



**CIDB DOCUMENT FOR
TENDER NO: GRDM/29/21-22**

CONSTRUCTION OF NEW FIRE STATION

ENQUIRIES: 54 YORK STREET GEORGE (044) 803 1330		GARDEN ROUTE DISTRICT MUNICIPALITY P.O. BOX 12 GEORGE 6530	
SUMMARY FOR TENDER OPENING PURPOSES			
NAME OF BIDDER:			
CENTRAL SUPPLIER DATABASE NO.: MAAA			
TOTAL PRICE (INCLUDING VAT)		R	
PREFERENCES CLAIMED FOR:			
B-BBEE Status Level of Contributor:			
Preference Points Claimed:			
B-BBEE certificates submitted with the tender document <u>MUST</u> be VALID ORIGINAL B-BBEE CERTIFICATES or VALID CERTIFIED COPIES OF THE B-BBEE CERTIFICATES			
TENDER CLOSES AT 11H00 ON 03 JUNE 2022			

For official use.
Signatures of SCM Officials at Tender Opening
1.
2.

BIDDER CONTACT DETAILS

This information shall be used for any correspondence or contact with the bidder.

Name of Bidding Company:	
Postal Address: Postal Code:
E-mail Address:
Telephone Number:
Cellular Number:
Facsimile Number:

GARDEN ROUTE DISTRICT MUNICIPALITY

TENDER NO. GRDM/29/21-22

CONSTRUCTION OF NEW FIRE STATION

GENERAL TENDER INFORMATION

TENDER ADVERTISED	: 28 April 2022
ESTIMATED CIDB CONTRACTOR GRADING DESIGNATION	: 6GB, 5 GBPE
COMPULSORY SITE VISIT/CLARIFICATION MEETING	: 12 May 2022
VENUE FOR SITE VISIT/CLARIFICATION MEETING	: Erf 22494 Steinhoff Industrial Park, George Co-ordinates: 33°59'45 S : 22°26'48 E
CLOSING DATE	: 03 JUNE 2022
CLOSING TIME	: 11:00 am
LOCATION OF TENDER BOX	: Tender Box at the Garden Route District Municipality Head Office, on the Ground Floor, at Reception, 54 York Street, George.

GARDEN ROUTE DISTRICT MUNICIPALITY

TENDER NUMBER: GRDM/29/21-22

CONSTRUCTION OF NEW FIRE STATION

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GARDEN ROUTE DISTRICT MUNICIPALITY

TENDER NUMBER: GRDM/29/21-22

CONSTRUCTION OF NEW FIRE STATION

The Tender (Part T)

PART T1 Tender Procedures

- T1.1 Tender Notice and Invitation to Tender
- T1.2 Tender Data

PART T2 Returnable Documents (All documents / schedules are returnable)

- T2.1 List of Returnable Schedules Required for Tender Evaluation
and Returnable Schedules
- T2.2 Other documents that will be incorporated into the contract
- T2.3 Returnable Schedules that will be incorporated in the contract

GARDEN ROUTE DISTRICT MUNICIPALITY

TENDER NUMBER: GRDM/29/21-22

CONSTRUCTION OF NEW FIRE STATION

Tender Notice and Invitation to Tender (T1.1)

Tenders are hereby invited for the:

TENDER: CONSTRUCTION OF NEW FIRE STATION

Completed tenders are to be submitted in a sealed envelope, clearly marked:

Tender No.: GRDM/29/21-22 and must be placed in the tender box at the Garden Route District Municipality Head Office, on the Ground Floor, at Reception, 54 York Street, George by no later than **11:00 on 03 June 2022**. Tenders are not allowed to be placed in the tender box after 11:00. Late or unmarked tenders will not be considered. No tenders per fax or e-mail will be accepted.

Bidders must be registered with the CIDB and it is estimated that bidders should have a CIDB contractor grading designation of 6GB, 5GB-PE or higher.

A compulsory briefing session will be held on **12 May** at Erf 22494, Tamsui Industria, George.

Non-attendance of the compulsory briefing session will disqualify your tender.

Paper copies of the Tender Documents are available at a non-refundable deposit of R350-00 each from the Garden Route District Municipality, Supply Chain Management Unit, Ground Floor, 54 York Street, George.

Tender documents are available on the Garden Route District Municipality's website: www.gardenroute.gov.za, free of charge.

Tenders will be evaluated and adjudicated in terms of the Preferential Procurement Policy Framework Act (Act 5 of 2000) Regulations 2017 and the Garden Route District Municipality's Supply Chain Management Policy, where 80 points will be scored for price and 20 points for B-BBEE status.

For more information, contact Ms. Deidre Raubenheimer (044) 803 1330

The Municipality reserves the right to withdraw any invitation to tender and/or to readvertise or to reject any tender or to accept a part of it. The Municipality is not bound to accept the lowest or any tender. A TCS PIN for bidders' tax compliance information must be submitted with the tender document. It will be required from the successful bidder to register on the Central Supplier Database (CSD).

**M STRATU
MUNICIPAL MANAGER
GARDEN ROUTE DISTRICT MUNICIPALITY
GEORGE
6530**

GARDEN ROUTE DISTRICT MUNICIPALITY**TENDER NUMBER: GRDM/29/21-22****CONSTRUCTION OF NEW FIRE STATION****Tender Data (T1.2)**

Clause number	<p>The conditions of tender are the Standard Conditions of Tender as contained in Annex F of Board Notice 136 of 2015 in Government Gazette No. 38960 of 10 July 2015, Construction Industry Development Board (CIDB) Standard for Uniformity in Construction Procurement (see www.cidb.org.za). The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the standard conditions of tender. Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies.</p> <p>The following variations, amendments and additions to the Standard Conditions of Tender as set out in the Tender Data below shall apply to this tender:</p>
F.1	General
F1.1.1	The Employer is the Garden Route District Municipality.
F1.1.2	<p>The parties agree that this tender and its acceptance shall also be subject to the terms and conditions contained in the Employer's Supply Chain Management Policy ('SCM Policy').</p> <p>Abuse of the supply chain management system is not permitted and may result in actions as set out in the SCM Policy.</p>
F.1.2	Tender Documents
	<p>The following documents form part of this tender:</p> <p><u>The Tender</u></p> <p>Part T1: Tender Procedures</p> <p>T1.1 Tender notice and invitation to tender</p> <p>T1.2 Tender data</p> <p>Part T2 Returnable Documents</p> <p>T2.1 List of returnable documents required for Tender Evaluation</p> <p>T2.2 Other documents required for tender evaluation purposes</p> <p>T2.3. Returnable schedules that will be incorporated in the contract</p> <p><u>The Contract</u></p> <p>Part C1: Agreement and contract data</p> <p>C1.1 Form of offer and acceptance</p> <p>C1.2 Contract data</p> <p>C1.3 Objections and Complainants form</p> <p>C1.4 Form of Performance Guarantee</p> <p>Part C2: Pricing data</p> <p>C2.1 Pricing instructions</p> <p>C2.2 Bills of Quantities</p>

	Part C3: Scope of Works Part C4: Site Information Part C5: Drawings Part C6: Annexures
F.1.4	Communication and employer's agent: The employer's agent is Name: Mr. Nelius Agenbag - Kantey & Templer Consulting Engineers Tel: (044) 874 2177 E-mail: neliusa@gr.kanteys.co.za
F.1.6.2	Competitive Negotiation Procedure A competitive negotiation procedure will not be followed.
F.1.6.3	Proposal procedure using the two-stage system A two-stage system will be followed.
F.1.6.4	Objections, complaints, queries and disputes / appeals in terms of Section 62 of the Systems Act / Access to court
F.1.6.4.1	Disputes, objections, complaints and queries In terms of Regulations 49 and 50 of the Local Government: Municipal Finance Management Act, 56 of 2003 – Municipal Supply Chain Management Regulations (Board Notice 868 of 2005): a) Persons aggrieved by decisions or actions taken by the Garden Route District Municipality in the implementation of its supply chain management system, may lodge within 14 days of the decision or action, a written objection or complaint or query or dispute against the decision or action.
F.1.6.4.2	Appeals a) In terms of Section 62 of the Local Government: Municipal Systems Act, 32 of 2000 a person whose rights are affected by a decision taken by the Garden Route District Municipality, may appeal against that decision by giving written notice of the appeal and reasons to the Garden Route District Municipality within 21 days of the date of the notification of the decision. b) An appeal must contain the following: i) Must be in writing ii) It must set out the reasons for the appeal iii) It must state in which way the Appellant's rights were affected by the decision iv) It must state the remedy sought; and v) It must be accompanied with a copy of the notification advising the person of the decision
F.1.6.4.3	Right to approach the courts and rights in terms of Promotion of Administrative Justice Act, 3 of 2000 and Promotion of Access to Information Act, 2 of 2000. The sub-clauses above do not influence any affected person's rights to approach the High Court at any time or its rights in terms of the Promotion of Administrative Justice Act and Promotion of Access to Information Act.
F.1.6.4.4	All requests referring to sub clauses F.1.6.4.1 and F.1.6.4.2 must be submitted in writing to: The Municipal Manager: Garden Route District Municipality, 54 York Street, George 6530 Via hand delivery at: Garden Route District Municipality, 54 York Street, George 6530

F.1.6.4.5	<p>All requests referring to clause F.1.6.4.3 regarding access to information or reasons must be submitted in writing to:</p> <p>The Municipal Manager: Garden Route District Municipality, 54 York Street, George 6530</p> <p>Via hand delivery at: Garden Route District Municipality, 54 York Street, George 6530</p>
F.2	Tenderer's obligations
F.2.1	Eligibility
F.2.1.1	<p>Only tenderers who satisfy the following criteria are eligible for financial and B-BBEE evaluation of tenders:</p> <ul style="list-style-type: none"> (a) Attendance of compulsory clarification meeting (b) Submission of all Returnable Documents (refer checklist Annexure F) (c) Achievement of minimum required points for Functionality Assessment (refer pg. 53 – 63)
F.2.1.4.1	Construction Industry Development Board (CIDB) Registration
	<p>Only those tenders submitted by tenderers who are registered, or are capable of being registered, with an active status with the CIDB prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25(1B) or 25(7A) of the Construction Industry Development Regulations, for a GB6 or GB-PE5 class of construction work, are eligible to have their tenders evaluated.</p> <p>Joint Ventures are eligible to submit tenders provided that:</p> <ul style="list-style-type: none"> (a) Every member of the Joint Venture is registered with an active status with the CIDB; (b) The lead partner must be registered in the relevant class of construction work; and (c) The combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a GB6 or GB-PE5 class of construction work of value determined in accordance with Regulation 25(1B) or 25(7A) of the Construction Industry Development Regulations.

F.2.1.4.3	Minimum score for functionality	
	<p>In order to be considered for a contract in terms of this tender, tenderers must achieve the minimum score for functionality as stated below.</p> <p>The description of the functionality criteria and the maximum possible score for each is shown in the table below. The score achieved for functionality will be the sum of the scores achieved, in the evaluation process, for the individual criteria.</p> <p>Refer to Functionality schedule 2.1.4 (Part T2.1) in Returnable Schedules required for Tender Evaluation. (Pg. 48 - 58)</p> <p>The minimum score for functionality is 70. Tenderers that fail to achieve the minimum score for functionality will be declared as non-responsive.</p> <p>Where the entity tendering is a Joint Venture the tender must be accompanied by a statement describing exactly what aspects of the work will be undertaken by each party to the joint venture (appended to Schedule 3, Part T2.2: Returnable Schedules).</p> <p>Tenderers shall ensure that the relevant information has been submitted with the tender offer in the prescribed format to ensure optimal scoring of functionality points for each Evaluation Criteria. Failure to provide all information IN THIS TENDER SUBMISSION could result in the tenderer not being able to achieve the specified minimum scoring.</p>	
F.2.1.4.6	Pre-qualification criteria for preferential procurement	
	Refer to Functionality Criterium, elsewhere included in this tender document.	
F.2.7	<p>The arrangements for the compulsory site visit/clarification meeting are as stated on the General Tender Information page.</p> <p>Tenderers should be represented at the site visit/clarification meeting by a person who is suitably qualified and experienced to comprehend the implications of the work involved.</p> <p>Allowance will be granted up to 20 minutes after the commencement of the clarification meeting for tenderers to arrive, after which attendance will not be recognized for tender qualification purposes.</p>	
	Date: Thursday, 12 May 2022 Starting time: 10H00	Location: Erf 22494, Tamsui Industria, George Co-ordinates: 33°59'45 S : 22°26'48 E

F.2.8	Seek Clarification
	<p>The tenderer warrants that it has:</p> <p>a) inspected the Specifications and read and fully understood the Conditions of Contract.</p> <p>b) read and fully understood the whole text of the Specifications and Price Schedule and thoroughly acquainted itself with the nature of the goods proposed and generally of all matters which may influence the Contract.</p> <p>c) visited the site(s) where delivery of the proposed works will take place, carefully examined existing conditions, the means of access to the site(s), the conditions under which the delivery is to be made, and acquainted itself with any limitations or restrictions that may be imposed by the Municipal or other Authorities in regard to access and transport of materials, plant and equipment to and from the site(s) and made the necessary provisions for any additional costs involved thereby.</p> <p>d) requested the Employer to clarify the requirements contained in the Specifications and Price Schedule, the exact meaning or interpretation of which is not clearly intelligible to the tenderer.</p> <p>e) received any notices to the tender documents which have been issued in accordance with the Employer's SCM Policy.</p> <p>The Employer will therefore not be liable for the payment of any extra costs resulting from any claim submitted by the tenderer arising from any alleged ambiguity or uncertainty contained in the tender document.</p>
F.2.12	No alternative Tender offer will be considered.
F.2.13.1	Submit one tender offer only, either as a single tendering entity or as a member in a joint venture to provide the whole of the works, services or supply identified in the contract data and described in the scope of works, unless stated otherwise in the tender data.

F.2.13.2	Return all returnable documents to the employer after completing them in their entirety in non-erasable black ink.
F.2.13.3	Submit the parts of the tender offer communicated on paper as an original plus the number of copies stated in the tender data, with an English translation of any documentation in a language other than English, and the parts communicated electronically in the same format as they were issued by the employer.
F.2.13.4	Sign the original and all copies of the tender offer where required in terms of the tender data. The employer will hold all authorized signatories liable on behalf of the tenderer. Signatories for tenderers proposing to contract as joint venture shall state which of the signatories is the lead partner whom the employer shall hold liable for the purpose of the tender offer.
F.2.13.5	<p>Seal the original and each copy of the tender offer as separate packages marking the packages as "ORIGINAL" and "COPY". Each package shall state on the outside the employer's address and identification details stated in the tender data, as well as the tenderer's name and contact address.</p> <p><u>The Employer's address for delivery of tender offers and identification details are:</u> Garden Route District Municipality, Head Office, 54 York Street, George (location of tender box). The identification details are: Tender number GRDM/29/21-22</p>
F.2.13.6	A two-envelope procurement will not be followed.
F.2.13.8	Accept that the employer will not assume any responsibility for the misplacement or premature opening of the tender offer if the outer package is not sealed and marked as stated.
F.2.13.9	Accept that tender offers submitted by facsimile or e-mail will be rejected by the employer, unless stated otherwise in the tender data.
F.2.13.10	By signing the offer part of C1.1 Form of Offer and Acceptance the tenderer declares that all information provided in the tender submission is true and correct.
F.2.15	Closing time
F.2.15.1	<p>Ensure that the employer received the tender offer at the address specified in the tender data not later than the closing time stated in the tender data. Accept that proof of posting shall not be accepted as proof of delivery.</p> <p>The closing time for submission of tender offers is at 11H00 on 03 June 2022.</p>
F.2.16	Tender offer validity
F.2.16.1	The Tender offer validity period is 120 days .

