of his registration and good standing with the Compensation Fund or with a licensed compensation insurer prior to commencement with the works.

7.2.5 The Potential Principal Contractor shall, in submitting his tender, demonstrate that he has made provision for the cost of compliance with the specified health and safety requirements, the Act and Construction Regulations. (Note: This shall have to be contained in the conditions of tender upon which a tenderer's offer is based.)

7.2.6 The Principal Contractor shall consistently demonstrate his competence and the adequacy of his resources to perform the duties imposed on the Principal Contractor in terms of this Specification, the Act and the Construction Regulations.

7.2.7 The Principal Contractor shall ensure that a copy of his health and safety plan is available on site and is presented upon request to the Client, an Inspector, Employee or Sub-contractor.

7.2.8 The Principal Contractor shall ensure that a health and safety file, which shall include all documentation required in terms of the provisions of this Specification, the Act and the Construction Regulations, is opened and kept on site and made available to the Client or Inspector upon request. Upon completion of the works, the Principal Contractor shall hand over a consolidated health and safety file to the Client.

7.2.9 The Principal Contractor shall, throughout execution of the contract, ensure that all conditions imposed on his Sub-contractors in terms of the Act and the Construction Regulations are complied with as if they were the Principal Contractor.

7.2.10 The Principal Contractor shall from time to time evaluate the relevance of the Health and Safety Plan and revise the same as required, following which revised plan shall be submitted to the Client and/or his/her Agent for approval.

7.3 **Contractor** (Responsibilities of ..... in terms of this contract and health and safety specification)

As per 7.2 above, as and where applicable or as indicated in the letter of appointment.

## 8. **SCOPE OF WORK** (*also refer to paragraph 2 on page 5*)

These specifications are applicable to the specific scope of work pertaining to the above-mentioned project as detailed in the tender documents, this amongst all includes for example:

Fix internal defects to Guardhouse.

External works at Rear Parking Area (lighting, demountable kerbs, paving, retaining wall).

Removal of existing trees.

Fix defective work and new work at Prisoner Off Loading.

New translucent roof over Public Waiting Area.

Repairs within Public Waiting Area 3.

New shelving, defective work and repairs to Library.

Repairs and renovations to walkway outside Courtrooms A and B.

New secure Judges Entrance (double carport, brick-paved driveway, new door).

Repairs and renovations to Garage and Stores.

Repairs and renovations to Cash Hall. (new gate, new security door, new bullet proof glazed panel, new bullet proof window).

New paving and stormwater to existing Courtyard.

Reinforced concrete slab – fix defective waterproofing and new waterproofing where required.

New staff toilet.

Repairs and renovations to all toilets.

Repairs and renovations within specific offices.

New vehicular gate at rear entrance.

New sewer and stormwater.

Making good all work.

**N.B** Construction Regulation 5(3)(g) determines that potential contractors submitting tenders have made provision for the cost of health and safety measures during the construction process.

The Principal Contractor shall on tendering make provision for the cost of health and safety measures in terms of his/her documented Health and Safety Plan and measures based on these Health and Safety Specifications during the period of the project. The cost shall be duly quantified and clearly identified for such identifiable purpose.

**THE HEALTH AND SAFETY PLAN IS THEREFORE TO BE INCLUDED WITH THE TENDER DOCUMENTS WHEN TENDERS ARE INVITED FOR THE PROJECT.**

## **9. HEALTH AND SAFETY FILE**

The Principal Contractor must, in terms of Construction Regulation 5(7), keep a Health & Safety File on site at all times that must include all documentation required in terms of the Act and Regulations and must also include a list of all Contractors on site that are accountable to the Principal Contractor and the agreements between the parties and details of work being done. A more detailed list of documents and other legal requirements that must be kept in the Health and Safety File is attached as an addendum to this document.

### **IMPORTANT:**

The Health and Safety File will remain the property of the Client and/or its Agent on its behalf throughout the period of the project and shall be consolidated and handed over to the Client and/or its Agent on its behalf at the time of completion of the project.

## **10. OH&S GOALS AND OBJECTIVES AND ARRANGEMENTS FOR MONITORING AND REVIEWING OH&S PERFORMANCE**

The Principal Contractor is required to maintain an acceptable disabling incident frequency rate (DIFR) and report on this to the Client and/or its Agent on its behalf on a monthly basis.

## **11. IDENTIFICATION OF HAZARDS AND DEVELOPMENT OF RISK ASSESSMENTS, STANDARD WORKING PROCEDURES (SWP) AND METHOD STATEMENTS**

The Principal Contractor is required to develop Risk Assessments, Standard Working Procedures (SWP) and Method Statements for each activity executed in the contract or project (see 4. below “Project/Site Specific Requirements”)

The identification of hazards is over and above the hazards identification programme and those hazards identified during the drafting of the Health and Safety Plan.

## **12. ARRANGEMENTS FOR MONITORING AND REVIEW**

### **12.1 Monthly Audit by Client and/or its Agent on its behalf**

The Client and/or its Agent on its behalf will be conducting Periodic Audits at times agreed with the Principal Contractor Audit to comply with Construction Regulation 4(1)(d) to ensure that the principal Contractor has implemented, is adhering to and is maintaining the agreed and approved OH&S Plan.

### **12.2 Other audits and inspections by client and/or its agent on its behalf.**

The Client and/or its Agent on its behalf reserves the right to conduct any other ad hoc audits and inspections as it and/or its Agent on its behalf deem necessary.

A representative of the Principal Contractor and the relevant Health and Safety Representative(s) (SHE-Reps) must accompany the Client and/or its Agent on its behalf on all Audits and Inspections and may conduct their own audit/inspection at the same time. Each party will, however, take responsibility for the results of his/her own audit/inspection results. The Client and/or its Agent on its behalf may require to be handed a copy of the minutes of the previous Health and Safety Committee meeting reflecting possible recommendations made by that committee to the Employer for reference purposes.

### **12.3 Reports**

12.3.1 The Principal Contractor shall report all incidents where an employee is injured on duty to the extent that he/she:

- \* dies
- \* becomes unconscious
- \* loses a limb or part of a limb
- \* is injured or becomes ill to such a degree that he/she is likely either to die or to suffer a permanent physical defect or likely to be unable for a period of at least 14 days either to work or continue with the activity for which he/she was usually employed

OR where:

- \* a major incident occurred
- \* the health or safety of any person was endangered
- \* where a dangerous substance was spilled
- \* the uncontrolled release of any substance under pressure took place
- \* machinery or any part of machinery fractured or failed resulting in flying, falling or uncontrolled moving objects
- \* machinery ran out of control,

to the Provincial Director of the Department of Labour within seven days and at the same time to the Client and/or its Agent on its behalf.

Refer in this regard to Section 24 of the Act & General Administrative Regulation 8.

12.3.2 The Principal Contractor is required to provide the Client and/or its Agent on its behalf with copies of all statutory reports required in terms of the Act and the Regulations.

12.3.3 The Principal Contractor is required to provide the Client and/or its Agent on its behalf with a monthly “SHE Risk Management Report”.

12.3.4 The Principal Contractor is required to provide a.s.a.p. the Client and/or its Agent on its behalf with copies of all internal and external accident/incident investigation reports including the reports contemplated in 12.7, 12.8.2, 15, 16, 17, 21 and 22 below. As soon as the occurrence of any accident/incident of whatever nature comes to the notice of the Principal Contractor, it shall be reported immediately to any of the following:

- \* JR Cilliers 082 8000 319
- \* DC Denzil 082 8000 398, or
- \* the Occupational Health and Safety Section of the Pretoria Regional Office of the Dept. of Public Works.

## **12.4 Review**

The Principal Contractor is to review the Hazard Identification, Risk Assessments and Standard Work Processes at each Production Planning and Progress Report meeting as the construction work develops and progresses and each time changes are made to the designs, plans and construction methods and processes.

The Principal Contractor must provide the Client and/or its Agent on its behalf, other Contractors and all other concerned parties with copies of any changes, alterations or amendments as contemplated in the above paragraph.

## **12.5 Site Rules and other Restrictions**

### **12.5.1 Site OH&S Rules**

The Principal Contractor must develop a set of site-specific OH&S rules that will be applied to regulate the Health and Safety Plan and associated aspects of the construction.

When required for a site by law, visitors and non-employees upon entering the site shall be issued with the proper Personal Protective Equipment (PPE) as and when necessary.

### **12.5.2 Security Arrangements**

The Principal Contractor must establish site access rules and implement and maintain these throughout the construction period. Access control must include the rule that non-employees shall at all times be provided with fulltime supervision while on site.

The Principal Contractor must develop a set of Security rules and procedures and maintain these throughout the construction period.

If not already tasked to the H&S Officer appointed in terms of Construction Regulation 6(6), the Principal Contractor must appoint a competent Emergency Controller who must develop contingency plans for any emergency that may arise on site as indicated by the risk assessments. These must include a monthly practice/testing programme for the plans e.g. January: trench collapse, February: flooding etc. and practiced/tested with all persons on site at the time, participating.

## **12.6 Training**

The contents and syllabi of all training required by the Act and Regulations including any other related or relevant training as required must be included in the Principal Contractor's Health and Safety Plan and Health and Safety File.

### **12.6.1 General Induction Training**

All employees of the Principal and other Contractors must be in possession of proof of General Induction training

### **12.6.2 Site Specific Induction Training**

All employees of the Principal and other Contractors must be in possession of Site Specific Occupational Health and Safety Induction or other qualifying training .

### **12.6.3 Other Training**

All operators, drivers and users of construction vehicles, mobile plant and other equipment must be in possession of valid proof of training.

All employees in jobs requiring training in terms of the Act and Regulations must be in possession of valid proof of training as follows:

Occupational Health and Safety Training Requirements: (as required by the Construction Regulations and as indicated by the Health and Safety Specification Document & the Risk Assessment/s and recommendations by the Health and Safety Committee):

- \* General Induction (Section 8 of the Act)
- \* Site/Job Specific Induction (also visitors) (Sections 8 & 9 of the Act)
- \* Site/Project Manager
- \* Construction Supervisor
- \* OH&S Representatives (Section 18 (3) of the Act)

- \* Training of the Appointees indicated in 12.6.1 & 12.6.2 above
- \* Operation of Cranes (Driven Machinery Regulations 18 (11)
- \* Operators & Drivers of Construction Vehicles & Mobile Plant (Construction Regulation 21)
- \* Basic Fire Prevention & Protection (Environmental Regulations 9 and Construction Regulation 27)
- \* As a minimum basic First Aid to be upgraded when necessary (General Safety Regulations 3)
- \* Storekeeping Methods & Safe Stacking (Construction Regulation 26)
- \* Emergency, Security and Fire Co-ordinator

## **12.7 Accident and Incident Investigation**

The Principal Contractor is responsible to oversee the investigation of all accidents/incidents where employees and non-employees were injured to the extent that he/she/they had to receive first aid or be referred for medical treatment by a doctor, hospital or clinic. (General Administrative Regulation 9)

The results of the investigation to be entered into the Accident/Incident Register listed above. (General Administrative Regulation 9)

The Principal Contractor is responsible for the investigation of all non-injury incidents as described in Section 24 (1) (b) & (c) of the Act and keeping a record of the results of such investigations including the steps taken to prevent similar incidents in future.

The Principal Contractor is responsible for the investigation of all road traffic accidents relating to the construction site and keeping a record of the results of such investigations including the steps taken to prevent similar accidents in future.

Notwithstanding the requirements of Section 24 of the Act, ALL incidents shall be investigated and reported on in writing, irrespective of whether such incident gave rise to injury or damage.

## **12.8 H&S Representatives (SHE-Reps – ‘safety, health & environment’) and H&S Committees**

### **12.8.1 Designation of H&S Representatives(‘SHE – Reps’)**

Where the Principal Contractor employs more than 20 persons (including the employees of other Contractors (sub-contractors) he has to appoint one H&S Representative for every 50 employees or part thereof. (Section 17 of the Act and General Administrative Regulation 6. & 7.)

H&S Representatives have to be designated in writing and the designation shall be in accordance with the Collective Agreement as concluded between the parties as is required in terms of General Administration Regulation 6.

### **12.8.2 Duties and Functions of the H&S Representatives**

The Principal Contractor must ensure that the designated H&S Representatives conduct at least

a weekly inspection of their respective areas of responsibility using a checklist and report thereon to the Principal Contractor, after which these reports shall be consolidated for submission to the Health and Safety Committee.

H&S Representatives must be included in and be part of accident/incident investigations.

H&S Representatives shall be members of at least one H&S Committee and must attend all meetings of that H&S committee.

### **12.8.3 Establishment of H&S Committee(s)**

The Principal Contractor must establish H&S Committees consisting of designated H&S Representatives together with a number of Employers Representatives appointed as per Section 19(3) that are not allowed to exceed the number of H&S Representatives on the committee. The persons nominated by the employer on a H&S Committee must be designated in writing for such period as may be determined by him. The H&S Committee shall co-opt advisory (temporary) members and determine the procedures of the meetings including the chairmanship.

The H&S Committee must meet minimum monthly and consider, at least, the following Agenda for the first meeting. Thereafter the H&S Committee shall determine its own procedures as per the previous paragraph.

#### ***Agenda:***

- 1) Opening and determining of chairmanship (only when necessary)
- 2) Minutes of Previous Minutes
- 3) Observations
- 4) Program and Safety considerations
- 5) Hygiene
- 6) Housekeeping improvement
- 7) Incidents & Accidents / Injuries
- 8) Registers:
  - a H&S Rep. Inspections
  - b. Matters of First Aid
  - c. Scaffolding
  - d. Ladders
  - e. Excavations
  - f. Portable Electric Equipment
  - g. Fire Equipment
  - h. Explosive Power Tools
  - i. Power Hand tools
  - j. Incident! Report Investigation
  - k. Pressure Vessels
  - l. Personal Protective Equipment
- 9) Safety performance Evaluations
- 10) Education & Safety promotion program
- 11) First Aid Officials and training in First Aid
- 12) Demarcation of work- /hazardous-/safe areas/walkways
- 13) Posters and signage



- 14) Environmental preservation and conservation
- 15) Specific training programmes
- 16) General
- 17) Date of Next Meeting
- 18) Closing

### **13. PROJECT/SITE SPECIFIC REQUIREMENTS**

The following is a list of specific activities and considerations that have been identified for the project and site and for which Risk Assessments, Standard Working Procedures (SWP), management and control measures and Method Statements (where necessary) have to be developed by the Principal Contractor:

- \* Clearing & Grubbing of the Area/Site
- \* Site Establishment including:
  - o Office/s
  - o Secure/Safe Storage and storage areas for materials, plant & equipment
  - o Ablution facilities
  - o Sheltered dining area
  - o Vehicle access to the site
- \* Dealing with existing Structures.
- \* Location of existing Services
- \* Installation & Maintenance of Temporary Construction Electrical Supply, Lighting and Equipment
- \* Adjacent Land uses/Surrounding property exposures
- \* Boundary & Access control/Public Liability Exposures (Remember: the Employer is also responsible for the OH&S of non-employees affected by his/her work activities.)
- \* Health risks arising from neighboring as well as own activities and from the environment e.g. threats by dogs, bees, snakes, lightning, allergies etc.
- \* Exposure to Noise
- \* Exposure to Vibration
- \* Protection against dehydration and heat exhaustion
- \* Protection from wet & cold conditions
- \* Dealing with HIV/Aids and other diseases as per specific programme provided by the client and/or its Agent on its behalf
- \* Use of Portable Electrical Equipment including:
  - o Angle grinder
  - o Electrical Drilling machine
  - o Skill saw
- \* Excavations including:
  - o Ground/soil conditions
  - o Trenching
  - o Shoring
  - o Drainage
  - o Daily inspections
- \* Welding including:

- Arc Welding
- Gas welding
- Flame Cutting
- Use of LP Gas torches and appliances
- \* Loading & Offloading of Trucks
- \* Aggregate/Sand and other Materials Delivery
- \* Manual and Mechanical Handling
- \* Lifting and Lowering Operations
  
- \* Driving & Operation of Construction Vehicles and Mobile Plant including:
  - Trenching machine
  - Excavator
  - Bomag Roller
  - Plate Compactor
  - Front End Loader
  - Mobile Cranes and the ancillary lifting tackle
  - Parking of Vehicles & Mobile Plant
  - Towing of Vehicles & Mobile Plant
- \* Use and Storage of Flammable Liquids and other Hazardous Substances – the client and/or its Agent on its behalf to be informed of this prior to commencing of the project
- \* Layering and Bedding of trench floor
- \* Installation of Pipes in trenches
- \* Backfilling of Trenches
- \* Protection against Flooding
- \* Gabion work
- \* Use of Explosives - the client and/or its Agent on its behalf to be informed of this prior to commencing of the project
- \* Protection from Overhead Power Lines
- \* As discovered by the Principal Contractor's hazard identification exercise
- \* As discovered from any inspections and audits conducted by the Client and/or its Agent on its behalf or by the Principal Contractor or any other Contractor on site
- \* As discovered from any accident/incident investigation.

**13.1 The following are in particular requirements depending on scope of works and will form a basis for compliance audits.**

1. Administrative & Legal Requirements
2. Education, Training & Promotion
3. Public Safety & Emergency Preparedness
4. Personal Protective Equipment
5. Housekeeping
6. Scaffolding, Formwork & Support work
7. Ladders
8. Electrical Safeguarding
9. Emergency/Fire Prevention & Protection
10. Excavations & Demolition
11. Tools

12. Cranes
13. Personnel & Material Hoists
14. Transport & Materials Handling
15. Site Plant & Machinery
16. Plant & Storage Yards/Site Workshops Specifics
17. Health & Hygiene

#### 14. OUTLINED DATA, REFERENCES AND INFORMATION ON CERTAIN AND/OR SPECIFIC OBLIGATORY REQUIREMENTS TO ENSURE COMPLIANCE

##### 14.1 Administrative & Legal Requirements

OHS Act Section/ Regulation	Subject	Requirements
Construction. Regulation 3	<b>Notice of carrying out Construction work</b>	Department of Labour notified Copy of Notice available on Site
General Admin. Regulation 4	<b>*Copy of OH&amp;S Act (Act 85 of 1993)</b>	Updated copy of Act & Regulations on site. Readily available for perusal by employees.
COID Act Section 80	<b>*Registration with Compens. Insurer</b>	Written proof of registration/Letter of good standing available on Site
Construction. Regulation 4 & 5(1)	<b>H&amp;S Specification &amp; Programme</b>	H&S Spec received from Client and/or its Agent on its behalf OH&S programme developed & Updated regularly
Section 8(2)(d) Construction. Regulation 7	<b>*Hazard Identification &amp; Risk Assessment</b>	Hazard Identification carried out/Recorded Risk Assessment and – Plan drawn up/Updated RA Plan available on Site Employees/Sub-Contractors informed/trained
Section 16(2)	<b>*Assigned duties (Managers)</b>	Responsibility of complying with the OH&S Act assigned to other person/s by CEO.
Construction. Regulation 6(1)	<b>Designation of Person Responsible on Site</b>	Competent person appointed in writing as Construction Supervisor with job description
Construction. Regulation 6(2)	<b>Designation of Assistant for above</b>	Competent person appointed in writing as Assistant Construction Supervisor with job description
Section 17 & 18 General Administrative Regulations 6 & 7	<b>*Designation of Health &amp; Safety Representatives</b>	More than 20 employees - one H&S Representative, one additional H&S Rep. for each 50 employees or part thereof. Designation in writing, period and area of responsibility specified in terms of GAR 6 & 7 Meaningful H&S Rep. reports. Reports actioned by Management.
Section 19 & 20 General Administrative	<b>*Health &amp; Safety Committee/s</b>	H&S Committee/s established. All H&S Reps shall be members of H&S Committees Additional members are appointed in writing.

Regulations 5		Meetings held monthly, Minutes kept. Actioned by Management.
Section 37(1) & (2)	<b>*Agreement with Mandataries/ (Sub-)Contractors</b>	Written agreement with (Sub-)Contractors List of (Sub-)Contractors displayed. Proof of Registration with Compensation Insurer/Letter of Good Standing Construction Supervisor designated Written arrangements re. H&S Reps & H&S Committee Written arrangements re. First Aid
Section 24 & General Admin. Regulation 8 COID Act Sect.38, 39 & 41	<b>*Reporting of Incidents (Dept. of Labour)</b>	Incident Reporting Procedure displayed. All incidents in terms of Sect. 24 reported to the Provincial Director, Department of Labour, within 3 days. (Annexure 1?)(WCL 1 or 2) and to the Client and/or its Agent on its behalf Cases of Occupational Disease Reported Copies of Reports available on Site Record of First Aid injuries kept
General Admin. Regulation 9	<b>*Investigation and Recording of Incidents</b>	All injuries which resulted in the person receiving medical treatment other than first aid, recorded and investigated by investigator designated in writing. Copies of Reports (Annexure 1) available on Site Tabled at H&S Committee meeting Action taken by Site Management.
Construction. Regulation 8	<b>Fall Prevention &amp; Protection</b>	Competent person appointed to draw up and supervise the Fall Protection Plan Proof of appointees competence available on Site Risk Assessment carried out for work at heights Fall Protection Plan drawn up/updated Available on Site
Construction. Regulation 8(5)	<b>Roof work</b>	Competent person appointed to plan & supervise Roof work. Proof of appointees competence available on Site Risk Assessment carried out Roof work Plan drawn up/updated Roof work inspect before each shift. Inspection register kept Employees medically examined for physical & psychological fitness. Written proof on site
Construction. Regulation 9	<b>Structures</b>	Information re. the structure being erected received from the Designer including: - geo-science technical report where relevant - the design loading of the structure - the methods & sequence of construction - anticipated dangers/hazards/special measures to construct safely Risk Assessment carried out Method statement drawn up All above available on Site Structures inspected before each shift. Inspections register kept

Construction. Regulation 10	<b>Formwork &amp; Support work</b>	Competent person appointed in writing to supervise erection, maintenance, use and dismantling of Support & Formwork Design drawings available on site Risk Assessment carried out Support & Formwork inspected: - before use/inspection - before pouring of concrete - weekly whilst in place - before stripping/dismantling. - Inspection register kept
Construction. Regulation 14	<b>Scaffolding</b>	Competent persons appointed in writing to: - erect scaffolding (Scaffold Erector/s) - act as Scaffold Team Leaders - inspect Scaffolding weekly and after inclement weather (Scaffold Inspector/s) Written Proof of Competence of above appointees available on Site Copy of SABS 085 available on Site Risk Assessment carried out Inspected weekly/after bad weather. Inspection register/s kept
Construction. Regulation 15	<b>Suspended Platforms</b>	Competent persons appointed in writing to: - control the erection of Suspended platforms - act as Suspended platforms Team Leaders - inspect Suspended Scaffolding weekly and after inclement weather Risk Assessment conducted Certificate of Authorisation issued by a registered professional engineer available on Site/copy forwarded to the Department of Labour The following inspections of the whole installation carried out by a competent person - after erection and before use - daily prior to use. Inspection register kept The following tests to be conducted by a competent person: - load test of whole installation and working parts every three months - hoisting ropes/hooks/load attaching devices quarterly. Tests log book kept Employees working on Suspended Platform medically examined for physical & psychological fitness. Written proof available
Construction. Regulation 11	<b>Excavations</b>	Competent person/s appointed in writing to supervise and inspect excavation work Written Proof of Competence of above appointee/s available on Site Risk Assessment carried out Inspected:

		<ul style="list-style-type: none"> <li>- before every shift</li> <li>- after any blasting</li> <li>- after an unexpected fall of ground</li> <li>- after any substantial damage to the shoring</li> <li>- after rain. Inspections register kept</li> </ul> <p>Method statement developed where explosives will be/ are used</p>
Construction. Regulation 12	<b>Demolition Work</b>	<p>Competent person/s appointed in writing to supervise and control Demolition work</p> <p>Written Proof of Competence of above appointee/s available on Site</p> <p>Risk Assessment carried out</p> <p>Engineering survey and Method Statement available on Site</p> <p>Inspections to prevent premature collapse carried out by competent person before each shift. Inspection register kept</p>
Construction. Regulation 17	<b>Materials Hoist</b>	<p>Competent person appointed in writing to inspect the Material Hoist</p> <p>Written Proof of Competence of above appointee available on Site.</p> <p>Materials Hoist to be inspected weekly by a competent person. Inspections register kept.</p>
Construction. Regulation 19	<b>Explosive Powered Tools</b>	<p>Competent person appointed to control the issue of the Explosive Powered Tools &amp; cartridges and the service, maintenance and cleaning. Register kept of above</p> <p>Empty cartridge cases/nails/fixing bolts returns recorded</p> <p>Cleaned daily after use <b>Work areas are demarcated!</b></p>
Construction. Regulation 18	<b>Batch Plants</b>	<p>Competent person appointed to control the operation of the Batch Plant and the service, maintenance and cleaning. Register kept of above</p> <p>Risk Assessment carried out</p> <p>Batch Plant to be inspected weekly by a competent person. Inspections register kept</p>
Construction. Regulation 20/ Driven Machinery Regulations 18 & 19	<b>Cranes &amp; Lifting Machines Equipment</b>	<p>Competent person appointed in writing to inspect Cranes, Lifting Machines &amp; Equipment</p> <p>Written Proof of Competence of above appointee available on Site.</p> <p>Cranes &amp; Lifting tackle identified/numbered</p> <p>Register kept for Lifting Tackle</p> <p>Log Book kept for each individual Crane</p> <p>Inspection: - All cranes - <b>daily by operator</b></p> <p>- Tower Crane/s - <b>after erection/6monthly</b></p> <p>- Other cranes - <b>annually by comp. person</b></p> <p>- Lifting tackle(slings/ropes/chain slings etc.) - daily or before every new application</p>
<b>Construction.</b>	<b>*Inspection &amp;</b>	Competent person appointed in writing to inspect/test

<p><b>Regulation 22/Electrical Machinery Regulations 9 &amp; 10/ Electrical Installation Regulations</b></p>	<p><b>Maintenance of Electrical Installation &amp; Equipment (including portable electrical tools)</b></p>	<p>the installation and equipment. Written Proof of Competence of above appointee available on Site. Inspections: - Electrical Installation &amp; equipment inspected after installation, after alterations and quarterly. Inspection Registers kept Portable electric tools, electric lights and extension leads must be uniquely identified/numbered. Weekly visual inspection by User/Issuer/Storeman. Register kept.</p>
<p>Construction. Regulation 26/ General Safety Regulation 8(1)(a)</p>	<p><b>*Designation of Stacking &amp; Storage Supervisor.</b></p>	<p>Competent Person/s with specific knowledge and experience designated to supervise all Stacking &amp; Storage Written Proof of Competence of above appointee available on Site</p>
<p>Construction. Regulation 27/ Environmental Regulation 9</p>	<p><b>*Designation of a Person to Co-ordinate Emergency Planning And Fire Protection</b></p>	<p>Person/s with specific knowledge and experience designated to co-ordinate emergency contingency planning and execution and fire prevention measures Emergency Evacuation Plan developed: - Drilled/Practiced - Plan &amp; Records of Drills/Practices available on Site Fire Risk Assessment carried out All Fire Extinguishing Equipment identified and on <i>register</i>. Inspected weekly. Inspection Register kept Serviced annually</p>
<p>General Safety Regulation 3</p>	<p><b>*First Aid</b></p>	<p>Every workplace provided with sufficient number of First Aid boxes. (Required where 5 persons or more are employed) First Aid freely available Equipment as per the list in the OH&amp;S Act. One qualified First Aider appointed for every 50 employees. (Required where more than 10 persons are employed) List of First Aid Officials and Certificates Name of person/s in charge of First Aid box/es displayed. Location of First Aid box/es clearly indicated. Signs instructing employees to report all Injuries/illness including first aid injuries</p>
<p>General Safety Regulation 2</p>	<p><b>Personal Safety Equipment (PSE)</b></p>	<p>PSE Risk Assessment carried out Items of PSE prescribed/use enforced Records of Issue kept Undertaking by Employee to use/wear PSE PSE remain property of Employer, not to be removed from premises GSR 2(4)</p>
<p>General Safety Regulation 9</p>	<p><b>*Inspection &amp; Use of Welding/Flame Cutting Equipment</b></p>	<p>Competent Person/s with specific knowledge and experience designated to Inspect Electric Arc, Gas Welding and Flame Cutting Equipment</p>

		<p>Written Proof of Competence of above appointee available on Site</p> <p>All new vessels checked for leaks, leaking vessels NOT taken into stock but returned to supplier immediately</p> <p>Equipment identified/numbered and entered into a register</p> <p>Equipment inspected weekly. Inspection Register kept Separate, purpose made storage available for full and empty vessels</p>
<p>Hazardous Chemical Substances (HCS) Regulations Construction Regulation 23</p>	<p><b>*Control of Storage &amp; Usage of HCS and Flammables</b></p>	<p>Competent Person/s with specific knowledge and experience designated to Control the Storage &amp; Usage of HCS (including Flammables)</p> <p>Written Proof of Competence of above appointee available on Site</p> <p>Risk Assessment carried out</p> <p>Register of HCS kept/used on Site</p> <p>Separate, purpose made storage available for full and empty containers</p>
<p>Vessels under Pressure Regulations</p>	<p><b>Vessels under Pressure (VUP)</b></p>	<p>Competent Person/s with specific knowledge and experience designated to supervise the use, storage, maintenance, statutory inspections &amp; testing of VUP's</p> <p>Written Proof of Competence of above appointee available on Site</p> <p>Risk Assessment carried out</p> <p>Certificates of Manufacture available on Site</p> <p>Register of VUP's on Site</p> <p>Inspections &amp; Testing by Approved Inspection Authority (AIA):</p> <ul style="list-style-type: none"> <li>- after installation/re-erection or repairs</li> <li>- every 36 months.</li> <li>- Register/Log kept of inspections, tests. Modifications &amp; repair</li> </ul>
<p>Construction. Regulation 21</p>	<p><b>Construction Vehicles &amp; Earth Moving Equipment</b></p>	<p>Operators/Drivers appointed to:</p> <ul style="list-style-type: none"> <li>- Carry out a daily inspection prior to use</li> <li>- Drive the vehicle/plant that he/she is competent to operate/drive</li> </ul> <p>Written Proof of Competence of above appointee available on Site. Record of Daily inspections kept</p>
<p>General Safety Regulation 13A</p>	<p><b>*Inspection of Ladders</b></p>	<p>Competent person appointed in writing to inspect Ladders</p> <p>Ladders inspected at arrival on site and weekly there after. Inspections register kept</p> <p>Application of the types of ladders (wooden, aluminium etc.) regulated by training and inspections and noted in register</p>
<p>General Safety regulation 13B</p>	<p><b>Ramps</b></p>	<p>Competent person appointed in writing to Supervise the erection &amp; inspection of Ramps. Inspection register kept.</p> <p>Daily inspected and noted in register</p>



## 14.2 Education & Training

Subject	Requirement
*Company OH&S Policy Section 7(1)	Policy signed by CEO and published/Circulated to Employees Policy displayed on Employee Notice Boards Management and employees committed.
*Company/Site OH&S Rules (Section 13(a))	Rules published Rules displayed on Employee Notice Boards Rules issued and employees effectively informed or trained: written proof Follow-up to ensure employees understand/adhere to the policy and rules.
*Induction & Task Safety Training (Section 13(a))	All new employees receive OH&S Induction Training. Training includes Task Safety Instructions. Employees acknowledge receipt of training. Follow-up to ensure employees understand/adhere to instructions.
*General OH&S Training (Section 13(a))	All current employees receive specified OH&S training: written proof Operators of Plant & Equipment receive specified training Follow-up to ensure employees understand/adhere to instructions.
*Occupational Health & Safety Promotion	<u>Incident Experience Board indicating e.g.</u> * No. of hours worked without an Injury * No. of days worked without an Injury Mission, Vision and Goal Star Grading - Board kept up to date. Safety Posters displayed & changed regularly Employee Notice Board for OH&S Notices. Site OH&S Competition. Company OH&S Competition Participation in Regional OH&S Competition Suggestion scheme.

## 14.3 Public Safety, Security Measures & Emergency Preparedness

Subject	Requirement
*Notices & Signs	Notices & Signs at entrances / along perimeters indicating <b>“No Unauthorised Entry”</b> . Notices & Signs at entrance instructing visitors and non - employees what to do, where to go and where to report on entering the site/yard with directional signs. e.g. <b>“Visitors to report to Office”</b> Notices & Signs posted to warn of overhead work and other hazardous activities. e.g. <b>General Warning Signs</b>
Site Safeguarding	Nets, Canopies, Platforms, Fans etc. to protect members of the public passing / entering the site.
*Security Measures	Access control measures/register in operation Security patrols after hours during weekends and holidays Sufficient lighting after dark Guard has access to telephone/ mobile/other means of emergency communication
*Emergency Preparedness	Emergency contact numbers displayed and made available to Security & Guard Emergency Evacuation instructions posted up on all notice boards (including employees' notice boards)

<b>*Emergency Drill &amp; Evacuation</b>	<p>Emergency contingency plan available on site/in yard</p> <p>Doors open outwards/unobstructed</p> <p>Emergency alarm audible all over (including in toilets)</p> <p>Adequate No. of employees trained to use Fire Fighting Equipment.</p> <p>Emergency Evacuation Plan available, displayed and practiced.</p> <p><b>(See Section 1 for Designation &amp; Register)</b></p>
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#### 14.4 Personal Protective Equipment

Subject	Requirement
*PPE needs analysis	Need for PPE identified and prescribed in writing. PPE remain property of Employer, not to be removed from premises GSR 2(4)
*Head Protection	All persons on site wearing Safety Helmets including Sub-contractors and Visitors (where prescribed)
*Foot Protection	All employees on site wearing Safety Footwear including Gumboots for concrete / wet work and non-slip shoes for roof work. Visitors to wear same upon request or where prescribed
*Eye and Face Protection	<u>Eye and Face (also Hand and Body) Protection</u> (Goggles, Face Shields, Welding Helmets etc.) used when operating the following: <ul style="list-style-type: none"> <li>* Jack/ Kango Hammers</li> <li>* Angle / Bench Grinders</li> <li>* Electric Drills (Overhead work into concrete / cement / bricks)</li> <li>* Explosive Powered tools</li> <li>* Concrete Vibrators / Pokers</li> <li>* Hammers &amp; Chisels</li> <li>* Cutting / Welding Torches</li> <li>* Cutting Tools and Equipment</li> <li>* Guillotines and Benders</li> <li>* Shears</li> <li>* Sanders and Sanding Machines</li> <li>* CO2 and Arc Welding Equipment</li> <li>* Skill / Bench Saws</li> <li>* Spray Painting Equipment etc.</li> </ul>
*Hearing Protection	<u>Hearing Protectors</u> (Muffs, Plugs etc.) used when operating the following: <ul style="list-style-type: none"> <li>* Jack / Kango Hammers</li> <li>* Explosive Powered Tools</li> <li>* Wood/Aluminium Working Machines e.g. saws, planers, routers</li> </ul>
*Hand Protection	<u>Protective Gloves</u> worn by employees handling / using: <ul style="list-style-type: none"> <li>* Cement / Bricks / Steel / Chemicals</li> <li>* Welding Equipment</li> <li>* Hammers &amp; Chisels</li> <li>* Jack / Kango Hammers etc.</li> </ul>
*Respiratory Protection	Suitable/efficient prescribed <u>Respirators</u> worn correctly by employees handling / using: <ul style="list-style-type: none"> <li>* Dry cement</li> <li>* Dusty areas</li> </ul>