F.2.17	Clarification of tender offer after submission
	Provide clarification of a tender offer in response to a request to do so from the employer during the evaluation of tender offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the competitive position of tenderers or substance of the tender offer is sought, offered, or permitted.
F.2.18	Provide other material
F.2.18.1	Provide, on request by the employer, any other material that has a bearing on the tender offer, the tenderer's commercial position (including notarized joint venture agreements), referencing arrangements, or samples of materials, considered necessary by the employer for the purpose of a full and fair risk assessment. Should the tenderer not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in the employer's request, the employer may regard the tender offer as non-responsive.

F.2.18.4	Compliance with Occupational Health and Safety Act, 85 of 1993
	<p>Tenderers are to note the requirements of the Occupational Health and Safety Act, 85 of 1993 and the Construction Regulations, 2014 issued in terms of Section 43 of the Act. The Tenderer shall be deemed to have read and fully understood the requirements of the above Act and Regulations and to have allowed for all costs in compliance therewith.</p> <p>In this regard the Tenderer shall submit with his tender a draft Health and Safety Plan in respect of the Works in sufficient detail to demonstrate the necessary competencies and resources to perform the construction work all in accordance with the Act, Regulations and Health and Safety Specification in the Scope of Work.</p>
F.2.19	Inspections, tests and analysis
	Provide access during working hours to premises for inspections, tests and analysis as provided for in the tender data.
F.2.23	Certificates
	Include in the tender submission or provide the employer with any certificates as stated in the tender data.
F.3.2	Issue Addenda
	Notwithstanding any requests for confirmation of receipt of Addenda issued, the tenderer shall be deemed to have received such addenda if the employer can show proof of transmission thereof (or a notice in respect thereof) via electronic mail, facsimile or registered post.

F.3.4	Opening of tender submissions
F.3.4.1	The time and location for opening of the tender offers is: 11h00 on 03 June 2022 . The Tender Box at the Garden Route District Municipality is on the Ground Floor, 54 York Street, George.
F.3.10	Clarification of a tender offer
	The Employer may, after the closing date, request additional information or clarification from tenderer, in writing on any matter affecting the evaluation of the tender offer or that could give rise to ambiguity in a contract arising from the tender offer.
F.3.11	Evaluation of tender offers
F.3.11.2	Method 1: Price and Preference In the case of a price and preference <ol style="list-style-type: none"> 1) Score tender evaluation points for price. 2) Score points for BBEE contribution. 3) Add the points scored for price and BBEE.

F.3.11.3	Method 2: Functionality, Price and Preference In the case of functionality, price and preference <ol style="list-style-type: none"> 1) Score the functionality, rejecting all tender offers that fail to achieve the minimum number of points for functionality as stated in the Tender Data. 2) No tender must be regarded as an acceptable tender if it fails to achieve the minimum qualifying score for functionality as indicated in the tender invitation. 3) Tenders that have achieved the minimum qualification score for functionality must be evaluated further in terms of the preference points system prescribed in paragraphs 4 and 5 below. <p>The 80/20 preference point system for acquisition of services, works or goods up to Rand value of R50 million.</p> <p>4) (a)(i) The following formula must be used to calculate the points for price in respect of tenders (including price quotation) with a rand value equal to, or above R30,000 and up to Rand value of R50,000,000 (all applicable taxes included):</p> $P_s = 80 \left[1 - \frac{P_t - P_{\min}}{P_{\min}} \right]$ <p>Where Ps = Points scored for comparative price of tender or offer under consideration; Pt = Comparative price of tender or offer under consideration; and Pmin = Comparative price of lowest acceptable tender or offer.</p> <p>(4)(b) Subject to subparagraph (4)(c), points must be awarded to a tender for attaining the B-BEE status level of contribution in accordance with the table below:</p>
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B-BBEE Status Level of Contributor	80/20 Number of Points	90/10 Number of Points
1	20	10
2	18	9
3	14	6
4	12	5
5	8	4
6	6	3
7	4	2
8	2	1
Non-compliant contributor	0	0

(4)(c) A maximum of 20 points may be allocated in accordance with subparagraph (4)(b).

(4)(d) The points scored by tender in respect of B-BBEE contribution contemplated in subparagraph (4)(b) must be added to the points scored for price as calculated in accordance with subparagraph (4)(a).

(4)(e) Subject to paragraph 4.3.8 the contract must be awarded to the tender who scores the highest total number of points.

The 90/10 preference points system for acquisition of services, works or goods with a Rand value above R50 million.

(5)(a) The following formula must be used to calculate the points for price in respect of tenders with a Rand value above R50,000,000 (all applicable taxes included):

$$P_s = 90 \left[1 - \frac{P_t - P_{\min}}{P_{\min}} \right]$$

Where

P_s = Points scored for comparative price of tender or offer under consideration;

P_t = Comparative price of tender or offer under consideration; and

P_{min} = Comparative price of lowest acceptable tender or offer.

(5)(b) Subject to subparagraph (5)(c), points must be awarded to a tender for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	80/20 Number of Points	90/10 Number of Points
1	20	10
2	18	9
3	14	6
4	12	5
5	8	4
6	6	3
7	4	2
8	2	1
Non-compliant contributor	0	0

(5)(c) A maximum of 10 points may be allocated in accordance with subparagraph (5)(b).

(5)(d) The points scored by tender in respect of B-BBEE contribution contemplated in subparagraph (5)(b) must be added to the points scored for price as calculated in accordance with subparagraph (5)(a).

(5)(e) Subject to paragraph 4.3.8 the contract must be awarded to the tender who scores the highest total number of points.

F.3.11.6	Decimal places
	Score price, preference and functionality, as relevant, to two decimal places.
F.3.13	<p>Tender offers will only be accepted if:</p> <ul style="list-style-type: none"> (a) the Tenderer has in his or her possession an original valid Tax Clearance Certificate issued or the PIN provided by the South African Revenue Services or has made arrangements to meet outstanding tax obligations; (b) the Tenderer or any of its directors/shareholders is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector; (c) the Tenderer submits a letter of intent from an approved insurer undertaking to provide the Performance Bond to the format included in Part T2.2 of the procurement document. (d) the Tenderer is registered with the Construction Industry Development Board in an appropriate contractor grading designation. (e) the Tenderer has not abused the Employer's Supply Chain Management System. (f) the tender offer is signed by a person authorized to sign on behalf of the Tenderer. (g) the Tenderer has completed the Compulsory Enterprise Questionnaire and there are no conflicts of interest which may impact on the Tenderer's ability to perform the Contract in the best interests of the Employer or potentially compromise the tender process. (h) the Tenderer is registered and in good standing with the compensation fund or with a licensed compensation insurer; (i) the Employer is reasonably satisfied that the Tenderer has in terms of the Construction Regulations, 2014, issued in terms of the Occupational Health and Safety Act, 1993, the necessary competencies and resources to carry out the work safely. (j) the Tenderer has not failed to perform on any previous contracts and has not been given a written notice to the effect. (k) the Tenderer has submitted certified copies of the directors, owners and shareholders' identity documents with the tender offer. (l) the Tenderer must be registered on the Central Supplier Database. (m) Tenderer who submitted a tender as a Joint Venture has included an acceptable Joint Venture Agreement with his/her tender or has provided a letter of intent to form a Joint Venture signed by all parties. (n) the Tenderer is not in arrears for more than 30 days with municipal rates and taxes and services charges. (o) the Tenderer complies with the specifications and conditions applicable to the product and submitted all the required documentation as stipulated in part C3: Scope of Works.

F.3.16	Notice to tenderers
F.3.16.1	Before accepting the tender of the successful tenderer, the Employer shall notify the successful tenderer in writing of the decision of the Employer's Bid Adjudication Committee to award the tender to the successful tenderer. No rights shall accrue to the successful tenderer in terms of this notice.
F.3.16.2	The Employer shall, at the same time as notifying the successful tenderer of the Bid Adjudication Committee's decision to award the tender to the successful tenderer, also give written notice to the other tenderers informing them that they have been unsuccessful.
F.3.17	Provide copies of the contract
	The employer will provide the successful tenderer with one (1) paper copy of the signed contract as soon as possible after completion and signing of the form of offer and acceptance.
F.3.20	<p>The additional conditions of Tender are:</p> <ol style="list-style-type: none"> 1. Garden Route District Municipality may also request that the Tenderer provide written evidence that his/her financial, labour and resources are adequate for carrying out the project. 2. The Garden Route District Municipality reserves the right to appoint a firm of chartered accountants and auditors and/or execute any other financial investigations on the financial resources of any Tenderer. The Tenderer shall provide all reasonable assistance in such investigations. 3. Tender documents must be completed in black ink, and prices must include VAT, only where applicable and requested in the schedule of activities. 4. Corrections may not be made by means of a correction fluid such as Tipp-Ex or a similar product. In the event of a mistake having been made it shall be crossed out in ink and be accompanied by a full signature at each and every alteration. The Municipality reserves the right to reject the Tender if corrections are not made in accordance with the above.

TAX COMPLIANCE INFORMATION**PART A**

Tax Compliance Status	TCS Pin:		or	CSD No:	
B-BBEE Status Level Verification Certificate [Tick Applicable Box]	<input type="checkbox"/> Yes <input type="checkbox"/> No		B-BBEE Status Level Sworn Affidavit		<input type="checkbox"/> Yes <input type="checkbox"/> No
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE / SWORN AFFIDAVIT (FORM EMES & QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]					
Are You the Accredited Representative in South Africa for the Goods / Services / Works Offered?	<input type="checkbox"/> Yes <input type="checkbox"/> No [If Yes, Enclose Proof]		Are You A Foreign Based Supplier for The Goods / Services / Works Offered?		<input type="checkbox"/> Yes <input type="checkbox"/> No [If Yes, Answer Part 2.]
Signature of Bidder		Date	

B-BBEE certificates submitted with the tender documents MUST be a VALID ORIGINAL B-BBEE CERTIFICATE or VALID CERTIFIED COPY OF THE B-BBEE CERTIFICATE.

In the case of a Trust, Consortium or Joint Venture, they will qualify for points for their B-BBEE status level as a legal entity, provided that the entity submits their B-BBEE status level certificate.

MBD4

DECLARATION OF INTEREST

1.	No bid will be accepted from persons in the service of the state*.	
2.	Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in the service of the state, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority.	
3.	In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.	
3.1	Full Name of bidder or his / her representative:	
3.2	Identity number:	
3.3	Position occupied in the Company (director, trustee, shareholder ²):	
3.4	Company Registration Number:	
3.5	Tax Reference Number:	
3.6	VAT Registration Number:	
3.7	The names of all directors / trustees / shareholders / members, their individual identity numbers and state employee numbers (where applicable) must be indicated in paragraph 4 below.	
3.8	Are you presently in the service of the state?*	YES / NO
3.8.1	If yes, furnish the following particulars: Name of person / director / trustee / shareholder member: Name of state institution at which you or the person connected to the bidder is employed: Position occupied in the state institution:	

	Any other particulars:	
	
3.9 3.9.1	Have you been in the service of the state for the past twelve months? If so, furnish particulars. 	YES / NO
3.10 3.10.1	Do you have any relationship (family, friend, other) with persons in the service of the state and who may be involved with the evaluation and or adjudication of this bid? If yes, furnish the following particulars: Name of person: Name of state institution at which you or the person connected to the bidder is employed: Position occupied in the state institution: Any other particulars:	YES / NO
3.11 3.11.1	Are you aware of any relationship (family, friend, other) between the bidder and any person in the service of the state who may be involved with the evaluation and or adjudication of this bid? If yes, furnish the following particulars: Name of person: Name of state institution at which you or the person connected to the bidder is employed: Position occupied in the state institution:	YES / NO

	Any other particulars:	
3.12	Are any of the company's directors, managers, principal shareholders or stakeholders in the service of the state?	YES / NO
3.12.1	<p>If yes, furnish the following particulars:</p> <p>Name of person / director / trustee / shareholder / member:</p> <p>Name of state institution at which you or the person connected to the bidder is employed:</p> <p>Position occupied in the state institution:</p> <p>Any other particulars:</p>	
3.13	Is any spouse, child or parent of the company's directors, trustees, managers, principle shareholders or stakeholders in the service of the state?	YES / NO
3.13.1	<p>If yes, furnish the following particulars:</p> <p>Name of person / director / trustee / shareholder / member:</p> <p>Name of state institution at which you or the person connected to the bidder is employed:</p> <p>Position occupied in the state institution:</p> <p>Any other particulars:</p>	
3.14	Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies or business whether or not they	YES / NO

3.14.1	are bidding for this contract? If yes, furnish particulars: 		
4. Full details of directors / trustees / members / shareholders:			
THE FOLLOWING INFORMATION IS <u>COMPULSORY</u> TO COMPLETE:			
Full Name	Identity Number	Individual Tax Number for each Director	State Employee Number (where applicable)
5.	The contract will be automatically cancelled if there is a conflict of interest which is not disclosed by the bidder.		

.....
Signature

.....
Date

.....
Capacity

.....
Name of Bidder

¹MSCM Regulations: “in the service of the state” means to be -

- (a) a member of –
 - (i) any municipal council;
 - (ii) any provincial legislature; or
 - (iii) the National Assembly or the National Council of Provinces;
- (b) a member of the board of directors of any municipal entity;
- (c) an official or any Municipality or municipal entity;
- (d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999);
- (e) a member of the accounting authority of any national or provincial entity; or
- (f) an employee of Parliament or a provincial legislature.

²“Shareholder” means a person who owns shares in the company and is actively involved in the management of the company or business and exercise control over the company.

MBD 5

**DECLARATION FOR PROCUREMENT ABOVE R10 MILLION
(ALL APPLICABLE TAXES INCLUDED)**

For all procurement expected to exceed R10 million (all applicable taxes included), bidders must complete the following questionnaire:

1. Are you by law required to prepare annual financial statements for auditing? ***YES / NO**
 - 1.1 If yes, submit audited annual financial statements for the past three years or since the date of establishment if established during the past three years.
 - 1.2 If auditing of financial statements is not required by law, the bidder must still submit their unaudited annual financial statements for the period stated above
2. Do you have any outstanding undisputed commitments for municipal services towards any municipality for more than three months or any other service provider in respect of which payment is overdue for more than 30 days? ***YES / NO**
 - 2.1 If no, this serves to certify that the bidder has no undisputed commitments for municipal services toward any municipality for more than three months or other service provider in respect of which payment is overdue for more than 30 days.
 - 2.2 If yes, provide particulars.
.....
.....
.....
.....
- 2 Has any contract been awarded to you by an organ of state during the past five years, including particulars of any material non- compliance or dispute concerning the execution of such contract? ***YES / NO**

3.1 If yes, provide particulars.

.....