	<ul style="list-style-type: none"> <li>* Hazardous chemicals</li> <li>* Angle Grinders</li> <li>* Spray Painting etc.</li> </ul>
*Fall Prevention Equipment	<p>Suitable <u>Safety Belts</u> / Fall Arrest Equipment correctly used by persons working on / in unguarded, elevated positions e.g.:</p> <ul style="list-style-type: none"> <li>* Scaffolding</li> <li>* Riggers</li> <li>* Lift shafts</li> <li>* Edge work</li> <li>* Ring beam edges etc.</li> </ul> <p>Other methods of fall prevention applied e.g. catch nets</p>
*Protective Clothing	All jobs requiring protective clothing ( Overalls, Rain Wear, Welding Aprons etc.) Identified and clothing worn.
*PPE Issue & Control	<p>Identified Equipment issued free of charge.</p> <p>All PPE maintained in good condition. (Regular checks).</p> <p>Workers instructed in the proper use &amp; maintenance of PPE.</p> <p>Commitment obtained from wearer accepting conditions and to wear the PPE.</p> <p>Record of PPE issued kept on H&amp;S File.</p> <p>PPE remain <u>property</u> of Employer, not to be removed from <u>premises</u> GSR 2(4)</p>

#### 14.5 Housekeeping

Subject	Requirement
*Scrap Removal System	<p>All items of Scrap/Unusable Off-cuts/Rubble and redundant material removed from working areas on a regular basis.</p> <p>(Daily)</p> <p>Scrap/Waste removal from heights by chute/hoist/crane.</p> <p>Nothing thrown/swept over sides.</p> <p>Scrap disposed of in designated containers/areas</p> <p>Removal from site/yard on a regular basis.</p>
Stacking & Storage  (See Section 1 for Designation & Register)	<p><u>Stacking:</u></p> <ul style="list-style-type: none"> <li>* Stable, on firm level surface/base.</li> <li>* Prevent leaning/collapsing</li> <li>* Irregular shapes bonded</li> <li>* Not exceeding 3x the base</li> <li>* Stacks accessible</li> <li>* Removal from top only.</li> </ul> <p><u>Storage:</u></p> <ul style="list-style-type: none"> <li>* Adequate storage areas provided.</li> <li>* Functional – e.g. demarcated storage areas/racks/bins etc.</li> <li>* Special areas identified and demarcated e.g. flammable gas, cement etc.</li> <li>* Neat, safe, stable and square.</li> <li>* Store/storage areas clear of superfluous material.</li> <li>* Storage behind sheds etc. neat/under control.</li> <li>* Storage areas free from weeds, litter etc.</li> </ul>
*Waste Control/Reclamation	<p>Re-usable off-cuts and other re-usable material removed daily and kept to a minimum in the work areas.</p> <p>All re-usable materials neatly stacked/stored in designated</p>

	areas. (Nails removed/bent over in re-usable timber). Issue of hardware/nails/screws/cartridges etc. controlled and return of unused items monitored.
Sub-contractors (Housekeeping)	Sub-contractors required to comply with Housekeeping requirements.

#### 14.6 Working at Heights (including roof work)

Subject	Requirement
Openings	Unprotected openings adequately guarded/fenced/barricaded/catch nets installed
	Roof work discontinued when bad/hazardous weather Fall protection measures (including warning notices) when working close to edges or on fragile roofing material Covers over openings in roof of robust construction/secured against displacement

#### 14.7 Scaffolding / Formwork / Support Work

Subject	Requirement
Access/System Scaffolding	Foundation firm / stable Sufficient bracing. Tied to Structure/prevented from side or cross movement Platform boards in good condition/sufficient/secured. Handrails and toe boards provided. Access ladders / stairs provided. Area/s under scaffolding tidy. Safe/unsafe for use signs Complying with OH&S Act/SABS 085
Free Standing Scaffolding	Foundation firm / stable Sufficient bracing. Platform boards in good condition/sufficient/secured. Handrails and toe boards provided. Access ladders / stairs provided. Area/s under scaffolding tidy. Safe/unsafe for use signs Height to base ratio correct Outriggers used /tied to structure where necessary Complying with OH&S Act/SABS 085
*Mobile Scaffolding	Foundation firm / stable Sufficient bracing. Platform boards in good condition/sufficient/secured. Handrails and toe boards provided. Access ladders / stairs provided. Area/s under scaffolding tidy. Safe/unsafe for use signs
*Mobile Scaffolding	Wheels / swivels in good condition Brakes working and applied.

	Height to base ratio correct. Outriggers used where necessary Complying with OH&S Act/SABS 085
Suspended Scaffolding	Outriggers securely supported and anchored. Correct No. of steel wire ropes used. Platform as close as possible to the structure. Handrails on all sides All winches / ropes / cables / brakes inspected regularly and replaced as prescribed Scaffolding complies with OHS Act (Act 85/93) Winch(es) maintained by competent person(s)
Formwork / Support Work	All components in good condition. Foundation firm / stable. Adequate bracing / stability ensured. Good workmanship / uprights straight and plumb. Good cantilever construction. Safe access provided. Areas under support work tidy. Same standards as for system scaffolding.
Special Scaffolding	Special Scaffolding e.g. Cantilever, Jib and Truss-out scaffolds erected to an acceptable standard and inspected by specialists.
Edges & Openings	Edges barricaded to acceptable standards. Manhole openings covered / barricaded. Openings in floor / other openings covered, barricaded/fenced. Stairs provided with handrails. Lift shafts barricaded / fenced off.

#### 14.8 Ladders

Subject	Requirement
*Physical Condition / Use & Storage	Stepladders - hinges/stays/braces/stiles in order. Extension ladders - ropes/rungs/stiles/safety latch/hook in order. Extension / Straight ladders secured or tied at the bottom / top. No joined ladders used Wooden ladders are never painted except with varnish Aluminium ladders NOT to be used with electrical work All ladders stored on hooks / racks and not on ground. Ladders protrude 900 mm above landings / platforms / roof. Fixed ladders higher than 5 m have cages/Fall arrest system

#### 14.9 Electricity (as part of, or additional to the manual "Safety & Switching Procedures for Electrical Installations"- see attached document)

Subject	Requirement
*Electrical Distribution Boards & Earth	Colour coded / numbered / symbolic sign displayed. Area in front kept clear and unobstructed. Fitted with inside cover plate / openings blanked off / no exposed "live"

Leakage	<p>conductors / terminals/Door kept close</p> <p>Switches / circuit breakers identified.</p> <p>Earth leakage protection unit fitted and operating.</p> <p>Tested with instrument: Test results within 15 – 30 milliamps</p> <p>Aperture/Opening/s provided for the plugging in and removal of extension leads without the need to open the door</p> <p>Apertures and openings used for extension leads to be protected against the elements and especially rain</p>
*Electrical Installations & Wiring	<p>Temporary wiring / extension leads in good condition / no bare or exposed wires.</p> <p>Earthing continuity / polarity correct:</p> <p><b>Looking at the open connectors to connect the wiring, the word “Brown” has the letter ‘R’ in it, so the <u>b’R’own</u> wire connects to the ‘<u>R</u>’ight hand connector. “Blue” has the letter ‘L’ in it, so the <u>b’L’ue</u> wire connects to the ‘<u>L</u>’eft hand connector.</b></p> <p>Cables protected from mechanical damage and moisture.</p> <p>Correct loading observed e.g. no heating appliance used from lighting circuit etc.</p> <p>Light fittings/lamps protected from mechanical damage/moisture.</p> <p>Cable arrestors in place and used inside plugs</p>
*Physical condition of Electrical Appliances & Tools	<p><u>Electrical Equipment and Tools:</u> (includes all items plugging in to a 16 Amp supply socket)</p> <p>Insulation / casing in good condition.</p> <p>Earth wire connected/intact where not of double insulated design</p> <p>Double insulation mark indicates that no earth wire is to be connected.</p> <p>Cord in good condition/no bare wires/secured to machine &amp; plug.</p> <p>Plug in good condition, connected correctly and correct polarity.</p>

#### 14.10 Emergency and Fire Prevention and Protection

Subject	Requirement
*Fire Extinguishing Equipment	<p>Fire Risks Identified and on record</p> <p><u>The correct and adequate Fire Extinguishing Equipment available for:</u></p> <ul style="list-style-type: none"> <li>* Offices</li> <li>* General Stores</li> <li>* Flammable Store</li> <li>* Fuel Storage Tank/s and catchment well</li> <li>* Gas Welding / Cutting operations</li> <li>* Where flammable substances are being used / applied.</li> <li>* Equipment Easily Accessible</li> </ul>
*Maintenance	Fire equipment checked minimum monthly, serviced yearly
*Location & Signs	<p><u>Fire Extinguishing Equipment:</u></p> <ul style="list-style-type: none"> <li>* Clearly visible</li> <li>* Unobstructed</li> <li>* Signs posted including “No Smoking” / “No Naked Lights” where required. (Flammable store, Gas store, Fuel tanks etc.)</li> </ul>
* Storage Issue & Control of Flammables (incl.	Storage Area provided for flammables with suitable doors, ventilation, bund etc. Flammable store neat / tidy and no Class A combustibles. Decanting of flammable substances carried out in ignition free and adequately ventilated area.

Gas cylinders	<p>Container bonding principles applied</p> <p>Only sufficient quantities issued for one task or one day's usage</p> <p>Separate, special gas cylinder store/storage area.</p> <p>Gas Cylinders stored / used / transported upright and secured in trolley/cradle/structure and ventilated.</p> <p>Types of Gas Cylinders clearly identified as well as the storage area and stored separately.</p> <p>Full cylinders stored separately from empty cylinders.</p> <p>All valves, gauges, connections, threads of all vessels to be checked regularly for leaks.</p> <p>Leaking acetylene vessels to be returned to the supplier <b>IMMEDIATELY</b>.</p>
*Storage, Issue & Control of Hazardous Chemical Substances (HCS)	<p>HCS storage principles applied: products segregated</p> <p>Only approved, non-expired HCS to be used</p> <p>Only the prescribed PPE shall be used as the minimum protection</p> <p>Provision made for leakage/spillage containment and ventilation</p> <p>Emergency showers/eye wash facilities provided</p> <p>HCS under lock &amp; key controlled by designated person</p> <p>Decanted/issued in containers as prescribed with information/warning labels</p> <p>Disposal of unwanted HCS by accredited disposal agent</p> <p>No dumping or disposal of any HCS on or inside the storage area or anywhere else on the project site</p> <p>All vessels or containers to be regularly checked for leaks</p>

#### 14.11 Excavations

Subject	Requirement
Excavations deeper than 1.5 m.	<p>Shored / Braced to prevent caving / falling in.</p> <p>Provided with an access ladder.</p> <p>Excavations guarded/barricaded/lighted after dark in public areas</p> <p>Soil dumped at least 1 m away from edge of excavation</p> <p>On sloping ground soil dumped on lower side of excavation</p> <p>All excavations are subject to daily inspections</p>

#### 14.12 Tools

Subject	Requirement
*Hand Tools	<p><u>Shovels / Spades / Picks:</u></p> <ul style="list-style-type: none"> <li>* Handles free from cracks and splinters</li> <li>* Handles fit securely</li> <li>* Working end sharp and true</li> </ul> <p><u>Hammers:</u></p> <ul style="list-style-type: none"> <li>* Good quality handles, no pipe or reinforcing steel handles.</li> <li>* Handles free from cracks and splinters</li> </ul> <p>Handles fit securely</p> <p><u>Chisels:</u></p> <ul style="list-style-type: none"> <li>* No mushroomed heads / heads chamfered</li> <li>* Not hardened</li> <li>* Cutting edge sharp and square</li> </ul> <p><u>Saws:</u></p>

	<ul style="list-style-type: none"> <li>* Teeth sharp and set correctly</li> <li>* Correct saw used for the job</li> </ul>
*Explosive Powered Tools.	<p>Only used by trained / authorised personnel.  Prescribed warning signs placed / displayed where tool is in use.  Work area must be properly isolated/demarcated during use of tool.  Inspected at least monthly by competent person and results recorded.  Issue and return recorded including cartridges / nails and unused cartridges / nails / empty shells recorded.  Cleaned daily after use.</p>

### 14.13 Cranes

Subject	Requirement
Tower Crane	<p>Only operated by trained authorised operator with valid certificate of training  Structure - no visible defects  Electrical installation good/safe  Crane hook: Throat pop marked/safety latch fitted/functional  SWL/MML displayed  Limit switches with backup switches fitted/operational  Access Ladder fitted with backrests/Fall arrest system installed  Lifting tackle in good condition/inspection colour coding  Lifting tackle checked daily</p>
*Mobile Crane	<p>Only operated by trained authorised operator with valid certificate of training  Rear view mirrors  Windscreen visibility good  Windscreen wipers operating effectively  Indicators operational  Hooter working  Tyres safe/sufficient tread/pressure visibly sufficient  No missing Wheel nuts  Headlights, taillights operational  Reverse alarm working and audible and known by all employees</p>
*Mobile Crane continued	<p>Grease nipples and grease on all joints  No Oil leaks  Hydraulic pipes visibly sound/no leaks  No corrosion on Battery terminals  Boom visibly in good condition/no apparent damage  Cable/sheaves greased/no visible damage/split wires/corrosion and checked daily  Brakes working properly  Crane hook: Throat pop marked/safety latch fitted/functional  SWL/MML displayed  By-pass valves operational  Deflection chart displayed/visible to operator/driver  Outriggers functional used</p>
*Gantry Crane	<p>Only operated by trained authorised persons  Correct slinging techniques used  Recognised/displayed on chart signals used  Log book kept/up to date  Prescribed inspections conducted on crane &amp; lifting tackle and checked daily  “Crane overhead” signage, where applicable</p>



	Crane hook: Throat pop marked/safety latch fitted/functional SWL/MML displayed/load limiting switches fitted/operational
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#### 14.14 Builder's Hoist

Subject	Requirement
Builder's Hoist	<p><b>“Hoist In Operation”</b> - sign displayed.</p> <p>General construction strong and free from patent defects.</p> <p><u>Tower:</u> * Adequately secured / braced.</p> <p>* At least 900 mm available for over travel.</p> <p>* Barricaded at least 2 100 mm high at ground level and floors.</p> <p>* Landing place provided with gate at least 1 800 high.</p> <p><u>Platform:</u> * No persons conveyed on platform</p> <p>* Steel wire ropes with breaking strength of six times max. load.</p> <p>* Signal systems used which may include two way radio connection.</p> <p>* Goods prevented from moving / falling off.</p> <p>* Effective brake capable of stopping and holding max. load.</p>

#### 14.15 Transport & Materials Handling Equipment

Subject	Requirement
*Site Vehicles	<p>All Site Vehicles, Dumpers, Bobcats, Loaders etc; checked daily before use by driver / operator.</p> <p>Inventory of vehicles used/operated on site</p> <p>Inspection by means of a checklist / results recorded.</p> <p>No persons riding on equipment not designed or designated for passengers.</p> <p>Site speed limit posted, enforced and not exceeded.</p> <p>Drivers / Operators trained / licensed and carrying proof.</p> <p>No unauthorised persons allowed to drive / operate equipment.</p>
Conveyors	<p>Conveyor belt nip points and drive gear guarded.</p> <p>Emergency stop/lever/brake fitted, clearly marked &amp; accessible and tested to be functional under full load.</p>

#### 14.16 Site Plant and Machinery

Subject	Requirement
Brick Cutting Machine	<p>Operator Trained.</p> <p>Only authorised persons use the machine.</p> <p>Emergency stop switch clearly marked and accessible.</p> <p>Area around the machine dry and slip/trip free/clear of off-cuts</p> <p>All moving drive parts guarded/electrical supply cable protected</p> <p>Operator using correct PPE - eye/face/hearing/foot/hands/body.</p>
*Electric Arc Welder	<p>Welder Trained.</p> <p>Only authorised / trained persons use welder.</p> <p>Earth cable adequately earthed to work.</p> <p>Electrode holder in good condition/safe</p> <p>Cables, clamps &amp; lugs/connectors in good condition.</p>

	Area in which welding machine is used is dry/protected from wet. Welder using correct PPE - eye/ face/foot/body/respirator. Correct transparent screens & warning signs placed
*Woodworking Machines	Operators Trained. Only authorised persons use machines. Provided with guards. Guards used. Operators using correct PPE - eye/face/feet/hearing Circular saws strictly operated according to prescribed methods and settings Only prescribed saw blades (cross-cut, ripping blade, smooth cut, aluminium) shall be used for various applications
*Compressors	Relief valves correctly set and locked / sealed. Maximum Safe Working Pressure (MSWP) indicated on face of pressure gauge: not on glass cover. All drives adequately guarded. Receiver/lines drained daily Hoses good condition/clamped, not wired Compressed air NEITHER used to dust off clothing/PPE/ and work areas NOR on bare skin
Concrete Mixer / Batch Plant	Top platform provided with guardrails. Dust abatement methods in use. Operators using correct PPE - eye / hands / respirators. All moving drive parts guarded. Emergency stops identified / indicated and accessible. Area kept clean/dry/and free from tripping and slipping hazards. Operators overseer identified and crane signals displayed and used.
*Gas Welding / Flame Cutting Equipment	Only authorised/trained persons use the equipment. Torches and gauges in good condition. Flashback arrestors fitted at cylinders and gauges. Hoses in good condition/correct type/all connections with clamps Cylinders stored, used and transported in upright position, secured in trolley / cradle / to structure. All cylinders regularly checked for leaks, leaking cylinders returned immediately Fire prevention/control methods applied/hot work permits

#### 14.17 Plant & Storage Yards/Site Workshops Specifics

Subject	Requirements
Section 8(2)(1) General Machinery Regulation 2(1): <b>Supervision of the Use &amp; Maintenance of Machinery</b>	Person/s with specific knowledge and experience designated in writing to Supervise the Use & Maintenance of Machinery Critical items of Machinery identified/numbered/placed on register/inventory Inspection/maintenance schedules for abovementioned Inspections/maintenance carried out to above schedules Results recorded
General Machinery Regulation 9(2): <b>Notices re. Operation of Machinery</b>	Schedule D Notice posted in Work areas

Vessels under Pressure Regulation 13(1)(b): <b>Supervision of the Use &amp; Maintenance of Vessels under Pressure (VuP)</b>	Person/s with specific knowledge and experience designated in writing to Supervise the Use & Maintenance of VuP's VuP's identified/numbered/placed on register/Manufacturers plate intact Inspection/maintenance schedules for abovementioned Inspections/maintenance carried out to above schedules Results recorded/Test certificates available
Lock-out Procedure	Lock-out procedure in operation
Ergonomics	Ergonomics survey conducted – results on record Survey results applied
Demarcation & Colour Coding	Demarcation principles applied All services, pipes, electrical installation, stop-start controls, emergency controls etc. colour coded to own published or SABS standard Employees trained to identify colour coding
Portable & Bench Grinders	Area around grinder clear/trip/slip free Bench grinders mounted securely/grinder generally in good condition/No excessive vibration On/Off switch/button clearly demarcated/accessible Adequate guards in place Tool rest – secure/square/max. 2 mm gap, perpendicular to drive shaft Stone/disk - correct type and size/mounted correctly/dressed Use of Eye protection enforced
Battery Storage & Charging	Adequately ventilated, ignition free room/area/no smoking sign/s Batteries placed on rubber/wooden surface Emergency shower/eye wash provided No acid storage in area Prescribed methods in place and adhered to when charging batteries
Ancillary Lifting Equipment	Chain Blocks/Tirfors/jacks/mobile gantries etc. identified/numbered on register Chains in good condition/links no excessive wear/checked daily Lifting hooks – throat pop marked/safety latch fitted SWL/MML marked/displayed
Presses/Guillotines/Shears	Only operated by trained/authorised persons Interlocks/lock-outs fitted/PPE worn or used at all times

#### 14.18 Workplace Environment, Health and Hygiene

Subject	Requirement
*Lighting	Adequate lighting in places where work is being executed e.g. stairwells and basements. Light fittings placed / installed causing no irritating/blinding glare. Stroboscopic effect eliminated (not only reduced) where moving objects or machinery is used
*Ventilation	Adequate ventilation / extraction / exhausting in hazardous areas e.g. chemicals / adhesives / welding / petrol or diesel/ motors running and in confined spaces / basements.
*Noise	Tasks identified where noise levels exceeds 85 dB at any one time. All reasonable steps taken to reduce noise levels at the source. Hearing protection used where noise levels could not be reduced to below 85 dB.
*Heat Stress	Measures in place to prevent heat exhaustion in heat stress problem areas e.g. steel decks, when the WBGT index reaches 30. (See Environmental Regulation 4)

	Cold drinking water readily available at all times.
*Ablutions	Sufficient hygiene facilities provided - 1 toilet per 30 employees (National Building Regulations prescribe chemical toilets for Construction sites) Toilet paper available. Sufficient showers provided. Facilities for washing hands provided Soap/cleaning agent available for washing hands Means of drying hands available Lock-up changing facilities / area provided. Ablution facilities kept hygienic and clean.
*Eating / Cooking Facilities	Adequate storage facilities provided. Weather protected eating area provided, separate from changing area Refuse bins with lids provided. Facilities kept clean and hygienic.
*Pollution of Environment	Measures in place to minimize dust generation. Accumulation or littering of empty cement pockets, plastic wrapping / bags, packing materials etc. prevented. Spillage / discarding of oil, chemicals and diesel into storm water and other drains or into existing or newly dug holes/cavities on site expressly prohibited.
*Hazardous Chemical Substances	All substances identified and list available e.g. acids, flammables, poisons etc. Material Safety Data Sheets (MSDS) indicating hazardous properties and emergency procedures in case of incident on file and readily available. Substances stored safely. Expiry dates meticulously checked where applicable

## 15. THE PRINCIPAL CONTRACTOR'S GENERAL DUTIES

The Principal Contractor shall at all times ensure his status of an “employer” as referred to in the Act, and will abide by his/her responsibilities, duties and functions as per the requirements of the Act and Regulations with specific reference to Section 8 of the Act.

The Principal Contractor shall keep, and on demand make available, a copy of the Act on site at all times and in addition to that he/she will introduce and maintain a file titled “Health and Safety File”, or other record in permanent form, which shall contain all relevant aspects and information as contemplated in the Construction Regulations. He/she will make this file available to the client or his representative whenever necessary or on request to an interested party.

## 16. THE PRINCIPAL CONTRACTOR'S SPECIFIC DUTIES

The Principal Contractor's specific duties in terms of these specifications are detailed in the Construction Regulations as published under government notice No.R1010 dated 18 July 2003.

The Principal Contractor is specifically referred to the following elements of the Construction Regulations:

- |                   |  |
|-------------------|--|
| Regulation No. 1  | - Definitions                              |
| Regulation No. 2  | - Scope of application                     |
| Regulation No. 3  | - Notification of construction work        |
| Regulation No. 5  | - Principal Contractor and Contractor      |
| Regulation No. 6  | - Supervision of construction work         |
| Regulation No. 7  | - Risk Assessment                          |
| Regulation No. 26 | - Stacking & Storage on construction sites |
| Regulation No. 28 | - Construction welfare facilities          |
| Regulation No. 29 | - Approved Inspection authorities          |
| Regulation No. 30 | - Offences and penalties                   |

This list must not be taken to be exclusive or exhaustive!

The Principal Contractor shall ensure compliance to the Act and its Regulations and specifically to the above regulations, and document each record in the Health and Safety File.

## **17. THE PRINCIPAL CONTRACTOR'S SPECIFIC RESPONSIBILITIES WITH REGARD TO HAZARDOUS ACTIVITIES**

The following activities are identifiable as hazardous in terms of the Construction Regulations.

The contractor shall execute the activities in accordance with the following Construction Regulations and other applicable regulations of the Act:

- |                   |                             |
|-------------------|-----------------------------|
| Regulation No. 8  | - Fall protection           |
| Regulation No. 9  | - Structures                |
| Regulation No. 10 | - Formwork and support work |
| Regulation No. 11 | - Excavation work           |
| Regulation No. 12 | - Demolition work           |
| Regulation No. 13 | - Tunneling                 |
| Regulation No. 14 | - Scaffolding               |
| Regulation No. 15 | - Suspended platforms       |
| Regulation No. 16 | - Boatswain's chairs        |
| Regulation No. 17 | - Material hoists           |

Regulation No. 18	- Batch plants
Regulation No. 19	- Explosive powered tools
Regulation No. 20	- Cranes
Regulation No. 21	- Construction vehicles & mobile plant.
Regulation No. 22	- Electrical installations and machinery on construction sites
Regulation No. 23	- Use and temporary storage of flammable liquids on construction sites
Regulation No. 24	- Water environments
Regulation No. 25	- Housekeeping on construction sites
Regulation No. 27	- Fire precautions on construction sites.

This list must not be taken to be exclusive or exhaustive!

All of the above requirements will be read in conjunction with the relevant regulations and health and safety standards as required by the Act. All documents and records required by the Construction Regulations will be kept in the Health and Safety File and will be made available at any time when required by the client or his representative, or on request to an interested party.

## **18. GENERAL NOTES TO THE PRINCIPAL CONTRACTOR**

### **Legal Framework**

Part of legal obligations

The more important Acts and relevant subordinate/secondary legislation as well as other (inter alia Local Government) legislation that also apply to the State as well as to State owned buildings and premises: -

- (i) The latest issue of SABS 0142: "Code of Practice for the Wiring of Premises"
- (ii) The Local Government Ordinance 1939 (Ordinance 17 of 1939) as amended and the municipal by-laws and any special requirements of the local supply authority
- (iii) The Fire Brigade Services Act 1987, Act 99 of 1987 as amended
- (iv) The National Building Regulations and Building Standards Act 1977 (Act 103 of 1977) as amended and relevant proclaimed Regulations (SABS 0400)
- (v) The Post Office Act 1958 (Act 44 of 1958) as amended
- (vi) The Electricity Act 1984, Act 41 of 1984
- (vii) The Regulations of Local Gas Board(s), including Publications of the SABS Standards and Codes of Practice, with specific reference to GNR 17468 dated 4<sup>th</sup> October 1997
- (viii) Legislation pertaining to water usage and the environment
- (ix) Legislation governing the use of equipment, which may emit radiation (e.g. X-Rays etc.)
- (x) Common Law

## Legal Liabilities

Common Law and Legislation

Based on two main criteria –

- Would the reasonable person have foreseen the hazard?  
**That is a reasonable person in that specific position, taking experience, qualifications, authority, position in the organization etc. into consideration**
- Would the reasonable person have taken precautionary measures (action) to prevent or limit the hazard?

Negligence can be proven on failure on **any** or **both** of the above criteria  
(There may not necessarily be a relationship between criminal and civil liability!)

## 19. HOUSE KEEPING

Good housekeeping will be maintained at all times as per Construction Regulation No. 25. Poor housekeeping contributes to three major problems, namely, costly or increased accidents, fire or fire hazards and reduction in production. Good housekeeping will enhance production time.

Particular emphasis is to be placed on the following crucial elements of a construction site:

- Phase priorities and production/plant layout
- Enclosures
- Pits, openings and shoring
- Storage facilities
- Effective, sufficient and maintained lighting or illumination
- Principal sources of injuries e.g. stairways, runways, ramps, loose building material
- Oil, grease, water, waste, rubble, glass, storm water
- Colour coding
- Demarcations
- Pollution
- Waste disposal
- Ablution and hygiene facilities
- First aid

This list must not be taken to be exclusive or exhaustive!

In promotion of environmental control all waste, rubble, scrap etc, will be disposed of at a registered dump site and records will be maintained. Where it is found to be impractical to use a registered dump site or it is not available, the Principal Contractor will ensure that the matter is brought to record with the client or his representative, after which suitable, acceptable alternatives will be sought and applied.

Dross and refuse from metals, and waste matters or by-products whose nature is such that they are poisonous or capable of fermentation, putrefaction or constituting a nuisance shall be treated or disposed of by methods approved of by an inspector.

NOTE: No employer (Principal Contractor) shall require or permit any person to work at night or after hours unless there is adequate, suitable artificial lighting including support services in respect of Health and Safety.

## **20. LOCKOUT SYSTEMS - *ELECTRICAL!***

A system of control shall be established in order that no unauthorized person can energize a circuit, open a valve, or activate a machine on which people are working or doing maintenance, even if equipment, plant or machinery is out of commission for any period, thus eliminating injuries and damage to people and equipment as far as is reasonably practicable.

Physical/mechanical lock-out systems shall be part of the safety system and included in training. Lockouts shall be tagged and the system tested before commencing with any work or repairs.

## **21. INCIDENT INVESTIGATION**

Inspection and reporting is the best way in which a responsible contractor can control his area of responsibility. All incidents therefore, irrespective of whether it gave rise to loss, injury, damage or not, shall be investigated and the results recorded in the Health and Safety File. (attached GAR 9)

## **22. GENERAL**

The project under control of the Principal Contractor shall be subject to periodic health and safety audits that will be conducted by the client at intervals agreed upon between the Principal Contractor and the client, provided such intervals will not exceed periods of one month. The Principal Contractor is to ensure that he/she and all persons under his control on the construction site shall adhere to the above specifications, as non-conformance will lead to the client taking action as directed by Construction Regulation 4.1(e). The Principal Contractor should note that he/she shall be held liable for any anomalies including costs and resulting deficiencies due to delays caused by non-conformance and/or non-compliance to the above Health and Safety Specifications and the Health and Safety Plan based on these specifications.



## 23. IMPORTANT LISTS AND RECORDS TO BE KEPT

The following are lists of several records that are to be kept in terms of the Construction Regulations. The lists are:

- 1 List of appointments
- 2 List of record keeping responsibilities
- 3 Inspection checklist

These lists and documents are to be used as a point of reference to determine which components of the Act would be applicable to a particular site or task or project, as was intended under paragraph 1 (“Preamble”) above.

### 1. LIST OF APPOINTMENTS

<i>ITEM</i>	<b>REGULATION</b>	<b>APPOINTMENT</b>	<b>RESPONSIBLE PERSON</b>
1.	4(1)(c)	Principal contractor for each phase or project	Client
2.	5.(3)(b)	Contractor	Principal Contractor
3.	5(11)	Contractor	Contractor
4.	6(1)	Construction supervisor	Contractor
5.	6(2)	Construction supervisor sub-ordinates	Contractor
6.	6(6)	Health and Safety Officer	Contractor
7.	7(1)	Person to Carry Out Risk Assessment	Contractor
8.	7(4)	Trainer/Instructor	Contractor
9.	8(1)(a)	Fall Protection Planner	Contractor
10.	10 (a)	Formwork & Support Work Supervisor	Contractor
11.	10(e) + (f)	Formwork & Support Work Examiner	Contractor
12.	11(1)	Excavation Supervisor	Contractor
13.	11(3)(b)(ii)(b)	Professional Engineer or Technologist	Contractor
14.	11(3)(k)	Explosives Expert	Contractor
15.	12(1)	Supervisor Demolition Work	Contractor
16.	12(2) + (3)	Demolition Expert	Contractor
17.	12(11)	Explosives Expert	Contractor
18.	14(2)	Scaffold Supervisor	Contractor
19.	15(1)	Suspended Platform Supervisor	Contractor
20.	15(2)(c)	Compliance Plan Developer	Contractor
21.	15(8)(c)	Suspended Platform Expert	Contractor
22.	15(13)	Outrigger Expert	Contractor
23.	17(8)(a)	Material Hoist Inspector	Contractor
24.	18(1)	Batch Plant Supervisor	Contractor
25.	18(7)	Batch Plant Operator	Contractor
26.	19(2)(b)	Power Tool Expert	Contractor
27.	19.2 (g) (i)	Power Tool Controller	Contractor
28.	20(f)	Tower Crane Operator	Contractor
29.	21(1)(d)(i)	Construction Vehicle and Mobile Plant Operator	Contractor
30.	21(1)(j)	Construction Vehicle and Mobile Plant Inspector	Contractor
31.	22(d)	Temporary Electrical Installations Inspector	Contractor
32.	22 (e)	Temporary Electrical Installations Controller	Contractor
33.	26 (a)	Stacking and Storage Supervisor	Contractor
34.	27 (h)	Fire Equipment Inspector	Contractor

## LIST OF RECORD KEEPING RESPONSIBILITIES

<i>ITEM</i>	<i>CR</i>	<i>RECORD TO BE KEPT</i>	<b>RESPONSIBLE PERSON</b>
1.	3(3)	Notification to Provincial Director – Annexure A Available on site	Principal Contractor
2.	4(3)	Copy of Principal Contractor’s Health & Safety Plan Available on request	Client
3.	5(6)	Copy of Principal Contractor’s Health & Safety Plan As well as each Contractor’s Health & Safety Plan Available on request	Principal Contractor
4.	5(7)	Health and Safety File opened and kept on site (including all documentation required i.t.o. OHS&A & Regulations Available on request	Every Contractor
5.	5(8)	Consolidated Health and Safety File handed to Client on completion of Construction work. To include all documentation required i.t.o. OHS&A & Regulations and records of all drawings, designs, materials used and similar information on the structure	Principal Contractor
6.	5(9)	Comprehensive and Updated List of all Contractors on site, the agreements between the parties and the work being done Included in Health and Safety file and available on request	Principal Contractor
7.	6(7)	Keep record on the Health and Safety File of the input by Construction Safety Officer [CR 6 (7)] at design stage or on the Health and Safety Plan	Contractor
8.	7(2)	Risk Assessment - Available on site for inspection	Contractor
9.	7 (9)	Proof of Health and Safety Induction Training	Every Employee on site
10.	8(3)	Construction Supervisor [CR 6(1)] has latest updated version of Fall Protection Plan [CR 8(1)]	Contractor
11.	9(2)(b)	Inform contractor in writing of dangers and hazards relating to construction work	Designer of Structure
12.	9(3)	All drawings pertaining to the design of structure On site available for inspection	Contractor
13.	9(4)	Record of inspections of the structure [First 2 years – once every 6 months, thereafter yearly] - Available on request	Owner of Structure
14.	9(5)	Maintenance records - safety of structure - Available on request	Owner of Structure
15.	10(d)	Drawings pertaining to the design of formwork/support work structure - Kept on site, available on request	Contractor
16.	11(3)(h)	Record of excavation inspection - On site available on request	Contractor
17.	15(11)	Suspended Platform inspection and performance test records Kept on site available, on request	Contractor
18.	17(8)(c)	Material Hoist daily inspection entered and signed in record book kept on the premises	Contractor
19.	17(8)(d)	Maintenance records for Material Hoist - Available on site	Contractor
20.	18(9)	Records of Batch Plant maintenance and repairs On site available for inspection	Contractor
21.	19(2)(g)(ii)	Issuing and collection of cartridges and nails or studs (Explosive Powered Tools) recorded in register – recipient signed for receipt as well as return	Contractor
22.	21(1)(j)	Findings of daily inspections (prior to use) of Construction Vehicles and Mobile Plant	Contractor
23.	22(d)	Record of temporary electrical installation inspections [once a week] and electrical machinery [daily before use] in a register and kept on site	Contractor
24.	27(l)	Fire Evacuation Plan	Contractor