.....

.....

.....

4 Will any portion of goods or services be sourced from outside ***YES / NO** the Republic, and, if so, what portion and whether any portion of payment from the municipality / municipal entity is expected to be transferred out of the Republic.

4.1 If yes, furnish particulars.

.....

.....

.....

.....

CERTIFICATION

I, THE UNDERSIGNED (NAME)

CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION

FORM IS CORRECT. I ACCEPT THAT THE STATE MAY ACT AGAINST ME

SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all bids:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2

a) The value of this bid is estimated to ~~exceed~~/not exceed R50 000 000 (all applicable taxes included) and therefore the 80/20 preference point system shall be applicable; or

b) ~~Either the 80/20 or 90/10 preference point system will be applicable to this tender (delete whichever is not applicable for this tender).~~

1.3 Points for this bid shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contributor.

1.4 The maximum points for this bid are allocated as follows:

	POINTS
PRICE	?
B-BBEE STATUS LEVEL OF CONTRIBUTOR	?
Total points for Price and B-BBEE must not exceed	100

1.5 Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

1.6 The purchaser reserves the right to require of a bidder, either before a bid

is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

2. DEFINITIONS

- (a) **"B-BBEE"** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (b) **"B-BBEE status level of contributor"** means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (c) **"bid"** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive bidding processes or proposals;
- (d) **"Broad-Based Black Economic Empowerment Act"** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (e) **"EME"** means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (f) **"functionality"** means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.
- (g) **"prices"** includes all applicable taxes less all unconditional discounts;
- (h) **"proof of B-BBEE status level of contributor"** means:
 - 1) B-BBEE Status level certificate issued by an authorized body or person;
 - 2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;
 - 3) Any other requirement prescribed in terms of the B-BBEE Act;
- (i) **"QSE"** means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (j) **"rand value"** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

3. POINTS AWARDED FOR PRICE

3.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

$$P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right) \quad \text{or} \quad P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

Where

P_s = Points scored for price of bid under consideration

P_t = Price of bid under consideration

P_{\min} = Price of lowest acceptable bid

4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTOR

- 4.1 In terms of Regulation 6 (2) and 7 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

5. BID DECLARATION

- 5.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

6. B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1

6.1 B-BBEE Status Level of Contributor: . =(maximum of 10 or 20 points).

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

7. SUB-CONTRACTING

7.1 Will any portion of the contract be sub-contracted?

(Tick applicable box)

YES		NO	
-----	--	----	--

7.1.1 If yes, indicate:

i) What percentage of the contract will be subcontracted.....%

ii) The name of the sub-contractor.....

iii) The B-BBEE status level of the sub-contractor.....

iv) Whether the sub-contractor is an EME or QSE

(Tick applicable box)

YES		NO	
-----	--	----	--

v) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations, 2017:

Designated Group: An EME or QSE which is at least 51% owned by:	EME √	QSE √
Black people		
Black people who are youth		
Black people who are women		
Black people with disabilities		
Black people living in rural or underdeveloped areas or townships		
Cooperative owned by black people		
Black people who are military veterans		
OR		
Any EME		
Any QSE		

8. DECLARATION WITH REGARD TO COMPANY/FIRM

8.1 Name of
company/firm:.....

8.2 VAT registration number:.....

8.3 Company registration
number:.....

8.4 TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
☐ One person business/sole propriety
☐ Close corporation
☐ Company
☐ (Pty) Limited
[TICK APPLICABLE BOX]

8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

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

8.6 COMPANY CLASSIFICATION

- ☐ Manufacturer
☐ Supplier
☐ Professional service provider
☐ Other service providers, e.g. transporter, etc.
[TICK APPLICABLE BOX]

8.7 MUNICIPAL INFORMATION

Municipality where business is situated:

Registered Account Number:

Stand Number:.....

8.8 Total number of years the company/firm has been in
business:.....

8.9 I/we, the undersigned, who is / are duly authorised to do so on behalf of
the company/firm, certify that the points claimed, based on the B-BBE
status level of contributor indicated in paragraphs 1.4 and 6.1 of the
foregoing certificate, qualifies the company/ firm for the preference(s)
shown and I / we acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
 - (a) disqualify the person from the bidding process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution.

WITNESSES

1.

.....
SIGNATURE(S) OF BIDDERS(S)

DATE:

.....

SWORN AFFIDAVIT – BBBEE EXEMPTED MICRO ENTERPRISE**SWORN AFFIDAVIT – B-BBEE EXEMPTED MICRO ENTERPRISE**

I, the undersigned,

Full name & Surname	
Identity number	

Hereby declare under oath as follows:

1. The contents of this statement are to the best of my knowledge a true reflection of the facts.
2. I am a member / director / owner of the following enterprise and am duly authorised to act on its behalf:

Enterprise Name	
Trading Name	
Registration Number	
Enterprise Address	

3. I hereby declare under oath that:
 - The enterprise is _____% black owned;
 - The enterprise is _____% black woman owned;
 - Based on the management accounts and other information available on the _____ financial year, the income did not exceed R10,000,000.00 (ten million rands);
 - Please confirm on the table below the B-BBEE level contributor, **by ticking the applicable box.**

100% black owned	Level One (135% B-BBEE procurement recognition)	
More than 51% black owned	Level Two (125% B-BBEE procurement recognition)	
Less than 51% black owned	Level Four (100% B-BBEE procurement recognition)	

4. The entity is an empowering supplier in terms of **the dti** Codes of Good Practice.
5. I know and understand the contents of this affidavit and I have no objection to take the prescribed oath and consider the oath binding on my conscience and on the owners of the enterprise which I represent in this matter.
6. The sworn affidavit will be valid for a period of 12 months from the date signed by commissioner.

Deponent Signature: _____

Date: _____

 Commissioner of Oaths
 Signature & stamp

DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

- 1 This Municipal Bidding Document must form part of all bids invited.
- 2 It serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3 The bid of any bidder may be rejected if that bidder, or any of its directors have:
 - 8.10 abused the municipality's / municipal entity's supply chain management system or committed any improper conduct in relation to such system;
 - 8.11 been convicted for fraud or corruption during the past five years;
 - 8.12 willfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years; or
 - 8.13 been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004).

4. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

Item	Question	Yes	No
4.1	<p>Is the bidder or any of its directors listed on the National Treasury's database as a company or person prohibited from doing business with the public sector?</p> <p>(Companies or persons who are listed on this database were informed in writing of this restriction by the National Treasury after the <i>audi alteram partem</i> rule was applied).</p> <p>The Database of Restricted Suppliers now resides on the National Treasury's website (www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.</p>	<p>Yes</p> <input type="checkbox"/>	<p>No</p> <input type="checkbox"/>

4.1.1	If so, furnish particulars:		
4.2	Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.2.1	If so, furnish particulars:		
4.3	Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.3.1	If so, furnish particulars:		
Item	Question	Yes	No
4.4	Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.4.1	If so, furnish particulars:		
4.5	Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.5.1	If so, furnish particulars:		

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME)

CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS TRUE AND CORRECT.

I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT, ACTION MAY BE TAKEN AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....

Signature

.....

Position

.....

Date

.....

Name of Bidder

CERTIFICATE OF INDEPENDENT BID DETERMINATION

1. This Municipal Bidding Document (MBD) must form part of all bids¹ invited.
2. Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
3. Municipal Supply Regulation 38(1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:
 - 3.1 take all reasonable steps to prevent such abuse;
 - 3.2 reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and
 - 3.3 cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.
4. This MBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
5. In order to give effect to the above, the attached Certificate of Bid Determination (MBD9) must be completed and submitted with the bid:

¹ Includes price quotations, advertised competitive bids, limited bids and proposals.

² Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

(Bid Number and Description)

in response to the invitation for the bid made by:

GARDEN ROUTE DISTRICT MUNICIPALITY

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: _____ that:
(Name of Bidder)

6. I have read and I understand the contents of this Certificate;
7. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
8. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
9. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign, the bid, on behalf of the bidder;
10. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - 10.1 has been requested to submit a bid in response to this bid invitation;
 - 10.2 could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
 - 10.3 Provides the same goods and services as the bidder and/or is in the same line of business as the bidder.

MBD9

- 11 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.
- 12 In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - 12.1 prices;
 - 12.2 geographical area where product or service will be rendered (market allocation);
 - 12.3 methods, factors or formulas used to calculate prices;
 - 12.4 the intention or decision to submit or not to submit, a bid;
 - 12.5 the submission of a bid which does not meet the specifications and conditions of the bid; or bidding with the intention not to win the bid.
13. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
14. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
15. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No. 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating

of Corrupt Activities Act No. 12 of 2004 or any other applicable legislation.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

CERTIFICATE FOR MUNICIPAL SERVICES (COMPULSORY TO COMPLETE)

Information required in terms of the Supply Chain Management Regulations, Regulation 28 (1) (c).

Tender Number: GRDM/29/21-22

Name of the Bidder: _____

DETAILS OF THE BIDDER/S: Owner / Proprietor / Director(s) / Partner(s), etc:

Physical Business address of the Bidder	Municipal Account Number(s)

If there is not enough space for all the names, please attach the additional details to the Tender document.

Name of Director / Member / Partner	Identity Number	Physical residential address of Director / Member / Partner	Municipal Account number(s)

I, _____, the undersigned,
(full name in block letters)

certify that the information furnished on this declaration form is correct and that I/we have no undisputed commitments for municipal services towards a municipality or other service provider in respect of which payment is overdue for more than 30 days.

Signature

THUS DONE AND SIGNED for and on behalf of the Bidder / Contractor

at _____ on the _____ day of _____ 2022

PLEASE NOTE:

MUNICIPAL ACCOUNTS FOR ALL PROPERTIES OWNED BY BIDDER/S MUST BE ATTACHED TO THE TENDER DOCUMENT!

Even if the requested information is not applicable to the Bidder, the table above should be endorsed NOT APPLICABLE with a reason and THIS DECLARATION MUST STILL BE COMPLETED AND SIGNED. In the event of leasing, a lease agreement MUST be attached to the tender document.

GARDEN ROUTE DISTRICT MUNICIPALITY

TENDER NUMBER: GRDM/29/21-22

CONSTRUCTION OF NEW FIRE STATION

Returnable Documents (Part T2)

(ALL Documents and Schedules MUST BE RETURNED for the TENDER to Qualify)

- | | |
|------|--|
| T2.1 | List of Returnable Schedules Required for Tender Evaluation |
| T2.2 | Other documents that will be incorporated into the contract |
| T2.3 | Returnable Schedules that will be incorporated in the contract |

NOTE:

Although the documents under Part T2 is headed “Returnable Documents” in line with the CIDB model, these are not the only documents to be returned together with the Tender. **All** the documents indicated on document T1, must be completed and signed where applicable and submitted as a **complete set of documents**.

GARDEN ROUTE DISTRICT MUNICIPALITY

TENDER NUMBER: GRDM/29/21-22

CONSTRUCTION OF NEW FIRE STATION

**List of Returnable Schedules Required for Tender
Evaluation Purposes (T2.1)**

Form 2.1.1	General Information
Form 2.1.2	Authority for Signatory
Form 2.1.3	Financial References
Schedule 2.1.4	Functionality

FORM 2.1.1**GENERAL INFORMATION**

1. Name of tendering entity:

1. Contact details

Address :

Tel no :

() _____

Fax no :

() _____

E-mail address :

2. Legal entity: Mark with an **X**.

Sole proprietor	
Partnership	
Close corporation	
Company (Pty) Ltd	
Joint venture	

In the case of a Joint venture, provide details on joint venture members:

Joint venture member	Type of entity (as defined above)

3. Income tax reference number: _____ (in the case of a joint venture, provide for all joint venture members)
4. Regional services area where the enterprise is registered: _____ (In the case of a joint venture, provide for all joint venture members)
5. Regional services levy registration number: _____ (In the case of a joint venture, provide for all joint venture members)
6. VAT registration number: _____ (In the case of a joint venture, provide for all joint venture members)
7. Company or closed corporation registration number: _____ (In the case of a joint venture, provide for all joint venture members)
8. Details of proprietor, partners, closed corporation members, or company directors, indicating technical qualifications where applicable (Form on the next page).

For joint ventures the following must be attached (**COMPULSORY**):

- Written power of attorney for authorised signatory.
- **Pro-forma of the joint venture agreement.**
* If the Joint Venture Agreement is not attached, the tender will not be considered!

DETAILS OF PROPRIETOR, PARTNERS, CLOSED CORPORATION MEMBERS OR COMPANY DIRECTORS

Name and Identity Number	Relevant qualifications and experience	Years of relevant experience

Name of Tendering Entity : _____

Signature : _____ Date : _____

FORM 2.1.2 AUTHORITY FOR SIGNATORY

Details of person responsible for Tender process

Name

Contact number ()

Address of office submitting the Tender

Telephone no ()

Fax no ()

E-mail address

Signatories for close corporations and companies shall confirm their authority by attaching to this form a **duly signed and dated original or certified copy** of the relevant resolution of their members or their board of directors, as the case may be.

"By resolution of the board of directors passed on (date)

Mr.

has been duly authorized to sign all documents in connection with the Tender for Contract Numberand any Contract which may arise there from on behalf of

(BLOCK CAPITALS)

SIGNED ON BEHALF OF THE COMPANY

IN HIS CAPACITY AS

DATE

FULL NAMES OF SIGNATORY

AS WITNESSES 1.

2.

FORM 2.1.3 FINANCIAL REFERENCES**1. FINANCIAL STATEMENTS**

If the bidder is required by law to prepare annual financial statements for auditing, their audited annual financial statements for the past three years, or since their establishment during the past three years, shall be attached to their tender submission.

If auditing of financial statements is not required by law, the bidder must still submit their unaudited annual financial statements for the period stated above.