## INSPECTION CHECKLIST

<b>Employer Particulars</b>	
Employer:	
Registered Name of Enterprise:	
Trade Name of Enterprise:	
Company Registration No.:	
SARS Registration No.:	
UIF Registration No.:	
COIDA Registration No.:	
Relevant SETA for EEA purposes:	
Industry Sector:	
Bargaining Council:	
Contact Person:	
Address of Premises:	
Postal Address:	
Telephone Number:	
Fax Number:	
E-mail Address:	
Chief Executive Officer:	
Chief Executive Officer Address:	
Competent Person:	
Maximum power demand: in KW	
Health and Safety Representatives:	
Activities, products manufactured and/ services rendered:	
Raw materials, materials and chemical/ biological substances:	
Total Number of Employees:	Male: Female:

<b>Contractor Particulars</b>	
Contractors:	
Site Address:	
Contracts Manager:	
Managing Director:	
Competent Persons:	
CR14: SCAFFOLDING:	
CR15: SUSPENDED SCAFFOLDING:	
CR17(6): MATERIAL HOIST (S):	
CR18(1): BATCH PLANT:	
CR8(1)(a): FALL PROTECTION:	
CR11(1)(1): EXCAVATION WORK:	
CR12: DEMOLITION WORK:	
CR19(2)(b): EXPLOSIVE POWER TOOLS	
CR26(a): STACKING	

INSPECTION		N/A	YES	NO
SECTION/REGS	ITEM CHECKED			
	<b>APPOINTMENTS</b>			
CR6(1)	Supervisor:			
CR6(2)	Assistant Supervisor:			
S17(1)	Health & Safety Representative: (ratio)			
S19(1)	Health & Safety Committees			
CR 12(1)	Demolition Director			
	<b>DOCUMENTS</b>			
GAR 9(1)	Records of Incidents			
GAR 4	Copy of the Act			
GAR 7	Safety Reps Report			
GAR 8	Safety Committee Minutes			
DMR 18(7)	Lifting Machinery Log (Crane)			
CR 3(3)	Notification of Construction Work			
CR 7(2)	Risk Assessment			
CR 7(9)(e)	Proof of the Health & Safety Induction Training			
CR 11(13)(h)	Inspection of Excavation (Records)			
CR 20(g)	Crane Operator Medical Certificate			
CR 21(11)	Mobile Plant Operator Medical Certificate			
CR 18(9)	Batch Plant Repairs & Maintenance Records			
CR22(d)	Temporary Electrical Installation Record			
CR 5(7)	Health & Safety File			
CR 15(11)	Suspended Platforms' Performance Records			
CR 17(b)& (c )	Material Hoists Record Book			
IMPROV NOTICE	Scaffolding Log Book			
CR 21(1)(d)(ii)	Medical Certificate of Fitness			
CR 21(1)(I)	Construction Vehicle & Mobile Plant Register			
CR 22(d)	Electrical Installation & Machinery Register			
	<b>INCIDENTS</b>			
GAR 8(1) S24	Reported			
GAR 9(1)	Recorded Investigated Action Taken			
	<b>PUBLIC SITE</b>			
FR 2(1)	Sanitary Facilities			
CR 28(1) (c)	Changing Facilities for each sex			
CR 25(d)	Perimeter fence & no admittance			
CR 25(e)	Overhead protection netting/falling objects			
NB Notice	Pedestrian warning			
	<b>PERSONAL SAFETY EQUIPMENT</b>			
	Items Issued:			
GSR 2(3)	Items Required:			
S23	(What is the payment on each item?)			
	<b>SAFETY PLANS</b>			

	<b>FIRST AID</b>			
GSR 3(6)	Name(s) of First Aider(s):			
CR 4(1)(3)	Client's Health & Safety Specification			
CR5	Principal's contractor H&S Plan			
	<b>FIRE HAZARD &amp; PRECAUTIONS</b>			
GSR 4	Flammables used, waste, hot work, diesel, fuel, gas			
ER 9(1)	Portable Extinguishers			
	<b>ELECTRICAL INSTALLATIONS &amp; MACHINERY</b>			
CR22	Guarding & PPE to Electrical Installations			
	<b>ILLUMINATION</b>			
ER 3(6)	Dangerous Places and signage as well Housekeeping			
ER6(2)(b),(c),(d)	Clear space storage			
ER6(3)	Disposal of waste			
	<b>EXCAVATIONS</b>			
CR 11(3)(l)	Barricades (plus illumination!)			
CR 11(3)(c)	Safe Depth Shoring/Bracing			
CR 11(1)(a)	Monitored			
CR 11(3)(h)	Excavation Inspection Record			
	<b>GUARDING</b>			
ER 6(2)(f)	Floor Openings (plus illumination!) Floor slab sides, Shafts (plus illumination!)			
	<b>SITE EQUIPMENT</b>			
GSR 13A(a)	Ladders condition, secured			
IMPROV	Scaffold condition, secured			
	Platforms no. of boards condition Support 1.25. Toe Boards			
IMPROV	Hand Rails			
	<b>SITE MACHINES</b>			
DMR 3(2)(3)	Circulars, guards, riving knives			
DMR 2(a)	Mixers guarded			
	<b>ELECTRIC POWER</b>			
EMR 6(1)	Supply Board, condition E.L Relay Test			
GMR 3(1)	Condition of Tools, Leads, Plugs, etc			
	<b>LIFTING MACHINE/TACKLE</b>			
DMR 18(8)	Lifting of persons			
DMR 18(8)	Condition, Securing of Load			
	<b>EXPLOSIVE POWERED TOOLS</b>			
CR 19(1)	Safe Use and Storage			
IMPROV	Warning Notice			
	<b>ROOF WORK</b>			

CR 8(1)	Safety equipment & precautions			
CR 8(2)	Fall protection plan			
CR 8(3)	Updated fall protection plan			
	<b>ASBESTOS CEMENT</b>			
AR 10(a)	Suitable Tools			

**WARNING: Under no circumstances shall any work of any nature whatsoever on any ASBESTOS material be undertaken unless the work is entrusted and mandated to a “REGISTERED ASBESTOS CONTRACTOR” in terms of the Asbestos Regulations. [CR 12(9)] (contact the Regional Manager’s Office)**

**24. HEALTH AND SAFETY FILE COMPILATION AND CONTENT  
(Document attached)**

**25. SAFETY AND SWITCHING PROCEDURES FOR ELECTRICAL  
INSTALLATIONS (Document attached)**

**NOTE:**

The guidelines and conditions provided in this attached document form an integral constituent of the Health and Safety Specifications. It is therefore a condition of acceptance that no Health and Safety Plan shall be complete unless all relevant elements of this document applicable to the above project have been included in the Health and Safety Plan. The final approval of the Health and Safety Plan in terms of CR 4(2) shall be subject to this requirement based on the following certification by the Principal Contractor or his Agent:

*“ I hereby certify that I have taken cognisance of the content of the document titled ‘SAFETY AND SWITCHING PROCEDURES FOR ELECTRICAL INSTALLATIONS’ and have included the relevant elements of the document applicable to the above project in my Health and Safety Plan and shall ensure adherence to the requirements thereof.”*

The contents of CR 5 is pivotal when mandatory appointments are contemplated.

**26. GUIDE TO THE GENERAL ADMINISTRATIVE REGULATIONS  
(Document attached)**

**27. IMPORTANT CONTACT DETAILS (HEALTH & SAFETY ONLY) (Document  
attached)**

# **ATTACHMENTS**

14. HEALTH AND SAFETY FILE COMPILATION AND CONTENT
15. SAFETY AND SWITCHING PROCEDURES FOR ELECTRICAL INSTALLATIONS
16. GUIDE TO THE GENERAL ADMINISTRATIVE REGULATIONS
17. IMPORTANT CONTACT DETAILS - HEALTH & SAFETY ONLY

**“HEALTH AND SAFETY FILE”**

**FOR**

**PROJECTS AND MAINTENANCE  
(BUILDING/ELECTRICAL/MECHANICAL)**

**MANAGED ON BEHALF OF**

**THE NATIONAL DEPARTMENT OF  
PUBLIC WORKS**

**(THE “CLIENT”)**

**PROJECT:** **MTUNZINI JUSTICE:  
Repairs and Renovations Including Upgrade of Office Building**

**WCS NO:** **037274**

This document serves as a guide to Principle Contractors and Contractors (and their agents) to assist them in complying with the requirements of the Act and more specifically the Construction Regulations and to ensure a most comprehensive Health and Safety File. Kindly note the following extractions from the Construction Regulations:

*“Every contractor shall ensure that a health and safety file, which shall include all documentation required in terms of the provisions of the Act and the Regulations, is opened and kept on site and*



*made available to an inspector, client, client's agent or principle contractor upon request. [CR 5(7)]*

*A Principal Contractor shall hand over a consolidated health and safety file to the client upon completion of the construction work and shall, in addition to the documentation referred to in sub regulation (7) [above], include a record of all drawings, designs, materials used and other similar information concerning the completed structure. [CR 5(8)]*

*A Principal Contractor shall ensure that in addition to the documentation required in the health and safety file as determined in the two sub regulations above, a comprehensive and updated list of all the contractors on site accountable to the Principal Contractor, the agreements between the parties and the type of work being done are included and available. [CR 5(9)]”*



The information, documentation and lists required to be included in the Health and Safety File as contemplated in the Construction Regulations [CR 5(7)], shall be suitably and sufficiently documented in terms of the following items listed below to ensure compliance with the Act as far as is reasonably practicable.

**Note: In the event that any of the items listed below may not have reference to the planning, implementation and completion of the work to be done pertaining to the project on the construction site, it must clearly be indicated as such with a proper statement e.g. ‘Not Applicable’. All other relevant references or items below shall relate to the information required as contemplated in the Act and Regulations.**

**IMPORTANT - This Health and Safety File shall be regarded as the property of the Client as it has to be consolidated and handed over to the Client upon completion of the project. The Principal Contractor shall ensure that this file is adequately protected against any form of damage, abuse or fraud.**

***Registers as follows:***

- \* Accident/Incident Register (Annexure 1 of the General Administrative Regulations)
- \* H&S Representatives (‘SHE - Reps’) Inspection Register
- \* Arc & Gas Welding & Flame Cutting Equipment Inspections
- \* Inspection of Cranes
- \* Inspection of Ladders
- \* Inspection of Vessels under Pressure plus all other excluded under VUP regulations

\* Fire fighting equipment

The H&S Representatives (SHE-Reps) will be required to submit the abovementioned registers as well as other legally required registers, also from the list below, on a monthly basis to the chairman of the H&S committee for submission to, and endorsement by the H&S Committee. Also refer to the suggested Agenda for the H&S Committee under 12.8.3

***Documents as follows:***

Copy of OH&S Act (updated) (General Administrative Regulation 4.)  
Proof of Registration and good standing with a COID Insurer (Construction Regulation 4(1)(g)  
Appointments – in terms of the Construction Regulations \* [See references Page 4]  
Notification of Construction Work – Annexure 1 [CR 3]  
H&S Specifications [CR 4]  
H&S Plan – Principal Contractor, Contractor & Sub-contractors [CR 5(1) & (4)]  
Proof of Periodic Audits [CR 4, 5 & 6]  
List of all Contractors (accountable to Principal Contractor) on site [CR 5(9)]  
Contractor Agreements [CR 5(9)]  
Type of work done on site [CR 5(9)]  
Records of drawings, designs, materials used and similar information concerning the completed structure [CR 5(8)]  
Input by Construction Safety Officer [CR 6(7)]  
Risk Assessment [CR 7(1)]  
Copy of Risk Assessment [CR 7(2)]  
Proof of H&S Induction Training [CR 7(4) & (7) & (9)(b)]  
Proof of training on Hazards and Work Related Procedures [CR (7)(4)]  
Fall Protection Plan [CR 8]  
Designer notice to contractor of dangers and hazards relating to construction work [CR 9(2)(b)]  
Drawings design of structure [CR 9(3)]  
Records of Inspections of Structure [CR 9(4)]  
Maintenance records – structure safety [CR 9(5)]  
Record Excavation Inspection [CR 11(3)(h)]  
Method Statement [CR 11(3)(k)]  
Method Statement [CR 12(2)]  
Method Statement [CR 12(11)]  
Operational Compliance Plan [CR 15(2)(c)]  
Certificates, design calculations, sketches and test results [CR 15(3)]  
Examination results [CR 15(9)]

Suspended Platform Inspection and Performance Test records [CR 15(11)]  
Medical Certificate of Fitness [CR 15(12)(b)]  
Proof of Training [CR 15(12)(c)]  
Material Hoist Inspections [CR17(8)(c)]  
Maintenance Records Material hoist [CR17(8)(d)]  
Record Batch Plant Maintenance & Repair [CR18(9)]  
Register for control of cartridges/nails studs – explosive powered tools [CR19(2)(g)(ii)]  
Medical Certificates of Fitness [CR 20(g)]  
Medical Certificates of Fitness [CR 21(1)(d)(ii)]

Findings of daily inspections Construction Vehicles & Mobile Plant [CR21(1)(j)]  
Record of Temporary Electrical Installation Inspections [CR22(d)]  
Record of Electrical Machinery Inspections [CR22(d)]  
Proof of Training [CR 27(i)]  
Evacuation Plan [CR 27(1)]  
H&S Rep & Committee Members details  
H&S Committee Meetings' Minutes  
Other appointments in terms of OHASA

***The following further identified requirements in terms of the Act and other Regulations of the Act are similarly applicable as part of the contents of the 'Health and Safety File':***

Details of Inspections (by DoL)  
Recording and Investigation of Incidents – Annexure 1 [GAR 9(1-3)]  
Action taken on all incidents [GAR 9(4)]  
Certificates of Competency in First Aid [GSR 3(4)]  
Record of Medical Surveillance required in terms of OHASA  
Proof of compliance with Asbestos Regulation requirements  
Proof of compliance with Major Hazard Installation requirements

***\*The Appointments to be made in writing with job descriptions as per the Construction Regulations may include some or all of the following:***

PRINCIPAL CONTRACTORS - [CR 4(1)(c)]

CONTRACTORS – [CR 5(3)(b) + (11)]

COMPETENT PERSONS - [CR 6(1) + (2)]  
- [CR 6(6)]  
- [CR 7(1) + (4)]  
- [CR 8(1)(a)]  
- [CR 10(a) + (e) + (f)]  
- [CR 11(1) + (3)(b)(ii)(b) + (3)(k)]  
- [CR 12(1) + (2) + (3) + (11)]  
- [CR 14(2)]  
- [CR 15(1) + (2)(c) + (8)(c) + (13)]

- [CR 17(8)(a)]
- [CR 18(1) + (7)]
- [CR 19(2)(b) + (2)(g)(i)]
- [CR 20(f)]
- [CR 21(1)(d)(i) + (1)(j)]
- [CR 22(d) + (e)]
- [CR 26(a)]
- [CR 27(h)]

CONSTRUCTION SAFETY OFFICER - [CR 6(6)]

DESIGNER - [CR 9(2)]



**IMPORTANT:**

A copy of the following certification in terms of the **“SAFETY AND SWITCHING PROCEDURES FOR ELECTRICAL INSTALLATIONS”** (Document attached) signed by the prospective tenderer / contractor is to be included in the Health and Safety File:

**“ I hereby certify that I have taken cognisance of the content of the document titled ‘SAFETY AND SWITCHING PROCEDURES FOR ELECTRICAL INSTALLATIONS’, and have included the relevant elements of the document applicable to the above project in my Health and Safety Plan and shall ensure adherence and compliance to the requirements thereof.”**

**NATIONAL DEPARTMENT OF  
PUBLIC WORKS**

**SAFETY AND SWITCHING  
PROCEDURES**

**FOR**

**ELECTRICAL INSTALLATIONS**

**JANUARY 2003**

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## **1 REGULATIONS AND DEFINITION OF COMPETENT PERSON:**

### **1.1 REGULATIONS:**

All persons who carry out or arrange for work of any description for the Department in connection with electrical apparatus shall make themselves acquainted with the Occupational Health and Safety Act (Act 85 1993) with particular reference to the Electrical Machinery Regulations, Regulations 1 to 23 inclusive.

Access to the above Act and its Regulations can be arranged with the Regional Manager.

### **1.2 DEFINITION OF COMPETENT PERSON:**

"competent person" in relation to machinery, means any person who—

- (a) has served an apprenticeship in an engineering trade which included the operation and maintenance of machinery, or has had at least five years' practical experience in the operation and maintenance of machinery, and who during or subsequent to such apprenticeship or period of practical experience, as the case may be, has had not less than one year's experience in the operation and maintenance appropriate to the class of machinery he is required to supervise;
- (b) has obtained an engineering diploma in either the mechanical or electrotechnical (heavy current) fields with an academic qualification of at least T3 or N5, or of an equivalent level, and who subsequent to achieving such qualification has had not less than two years' practical experience in the operation and maintenance appropriate to the class of machinery he is required to supervise;
- (c) is a graduate engineer and has had not less than two years' post-graduate practical experience in the operation and maintenance appropriate to the class of machinery he is required to supervise and who has passed the examination on the Act and the regulations made there-under, held by the Commission of Examiners in terms of regulations E5 (2) of the regulations published under Government Notice R.929 of 28 June 1963; or
- (d) is a certificated engineer;

## **2 SAFETY EQUIPMENT**

The following equipment required for working on electrical installations and distribution systems, must be maintained in good order and repair and must be made available:-

Safety belt, overalls, hard hat, safety shoes or boots, rubber gloves, "Men Working" notice boards, locks for locking off switches, buss bar shutters in truck-type switchgear, isolators or earthing links, rubber sheet and length of rope with short circuiting earthing-chains, earthing sticks and testing/phasing sticks rated for the voltage of the equipment to be tested.

Under no circumstances shall work be carried out on electrical apparatus unless the proper safety equipment is used

With regard to overhead linesmen, no work shall be carried out unless use is made of a non-metallic ladder and the appropriate safety belt, rubber gloves, overalls, hardhat and safety shoes or boots are worn. The buddy system must also be implemented.

## **3 DEFINITION OF OPERATING TERMS**

### **3.1 Alive or live**

This means electrically connected to the power system and/or electrically charged.



Consider an isolated overhead line that is not earthed. An overhead line can be electrically connected to the system in the following ways:

- (a) By means of a metallic conductor such as links and breakers or switches. This is the normal way of transmitting electrical energy.
- (b) Electromagnetic induction or transformer action from a nearby current carrying line will induce a dangerous voltage in the isolated lines and are a hazard to all personnel that must work on or with the line.
- (c) Electrostatic induction or condenser action from a nearby live line will induce a dangerous voltage in any isolated, but not earthed, overhead line. Electrically charged means at a potential difference or voltage above zero

### 3.2 Dead

This means that any apparatus so described is isolated from the power system. Rotating plant shall not be regarded as dead until it is stationary or is being slowly rotated by means of barring gear and is not excited.

The Occupational Health and Safety Act defines dead as: "dead" means at or about zero potential and isolated from any live system. Disconnected has the same meaning as isolated. An overhead line disconnected from all sources of supply but not earthed, cannot be regarded as dead because:

- (a) It can retain a static charge.
- (b) It can acquire a static charge due to atmospheric conditions.
- (c) It can accidentally be made alive.
- (d) Nearby lines continually induce voltage in them.

The regulations recognise only the following devices as disconnects or isolators:-

- (a) Links.
- (b) Fuses.
- (c) Truck type switchgear.

### 3.3 Earthing

This means the connecting of apparatus electrically to the general mass of earth in such a manner as will ensure at all times an immediate safe discharge of electrical energy. This is done through an earth bar or spike by means of a good metallic conductor.

To fully appreciate this definition we must refer to the Electrical Machinery Regulations, Regulation 3 of the Occupational Health and Safety Act which states:

"Work on Disconnected Electrical Machinery. —Without derogating from any specific duty imposed on employers or users of machinery by the Act, the employer or user shall, whenever work is to be carried out on any electrical machinery which has been disconnected from all sources of electrical energy but which is liable to acquire or to retain an electrical charge, as far as is practicable, cause precautions to be taken by earthing or other means to discharge the electrical energy to earth from such electrical machinery or any adjacent electrical machinery if there is danger if there is danger therefrom before it is handled and to prevent any electrical machinery from being charged or made live while persons are working thereon."

Electrical apparatus and in particular overhead lines may become charged due to:-

- (a) Direct lightning strokes.
- (b) Electro magnetically induced currents due to a lightning stroke in the immediate vicinity of the line.

- (c) Electro statically induced charges on the lines due to the presence of thunderclouds.
- (d) Electrostatic charges imparted to the line by the friction of dust or snow blowing past the conductors.
- (e) Electrostatic charges imparted to the line due to changes in line altitude"

These changes are responsible for tremendously high voltages between overhead lines and earth, in fact, sometimes high enough to cause a flash over on insulators. A spark may span several centimetres of air to a person's hand should he approach too closely to an isolated unearthed overhead line.

An overhead line or apparatus can be made alive by:

- (a) Unauthorised operating, i.e., closing the wrong links and breaker.
- (b) Faulty wiring on consumer's stand-by sets. (Back feed from consumer)
- (c) A broken overhead conductor from a different line falling onto the isolated line.
- (d) Synchronising plugs.

From the foregoing paragraphs it is clear that the purpose of earthing isolated lines and apparatus are:

- (a) To discharge them should there be a residual voltage or charge.
- (b) To prevent them acquiring a static charge.
- (c) To prevent danger to persons working on apparatus in the event of someone accidentally making it alive.
- (d) To dissipate induced voltages continuously and safely.

Earthing gear means the fixed or portable appliances used for earthing electrical apparatus. The dangers from inadequate or improper earth connections are:

- (a) Electrocution.
- (b) Burns from arcing.
- (c) Electric shock leading to falls.

Earthing may be done by the closing of earthing links, or by the attaching of fixed earthing devices or by the affixing of portable earthing straps. In each case the main idea is to ensure the safety of personnel.

In affixing portable earth straps, the connection to the earthbar or earthed metal or spike must be made first and in removing such earthing straps, the disconnecting from the earthbar or earthed metal or spike must be done last. Also, a link stick or an insulated stick should be used to connect the earth wires to the overhead lines or apparatus.

These requirements are most important because connecting the portable strap first to earth and then to the conductors by means of a link stick avoids the risk of a shock to the operator from static charges or induced voltages.

**REMEMBER: Always safety test before applying earths.**

### 3.4 Isolate

This means to disconnect from all Sources of electrical potential by means of opening of links or fuses or the withdrawal of truck-type circuit-breakers.

All sources of electrical potential mean all points or circuits from where the apparatus can be made alive. Links, fuses and truck-type switchgear can be regarded as isolators because:

- (a) They leave a visible air gap in a circuit when open, removed or withdrawn.
- (b) They contain no stored energy and will not close due to defects.
- (c) They can be locked in a physical condition and thus can only be operated by the person with the correct key.

Opening links and locking them in the open position; removing fuses and locking them away; withdrawing truck-type switchgear and locking the buss bar shutters are the only safe methods of isolating.

### 3.5 Circuit Breaker

This is a device designed to make or break electric current under normal and fault conditions. A breaker can make or break an electric current because it is designed to extinguish the arc very rapidly and effectively. It is also designed to withstand the tremendous forces under short circuit conditions. The arc-extinguishing medium for high-voltage breakers is normally air, oil or vacuum and should this medium be lost, the breaker becomes a link. Never use a breaker without an arc-extinguishing medium to interrupt current flow because the breaker will probably explode or it will sustain severe damage.

A fault condition is any condition that will cause an excessive amount of current flow. The normal fault conditions are:

- (a) Phase faults.
- (b) Earth faults.
- (c) Open circuit in one line of a three-phase system (Single-phasing).
- (d) Too low a voltage. (Motors will draw a large current or even stall).
- (e) Too high a voltage.
- (f) Overloading.

For the following reasons breakers cannot be regarded as isolators:

- (a) They leave no visible gap in a circuit.
- (b) They contain stored energy and can close on their own due to various defects.
- (c) It is normally not possible to lock them in an open position.
- (d) Oil circuit-breakers are subjected to carbon tracking which could cause a flash-over between contacts.

### 3.6 Link

This is a device for making or breaking a circuit when no load current is flowing.

Links differ from breakers and switches in the following respects:

- (a) They are not equipped with an arc extinguishing medium/device.
- (b) Their movement is very slow.

Should current be interrupted by means of links, an uncontrollable arc will be struck at the points where the contacts part.

The temperature of the arc is so high (+ 2 000°C) that it will simply melt the parting contacts. As the contacts move further apart, the arc will lengthen and burn everything away. Molten metal could splash onto the operator and cause severe injuries.

As the arc lengthens, considerable noise is generated and the light intensity is so severe that the operator could suffer from "welding flash" of the eyes.

When apparatus equipped with earthing links is required to be earthed at more than one place, the earthing links shall always be closed first and thereafter, any necessary portable earthing gear may be affixed to the apparatus.

In removing the earths in readiness for making the apparatus alive, all portable earthing gear shall first be removed and earthing links shall be opened last.

Closing the earthing links first ensures maximum safety to the operator. These links are easily operated, make good contact and the operating handles are at a safe distance from the contact points.

Locks and keys shall also be provided for links. The operating mechanism of all manually operated links shall be fitted with fastenings for locks. The operating mechanisms of each set of manually operated links shall normally be locked whether the links are in the open or in the closed position.

The locking of links provides a safeguard against their being opened or closed in error by other persons apart from the one with the correct key and a written instruction to operate.

### 3.7 Operating methods

This means switching, linking, safety testing and earthing. This definition also indicates the order of operating when making apparatus safe to work on.

(a) Switching -

- (i) Open breaker or switch to interrupt current flow safely, i.e. prevent arcs.
- (ii) Close breaker or switch to start current flow - the only safe way.

(b) Linking - open at least one set of links from where the apparatus can be made alive and lock the links in the open position. Always ensure that you are not going to start or interrupt current flow with the links by ensuring that the breaker or switch is open.

(c) Safety test - test all three phases to ensure that the apparatus is disconnected from all sources of supply and that there is no back-feed from a consumer's standby set or other source.

(d) Apply earths - ensure safety of the workers by:-

- (i) Discharging the line or apparatus.
- (ii) Preventing the line from acquiring a static charge.
- (iii) Preventing the line or apparatus from being accidentally made alive.

Before applying portable earths, ensure that they are mechanically and electrically in good condition. There should be no broken strands, the clamps should be rigid and without defect and when applied properly, should make intimate contact with the conductors and earthbar or spike. The earthing cable tails should be as short as possible. The current carrying capacity of the portable earth is greatly reduced by broken strands. It will act as a fuse and increase the danger to workmen.

## 4 GENERAL SAFETY PRECAUTIONS

**No person shall carry out work of any description (including maintenance, repairs, cleaning and testing) on any part of electrical apparatus unless such parts of the apparatus are:**

- (a) dead;
- (b) disconnected, isolated and all practicable steps taken to lock off from live conductors;
- (c) efficiently connected to earth with the appropriate earthing sticks or gear designed for this purpose at all points of disconnection of supply;
- (d) screened where necessary to prevent danger, and caution and danger notices fixed;

and unless such person is fully conversant with the nature and extent of the work to be done.

It is the duty of the competent person in charge of the work to ensure that the foregoing provisions are complied with. He shall also ensure that when the work has been completed, the apparatus is safe to be made alive and that all earths and temporary danger notices have been removed.

Provided that cleaning and painting of earthed metal enclosures, connections or disconnections of circuits to or from live systems may be carried out in accordance with instructions issued by the competent person concerned.

Provided also that where the design of the apparatus precludes the strict compliance with all details of these precautions, the work shall be carried out to the instructions of the senior competent person present.

When any person receives instructions: regarding work on or the operation of high voltage apparatus he shall report any objection to the carrying out of such instructions to the competent person who shall have the matter investigated and, if necessary, referred to higher authority.

## **5 ACCESS TO HIGH VOLTAGE ENCLOSURES AND APPARATUS**

Enclosures, chambers, cubicles or cells containing high voltage conductors shall be kept locked and shall not be opened except by a competent person.

## **6 SWITCHING:**

(a) No switching shall be carried out without the sanction of the appropriate competent person except for agreed routine switching or in cases of emergency.

All telephone instructions/messages relating to the switching operation shall be written down and be repeated in full to the sender to ensure that the message has been accurately received.

(b) When a switch shows any sign of distress after operating, its condition shall be immediately reported to the appropriate competent person, and it shall be examined before further operation.

(c) The examination of and necessary adjustments including inspection and/or changing of oil of any high voltage oil immersed circuit-breaker which has operated under fault conditions shall be carried out if possible before the circuit-breaker is re-closed, or at the earliest available opportunity thereafter.

## **7 WORK IN SUBSTATIONS AND SWITCHING STATIONS CONTAINING EXPOSED LIVE CONDUCTORS.**

### **7.1 Safety Clearances to Live Conductors:**

Unless the whole equipment is "dead", the section which is made dead for work to be carried out shall be defined by the use of barriers or roping such that the minimum clearance from the nearest exposed conductor to ground level or platform or access way shall be:-

Rated Voltage	Clearance
Up to 11 kV	3.0 m.
From 11kV to 33kV	3.4 m

The area at ground level shall be only that in which the work is to be carried out.

### **7.2 Insufficient Clearances**

If the above clearances are not sufficient to avoid danger, other suitable arrangements shall be made to provide the requisite degree of safety.

### 7.3 Ladders and Other Long Objects

Ladders and other long objects shall not be used without the permission of the senior authorised person in charge of the work and the movement and erection of such ladders shall be under his/her direct supervision at all times.

## **8 WORK ON METAL CLAD SWITCHGEAR SPOUTS:**

- (i) The section of bus bars on which work is to be carried out shall be made dead and isolated from all points of supply.
- (ii) The shutters of live spouts shall be locked closed.
- (iii) The busbars shall be earthed with approved earthing equipment if possible, at a panel other than that at which work is to be carried out. Temporary earths shall in any case be applied to all phases on the busbar at the point of work. These earths may then be removed one phase at a time for work to be carried out. Each phase earth shall be replaced before a second phase earth is removed.

For the earthing of metal clad switchgear, approved appliances only shall be used. The insertion of the hand or any other tool in contact spouts for this purpose is forbidden.

## **9 WORK ON TRANSFORMERS:**

When work is carried out on transformers, both the primary and secondary switches and isolators shall be opened. The transformer shall also be isolated from all common neutral earthing equipment from which it may become live. This does not require the disconnection of solidly earthed neutrals.

## **10 WORK ON CABLES, CONDUCTORS AND OVERHEAD LINES:**

### 10.1 Cables and Conductors

- (a) No person shall touch the insulation, which covers or supports any high voltage conductor unless the conductor is dead and earthed.
- (b) Before carrying out work involving cutting into a high voltage cable, the responsible person shall satisfy himself that the cable has been made dead, isolated and earthed where practicable and identified. In all cases of doubt, the cable shall be spiked in an approved manner.

### 10.2 Overhead Lines

- (a) All persons while at work on towers, poles and high structures or when working on live lines shall make proper use of their safety belts and safety equipment, and no man shall work alone at any tower or high structure, or on live equipment.
- (b) The senior authorised person in charge of the work shall satisfy himself that the line conductors are short circuited and earthed before work is commenced. When work has been completed, the responsible person shall ensure that all temporary earths have been removed and that the line is safe to be made alive.
- (c) When work is carried out on a high voltage line, earths shall be placed at the point or points where the work is being done in addition to the earths provided at the points of disconnection.
- (d) In the event of the near approach of a lightning storm, all work on overhead lines shall cease immediately and the authorised person in general charge of the work shall be informed.
- (e) For the safety of the public, strain insulators shall be placed in all stays on overhead lines.

## APPENDIX 1

### EMERGENCY FIRST AID, RESCUE AND RESUSCITATION IN THE CASE OF ELECTRIC SHOCK

#### 1. FIRST AID:

##### 1.1 Burns:

Treat with Vaseline to exclude air.

##### 1.2 Shock:

In addition to suffering from electric shock, it is also probable that the patient will be suffering from physical shock and important that this condition be treated.

The patient must be kept warm with blankets and/or coats, and if available, hot water bottles should be applied to the feet.

##### 1.3 Drinks:

Drinks must on no account be administered unless the patient is fully conscious.

Alcoholic drinks should not be administered unless recommended by a doctor.

#### 2. RESCUE

The procedure to rescue persons from contact with a live conductor cannot definitely be laid down for all cases. However, certain principles and methods are outlined which all persons working on electrical apparatus or assisting in such work should know.

#### 3. RELEASES FROM CONTACT WITH LIVE CONDUCTORS

##### 3.1 Low voltage

- (a) Observe quickly the general circumstances of the case, whether special difficulties are involved and if special precautions are necessary. Every second is precious and delay may be fatal; be prepared, therefore, to act promptly. Speed of action must be accompanied with due care.
- (b) Take precautions against receiving a shock your self. Remember that the patient, until released, is electrified at the same voltage of the live conductor.
- (c) In cases where the contact has been made on a live conductor with adjacent switch control, the switch should be opened immediately and then the patient pulled clear. If in doubt about which switch to open, all switches should be opened; but assume all conductors are still alive unless some method is available to determine that the conductors are dead.
- (d) When conductors cannot be de-energised immediately by adjacent switch control, the procedure will depend on the voltage of the live conductor.

In all cases it is necessary for the rescuer to be adequately insulated against shock from a conductor to earth and against shock from a conductor to conductor, or by touching the patient.

For low and medium voltage (up to 650 V) rubber gloves, rubber sheeting or dry cloth, including loose portions of the patients clothing, provide adequate insulation for the rescuer's hands. The use of such insulating guards should always be aimed for; but a dry pole with no associated earthed metal on it provides adequate insulation for the rescuer against shock from a conductor (or patient's body to earth).

- (e) Cutting away a conductor (carrying up to 650 V only) may provide a quick and easy method of release in some cases. It is useful especially when delay might otherwise occur in releasing the patient. This method requires that the rescuer has sound knowledge of what he/she is doing.
- (f) Prevention of patient falling from aloft; when a patient is being rescued above ground level, care must be taken to ensure that he does not fall from a dangerous height when pulled clear or when conductors are de-energised.
- (g) Be prepared to use considerable force when releasing a patient who is holding a live conductor. Punch the wrist heavily on the inner side or strike the back of the hand. It may be easier in some cases to use one's foot to force the patient's hand clear.

### 3.2 High voltage

For high voltage it is necessary to put an extra long, say 2 m or more, dry insulating material, such as wood or rope, between the rescuer's hands and the patient to enable the patient to be pushed or pulled clear of the conductor, or enable the conductor to be cleared from the patient.

## 4. RESUSCITATION AFTER CONTACT WITH LIVE CONDUCTORS

Immediately after rescue, a rapid but careful examination of the patient must be made to determine the extent of treatment necessary.

Electric shock may cause breathing to stop because of a sudden paralysis of the respiratory centre and it may also cause a failure of the circulation because the shock has affected the heart.

The method of resuscitation will therefore depend on the patient's condition.