2. DETAILS OF TENDERING ENTITY'S BANK

The tenderer is to submit a current original Bank Statement of Good Financial Standing containing the following information:

Pro-forma Bank Statement	
Bank Report on (Name of Company)	
Account Number	
Bank	
Branch Code	
Amount (tender value)	
Duration (contract period)	10 months
Business Potential Code	
	Mark X against applicable category
A UNDOUBTED FOR INQUIRY	
B GOOD FOR AMOUNT QUOTED	
C GOOD FOR AMOUNT QUOTED IF STRICTLY IN WAY OF BUSINESS	
D FAIR TRADE RISK	
E FIGURE CONSIDERED TOO HIGH	
F FINANCIAL POSITION UNKNOWN	
G OCCASIONALLY DISHONoured	
H FREQUENTLY DISHONoured	

Or alternatively I/We hereby authorize the Employer/Engineer to approach all or any of the following banks for the purposes of obtaining a financial reference:

DESCRIPTION OF BANK DETAIL	BANK DETAILS APPLICABLE TO TENDERER 'S HEAD OFFICE
Name of bank	
Branch name	
Branch code	
Street address	
Postal address	
Name of manager	
Telephone number	()
Fax number	()
Account number	

**SIGNED ON BEHALF OF
TENDERER**

Date :

SCHEDULE 2.1.4 FUNCTIONALITY

In terms of Method 2 (Functionality, Price and Preferences) for evaluation of the tender, the tenderer must submit sufficient information to allow the Bid Committee to assess the Functionality of the tenderer. ***The information required must be provided as additional pages appended to this Schedule, with the number of appended pages specified and the Schedules signed by the authorised signatory.***

ALSO NOTE: The information provided by the tenderer is subject to verification and if any form of falsification or misrepresentation of any of the required details is found, the tender will be disqualified.

The functionality table below shows the fully transparent criteria for functionality evaluation and scoring. PLEASE DO NOT score any items in the table, this will be done by the *Employer* during tender adjudication upon scrutiny and verification of the information pages appended to this Schedule.

1 GENERAL DEFINITIONS:

- 1.1 “**Functionality**” in terms of this tender means the measurement according to predetermined norms of a service or commodity designed to be practical and useful, working or operating, considering quality, reliability, viability and durability of a service or commodity. It refers to the specialist expertise, technical ability, resources, and experience required from the tenderer to be able to undertake and successfully execute and complete the work pertaining to this specific project and contract type.

2 THE EVALUATION OF THE BIDS WILL BE CONDUCTED IN THE FOLLOWING TWO STAGES:

- A. Firstly, the assessment of functionality will be done in terms of information made available by the tenderer according to the criteria in the Functionality Tables below, where a total of 100 points are awarded, broken down as per the items listed in the table. The minimum qualifying threshold will be 70 of the 100 points awarded for functionality (70%).

Bidders that score less than 70 out of 100 points for this criteria will be regarded as non-responsive and will not be evaluated on price and B-BBEE.

- B. Thereafter, only the tenders qualifying with a score of 80 and above will be evaluated in terms of the applicable preference points system (80:20) and financial offer, where 80 points are used for price and the remaining 20 points are used for Broad-Based Black Economic Empowerment (B-BBEE) status level of contribution

Note:

Unclear, vague, fragmented or incomplete information provided will result in no points being allocated.

Bidders must ensure that relevant information is submitted. If information is not submitted or referred to as an attachment, no points will be awarded.

	CRITERIA	MAXIMUM POINTS	BIDDER SCORE
1	Company (or JV) Experience	25	
2	References Related to that Experience	30	
3	Site Staff & Personnel	30	
4	Company Infrastructure and Method Statement	15	
TOTAL		100	

Functionality criteria are further divided as follows and points will be awarded as indicated below:

SIGNED ON BEHALF OF TENDERER:

.....

Criterion 1: Company (or JV) Experience

- (a) A maximum of 25 points will be awarded at the sole discretion of the Municipality's Bid Evaluation Committee based on the information provided. Please note that this section refers to the Company's and its legacy firms past experience and is not a duplication of Criterion 3's Key staff and Personnel. Meaning this section takes into consideration that the Company as an entity has gained relevant experience in the past and showcase that the company is and well-established building construction company.
- (b) Relevant experience is defined as the accumulation of knowledge or skill that results from direct participation in relevant/similar events or activities and/or as determined by the Garden Route District Municipality and/or professional consulting engineer where applicable.

Experience required: Successfully completed building and civil construction projects	Maximum points	Bidder Score
A minimum 1 year but up to 3 year's total relevant experience.	15	
More than 3 years, but up to 5 years total relevant experience.	20	
More than 5 years total relevant experience of the company.	25	
Total		

SIGNED ON BEHALF OF TENDERER:

.....

Criterion 1: Company (or JV) Experience

- (c) In order to claim points for the above, bidders must submit sufficient information as well as documentary proof of experience relating to building and civil construction, by means of completion certificates and appointment letters.
- (d) Points will only be awarded for relevant & completed experience obtained relevant to the Tender Scope of Works. To be able to gain points the Tenderer must submit proof that the company has obtained the relevant experience for this Tender's Scope of Works & Specifications, and not only parts thereof. If experience is listed, please ensure it is applicable and relevant to the whole of this Tender and not only to parts thereof, otherwise the Bidder will not be awarded the necessary points. **Bidders to provide enough experience to score the total points as prescribed e.g. in order to claim 30 points, relevant information should be listed for current projects as well as projects completed in the last five (5) years.**

NB: If no information is provided below OR referred to as an additional attachment
NO POINTS WILL BE AWARDED.

Table 1

Employer/Client	Nature of work/Scope of work (A full breakdown of the scope to be submitted)	Value of Work (incl. VAT)	Start and completion date (month and year) Duration
			Start Completion Duration
			Start Completion Duration
			Start Completion Duration
			Start Completion Duration
			Start Completion Duration
			Start Completion Duration

SIGNED ON BEHALF OF TENDERER:

Criterion 2: References related to Experience

Please note that this section refers to the Company's and its legacy firms' references related to the experience.

Bidders should provide copies of **three** (3) reference letters, on an official letterhead of the reference, in relation to the experience gained on projects relevant to the scope of work.

The following detail should be included in the reference letter:

- Detail of the work that have been successfully completed
- Was the work completed within the contractual time frame?
- Was the work completed within the Contract Price / Amount /Budget / Project program/schedule. Meaning did the contractor keep to his budget and Scope of Works and not overspend without provisional approval and keep to the program/schedule?
- Compliance with the Occupational Health & Safety regulations on the project.
- General performance on the project.

The letter should also include who the reference person is with all his/her contact detail.

OR

Bidders can provide their references with the attached questionnaire (*see Table 2*), which have to be completed and signed by the references.

The Municipality/Consultant reserves the right to validate and verify the information from the references or to ask more questions or proof to satisfy the evaluation process.

Please note that points will not overlap, meaning points are awarded only once per reference/company/entity *per project experience*. Please refrain from submitting multiple references from the same company on the same project. Please note it is the duty of the Bidder to ensure that the references given are relevant to the Scope of Works.

- Reference Scoring: A maximum of **30** points will be awarded at the sole discretion of the Municipality's Bid Evaluation Committee based on the information provided and will be split as follows.
- In order to claim points, bidders must submit, with the tender document, **three** reference letters to which the above-mentioned Experience have been provided.
- These references letters must be current/most recent, relevant and related to the Experience submitted. The letters must not be older than five (5) years.
- It is the bidders' responsibility to ensure that the details provided are correct, before submitting his tender, and that the references will be available and be able to provide additional feedback, if necessary.
- If the references are unable to validate, verify or provide additional information on the projects, no points will be awarded for that particular reference.
- 10 points will be awarded for each reference letter which is positive and relevant to the Scope of Works of this contract, subject to the final discretion of SCM bid evaluation staff.

NB: If no reference letters or questionnaires are attached NO POINTS WILL BE AWARDED. COMPLETION CERTIFICATES AND/OR APPOINTMENT LETTERS WILL NOT BE ACCEPTED FOR THIS CRITERIA.

Criterion 2: References related to Experience

The following are typical questions that could be asked from the references, please note that the evaluation committee reserves the right to ask more questions and request more proof to satisfy the evaluation process.

The project scope consists of the construction of buildings and civil services for a new regional Fire Station.

Table 2

Question to Reference	Reference's Response
1. SCOPE: Have this Contractor successfully performed a similar Scope of Works for you in the past?	YesNo..... If No, please state why:
2. TIME / PROGRAMME: Was the work completed within the Contractual time frame? Excluding normal contractor delays, did the contractor finish in time without running into Penalties? Was there any delay due to non-responsiveness? Did the contractor perform as per their program and Tender specs?	YesNo..... If No, please state why:
3. PRICE / BUDGET: Was the work completed within the Contract Price / Amount /Budget. Meaning did the contractor keep to his budget and Scope of Works and not overspend without provisional approval?	YesNo..... If No, please state why:
4. OHS : Did the Contractor comply with the Occupational Health & Safety regulations on site? Did the contractor timely correct any OHS issues within the timeframes set within the OHS Audit report? Is this contractor Safety minded and responsive to OHS instructions	YesNo..... If No, please state why:
5. OVERALL / VERDICT: In general, were you satisfied with the Contractor's performance on your site, their professionalism, ethics, execution method - thus would you recommend this contractor for this Tender considering all of above?	YesNo..... If No, please state why:

.....
REFERENCE NAME

.....
SIGNATURE

Criterion 2: References related to Experience

.....
CONTACT PERSON & TELEPHONE NUMBER **DATE**

STAMP OF REFERENCE

Criterion 3: Key Staff & Personnel allocated / reserved for this Tender

- (a) A maximum of **25** points will be awarded at the sole discretion of the Municipality's Bid Evaluation Committee based on the information provided and will be split as follows. Points will only be awarded once for each staff/personnel allocated to this Tender, no multiple scoring per person.
- (b) **NB: Please provide name of staff member in the space provided below. If no name is provided NO POINTS WILL BE AWARDED.**

Table 3

Key Staff & Personnel Required:	Max points	Name of Staff member	Bidder Score
Contract Manager / Site Agent (min 16 hours / 2 days per week) <ul style="list-style-type: none"> • Must be suitably skilled and have CV verifiable experience managing Building and or Civil and Structural projects. Is overall responsible for the execution of the works and all associated project management • Must manage all Municipal instructions and ensure execution of Tender specifications. Must inspect and approve all works and manage Payment Certificates • Must be computer literate, compile admin reports, proficient in the use of Excel Spread Sheets, capture data and quantities, daily communication electronically via email etc. 	10		
General Foreman: Construction Manager & Supervisor (min 40 hours / 5 days per week / full time on site) <ul style="list-style-type: none"> • Must be suitably skilled and have CV verifiable experience as foreman on Building Construction, Steel Structures and Civil Services projects. • Must supervise the works full-time on site, the team / the workers and the correct use of all plant/machinery. • Must be able to work with local labour. • Must ensure all Codes & Standards specifications are met and carried out. • Must be able to do setting-out & levelling sewer lines, stormwater lines and roads to obtain accurate and uniform finishes according to specifications. • Must be able to supervise the sewer, water, stormwater and roads construction teams and instruct corrective action • Must be able to perform site administration, quality control, apply OHS requirements, etc. 	10		

Key Staff & Personnel Required:	Max points	Name of Staff member	Bidder Score
Administration & office management <ul style="list-style-type: none"> Person or personnel must be suitably skilled and have CV verifiable experience administering the Company's staff appointments, managing salaries and wages, tax matters, material orders, debtors/creditors, invoicing, sub-contractor management, etc. 	10		
TOTAL	30		

(c) In order to claim points for the above bidders must submit detailed Curriculum Vitae (CV) of each key personnel to be used/allocated for this Tender. **The staff or personnel listed above must currently be employed by the Bidder company, if not then a letter stating such intent to employ this person, including this person's signature of willingness & acceptance for the intended duration of the project.** CV experience listed of key staff must be relevant and current. Points can only be allocated once, meaning one-person-one-score, no multiple scoring. Please note the staff allocated to this Tender must be on-site and used for this Tender. If the person is unavailable during time of Execution he/she must be replaced with someone of equal or better value and experience and proof as per CV submitted.

NB: Relevant experience is defined as the accumulation of knowledge or skill that results from direct participation in relevant similar events or activities and/or as determined by the Garden Route District Municipality and/or professional consulting engineer where applicable.

SIGNED ON BEHALF OF TENDERER:

Criterion 4: Company Infrastructure and Method Statement

Bidder is to submit own generated documentation to satisfy the criteria below for the evaluation process.

A maximum of **15** points will be awarded based on the information provided.

Table 4

Requirement	Maximum Points	Bidder Score
<i>Company Organogram:</i> Provide an overview of the Company' or JV's structure, leadership, management, registration, business profile and membership of associations in the building industry	3	
List the proposed sub-contractors to be appointed/employed, indicating which portion of the works will be allocated to them Note, include OHS officer if applicable <i>Brief experience/CV/company profile of each sub-contractor to be included</i>	3	
Method Statement:		
State the proposed overall sequencing of the works, including anticipated time allocated for each defined element	3	
Briefly state how quality control of the various building elements and finishing will be ensured	3	
Describe details of the implementation of Occupational Health and Safety requirements	3	
TOTAL	15	

If no information is provided as additional attachments, **NO POINTS WILL BE AWARDED.**

SIGNED ON BEHALF OF TENDERER:

JOINT VENTURES

The evaluation of functionality regarding a Consortium or Joint venture, will be performed as follows:

For company experience the evaluation is based on the experience of the partner with the highest/longest experience record;

For the evaluation of the project team, if applicable, at least one of the Project leaders must be an employee with the leading partner of the consortium or joint venture. The leading partner of the consortium or joint venture is determined by the shareholding regarding the liability, which is included in the consortium or joint venture agreement.

If required for the evaluation of the financial ratings, if not issued for the consortium or joint venture specifically, the rating of the leading partner will be use in the assessment.

The designated Project leaders, if applicable, may not be changed without the prior approval of the accounting officer or his/her nominated person once the bid was awarded.

GARDEN ROUTE DISTRICT MUNICIPALITY

TENDER NUMBER: GRDM/29/21-22

CONSTRUCTION OF NEW FIRE STATION

**Other Documents Required for Tender Evaluation
Purposes (Part T2.2)**

- | | |
|------------|---|
| Form 2.2.1 | Certificate of Tenderer's Attendance at the Compulsory Information Session / Site Meeting |
| Form 2.2.2 | Written Proof of Tenderers registration at the Construction Industry Development Board (CIDB) |

FORM 2.2.1 CERTIFICATE OF TENDERER'S ATTENDANCE AT THE COMPULSORY CLARIFICATION MEETING

This is to certify that I,,
representative of (Tenderer)
.....
of (address)
.....
.....
Telephone number
Email:
attended Clarification Meeting on **Thursday 12 May 2022 at 10:00** in the
company of
(Garden Route District Municipality / Employer's Representative)

PLEASE NOTE:

Tenderers are requested to submit the minutes received at above-mentioned compulsory information session/meeting with their Tender documents. (Non-submission of this information may lead to rejection of this Tender)

TENDERER 'S REPRESENTATIVE:

GARDEN ROUTE DISTRICT MUNICIPALITY / EMPLOYER'S REPRESENTATIVE:

**FORM 2.2.2 PROOF OF REGISTRATION AT THE CONSTRUCTION INDUSTRY
DEVELOPMENT BOARD (CIDB)**

The Tenderer is to affix to this page:

- Written proof of Tenderers registration at the CIDB

GARDEN ROUTE DISTRICT MUNICIPALITY

TENDER NUMBER: GRDM/29/21-22

CONSTRUCTION OF NEW FIRE STATION

**Returnable Schedules that will be Incorporated in
the Contract (Part T2.3)**

Form 2.3.1

Record of Addenda to Tender Documents

FORM 2.3.1 RECORD OF ADDENDA TO TENDER DOCUMENTS

We confirm that the following communications received from the Employer before the submission of this Tender offer, amending the Tender documents, have been taken into account in this Tender offer:

	Date	Title or Details
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Attach additional pages if more space is required.