### 4.1 Patient breathing

If the patient is breathing and his heart is beating then in a large majority of cases recovery will be rapid.

Do not apply artificial respiration if the patient is breathing. Let the patient have plenty of fresh air. If the patient is in a collapsed condition, lay him on his back in as comfortable a position as practicable with his head tilted slightly back. This will keep his airway open and assist breathing. A pad, if available, placed under the patient's shoulders will assist in keeping his head back. Loosen any tight clothing.

### 4.2 Patient not breathing

If breathing has stopped or is very weak or appears to be failing, commence artificial respiration without delay.

### 4.3 Circulation

In cases of electric shock, failure of the heart should be suspected if the patient does not quickly show some response to artificial respiration. Circulation should be assessed within fifteen seconds after the commencement of artificial respiration.

Feel for a pulse in one of the carotid arteries in the patient's neck. This is done with the pads of the fingers at the level of and at either side of the Adam's apple. Do not feel both carotid arteries at the same time, as this would stop the flow of blood to the brain. If the heart is beating, a pulse will be felt.

If no pulse is felt, lift the patient's eyelids. If the heart is not beating the pupils of the eyes will be large and will not become smaller when exposed to light by the lifting of the eyelids. If the heart is beating the pupils will become smaller when exposed to the light.

The absence of a pulse in the carotid artery and the enlarged pupil of the eye, which does not become smaller when exposed to light, indicate that the heart has stopped beating.



- (a) Patient's heart beating. Do not apply external cardiac (heart) massage when a pulse can be felt.
- (b) Patient's heart not beating. If the heart has stopped beating commence external cardiac (heart) massage without delay.

#### 4.4 General

Immediately resuscitation is commenced, send for medical assistance and an ambulance and notify the hospital if applicable.

If the patient is not breathing and his heart has stopped beating, artificial respiration by the expired air method should be carried out in conjunction with external cardiac (heart) massage.

Every second you wait can cause severe brain damage through lack of blood and oxygen.

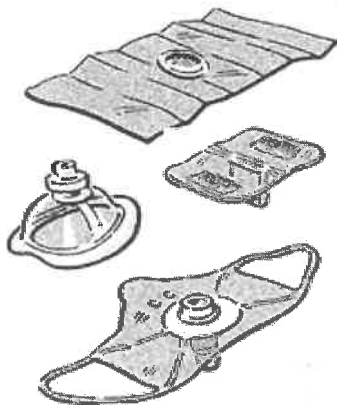
Artificial respiration and external cardiac (heart) massage must be commenced without delay and should be continued until breathing is restored and the heart starts beating or until a doctor advises that further efforts will be of no avail.

Care should be taken to avoid, as far as possible, aggravating any injuries the patient may have sustained.

#### 4.5 Artificial respiration

If available in order to reduce the risk of infection it is recommended that a facemask or shield be used for both mouth to mouth or mouth to nose artificial respiration. However, time should not be lost in getting a face mask/shield.

##### Examples of Masks



Alternatively a clean cotton handkerchief can be used to cover the mouth.

It is not necessary to be highly trained in resuscitation methods to carry out artificial respiration effectively.

Simply stated, artificial respiration is a means of supplying oxygen to the patient's lungs, and thus, through the blood, to his brain to keep him alive while his own breathing is suspended.

The expired air method of artificial respiration is recommended as the best universally applicable field type of artificial respiration.

For artificial respiration the patient's head must be kept well back to ensure a free passage to the lungs. Exact rhythm and timing in carrying out artificial respiration are unimportant. The only purpose of artificial respiration is to get oxygen into the patient's lungs.

Artificial respiration must be continued until breathing is restored or until a doctor advises that further efforts will be of no avail.

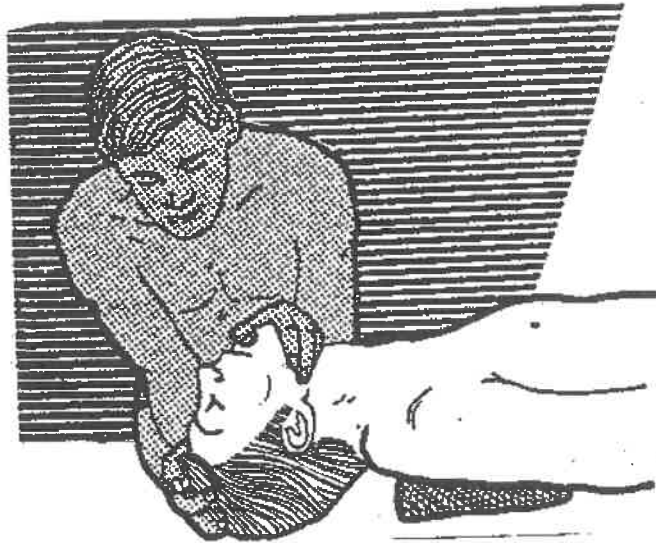
#### 4.5.1 Expired air artificial respiration

In the expired air method of artificial respiration the rescuer breathes his own exhaled breathe into the patient's lungs.

The normal air we breathe in contains 20 per cent oxygen. The air we exhale contains about 16 per cent oxygen and this is ample to keep the oxygen content in the patient's blood normal if it is breathed into him at about the rate of normal breathing.

Therefore, quickly ensure that the patient's throat is free from foreign matter. Next place him on his back and tilt the head well back (Fig.A1.1) this ensures an open passageway to the lungs. Placing a pad under the patient's shoulders will make the tilting of the head easier. However, time should not be lost in getting a pad.

The rescuer may then breathe into the patient's mouth or nose.

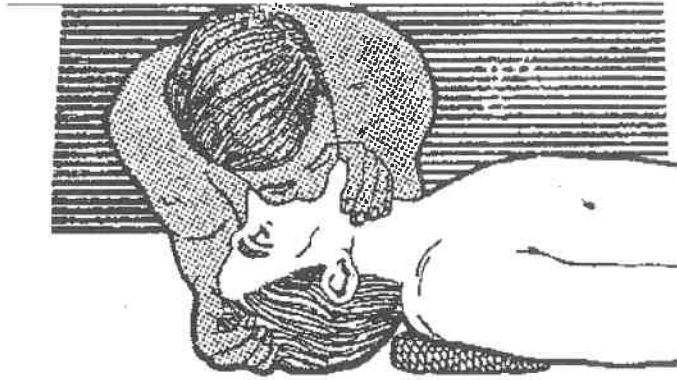


**Figure A1.1**

Lift the neck and tilt the head back. Hold the head tilted so that the skin over the throat is stretched tight. With one hand push the crown of the head down, remove the other from below the neck and use it to pull up the chin. This prevents the tongue from causing an obstruction.

#### 4.5.2 Mouth-to-mouth method

The patient's head is tilted well back as in Figure A1.1 his mouth is opened and the rescuer opens his mouth wide and makes an air-tight seal around the patient's mouth as shown in Figure A.1.2. The rescuer's cheeks will normally seal the patient's nostrils, but if necessary the nostrils must be pinched closed with the fingers. The rescuer then breathes into the patient. The resistance to the rescuer's breath is about the same as that experienced when blowing up a balloon. The chest should be seen to rise.



**Figure A1.2**

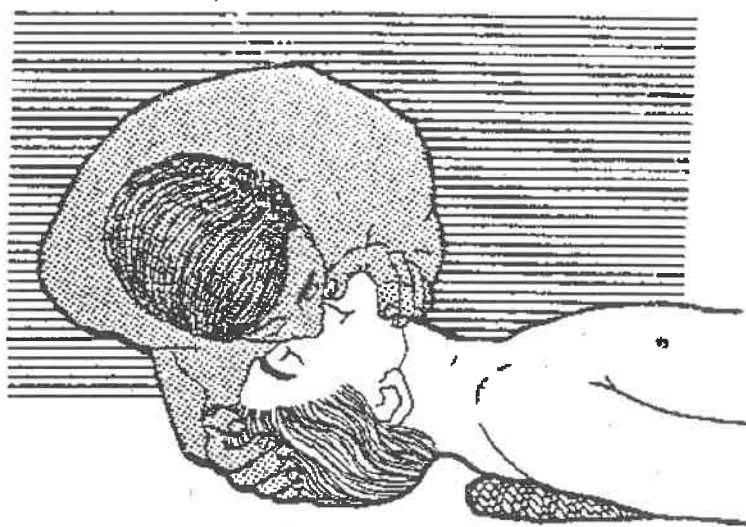
Seal your lips widely around the victim's mouth. Fold his lower lip down to keep his mouth open during inflation and exhalation. To prevent leakage, press your cheek against his nostrils during inflation. Blow air into the victim until you see the chest rise. Then remove your mouth to let him breathe out. Take your next breath as you listen to the sound of his breath escaping. Re-inflate his lungs as soon as he has exhaled.

Having breathed into the patient's lungs, the rescuer removes his mouth and, turning his face to one side to avoid the patient's exhaled breath, takes another deep breath and again breathe into the patient's lungs. This is kept up at a steady rate of from ten to fifteen times per minute.

One rescuer can take over from another. Remember rhythm and timing are not important but the patient must under no circumstances be left without air for longer than a minute.

4.5.3 Mouth-to-nose method:

The patient's head is tilted well back as in Figure A1.1. The rescuer opens his mouth and places it right over the patient's nose making an airtight contact (Figure A1.3) The lips do not contact the nostrils as this would tend to close them. The patient's mouth is held closed and the rescuer breathes into his patient as in the mouth-to-mouth method.



**Figure A1.3 ~ Mouth-to-nose method**

#### 4.5.4 Filling the lungs:

The rescuer blows steadily and firmly, not with a jerk, and the patient's chest should be seen to rise. If air does not appear to be entering the lungs, quickly look for any blockage in the air passage, check the head again, making sure the jaw is well forward and the head tilted well back, and commence blowing again.

About ten good quick breaths should first be breathed into the patient as soon as he is reached. This will oxygenate his blood and give the rescuer a minute or so to get his patient into a more convenient location for continuing artificial respiration, for example, to lower a linesman from a pole.

## 5. EXTERNAL CARDIAC (HEART) MASSAGE

The lives of people whose hearts have ceased to function can often be saved by the prompt application of a form of resuscitation known as external cardiac (heart) massage (for example, massage of the heart without opening the chest). This massage may be performed by anyone.

The heart is in the centre of the chest between the breast-bone and the spine and if pressure is applied to the lower half of the breast-bone, the heart is compressed and the blood is squeezed out of it into the arteries. When the pressure is released the breast-bone springs back into place, the heart, like a rubber ball, resumes its shape and in so doing allows blood from the veins to enter. Valves in the heart prevent blood flowing back into the heart from the arteries.

In this way a heart which has either stopped beating altogether or which has gone into ventricular fibrillation (a state of ineffective quivering often caused by electric shock) can be made to circulate the blood.

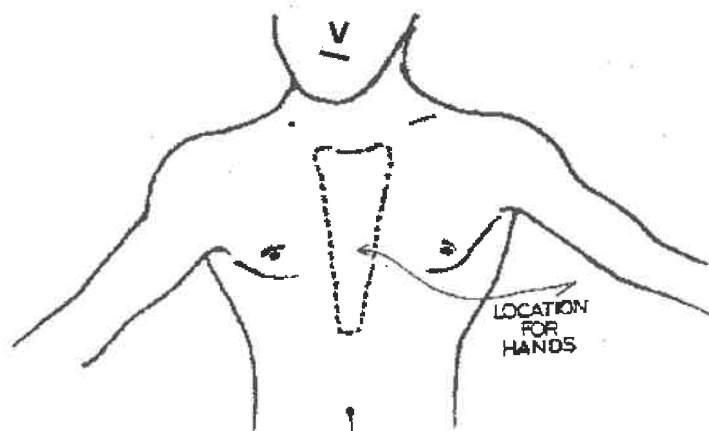
This compressing and releasing of pressure on the heart carried out rhythmically at a rate of approximately 60 compressions per minute is called external cardiac (heart) massage. It can keep a person alive if breathing is maintained, until his heart resumes its proper beating. A heart in ventricular fibrillation will require hospital treatment to restore normal heartbeat, but the heart can be made to circulate blood by external cardiac (heart) massage until the necessary medical aid is obtained.

It is desirable that adequate training in external cardiac (heart) massage be given to develop the technique. This can best be achieved with a training aid.

### 5.1 Technique:

Lay the patient on his back on a firm surface.

Feel for the notch at the top of the breast-bone (sternum) with one hand and for the lower end with the other. It is on the lower half of this bone that the pressure has to be made (see Figure A1.4)



**Fig A1.4: Location of the rescuers hands for external cardiac (heart) massage.**

The rescuer leans directly over the patient and places the heel of one hand (either hand) on the lower half of the patient's breast-bone and places the heel of his other hand on the back of the first (one hand for a child' two fingers for an infant). The fingers should not press on the patient's chest as this would reduce the effectiveness of the pressure on the heels of the hands.

Keeping the arms straight, the rescuer presses down sharply and firmly to depress the patient's breast-bone from 30 to 50 mm in the case of an adult, depending on his build. Immediately release the pressure to allow the chest wall to recoil. If the technique is correctly applied it will not damage the patient's ribs.

If the patient is not breathing, external cardiac (heart) massage will be of no avail unless artificial respiration (expired air method) is carried out at the same time.

If only one rescuer is available, two breaths are given by the expired air method followed by fifteen chest compressions at the rate of approximately one per second.

Where two rescuers are available, one breathes into the patient and the other gives five chest compressions between each chest inflation. The rescuer giving the breaths should also feel for the pulse in the patient's carotid artery during resuscitation.

The chest should not, of course, be compressed at the same time as it is being inflated.

## APPENDIX II

### **TESTING PROCEDURES AND PRECAUTIONS FOR COMMISSIONING OF ELECTRICAL CABLES**

The aim of this section is to create an awareness of the latest standards and testing procedures for the commissioning of new and the re-commissioning of repaired electrical cables.

Before commissioning or re-commissioning cables tests must be carried out to ensure the integrity of the cable/s and to ensure the safety of operating personnel.

#### 1. Low voltage Cables

##### 1.1 Initial Tests

Carry out a meter test to ensure that the insulation resistance complies with the manufacture's and the relevant SABS requirements. For L.V. cables a 500V d.c. meter is adequate for this purpose.

##### 1.2 Voltage Tests

This covers extruded solid dielectric cables (covered by SABS 1507), voltage ranges are as indicated in Table 1

After installation the cable has to be tested to ensure the integrity of the cable and the quality of the work. A.C. testing of solid dielectric cables is preferred. Very low frequency high voltage sinusoidal electrical testing methods are recommended to avoid the use of cumbersome large testing equipment.

Method: The test voltage should be applied between conductors and between each conductor and the metallic protection or earthed surroundings of the cable as appropriate. The voltage to be raised gradually to the specified values in the table and maintained for 15 minutes.

Table1 -Test Voltages After Installation

1	2	3	4
Cable operating voltage	The test voltage is to be applied	Test Voltage V	
		a.c. (r.m.s)	d.c.
300/500	Between Conductors and conductors/earth	)	)
600/1000	Between Conductors and conductors/earth	)	)
1900/3300	Between conductors	)	)
1900/3300	Between Conductors and conductors/earth	)	)

#### 2. Medium/High Voltage

Each section of the cable installation between substations shall be subjected to a preliminary voltage or insulation resistance test to prove the insulation resistance.

The installation resistance can be measured with a high voltage meter with a rating of 5000V.

##### 2.1 Paper Insulated Lead covered Double Steel Tape or Wire Armoured Cable (covered by SABS 97), voltage ranges are as indicated in Table 2

The test voltage should be applied between conductors and between each conductor and the metal sheath, which should be held at earth potential. In each case, the voltage should be increased steadily to the stipulated value and maintained at this value for 15 minutes.

Table 2 in-situ test voltages.

1	2	3	4	5	6	7
Age Rating of Cable kV	Test Voltage					
	Belted Cables				Sheath-core and screened cables	
	Between conductors		From conductor to sheath		Between conductor and sheath or screen	
	a.c.	d.c.	a.c.	d.c.	a.c.	d.c.
3.3/3.3	7	9	7	9	-	-
3.8/6.6	13	19	8	11	8	11
6.6/6.6	13	19	13	19	-	-
6.35/11	22	31	13	19	13	19
11/11	22	31	22	31	-	-
12.7/22	-	-	-	-	25	36
19/33	-	-	-	-	38	54

## 2.2 XLPE-Insulated Cables covered by SABS 0198 Part 13.

**NOTE:** If circumstances necessitate testing that is not in accordance with the recommendations of this section, the cable manufacturer or a test expert should be consulted before any testing is carried out.

The use of inappropriate or excessive test voltages or of unsuitable fault location methods can damage XLPE-insulated cables. Cables that are particularly prone to damage during testing are those that have water trees and those that have a construction that differs from that specified in the 1981 and in subsequent editions of SABS 1339.

The Types of Test Waveforms to be applied are:

- Very low frequency (VLF): An Alternating waveform that is either sinusoidal or pseudo-square/cosine rectangular, of nominal frequency 0,1 Hz.
- Power frequency: An alternating sinusoidal waveform of frequency in the range 25 Hz to 100 Hz.
- Surge: A step waveform that has a rise time of a few microseconds and that gradually decays to zero within 5 s.

These waveforms are referred to in the various test tables below.

**Note:** Where the capacity of the test set permits, all three cores of a three-core cable may be tested together.

### 2.2.1 PRELIMINARY TESTS

2.2.1.1 Leakage Resistance. Before carrying out any testing or fault location, determine and accurately record the leakage resistance to earth and, if relevant, between conductors. Use an instrument that generates a d.c test voltage of not less than 250 V and not more than 5 kV. Typical minimum values of leakage resistance are given in Table 3.