Signed: Date:

Name: Position:

SIGNED ON BEHALF OF TENDERER:

GARDEN ROUTE DISTRICT MUNICIPALITY

GARDEN ROUTE DISTRICT MUNICIPALITY

TENDER NUMBER: GRDM/29/21-22

CONSTRUCTION OF NEW FIRE STATION

Agreement And Contract Data (Part C1)

Part C1.1	Form of Offer and Acceptance
Part C1.2	Contract Data
Part C1.3	Objections and Complainants Form
Part C1.4	Form of Performance Guarantee

GARDEN ROUTE DISTRICT MUNICIPALITY**TENDER NUMBER: GRDM/29/21-22****CONSTRUCTION OF NEW FIRE STATION****Form of Offer and Acceptance (Part C1.1)****(AGREEMENT) OFFER**

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract for the procurement of:

Construction of New Fire Station

The Tenderer, identified in the Offer signature block below, has examined the documents listed in the Tender Data and addenda thereto as listed in the Tender schedules, and by submitting this Offer has accepted the Conditions of Tender.

By the representative of the Tenderer, deemed to be duly authorised, signing this part of this Form of Offer and Acceptance, the Tenderer offers to perform all of the obligations and liabilities of the Service Provider under the Contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the Conditions of Contract identified in the Contract Data.

THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VALUE ADDED TAX IS:

.....

..... rand (in words); R (in figures),

This Offer may be accepted by the Employer by signing the Acceptance part of this Form of Offer and Acceptance and returning one copy of this document to the Tenderer before the end of the period of validity stated in the Tender Data, whereupon the Tenderer becomes the party named as the Service Provider in the Conditions of Contract identified in the Contract Data.

Signature(s) _____

Name(s) _____

Capacity _____

(Name and address of organisation)

ACCEPTANCE

By signing this part of this Form of Offer and Acceptance, the Employer identified below accepts the Tenderer's Offer. In consideration thereof, the Employer shall pay the Service Provider the amount due in accordance with the Conditions of Contract identified in the Contract Data. Acceptance of the Tenderer's Offer shall form an agreement, between the Employer and the Tenderer upon the terms and conditions contained in this Agreement and in the Contract that is the subject of this Agreement.

The terms of the contract are contained in

Part C1 Agreements and Contract Data
(which includes this Form of Offer and Acceptance)
Part C2 Pricing Data
Part C3 Scope of Work

and drawings and documents or parts thereof, which may be incorporated by reference into Parts C1 to C3 above.

The Tenderer shall within two weeks after receiving a completed copy of this Agreement, contact the Employer's representative (whose details are given in the Contract Data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract Data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

Notwithstanding anything contained herein, this Agreement comes into effect on the date when the Tenderer receives one fully completed original copy of this document, including the Schedule of Deviations (if any). Unless the Tenderer (now Contractor) within five working days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this Agreement, this Agreement shall constitute a binding contract between the parties.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the Tender documents and the receipt by the Tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.

FOR THE TENDERER:

Signature(s)

Name(s)

Capacity

_____	_____
_____	_____
_____	_____

(Name and address of organisation)

FOR THE EMPLOYER:

Signature: _____

Name **MR MONDE STRATU**

Capacity **MUNICIPAL MANAGER**

**GARDEN ROUTE DISTRICT MUNICIPALITY
54 YORK STREET
GEORGE
6530**

GARDEN ROUTE DISTRICT MUNICIPALITY

TENDER NUMBER: GRDM/29/21-22

CONSTRUCTION OF NEW FIRE STATION

Contract Data (Part C1.2)

C1.2 CONTRACT DATA

Building work will be performed in terms of the clauses, conditions, definitions and procedures of the Joint Building Contracts Committee, Principal Building Agreement (**JBCC PBA**) Edition 6.2, published May 2018.

Each party to purchase its own copy of the JBCC PBA from a duly authorised commercial vendor or directly from:

- Master Builders Association (MBA)
- Association of South African Quantity Surveyors
- South African Association of Consulting Engineers
- South African Institute of Architects

REFER TO ANNEXURE A : JBCC CONTRACT DATA SCHEDULE

(Consisting of 9 pages)

GARDEN ROUTE DISTRICT MUNICIPALITY

TENDER NUMBER: GRDM/29/21-22

CONSTRUCTION OF NEW FIRE STATION

Objections and Complainants Form (Part C1.3)

(Section 1.11.15 of the Garden Route District Municipality's Supply Chain Management Policy)

(1) Details of Objector/Complainant

Name: _____

Address: (postal and street): _____

Tel: _____ Fax: _____

Contact person: _____

Reference number of Tender : _____

Other Party's Details (If any)

Name: _____

Address: (postal and street): _____

Tel: _____ Fax: _____

Contact person: _____

Reference number of Tender: _____

Description of Issue[s] in Dispute

List of Documents Attached

Determination Sought in Respect of Objection or Complaint

Form submitted by:

Name:

Signature:

Position:

Date:

Place:

GARDEN ROUTE DISTRICT MUNICIPALITY

TENDER NUMBER: GRDM/29/21-22

CONSTRUCTION OF NEW FIRE STATION

Form of Performance Guarantee

(Part C1.4)

See JBCC standard form, attached to this tender document as **Annex E**

GARDEN ROUTE DISTRICT MUNICIPALITY

TENDER NUMBER: GRDM/29/21-22

CONSTRUCTION OF NEW FIRE STATION

Pricing Data (Part C 2)

C2.1 Pricing Instructions

C2.2 Bills of Quantities

GARDEN ROUTE DISTRICT MUNICIPALITY**TENDER NUMBER: GRDM/29/21-22****CONSTRUCTION OF NEW FIRE STATION****Pricing Instructions (Part C2.1)****C2.1 PRICING INSTRUCTIONS**

1. Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes (except Value Added Tax (VAT)), and other levies payable by the successful tenderer, such duties, taxes and levies being those applicable 14 days before the closing time stated in the tender data.
2. Provide rates and prices **that are fixed for the duration of the contract** and not subject to adjustment except as provided for in the conditions of contract identified in the contract data.
3. **The** Building Agreement, Contract Data, Specifications (including Preambles for Trades) and Drawings shall be read in conjunction with the Bills of Quantities.
4. The Bills comprise items covering the Contractor's profit and costs of general liabilities and includes the construction of temporary and permanent works.
5. The Bills of Quantities, including specialist trades where applicable, has been drawn up in accordance with the Standard System of Measuring Building Work (as amended) published and issued by the Association of South African Quantity Surveyors (Sixth Edition (Revised), 1999. The Bills of Quantities forms part of and must be read and priced in conjunction with all the other documents forming part of the contract documents, the Building Agreement, Specifications, Drawings and all other relevant documentation.
6. It will be assumed that prices included in the Bills of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to or www.iso.org for information on standards)
7. The tender price must include for Value Added Tax (VAT). All rates, provisional sums, etc. in the Bills of Quantities must however be net (exclusive of VAT) with VAT calculated and added to the Total Value thereof in the Final Summary.
8. The Contract Data, Preliminaries and the Principal Building Agreement referenced therein, including all additions, omissions and alterations to the various parts of these documents, must be studied for the full extent and meaning of each and every clause.
9. The items in these tender documents are to be read and priced in conjunction with and the descriptions regarded as amplified by The Model Preamble of Trades as recommended and published by the Association of

South African Quantity Surveyors, 2008 edition. No claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained

10. The drawings listed in Part C5, used for the setting up the Bills of Quantities, are kept by *ProQS Quantity Surveyors* and can be viewed at any time during office hours up until the completion of the works
11. Unless stated to the contrary, items are measured net in accordance with the Drawings without any allowance having been made for waste and the tenderer's attention is drawn to the fact that their prices must make allowance for all cut-offs, waste, spillage and any other provision that they may require in the execution of the work.
12. The amounts and rates to be inserted in the Bills of Quantities shall be the full inclusive amounts to the Employer for the work described under the several items. Such amounts shall cover all the costs and expenses that may be required in and for the construction of the work described, and shall cover the costs of all general risks, profits, taxes (but excluding value-added tax), liabilities and obligations set forth or implied in the documents on which the Tender is based.
13. An amount or rate shall be entered against each item in the Bill of Quantities, whether or not quantities are stated. An item against which no amount or rate is entered will be considered to be covered by the other amounts or rates in the Bill.
14. The Tenderer shall also fill in a rate against the items where the words "rate only" appear in the amount column. Although no work is foreseen under these items and no quantities are consequently given in the quantity column, the tendered rates shall apply should work under these items actually be required.
15. Should the Tenderer group a number of items together and tender one sum for such group of items, the single tendered sum shall apply to that group of items and not to each individual item, or should he indicate against any item that full compensation for such item has been included in another item, the rate for the item included in another item shall be deemed to be nil.
16. The tendered rates, prices and sums shall, subject only to the provisions of the Conditions of Contract, remain valid irrespective of any change in the quantities during the execution of the Contract.
17. The quantities of work as measured and accepted and certified for payment in accordance with the Conditions of Contract, and not the quantities stated in the Bills of Quantities, will be used to determine payments to the Contractor. The validity of the Contract shall in no way be affected by differences between the quantities in the Bills of Quantities and the quantities certified for payment.
18. Ordering of materials are not to be based on the Bills of Quantities, but only on information issued for construction purposes. Any ordering of materials based on the Bills of Quantities are at the Contractor's risk

19. For the purposes of these Bills of Quantities, the following words shall have the meanings hereby assigned to them:

Unit:	The unit of measurement for each item of work as defined in the Standardized, Project or Particular Specifications
Quantity:	The number of units of work for each item
Rate:	The payment per unit of work at which the Tenderer tenders to do the work
Amount:	The quantity of an item multiplied by the tendered rate of the (same) item
Item:	An amount tendered for an item, the extent of which is described in the Bill of Quantities, the Specifications or elsewhere, but of which the quantity of work is not measured in units

20. The units of measurement indicated in the Bills of Quantities are metric units. The following abbreviations may appear in the Bill of Quantities:

mm	=	millimeter	m	=	meter
km	=	kilometer	m ²	=	square meter
m ³	=	cubic meter	kW	=	kilowatt
kg	=	kilogram	t	=	ton (1 000 kg)
%	=	per cent	PC Sum	=	Prime Cost Sum
Prov Sum	=	Provisional Sum			

21. GARDEN ROUTE DISTRICT MUNICIPALITY

TENDER NUMBER: GRDM/29/21-22

CONSTRUCTION OF NEW FIRE STATION

BILLS OF QUANTITIES (C2.2)

REFER TO ANNEXURE B ATTACHED TO THESE TENDER DOCUMENTS

FOR BILLS OF QUANTITIES CONSISTING OF THE FOLLOWING SECTIONS:

1. Preliminaries
 2. Building Work
 3. External Work
 4. Provisional Sums
- Final Summary

GARDEN ROUTE DISTRICT MUNICIPALITY

TENDER NUMBER: GRDM/29/21-22

CONSTRUCTION OF NEW FIRE STATION

Scope of Works (Part C3)

C 3.1 DESCRIPTION OF WORKS

The work comprises site preparation, excavation and construction of a new steel portal frame building to accommodate 4 large fire fighting vehicles as well as a double-storey face brick administration building with ablutions, stores, wash-bay, etc.

Electrical and HVAC installations as well as extensive paving and fencing are included.

The approximate area of building is 832m² and paving is approximately 2500 m²

The Bills of Quantities includes measurements for the complete "Ground Crew" building, which may or may not be included in the final construction, depending on availability of funds.

NB:

Tenderers to take notice of the minimum requirements for submission of a valid tender:

- *All returnable documents (refer checklist - Annex F)*

Amongst these are:

- *Attendance of compulsory site clarification meeting*
- *Proof of Relevant CIDB rating*
- *Functionality assessment documentation, including references of similar work previously done*
- *Annual Financial Statements*

GARDEN ROUTE DISTRICT MUNICIPALITY

TENDER NUMBER: GRDM/29/21-22

CONSTRUCTION OF NEW FIRE STATION

Site Information (Part C4)

The site is comprised of two adjoining erven located in Tamsui Industria, Steinhoff Park, George and consists of relatively flat ground, with some vegetation, approximately 5500m² in total area.

Access is gained to the site through security guarded gate with access control. Temporary hoarding is to be erected to screen off building activity from public access.

Contractor's Water and Electricity will be available during the construction phase, the Contractor to arrange with the George Municipality for connections

Provision for regular waste and building rubble removal to be arranged by the Contractor

Approved ablution facilities to be erected and maintained by the contractor on site during the entire construction period

Noise and dust control are to be maintained as to not interfere or be of nuisance to any neighboring property

GARDEN ROUTE DISTRICT MUNICIPALITY**TENDER NUMBER: GRDM/29/21-22****CONSTRUCTION OF NEW FIRE STATION****Drawings: (Part C5)****DRAWINGS**

Only relevant drawings for appraisal of tender purposes are attached.
A full set of drawings, details, door-, window and finishing schedules, Civil Engineering and Structural details and sections will be issued on award of the contract.

Architectural

G5211BA-Arc 001 – Plan layouts
G5211BA-Arc 002 – Building sections
G5211BA-Arc 003 – Building elevations
G5211BA-Arc 004 - Roof plans
G5211BA-Arc 005 – Site plan
G5211BA-Arc-006 - Window & door schedules

Civil Engineering

G5211BA-CE 001 – Civil services paving layout
G5211BA-CE 002 – Civil services layout
G5211BA-CE 003 – Civil services sections & details

Structural Engineering

G5211BA-SE 004 – Roof structural layouts

GARDEN ROUTE DISTRICT MUNICIPALITY

TENDER NUMBER: GRDM/29/21-22

CONSTRUCTION OF NEW FIRE STATION

Annexures: (Part C6)

A – JBCC CONTRACT DATA SCHEDULE (Returnable)

B – BILLS OF QUANTITIES (Returnable)

C - OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION

D – CONSTRUCTION SPECIFICATIONS

Civil Works

E – PERFORMANCE GUARANTEE (Pro Forma)

F – CHECKLIST OF DOCUMENTS TO BE SUBMITTED WITH TENDER

JBCC PRINCIPAL BUILDING AGREEMENT: CONTRACT DATA**A TENDER INFORMATION****A1 Project Name**

Garden Route District Municipality: Construction of New Fire Station

A2 Works Description

The work comprises the construction of a new Fire Station Building, consisting of offices, vehicle parking bays, wash bay, civil works, fencing, etc. Refer to Drawings and Bills of Quantities for further detail.

A3 Site Description

Erf No/Township	Erf 22494, Tamsui Industria, George
Local Authority	George Municipality
Street Address	

A4 Employer

Name	Garden Route District Municipality		
Business-eg: Public Company			
Business Registration Number		VAT/GST	
Contact Person		Mobile	
E-mail			
Registered Street Address			
Postal Address		Code	
Telephone		Fax	

A5 Quantity Surveyor

Name	ProQS Quantity Surveyors		
Practice registration number	2007/109122/23	VAT/GST	
Contact Person	EE Schoombie	Mobile	082 447 8213
E-mail	info@proqs.co.za		
Registered Street Address	Bateleur Park, cnr Cathedral & Cradock Street, George, 6529		
Postal Address	P O Box 9966, George	Code	6530
Telephone	044-873 0152	Fax	

A6	Agent	Architect		
	Name	Kantey & Templer Consulting Engineers		
	Practice Registration Number		VAT/GST	
	Contact Person	Nelius Aggenbag	Mobile	
	E-mail	neliusa@kanteys.co.za		
	Registered Street Address	Victoria Str, George		
	Postal Address		Code	
	Telephone		Fax	
A7	Agent	Consulting Structural Engineer		
	Name	Kantey & Templer Consulting Engineers		
	Practice Registration Number		VAT/GST	
	Contact Person	Nelius Aggenbag	Mobile	
	E-mail	neliusa@kanteys.co.za		
	Registered Street Address	Victoria Str, George		
	Postal Address		Code	
	Telephone		Fax	
A8	Agent	Electrical Engineer		
	Name	Clinkscales Maughan-Brown Consulting Mechanical and Electrical Engineers		
	Practice Registration Number		VAT/GST	
	Contact Person	Stiaan Adams	Mobile	
	E-mail			
	Registered Street Address	39 Victoria Str, George		
	Postal Address		Code	
	Telephone		Fax	
A9	Agent			
	Name			
	Practice Registration Number		VAT/GST	
	Contact Person		Mobile	
	E-mail			
	Registered Street Address			
	Postal Address		Code	
	Telephone		Fax	

B CONTRACT DATA

Clause references apply to the JBCC Principal Building Agreement Edition 6.2 (PBA) published May 2018

Only clauses in the PBA requiring the provision of information [CD] are quoted below

2.0 Law, Regulations and Notices

2.1/25.15 **Law** of the country applicable to the project

RSA

5.0 Contract Documents

5.1 Signed contract documents held by the principal agent, or

5.5 Number of copies of documents issued free to the contractor

-		
Two	2	copies

Priced Document

Lump sum priced document, or

Priced bills of quantities (BoQ)

System / method of measurement

yes/no?	no
yes/no?	yes

Standard System of Measuring Building Work (1999)

Contract Documents comprising.....

Description

Marked?

Notes

Refer to Tender Documents		

NOTE: If insufficient space, please see annexure:-	
--	--

Contract Drawings - description

Date

Marked

Number

Revision

See Annexure to Tender Document				

NOTE: If insufficient space, please see annexure:-	
--	--

6.0 Employer's Agents

6.3	Description of interests of agents in the project other than professional services, if applicable	-
-----	---	---

10.0 Insurances

By the **employer** in the joint names of the **parties**, yes/no?

no

Obligation

Currency

Insured amount

Contract Works Insurance (CWI) (including **materials and goods**, temporary works)

	<i>contract sum</i>
%	

Allowance for professional fees and escalation of the insured value at 25% pa, or ? %

Free issue material at new replacement value, added to CWI, where applicable

Employer owned surrounding property (care, custody, control or worked on)

Public Liability Insurance (each and every claim OR unlimited / value?)

Supplementary Insurance (incl CWI extensions)

Removal of Lateral Support Insurance

Other:

Policy Deductibles

- **Works / free issue**

- **Employer** owned surrounding properties

- Public Liability

- Supplementary Insurance

- Removal of Lateral Support

- Other:

employer

	<i>per CWI</i>

Currency

Amount

contractor

contractor

contractor

contractor

contractor

contractor

OR...

By the **contractor** in the joint names of the **parties**, yes/no?

yes

Currency

Insured amount

Contract Works Insurance (CWI) (including **materials and goods**, temporary works)

Allowance for professional fees and escalation of the insured value at 25% pa, or ? %

Free issue material at new replacement value

Public Liability Insurance (each and every claim OR unlimited for the period)

Supplementary Insurance (incl CWI extensions)

Policy Deductibles

Other:

	<i>contract sum</i>
%	25%
	-
	R 10 million
	<i>per CWI</i>

11.0 Security

11.1.1-5 The **contractor** shall provide a **Guarantee for Construction** to the employer > D11.2-3

yes/no?	Yes
---------	-----

12.0 Duties of the Parties = employer = site

9.2.7 Alterations & additions to existing premises?

No

12.1.2 Premises occupied - yes/no? - identify area?

no

12.1.3 Relevant natural features to be retained/relocated/removed

no

12.1.4	Areas the contractor may not occupy?	N/A
12.1.5	Utilities connections - location	To be located by the contractor on site
12.1.6	Statutory and/or notices to be complied with/by the contractor before possession if site can be given	As required by local authority
12.1.7	Possession of the site - intended date	Due date
12.1.12	Description of free issue by employer (attach separate page for multiple items)	N/A

NOTE: If insufficient space, please see annexure:-

14.0 Nominated Subcontractors

14.1.4	Specialisation	
14.1.4	Specialisation	
14.1.4	Specialisation	
14.1.4	Specialisation	
14.1.4	Specialisation	

NOTE: If insufficient space, please see annexure:-

16.0 Direct Contractors

Employer to define extent of work by a **direct contractor** (12.1.2)

16.1	Specialisation	
16.1	Specialisation	
16.1	Specialisation	

NOTE: If insufficient space, please see annexure:-

19/20/24 Practical Completion / Penalty for late Completion

Inspection= working days	Date for practical completion	Penalty Currency	Penalty amount per calendar day
5	21 Jul 23	R	R 3,000.00

19.0 Practical completion of the works as a whole

OR.... Only one option can apply!

19/20/24 **Practical completion** of the **works** in sections: 1

19/20/24 **Practical completion** of the **works** in sections: 2

19/20/24 **Practical completion** of the **works** in sections: 3

19/20/24 **Practical completion** of the **works** in sections: 4

19/20/24 **Practical completion** of the **works** in sections: 5

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

NOTE: If insufficient space, please see annexure:-

19.0 Practical Completion19.1.1 Items that do not have to be complete to achieve **practical completion**

--

NOTE: If insufficient space, please see annexure:-

19.1.1 Criteria to achieve **practical completion** (the BoQ may contain a more detailed description)

The Principal Agent shall inspect the works at appropriate intervals to give the contractor interpretations and direction on the standard of work and the state of completion of the works required of the contractor to achieve practical completion.

Practical Completion can not be achieved before an Occupancy Certificate has been issued by the relevant local authority.

--

NOTE: If insufficient space, please see annexure:-

25.0 Payment

25.0 Currency

25.2 Issue of regular payment certificates on

25.3.2 **Materials and goods off site** - paid subject to...

25.3.4/26.9.5 Contract price adjustment provisions

R			
date@month	25th	or.....day of week	
Guarantee for Advance Payment provided?			Yes
Method?	Not applicable		

NOTE: If insufficient space, please see annexure:-

30.0 Dispute Resolution

30.6.1 Alternative Dispute Resolution nominating body

-

Changes made to JBCC Documentation

N/A	
Note: The amendments contained herein or in the single referenced Annexure constitute the only amendments to the standard JBCC Agreement that will apply. No other amendments shall be of any force or affect	
NOTE: If insufficient space, please see annexure:-	

C TENDER CLOSING

Tender closing: date	03 Jun 22	Tender closing: time	11:00:00
Tender closing: place	Tender Box, Garden Route District Municipality. 54 York Street, George		
SUBMISSION ADDRESS	Tender Box, Garden Route District Municipality. 54 York Street, George		
Delivered in electronic format?	yes/no?	No	E-mail address
Alternate offer considered?	yes/no?	No	Only if original tender submitted
			yes/no? No

D TENDERER'S SELECTION (to be completed by the tenderer)

11.0 Securities

Obligation

11.1.2	Guarantee for Construction (variable)	If specified, contractor's choice	yes/no?	
11.1.3	or Guarantee for Construction (fixed)	If specified, contractor's choice	yes/no?	
11.1.4	Guarantee for Advance Payment	Provided by the contractor	yes/no?	
(where the contractor requests the employer to pay an advance for materials and goods)				
	Purpose		Currency	Amount
11.4	Guarantee for Payment	Provided by the employer	yes/no?	
			Currency	Amount

19.0 Contractor's holiday periods during the construction period?

Contractor's annual holiday period - year 1	from....	15 12 2022	until	10 01 2023
Contractor's other holiday period - year 1	from....		until	
Contractor's annual holiday period - year 2	from....		until	
Contractor's other holiday period - year 2	from....		until	
Contractor's annual holiday period - year 3	from....		until	
Contractor's other holiday period - year 3	from....		until	

NOTE: If insufficient space, please see annexure:-	
--	--

26.0 Payment / Adjustment of Preliminaries**Payment of Preliminaries**

Option A Assessed by **principal agent**, an amount pro rated to the value of the **works** executed in the same ratio as the **preliminaries** to the **contract sum**, (including **tax**); shall exclude the amount of **preliminaries**, all contingency sum(s) and any allowance for CPAP

Or ...

Or

Option B An amount agreed by the principal agent and the contractor in terms of the Bills of Quantities or the priced document to identify an initial establishment charge / monthly charge / and a final disestablishment charge

Where the **contractor** does not indicate option 'A' or option 'B' - option 'A' shall apply

Adjustment of preliminaries [26.9.4]

Option A For the adjustment of **preliminaries** both the **contract sum** and the **contract value** (including **tax**) shall exclude the amount of **preliminaries**, all contingency sum(s) and any provision for Cost Price Adjustment Provisions:-

- * An amount which shall not be varied
- * An amount varied in proportion to the **contract value** as compared to the **contract sum**
- * An amount varied in proportion to the **construction period** as compared to the initial **construction period** (excluding revisions to the **construction period** to which the **contractor** is not entitled) to adjustment of the **contract value** in terms of the **agreement**

The **contractor** shall provide a breakdown of charges (including **tax**) within 15 **working days** of the date of acceptance of tender and, where applicable, an apportionment of preliminaries per section

Where such information is not provided the following subdivision shall be deemed to apply

- * 10% of the amount shall not be varied
- * 15% varied in proportion of the **contract value** to the **contract sum**
- * 75% varied in proportion to the revised **construction period** compared to the initial **construction period** ...

Or ...

or

Option B The contractor shall within 15 **working days** of the date of possession of the **site** provide the **principal agent** with a detailed breakdown of **preliminaries** amounts for the **works** as a whole, or per **section** where applicable, including administrative and supervisory staff charges and for the use of **construction equipment** in terms of the **programme**

Where the **contractor** does not indicate option 'A' or option 'B' - option 'A' shall apply

Notes

- 1 By submission of this tender to the employer the tenderer offers and agrees to execute and complete the works and remedy any defects in conformity with the specification for the tender sum stated - to be paid in instalments as worked is completed
- 2 The tender shall remain in full legal force for forty five (45) **calendar days** from the closing date of the tender. The tenderer accepts liability for **damages** that may be suffered by the **employer** should the tender validity period not be honoured
- 3 The lowest or any offer will not necessarily be accepted by the **employer** - nor need reasons be given for such a decision
- 4 Any provision in this agreement that may confer any benefit or right in favour of any **subcontractor** shall be binding on the **parties and be capable of acceptance by such subcontractor at any time**
- 5 Annexures.....marked

A	
B	
C	

TENDER SUM COMPILATION

Tenderer's work excluding tax		Currency		amount	
Tax.....at percentage				amount	
Total TENDER SUM inclusive of tax				amount	
Tender sum in words					

.....
(print) TENDERER Capacity who, by its SIGNATURE warrants authority thereto Date Location

.....
WITNESS print name Capacity who, by its SIGNATURE warrants authority thereto Date Location

TENDERER'S DETAILS

Name			
Business-eg: Public Company			
Business Registration Number		VAT/GST	
Contact Person		Mobile	
E-mail			
Registered Street Address			
Postal Address		Code	
Telephone		Fax	

Tender No: GRDM/29-21-22

Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>PRELIMINARIES</u>			
	A: Contract			
	The JBCC Principal Building Agreement, version 6.2 (May 2018) will be effective for the Principal Building contractor on this project and will be taken to be incorporated herein. The tenderer is deemed to have referred to this document, the Contract Data and Pricing Instructions bound in the tender document before pricing this bill.			
1/1/1	Allow for all costs relating to clauses 1 to 30 of the contract	Item		
	B: Preliminaries			
	The JBCC Preliminaries, version 6.2 (May 2018) for use with the JBCC Principal Building Agreement, edition 6.2 (May 2018) is taken as to be incorporated in these bills of quantities			
1/1/2	Allow for all costs relating to clauses 1 to 12 of the Preliminaries document	Item		
	C: Model Preambles for Trades			
	The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities			
1/1/3	Allow for all costs relating to Model Preambles for Trades	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1 Preliminaries			

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

	Brought Forward		R
	D: Specific Preliminaries		
1/1/4	Allow for all cost relating to the Occupational Health and Safety Act applicable to this project, including: <ul style="list-style-type: none"> · Preparation of the contractor's site specific Health and Safety Plan and Safety File · Contractors initial and time related obligations in respect of the OHS Act and Construction Regulations · Appointment of competent Health and Safety compliance officer · Supply and maintenance for each worker SANS approved personal protective equipment and clothing (reflective vests, hard hats, footwear, gloves, eye and ear protection, masks, etc.) 	Item	
	E: Own requirements		
	<u>The Contractor is to allow for own expenses in the execution of this project:</u>		
1/1/5	All general overheads and operational costs	Item	
1/1/6	Storage and containers	Item	
1/1/7	Ablution facilities	Item	
1/1/8	Tools and equipment	Item	
1/1/9	Transport	Item	
1/1/10	Supervision	Item	
1/1/11	Insurance [JBCC Clause 10]	Item	
1/1/12	Security [JBCC Clause 11]	Item	
1/1/13	Administration	Item	
1/1/14	Site establishment	Item	
1/1/15	Site de-establishment	Item	
1/1/16	Setting out / land surveyor	Item	
1/1/17	Notice board	Item	
	Carried Forward		
	Section No. 1 PRELIMINARIES Bill No. 1 Preliminaries		R

New Fire Station for Garden Route District Municipality

-3-

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Excavations, Filling, etc.</u>			
	No provision is made for bulking in the quantities of excavations and filling and is to be included in the rate of each item			
	<u>Carting away of excavated material</u>			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material on to trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	<u>EXCAVATION, FILLING, ETC. OTHER THAN BULK</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2/1/1	Trenches	m3	318	
2/1/2	Bases	m3	147	
	<u>Extra over all excavations for carting away</u>			
2/1/3	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	131	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO</u>			
2/1/4	Backfilling to trenches, holes, etc.	m3	137	
2/1/5	Under floors, steps, pavings, etc.	m3	197	
	Carried Forward		R	
	Section No. 2 BUILDING WORK Bill No. 1 Earthworks			