TABLE 3—MINIMUM LEAKAGE RESISTANCE

1	2	3	4	5
Cable Operating voltage $U$ , kV	Minimum leakage resistance, $M\Omega$			
	Cable length, m			
	100	300	1 000	3 000
6,6	150	50	15	5
11	240	80	24	8
22	460	153	46	15
33	680	227	68	23

NOTE:

- 1 The value of leakage resistance multiplied by the cable length should not be less than  $(2 U + 2) M\Omega.km$ , where  $U$  is the voltage rating of the cable in kilovolt.
- 2 This test is repeated after the required sequence of tests (see 2.2.2.7).

2.2.2 TESTING

- 2.2.2.1 Over voltage Commissioning Tests. When newly installed cables are being commissioned, they should be tested at the test voltages given in Table 4, appropriate to the test waveforms and test durations given in columns 1 and 2 of the table.

TABLE 4—COMMISSIONING TEST VOLTAGES (r.m.s.)

1	2	3	4	5	6
Test waveform (see 2.2)	Duration, Min	Commissioning test voltage, kV			
		Cable Operating voltage, kV			
		6.6	11	22	33
VLF (0,1 Hz)	60	11	19	38	57
Power frequency	60	8	13	25	38

NOTE:

1. Test sets for the above are commercially available.
2. Where the above test levels cannot be achieved, a reduced voltage for an extended time may be negotiated.

- 2.2.2.2 Overvoltage Maintenance/Repair Tests. When cables are tested for maintenance or repair purposes, they should be tested at the test voltages given in Table 5, appropriate to the waveforms and test durations given in columns 1 and 2 of the table.

- 2.2.2.3 Surge Test Method (see Table 5). The surge test is intended to be a practical basic safety test. It can be used as a non-damaging means of identifying fairly serious existing or potential faults when power frequency or VLF equipment is not available. The test avoids the application of a continuous d.c. voltage (see 2.2.2.4), but it is not as conclusive or rigorous as the other methods.

**CAUTION:** During the surge test, a peak voltage of up to twice the test voltage can be generated in the cable.



Method. Charge the surge generator to the appropriate test voltage given in Table 5. Using single-shot mode, release a surge into the cable and then soft-discharge the cable (see 2.2.5.5) within 5 s. Repeat the procedure up to five times and then fully discharge the cable by solidly earthing it for at least 5 min.

TABLE 5—MAINTENANCE/REPAIRS TEST VOLTAGES (r.m.s.)

1	2	3	4	5	6
Test waveform (see 2.2)	Duration	Maintenance/repair test voltage, kV			
		Cable operating voltage, kV			
		6.6	11	22	33
VLF (0,1 Hz)	15 min	8	13	25	38
Power frequency	15 min	7	11	22	33
Surge test (see 2.2.1.3)	5 surges, max.	7	11	22	33

2.2.2.4 D.c. Over voltage Testing. D.c. over voltage testing is likely to cause irreversible damage to XLPE-insulated cable systems, particularly if the cables have water trees. It often fails to identify potentially hazardous conditions in the cable. If d.c. testing has to be carried out because no other test methods are available, the voltage and duration should be limited to the appropriate values given in Table 6, which are recommended for quick identification of gross faults only. Use a d.c. test set or a surge generator in d.c. mode to apply the test voltage. After applying the voltage, soft-discharge the cable (see 2.2.2.5), using either the d.c. test set or a discharge stick. Fully discharge the cable by solidly earthing it for at least 8 h but preferably for 24 h.

TABLE 6—D.C. TEST VOLTAGES

1	2	3	4	5
Duration, s	D.c. test voltage, kV			
	Cable operating voltage, kV			
	6.6	11	22	33
10	6	10	20	30

2.2.2.5 SOFT DISCHARGE OF CABLE. An XLPE-insulated cable should always be soft-discharged through a resistance of at least 200 kΩ, for example by using a discharge stick. Discharging a conductor direct to earth by short-circuiting it with a lead can severely damage the cable. After the initial discharge, a cable should be solidly earthed for at least 5 min. If the cable has been subjected to any form of d.c. test, it should be solidly earthed for at least 8 h, but preferably for 24 h.

2.2.2.6 CABLE SHEATH TESTING. To avoid problems caused by the ingress of water into the cable, a cable should be subjected to sheath testing:

- a) at commissioning,
- b) annually, and
- c) after the location and repair of a fault.

Cable sheath testing can also be used to locate conductor earth faults that have punctured the outer sheath, provided that multiple sheath faults are not present. A direct current sheath test voltage of 5 kV should be applied for 1 min, with a leakage current of 1 mA/km being regarded as acceptable.

2.2.2.7 **AFTER TESTING.** After completion of any of the above tests, the leakage test described in 2.2.1.1 should be repeated. A tenfold reduction in the value of leakage resistance could indicate a potential problem.

## 2.2.3 CIRCUIT-BREAKER CLOSURE

2.2.3.1 Faulty or Unknown Cable Conditions. Closing a circuit-breaker on an untested cable can be hazardous to the operator and can damage the cable. A fault should never be re-established by repeated closing of a circuit-breaker.

2.2.3.2 Voltage Doubling. During switch-in onto open circuit, voltage doubling occurs at the remote end of the cable. Voltages of up to 20 kV can occur on an 11 kV system. Switching onto a load such as a transformer avoids this voltage doubling.

Published: March 2003



**Department of Labour**

# **GUIDE GENERAL ADMINISTRATIVE REGULATIONS, 2003**

**Chief Directorate of Occupational Health and Safety**

*NO: OHC 5*

## **INTRODUCTION**

As the name of the regulation indicates, the General Administrative Regulations determines the administrative procedure of the Occupational Health and Safety Act. This procedure was not placed in the Act itself owing to the fact that changes can be made to a Regulation with greater ease than that of a Section in the Act. A change to a Section of the Act needs to be passed by parliament whereas the Minister of the relevant Department can approve a change in a Regulation.

The General Administrative Regulations, as is the case with all other regulations, is an extension of the Act and should therefore be seen as a complete unit.

Terms, which were previously defined in the Act, are not redefined in the Regulations. If a specific definition does not appear in the Regulations, then it should be available in Section 1 of the Act.

## **DEFINITIONS**

All new phrases as well as words (expressions and words which differ from the standard dictionary definitions) that are used in this regulation, which have not been defined in the Act, will be defined in this regulation. Where the Act or regulation refers to "mean" the definition in the Act or regulation must be considered and where there's reference made to "It Includes" definition from the Act and regulation including the oxford dictionary must be considered

## **ACCESS TO PREMISES**

It is prohibited for an employer to refuse an inspector entry to perform his or her function because an inspector is entitled by the law to enter employer's workplace.

Employers should always ensure that inspectors are accompanied by a person who has knowledge and experience of the activities and safety requirements of the workplace.

## **EXEMPTIONS**

Any exemption, which has been granted to any person shall be signed by the Chief Inspector of the Department of Labour. An person who wishes to apply for an exemption should forward his/her application to the office of the Chief Inspector in Pretoria. The application for exemption should indicate proof that the health and safety of persons who are likely to be affected by the exemption will not be prejudiced in consequences of it. Health and safety representatives and committees must be consulted during the whole process and given time to comment.

## **COPY OF THE ACT**

Employees together with employers have certain duties and rights, which have been assigned to them in terms of the Act. In order to comply with the provisions of the Act and regulations, each employee must have access to a copy of the Act. This regulation requires that—

- (a) Each employer with 5 or more employees shall have a copy of at least one Act, which will be made readily available for perusal by the employee. Owing in the fact that a workplace can be made up of a very large area, and that the legislator did not intend to be unreasonable, various concessions are made. For example, a meter-reader in the town of Brits' workplace is the Municipal area of Brits. In such a case it is expected that a copy of the Act be made available at the point where the employee reports for duty in the morning, or any other suitable position as agreed upon with the employer.
- (b) Each employer with less than 5 employees, shall, if requested provide a copy of the Act for perusal by the employees. This includes farm workers and domestic servants.

The copy of the Act may be an electronic reproduction or from a library. The Act and Regulations are amended from time to time, and it is therefore important to remember that one must obtain a copy of the latest amendments to keep up to date with the current legislation.

## **HEALTH AND SAFETY COMMITTEES**

The Health and Safety committees are made up of all the Health and Safety Representatives together with an equal amount of employer appointee representatives to represent the employer (there can be more than one committee to avoid a large congregation of representatives). If more than two committees are established, each health and safety representative must be member of at least one of the committees. These committees are the point around which self-regulation revolves.

Employer should provide necessary equipment, facilities and stationary required by the committee in order them to perform their functions.

It is important to keep the records of the meeting as they can be used as evidence for action taken to eliminate hazards and vice versa

## **NEGOTIATIONS AND CONSULTATIONS BEFORE DESIGNATION OF HEALTH AND SAFETY REPRESENTATIVES**

The regulation prescribe the items which must be agreed upon during negotiations between the employer and employees representatives. If a dispute arises between the employees and employers or his authorised representative, the matter should be referred for arbitration. Both parties shall submit a statement within a prescribed period to both the arbitrator and the other party concerned.

The statement is to contain the following information:

- (a) The proposal for the arrangements and procedures for the nomination of the Health and Safety Representatives.
- (b) The decision which is sought.

The arbitrator should then:

- (a) Determine when and where the arbitration procedure shall be held. The arbitration may be held in the absence of the party who failed to submit a statement to the arbitrator and other party;
- (b) Determine whether a pre-hearing conference shall be held;
- (c) Determine which arbitration procedures shall be followed;
- (d) Determine the procedures for the admission of evidence;
- (e) Determine the admissibility of hearsay evidence; and
- (f) Determine other relevant procedural matters.

In terms of Section 17(2) of the Act both parties are to come to a decision within 14 days as to who the arbitrator shall be. If no decision can be made, the president of the Labour Court is to be notified in writing. The president of the Labour Court in consultation with the Chief Inspector shall appoint an arbitrator, whose decision shall be final. This arbitrator will be entitled to receive remuneration as is payable to an additional member of the Labour Court.

## **DESIGNATION OF HEALTH AND SAFETY REPRESENTATIVES**

The employer must designate Health and Safety Representatives as follows:

- Shops and offices— one for up to 100 employees; and
- Workplaces other than shops and offices— one for up to 50 employees.

The employer shall ensure that employees designated as health and safety representatives meet the following requirements:

- Employed in a full-time capacity in the specific workplace or section thereof;
- Acquainted with conditions and activities at that workplace or section thereof, and
- Taking into account the nature of hazards associated with the activities of the workplace or section thereof, the employer shall provide as far as is reasonable practicable health and safety training to the health and safety representatives on how to identify health and safety risks and how to conduct inspections of the workplace or section thereof.

## REPORTING OF INCIDENTS AND OCCUPATIONAL DISEASES

Section 24 of the Act refers to certain incidents occurring at the workplace, or in connection with the use of machinery whereby a person dies or is injured to be extent where he is likely to die or could have resulted in a major incident. Such incidents should be reported to the Provincial Director on a WCL 1 or WCL 2 form within seven days.

Certain other types of incidents must be reported to the Provincial Director telephonically, facsimile or similar means of communication and these types of incidents are as follows—

- (a) Where a person, as a result of the incident;
  - i) Dies;
  - ii) Becomes unconscious;
  - iii) Suffers the loss of a limb or part thereof;
  - iv) Is injured to the extent that he is likely to die;
  - v) Is injured to the extent that he is likely to be permanently disabled;
  - vi) Is injured to the extent that he is likely to be off for a period of 14 days or more;
  - vii) Cannot perform his normal duties (those duties for which he was employed).
- (b) An incident of major consequence arising out of the use of industrial equipment or machinery or industrial practices at a workplace.
- (c) The health and safety of any person is endangered and where –
  - i) A dangerous substance was spilled;
  - ii) The uncontrolled release of any substance under pressure (pressure greater than 1 atmosphere) took place;
  - iii) Machinery or any part thereof fractured or failed, resulting in flying, falling or uncontrolled moving objects; or
  - iv) Machines, which ran out of control.

These incidents should also be recorded and investigated in accordance to Regulation 8 of the General Administrative Regulations.

If an injured person is to die as a result of an incident, which has already been reported in terms of the above, the employer or user should report such death to the Provincial Director.

Any registered medical practitioner should, in terms of Section 25 of the Act, report all (to the employer and Chief Inspector) cases of occupational diseases or any other disease, which he believes arose out of a person's employment, which he/she has treated. This must be done within 14 days in the form of a WCL 22 form.

Any other person may in writing, give notice of any disease suspected to be an occupational disease, to the employer and chief inspector.

## **RECORDING AND INVESTIGATION OF INCIDENTS**

The employer or user of machinery should keep record and investigate all incidents referred to in terms of Section 24 of the Act together with any other incident, which resulted in the person concerned having had to receive medical treatment other than first aid.

These incidents must be recorded in the form of Annexure 1 of these regulations and be kept for a period of at least 3 years. This record shall be kept on the premises and available for perusal by an inspector.

The employer, a designated person, a health and safety representative or a member of the health and safety committee must investigate the above-mentioned incidents. This investigation should take place within 7 days from the date of incident and completed as soon as is reasonable practicable or within the contracted period of contract workers. The employer should record the result of the investigation in the Annexure 1. The purpose of the investigation is to establish the cause of the incident together with the safety measures that can be implemented to prevent the re-occurrence of such incidents in the future.

The health and safety committee shall examine this record at their next meeting.

## **WITNESS AT AN INQUIRY**

The chief inspector can, in terms of Section 32, direct an inspector to hold a formal inquiry as a result of an incident reported in terms of Section 24 (refer to Regulation 6). In such an instance, the inspector shall inform the employer or user of machinery of his intentions, and request the following from him/her:

- a) That all persons witness to the incident; and
- b) That any other person as required by the inspector,

be notified in connection with the time, date and venue of the formal inquiry.

The employer or user of machinery is to establish which persons are likely not to attend the inquiry, and shall advise the inspector of the names and addresses of such persons to allow the inspector to subpoena such persons.

## **RETURNS**

An employer or user shall furnish the inspector with such information as requested for the purpose of the Administration of the Act.



# IMPORTANT CONTACT DETAILS

**(FOR HEALTH & SAFETY ASPECTS ONLY)**

The contractor is to add all the important contact information about essentials services, support and assistance.

	SERVICE	NUMBER	CONTACT PERSON
	Hospital		
	Ambulance		
	Water Electricity		
	Police		
	Fire Brigade		
	Engineer		

**ADD OTHER IMPORTANT HEALTH & SAFETY CONTACT DETAILS AS MAY BE FOUND NECESSARY.**

**REPUBLIC OF SOUTH AFRICA**  
**DEPARTMENT OF PUBLIC WORKS**  
**BILLS OF QUANTITIES**  
**FOR**  
**NTUZUMA SAPS:**  
**COMPLETION OF CCTV CONTROL ROOM**  
**WCS NO.: 046725**

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**PART 4: SITE INFORMATION**

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**QUANTITY SURVEYOR:**

EDGECOMBE & HAYES-HILL  
P O Box 25178  
Gateway  
4320

TEL: 031 566 2977

EMAIL: [ianhill@mitsol.co.za](mailto:ianhill@mitsol.co.za)

**ARCHITECT:**

DEPARTMENT OF PUBLIC WORKS  
DURBAN REGIONAL OFFICE  
Private Bag X54315  
Durban  
4000

TEL : 031 207 3131

EMAIL: [sumesh.govender@dpw.gov.za](mailto:sumesh.govender@dpw.gov.za)

**STRUCTURAL ENGINEERS:**

TGC ENGINEERS  
P.O. Box 446  
Pavilion  
3611

TEL: 031 265 1777

EMAIL: [tgc@tgcengineers.co.za](mailto:tgc@tgcengineers.co.za)

**CIVIL CONSULTING ENGINEERS:**

BVI CONSULTING ENGINEERS  
P.O.BOX 889  
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TEL: 031 266 8382

EMAIL: [dbn@bvikn.co.za](mailto:dbn@bvikn.co.za)

**ELECTRICAL ENGINEERS:**

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**DEPARTMENT OF PUBLIC WORKS**  
**DURBAN REGIONAL OFFICE**  
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Durban  
4000  
TEL: 031 314 7105

EMAIL: [nkosinathi.mchunu@dpw.gov.za](mailto:nkosinathi.mchunu@dpw.gov.za)

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**NOVEMBER 2022**

**REPUBLIC OF SOUTH AFRICA**  
**DEPARTMENT OF PUBLIC WORKS**  
**BILLS OF QUANTITIES**  
**FOR**  
**NTUZUMA SAPS:**  
**COMPLETION OF CCTV CONTROL ROOM**  
**WCS NO.: 046725**

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**C4: SITE INFORMATION**

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**QUANTITY SURVEYOR:**

EDGEcombe & HAYES-HILL  
P O Box 25178  
Gateway  
4320

TEL: 031 566 2977

EMAIL: [ianhill@mitsol.co.za](mailto:ianhill@mitsol.co.za)

**STRUCTURAL ENGINEERS:**

TGC ENGINEERS  
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**NOVEMBER 2022**

## PG-03.2 (EC) SITE INFORMATION – JBCC 2000 PRINCIPAL BUILDING AGREEMENT (edition 6.2 of March 2018)

<b>Project title:</b>	<i>Ntuzuma SAPS: Completion of CCTV Control Room (Contract 003)</i>		
<b>Tender no:</b>	<i>DBN22/11/02</i>	<b>Reference no:</b>	<i>6310/1220/26/1</i>

### C4 Site Information

#### 1. GENERAL

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

#### 2. SITE DESCRIPTION (Clause 42.2.2 [1.1])

Ntuzuma Police Station is situated at Intshintsha Drive, Ntuzuma C Section and is on Portion 1 of Erf 2132 Ntuzuma C.