Tender No: GRDM/29-21-22

Brought Forward			R
<u>Compaction of surfaces</u>			
Compaction of ground surface under floors etc including scarifying for a depth of 150mm, wetting, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO	m2	627	
Ditto, to foundation trenches and bases	m2	250	
<u>G7 Earth filling supplied by the contractor compacted to 95% Mod AASHTO density</u>			
Under floors, steps, pavings, etc.	m3	10	
Backfilling to trenches, holes, etc.	m3	197	
<u>Risk of collapse of excavations</u>			
Sides of trench and hole excavations not exceeding 1,5m deep	m2	973	
Ditto, exceeding 1,5m and not exceeding 3,5m deep	m2	152	
Carried Forward to Summary of Section No. 2			R
Section No. 2 BUILDING WORK Bill No. 1 Earthworks			

Annexure B - Bills of Quantities**Tender No: GRDM/29-21-22****New Fire Station for Garden Route District Municipality**

Item No	Quantity	Rate	Amount
<u>BILL NO. 2</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cost of tests</u>			
<p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent.</p>			
<u>Formwork</u>			
<p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p>			
<p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself</p>			
<p>Formwork to soffits of solid slabs etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p>			
<p>Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p>			
Carried Forward		R	
Section No. 2 BUILDING WORK Bill No. 2 Concrete, Formwork & Reinforcing			

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

Brought Forward				R
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>20MPa/19mm concrete</u>				
2/2/1	Bases	m3	33	
2/2/2	Strip footings	m3	45	
<u>REINFORCED CONCRETE</u>				
<u>20MPa/19mm concrete</u>				
2/2/3	Surface beds	m3	30	
<u>30MPa/19mm concrete</u>				
2/2/4	Surface beds	m3	66	
2/2/5	Ground beams	m3	3	
2/2/6	Columns in foundations	m3	3	
2/2/7	Columns in superstructure	m3	10	
<u>25MPa/19mm concrete</u>				
2/2/8	Slabs including beams and inverted beams	m3	62	
2/2/9	Sandwich beams, infill columns, etc.	m3	1	
2/2/10	Stairs including landings, beams and inverted beams	m3	2	
<u>TEST BLOCKS</u>				
2/2/11	Allow for making and testing 150 x 150 x 150mm concrete strength test cubes on specific request from engineer (six per set)	Sets	12	
<u>CONCRETE SUNDRIES</u>				
<u>Finishing top surfaces of concrete smooth with a power float</u>				
2/2/12	Surface beds, slabs, etc	m2	308	
Carried Forward				R
Section No. 2 BUILDING WORK Bill No. 2 Concrete, Formwork & Reinforcing				

Tender No: GRDM/29-21-22

	Brought Forward		R
	<u>Finishing top surfaces of concrete smooth with a wood float</u>		
2/2/13	Surface beds, slabs, etc.	m2	55
	<u>Concrete curing compound</u>		
2/2/14	Curing compound additive to concrete as per specialist specifications	m3	13
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>		
	<u>Rough formwork to sides</u>		
2/2/15	Square / rectangular columns with total height not exceeding 1,5m in foundations	m2	22
2/2/16	Ditto, with total height exceeding 1,5m and not exceeding 3,5m high in superstructure	m2	87
2/2/17	Ditto, with total height exceeding 3,5m and not exceeding 5m high in superstructure	m2	34
2/2/18	Ground beams	m2	19
2/2/19	Edge of surface beds not exceeding 300mm high or wide	m	32
2/2/20	Ditto, to suspended slabs	m	50
2/2/21	Ditto, to staircase steps	m	21
2/2/22	Sloping and stepped outer edges of stairs not exceeding 300mm high extreme	m	6
	<u>Rough formwork to soffits</u>		
2/2/23	Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 1,5m and not exceeding 3,5m high	m2	193
2/2/24	Sloping soffits of stairs	m2	7
	Carried Forward		R
	Section No. 2 BUILDING WORK Bill No. 2 Concrete, Formwork & Reinforcing		

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

		Brought Forward			R
		<u>Rough formwork to sides and soffits</u>			
2/2/25	Beams propped up exceeding 1,5m and not exceeding 3,5m high	m2	68		
2/2/26	Sandwich beams in 50mm wide wall cavity	m	61		
		<u>Boxing in rough formwork to form</u>			
2/2/27	115 x 170mm High horizontal projection to side of beam	m	15		
2/2/28	115 x 170mm High horizontal chamfer to side of beam	m	38		
		<u>REINFORCEMENT</u>			
		<u>High tensile steel reinforcement to structural concrete work including binding wire and labour in fixing of steel</u>			
2/2/29	All diameter bars	t	11.63		
		<u>Fabric reinforcement</u>			
2/2/30	Type 193 Mesh reinforcement in concrete surface beds with minimum 300mm overlaps including spacing blocks, binding wire, etc.	m2	281		
2/2/31	Type 245 Mesh reinforcement in concrete surface beds with minimum 300mm overlaps including spacing blocks, binding wire, etc.	m2	346		
		<u>MOVEMENT JOINTS ETC.</u>			
		<u>Isolation joints with 10mm "Jointex" or equal and approved joint filler between vertical concrete and brick surfaces including sealing top of joint with "ABE Dowcorning 888" or equal and approved sealer</u>			
2/2/32	10mm Joints not exceeding 300mm high or wide	m	275		
2/2/33	Ditto, 650mm high or wide	m	10		
		Carried Forward			R
	Section No. 2 BUILDING WORK Bill No. 2 Concrete, Formwork & Reinforcing				

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

		Brought Forward		
	<u>Saw cut joints in top of concrete including 6mm backing strip and "ABE Dowcorning 888" or equal and approved sealer</u>			
2/2/34	25 x 4mm Wide joints	m	108	
2/2/35	45 x 4mm Wide joints	m	122	
	<u>Horizontal joggle construction joints through concrete including cement slurry to one face</u>			
2/2/36	Surface beds not exceeding 300mmm thick	m	40	
	<u>Two layers 0,6mm galvanised steel plates with grease placed between layers placed between horizontal concrete and brick surfaces</u>			
2/2/37	115mm Wide sheets	m	110	
2/2/38	230mm Wide sheets	m	20	
2/2/39	280mm Wide sheets	m	18	

Carried Forward to Summary of Section No. 2

Section No. 2
BUILDING WORK
Bill No. 2
Concrete, Formwork & Reinforcing

R

R

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

Item No		Quantity	Rate	Amount
	<u>BILL NO. 3</u>			
	<u>MASONRY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Sizes in descriptions</u>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<u>Hollow walls etc.</u>			
	Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.			
	<u>FOUNDATIONS</u>			
	<u>Brickwork of NFX bricks in class I mortar</u>			
2/3/1	One bricks walls	m2	96	
2/3/2	280mm Hollow walls of two half brick skins with 50mm wide cavity filled with 20Mpa/19mm concrete	m2	177	
	<u>Brickwork reinforcement</u>			
2/3/3	75mm Wide reinforcement built in horizontally	m	353	
2/3/4	150mm Wide reinforcement built in horizontally	m	1 124	
	<u>SUPERSTRUCTURE</u>			
	<u>Brickwork of NFP bricks in class II mortar</u>			
2/3/5	Half brick walls	m2	388	
2/3/6	One brick walls	m2	80	
2/3/7	280mm Hollow walls of two half brick skins with 50mm wide cavity	m2	689	
	Carried Forward		R	
	Section No. 2 BUILDING WORK Bill No. 3 Masonry			

Annexure B - Bills of Quantities**Tender No: GRDM/29-21-22****New Fire Station for Garden Route District Municipality**

Brought Forward		
<u>BRICKWORK SUNDRIES</u>		
2/3/8	Splayed mortar fillet one course high in 50mm cavity	m 197
2/3/9	Closing 50mm cavity of hollow wall vertically with brickwork	m 115
<u>Brickwork reinforcement</u>		
2/3/10	75mm Wide reinforcement built in horizontally	m 4 648
2/3/11	150mm Wide reinforcement built in horizontally	m 179
2/3/12	400mm Long overall R8 G.M.S steel rods twice bent built into brickwork (Refer G5211BA-SE-002 Detail 2)	No 426
<u>Galvanised wire ties etc.</u>		
2/3/13	4mm Diameter double bent tie with both ends built into brickwork for walls with 50mm cavity	No 2 511
2/3/14	30 x 1,2mm Roof tie 1500mm long with one end built into brickwork and other end fixed to roof timber (Refer G5211BA-SE-002 Detail 2)	No 80
2/3/15	30 x 1,2mm Hoop iron tie 100mm long with one end built into brickwork and other end shot-pinned to concrete	No 103
2/3/16	Ditto, 200mm long	No 426
<u>Prestressed fabricated lintels</u>		
2/3/17	105 x 75mm Lintels	m 154
2/3/18	175 x 75mm Lintels	m 22

Carried Forward

Section No. 2
 BUILDING WORK
 Bill No. 3
 Masonry

R

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Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

Brought Forward			R
<u>FACE BRICKWORK</u>			
<u>"Golden Wheat Travertine" or equal and approved face bricks pointed with recessed horizontal and vertical joints</u>			
2/3/19	Extra over brickwork for face brickwork	m2	574
2/3/20	Extra over brickwork for brick-on-edge header course lintel	m	53
2/3/21	Half brick walls pointed on one side (linings to concrete columns, slabs, etc.)	m2	59
2/3/22	280mm Brick walls pointed on both sides	m2	14
2/3/23	20mm Thick facebrick tile 170mm high fixed to side of concrete beams	m	15
2/3/24	150mm Wide sill set sloping and slightly projecting	m	41
Carried Forward to Summary of Section No. 2			R
Section No. 2			
BUILDING WORK			
Bill No. 3			
Masonry			

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

Item No		Quantity	Rate	Amount
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer 375 micron "Consol Plastics Brikgrip DPC" or equal and approved damp proof course</u>			
2/4/1	In walls	m2	178	
	<u>One layer 250 micron "Consol Plastics Gunplas USB Green" or equal and approved waterproof sheeting sealed at laps with pressure sensitive tape</u>			
2/4/2	Under surface beds	m2	627	
	<u>"ABE" or equal and approved waterproofing including "Abeproof Acrylic Primer" and two coats "Abeproof Acrylic Membrane" waterproofing</u>			
2/4/3	On door sills	m2	2	
	<u>"ABE" or equal and approved waterproofing including three coats "Duraflex" with one "Ecofelt" membrane saturated into second coat</u>			
2/4/4	On shower walls and floors	m2	31	
	<u>"ABE Flintkote" or equal and approved waterproofing</u>			
2/4/5	On sides of concrete beams	m2	13	
	<u>WATERPROOFING TO FOUNDATION WALLS</u>			
	<u>"ABE Flintkote" or equal and approved waterproofing</u>			
2/4/6	On foundation walls	m2	25	
	<u>JOINT SEALANTS ETC.</u>			
	<u>Silicone sealing compound including backing cord, bond breaker, primer, etc.</u>			
2/4/7	Around external windows and doors	m	157	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2			
	BUILDING WORK			
	Bill No. 4			
	Waterproofing			

Tender No: GRDM/29-21-22

Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>ROOF STRUCTURE</u>			
	<u>TIMBER ROOF STRUCTURE</u>			
	Any dimensions given in these Bills of Quantities for tender purposes are nominal and actual measurements are to be obtained from the architect and/or the site before design or fabrication commences. The contractor is responsible for the design of the roof construction which shall be done by a registered professional engineer and the contractor must include all design costs in his pricing. The contractor shall submit all data sheets to the engineer prior to fabrication. The contractor must allow for all necessary bracing, stiffeners, runners, temporary runners, fixing brackets, etc.			
	<u>Design, supply and installation of SA Pine roof trusses inclusive of all bracing timbers, wall plates, rafters, timber trimmers, etc. (brandering and battens elsewhere)</u>			
2/5/1	Timber roof over Ground Crew Building (Type A Roof)	Item		
2/5/2	Timber roof over Admin Building (Type A Roof)	Item		
	<u>SUNDRY TIMBER</u>			
	<u>Grade 5. S.A Pine timber trimmers fixed to steel structure (note: Timber trimmers to timber roof structures to be included under the relevant item for the complete roof structure installation)</u>			
2/5/3	38 x 150mm Timber trimmer fixed to end of steel purlins	m	31	
	Carried Forward		R	
	Section No. 2 BUILDING WORK Bill No. 5 Roof Structure			

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

Brought Forward

R

SHEET METAL ROOF COVERING

Concealed fix Saflok 410 profile or equal and approved sheeting in continuous lengths from Aluminium Zinc AZ150 coated steel grade G550, 0.53mm TCT with Colorplus (colour "Charcoal/Slate") finish one side and standard backing coat to other, fixed to and including all fasteners/clips in strict accordance with manufacturers specifications installed by approved contractor. A written and approved five-year guarantee of water tightness shall be issued after approval of roofs by the manufacturer:

2/5/4	Roof sheeting with pitch not exceeding 25 degrees, fixed to and including 50x76mm grade 5 SA Pine battens spaced at maximum 1000mm centres (Roof Type A)	m2	431
2/5/5	Roof sheeting with pitch not exceeding 25 degrees, fixed to steel purlins (measured elsewhere) (Roof Type B & D)	m2	466
2/5/6	Side/vertical cladding, fixed to steel purlins (measured elsewhere) (Roof Type B)	m2	23
2/5/7	Ridge flashing 660mm girth including F10 fixing brackets (Roof Type B & D)	m	22
2/5/8	Sidewall flashing 462mm girth including counter flashing 185mm girth and F10 brackets (Roof Type B)	m	18
2/5/9	Sidewall/barge flashing 462mm girth including F10 brackets (Roof Type A, B & D)	m	68
2/5/10	Apex flashing 660mm girth (Roof Type A & D)	m	47
2/5/11	Drip flashing 231mm girth (Roof Type B)	m	17
2/5/12	Polycloser (Roof Type A, B & D)	m	70
2/5/13	Broad flute closer (Roof Type A, B & D)	m	70

Carried Forward

R

Section No. 2
BUILDING WORK
Bill No. 5
Roof Structure

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

Brought Forward			R
<u>ROOF INSULATION</u>			
<u>"Saferm 202FR" or equal and approved reflective aluminium radiant barrier</u>			
2/5/14	Insulation laid taut over purlins and fixed concurrent with roof covering including galvanised steel straining wires	m2	431
<u>EAVES, VERGES, FASCIAS, ETC.</u>			
<u>"Everite" medium density plain ungrooved "Nutec" fascia boards fixed to end of rafters</u>			
2/5/15	225 x 12mm Thick boards including galvanized steel H-profile jointing strips fixed to timber rafters	m	114
2/5/16	300 x 12mm Thick boards including galvanized steel H-profile jointing strips fixed to steel rafters	m	56
<u>RAINWATER DISPOSAL</u>			
<u>"Ogee" or equal and approved profiled pre-coated aluminium seamless gutters internally sealed with Silicon Mastic and hung to fascia boards (fascias measured elsewhere)</u>			
2/5/17	150 x 125 x 0,6mm Gutters	m	103
2/5/18	Extra over eaves gutter for stopped end	No	10
2/5/19	Extra over eaves gutter for outlet for 100 x 75 x 0,6mm pipe	No	21
2/5/20	100 x 75 x 0,6mm Rainwater downpipes	m	119
2/5/21	Extra over rainwater pipe for shoe	No	21
2/5/22	Extra over rainwater pipe for eaves or plinth offset 650mm projection	No	21
Carried Forward to Summary of Section No. 2			R
Section No. 2 BUILDING WORK Bill No. 5 Roof Structure			

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Joinery:</u>			
	Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc.			
	Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	<u>TIMBER DOORS</u>			
	<u>40mm Thick semi-solid core flush panel doors hung to timber frames (elsewhere)</u>			
2/6/1	Single door to fit 900 x 2125mm high opening (D2,D3)	No	27	
2/6/2	Single door to fit 900 x 2125mm high opening, undercut door with 100mm for ventilation (D4)	No	11	
	<u>TIMBER DOOR FRAMES</u>			
	<u>Meranti or equal and approved hardwood door frames</u>			
2/6/3	70 x 70mm Rebated frame with quadrant surround for single door opening 900 x 2125mm high (D2,D3,D4)	No	38	
	<u>FIRE DOORS AND FRAMES</u>			
	<u>"Allandel" or equal and approved fire doors installed including approved frame and fire rated hinges</u>			
2/6/4	Class A single fire door 900 x 2125mm high including approved rebated steel frame for 280mm brick wall and preparing frame for door closer and lock (D5)	No	3	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2			
	BUILDING WORK			
	Bill No. 6			
	Carpentry & Joinery			

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

Item No		Quantity	Rate	Amount
	<u>BILL NO. 7</u>			
	<u>CEILINGS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions:</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere			
	<u>NAILED-UP CEILINGS</u>			
	<u>6,4mm Gypsum "Rhinoboard" or equal and approved ceilings with 63mm wide strips of mesh scrim nailed over joints and left smooth</u>			
2/7/1	Ceilings including 38 x 38mm sawn softwood branderling at 400mm centres installed below timber trusses	m2	258	
2/7/2	Extra over ceiling for 650 x 650mm trap door of 38 x 38mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	2	
	<u>6mm "Everite Nutec" or equal and approved fibre-cement boards in eaves including 30 x 15mm timber cover strips</u>			
2/7/3	Ceilings including 38 x 38mm sawn softwood branderling at 450mm centres installed sloping in eaves	m2	89	
	<u>"Isoboard" or equal and approved ceilings</u>			
2/7/4	30mm Thick sheets fitted to top of steel purlins (elsewhere) as per manufacturer's specification	m2	336	
	Carried Forward			
	Section No. 2 BUILDING WORK Bill No. 7 Ceilings		R	

Annexure B - Bills of Quantities**Tender No: GRDM/29-21-22****New Fire Station for Garden Route District Municipality**

Brought Forward			R
<u>"Saferm" or equal approved polyester fibre blanket</u>			
2/7/5	100mm Thick insulation with density of 10kg/m3 closely fitted and laid on top of brandering between roof timbers	m2	258
<u>Polystyrene cornices</u>			
2/7/6	Moulded cornice glued to walls	m	568
Carried Forward to Summary of Section No. 2			R
Section No. 2			
BUILDING WORK			
Bill No. 7			
Ceilings			

Annexure B - Bills of Quantities

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New Fire Station for Garden Route District Municipality

Item No		Quantity	Rate	Amount
	<u>BILL NO. 8</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Finishes to ironmongery</u>			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: CH Chromium plated SC Satin chromium plated SS Stainless steel			
	<u>"QS" or equal and approved hinges</u>			
2/8/1	100 x 76mm SS hinges (QS4417BB)	No	123	
	<u>"QS" or equal and approved door handles</u>			
2/8/2	Kiruna SS handle on 170 x 170mm SS backplate with cut-out for cylinder	No	82	
	<u>"QS" or equal and approved door locks and cylinders</u>			
2/8/3	SS mortice latch lock & deadbolt (QS5757/1)	No	41	
2/8/4	Door cylinder (QS1104SN/GMKD)	No	38	
2/8/5	SS coin release WC thumb turn (QS4410)	No	11	
	<u>"QS" or equal and approved door stops</u>			
2/8/6	SS domed door stop (QS4422)	No	41	
	<u>"QS" or equal and approved door closers</u>			
2/8/7	Door closer (QS750)	No	3	
	Carried Forward to Summary of Section No. 2			
	Section No. 2 BUILDING WORK Bill No. 8 Ironmongery			
			R	

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

Item No			Quantity	Rate	Amount
	<u>BILL NO. 9</u>				
	<u>METALWORK</u>				
	<u>FIRE RATED STEEL WINDOWS</u>				
	<u>Purpose made powdercoated window made up from 50 x 50 x 4mm galvanised steel hollow section frame and 30 x 5mm flanges glazed with 6mm "Pyran S" or equal and approved fire rated glass including ironmongery as per drawings and plugged to brickwork or concrete (Colour: Charcoal 543)</u>				
2/9/1	Window size 600 x 600mm high (W4)	No	1		
2/9/2	Window size 3000 x 700mm high (W5)	No	1		
2/9/3	Window size 1800 x 600mm high (W7) (Obscured glass)	No	3		
2/9/4	Window size 2000 x 1125mm high (W8)	No	1		
2/9/5	Window size 1200 x 1200mm high (W9)	No	1		
	<u>ALUMINIUM WINDOWS</u>				
	<u>Note: ALL opening sections to aluminium windows are to receive 10 x 10mm flat burglar bars in one direction not exceeding 150mm c/c</u>				
	<u>"Wispeco Clip 44" or equal and approved powdercoated aluminium windows glazed with 6mmmm SolarVue glass including ironmongery as per drawings and plugged to brickwork or concrete (Colour: Charcoal 543)</u>				
2/9/6	Window size 1200 x 1200mm high (W1)	No	17		
2/9/7	Window size 600 x 1800mm high (W2)	No	2		
2/9/8	Window size 600 x 600mm high (W3) (Obscured glass)	No	15		
2/9/9	Window size 600 x 300mm high (W6) (Obscured glass)	No	4		
	Carried Forward			R	
	Section No. 2 BUILDING WORK Bill No. 9 Metalwork				

Annexure B - Bills of Quantities
Tender No: GRDM/29-21-22
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		Brought Forward		R
2/9/10	Window size 1200 x 600mm high (W10)	No	1	
2/9/11	Window size 1800 x 600mm high (W11)	No	4	
	<u>ALUMINIUM DOORS</u>			
	<u>Powdercoated aluminium doors and frames made up from "Wispeco Clip 44B" or equal and approved shopfront sections, 90mm stiles and 150mm top- & bottom plates, glazed with 6mm SolarVue PVB safety glass including ironmongery as per drawings and plugged to brickwork or concrete (Colour: Charcoal 543)</u>			
2/9/12	Door and frame size 2330 x 2125mm high (D1)	No	1	
	<u>Powdercoated aluminium door and frames made up from "Wispeco Clip 44B" or equal and approved shopfront sections, 90mm stiles and 150mm top- & bottom plates, glazed with 6mm laminated safety glass including ironmongery as per drawings and plugged to brickwork or concrete (Colour: Charcoal 543)</u>			
2/9/13	Door and frame size 1600 x 2125mm high (D6)	No	3	
	<u>STEEL ROLLER SHUTTERS ETC</u>			
	<u>Purpose made powdercoated aluminium / Panoramic sectional overhead door including automation mechanism, door guides, etc. glazed with 6mm laminated safety glass</u>			
2/9/14	Electrically operated sectional overhead door for 4000 x 4000mm high opening with two remote openers and push-button opener fixed to wall (D8)	No	8	
	<u>Purpose made powdercoated aluminium roller shutter door with push-pull mechanism, door guides, lock, etc.</u>			
2/9/15	Manually operated roller shutter door for opening 4000 x 2125mm high (D7)	No	1	
	Carried Forward			R
	Section No. 2 BUILDING WORK Bill No. 9 Metalwork			

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

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Brought Forward			R
<u>LOUVRES</u>			
<u>"Trox AWR" or equal and approved powdercoated louvres fixed to steel beams (Colour: Charcoal)</u>			
2/9/16	Louvre size 2000 x 800mm high	No	2
<u>STAINLESS STEEL</u>			
<u>Grade 304 stainless steel sliding pole</u>			
2/9/17	Purpose made 75mm diameter x 4mm thick C.H.S sliding pole 5000mm long with 200 x 200 x 12mm baseplate fixed with 4 x 12mm chemical anchors to 30Mpa non shrink grout and top of pole fixed with 3 x 75mm diameter x 4,5mm struts with 230 x 230 x 12mm flat welded to each strut and bolted to concrete with 4 x M16 chemical anchors (Refer G5211BA-SE-002 & 003)	Item	
<u>Grade 304 stainless steel balustrading</u>			
2/9/18	Raking balustrading to staircase of 3mm x 50mm diameter continuous top rail, 8 x 3mm x 16mm diameter continuous intermediate balusters and 3mm x 50mm diameter posts 1180mm high at approximately 900mm centres with 3mm x 16mm rods fixed to top of post and to top rail. Each post closed with 5mm closer plate to bottom and fixed with 100mm x 10mm flat stanchion and 200mm x 200mm x 8mm backing plate bolted to concrete with 4 x M10 chemical anchors (Refer G5211BA-ARC-001)	m	6
2/9/19	Ditto, fixed horizontally to walkway	m	2
2/9/20	900 x 1100mm High of 3mm x 50mm diameter surround continuous frame, 8 x 3mm x 16mm diameter continuous intermediate balusters and fixed with 2 x 100mm x 10mm flat stanchion hinges and 200mm x 200mm x 8mm backing plate bolted to concrete with 4 x M10 chemical anchors. Gate to have self-closing mechanism	No	1
Carried Forward			R
Section No. 2 BUILDING WORK Bill No. 9 Metalwork			

Annexure B - Bills of Quantities

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New Fire Station for Garden Route District Municipality

Brought Forward

R

BLINDS

25mm Wide aluminium horizontal venetian blinds
0.21mm thick including standard opening equipment
(Colour: Charcoal)

2/9/21	Blinds for window size 1200 x 1200mm high (W1)	No	17
2/9/22	Blinds for window size 600 x 1800mm high (W2)	No	2
2/9/23	Blinds for window size 600 x 600mm high (W4)	No	1
2/9/24	Blinds for window size 3000 x 700mm high (W5)	No	1
2/9/25	Blinds for window size 1800 x 600mm high (W7)	No	3
2/9/26	Blinds for window size 2000 x 1125mm high (W8)	No	1
2/9/27	Blinds for window size 1200 x 1200mm high (W9)	No	1
2/9/28	Blinds for window size 1200 x 600mm high (W10)	No	1
2/9/29	Blinds for window size 1800 x 600mm high (W11)	No	4

Carried Forward to Summary of Section No. 2

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Section No. 2
 BUILDING WORK
 Bill No. 9
 Metalwork

Annexure B - Bills of Quantities

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New Fire Station for Garden Route District Municipality

Item No		Quantity	Rate	Amount
	<u>BILL NO. 10</u>			
	<u>STRUCTURAL STEEL</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete			
	<u>STEEL TRUSSES, ROOFS, COLUMNS, ETC</u>			
	<u>Galvanized steel roof truss members in single lengths welded / bolted together</u>			
2/10/1	70 x 70 x 6mm L-shape diagonal / upright cords	t	1.38	
2/10/2	80 x 80 x 6mm L-shape top cords	t	0.78	
2/10/3	90 x 90 x 8mm L-shape bottom cords	t	0.98	
2/10/4	200 x 100 x 22.4 (IPE200) I-section beam rafters with splayed ends	t	0.44	
2/10/5	254 x 146 x 37 I-section columns	t	0.94	
	<u>Galvanized steel purlins, girts, bracing, etc. welded / bolted to steel</u>			
2/10/6	125 x 50 x 20 x 2.5 CFLC Purlins	t	1.37	
2/10/7	150 x 50 x 20 x 2.5 CFLC Purlins	t	0.46	
2/10/8	150 x 65 x 20 x 2.5 CFLC Purlins	t	0.38	
2/10/9	50 x 50 x 3 L-shaped sag bars	t	0.22	
	Carried Forward		R	
	Section No. 2 BUILDING WORK Bill No. 10 Structural Steel			

Annexure B - Bills of Quantities
Tender No: GRDM/29-21-22
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	Brought Forward			R
2/10/10	60 x 60 x 5 L-shape horizontal cross bracing	t	0.59	
2/10/11	90 x 65 x 6 L-shape bottom cord stiffeners	t	0.58	
2/10/12	50 x 50 x 3 x 80mm Long L-shaped cleat with 2 x 16mm holes welded to steel	No	70	
2/10/13	90 x 65 x 6 x 90mm Long L-shaped cleat with 2 x 16mm holes welded to steel	No	4	
2/10/14	100 x 70 x 8 Stiffener welded to steel	No	24	
2/10/15	125 x 75 x 8 x 280mm Long L-shaped cleat with 4 x 18mm holes welded to steel (Refer Detail 1- G5211BA-SE-004)	No	84	
2/10/16	150 x 130 x 3mm End plate welded to truss end and bolted to steel (Refer Detail 5- G5211BA-SE-004)	No	12	
2/10/17	280 x 300 x 16mm Baseplate with 2 x 22mm diameter x 10mm slotted holes	No	15	
2/10/18	300 x 300 x 16mm Baseplate with 4 x 22mm diameter holes	No	6	
2/10/19	550 x 160 x 12mm End plate welded to column & bolted to rafter including haunch cut from column section (Refer Detail 3- G5211BA-SE-004)	No	6	
	<u>Bolts to columns, beams, etc.</u>			
2/10/20	High tensile bolts	t	0.15	
2/10/21	M16 Chemical anchors fixed with Hilti Hithy 170	No	8	
2/10/22	20mm U-bolt 460mm long cast into concrete	No	15	
2/10/23	M20 holding down bolt 600mm long with 80 x 80 x 16mm flat welded to bottom and 80 threaded M16 top with 60 x 60 x 8mm washer and welded into steel cage and cast in concrete (Refer detail on G5211BA-SE-001)	No	24	
	Carried Forward			R
	Section No. 2 BUILDING WORK Bill No. 10 Structural Steel			

Annexure B - Bills of Quantities**Tender No: GRDM/29-21-22****New Fire Station for Garden Route District Municipality**

Brought Forward			R
<u>SUNDRIES</u>			
<u>General</u>			
2/10/24	Hoisting / placing materials in position by means of crane of other suitable method	Item	
2/10/25	Preparation of workshop drawings for all structural steel work to the approval of the structural engineer	Item	
<u>25MPa non-shrink grout</u>			
2/10/26	Bedding approximately 30mm thick under 280 x 300mm base plate including chamfered edges all round	No 21	
Carried Forward to Summary of Section No. 2			R
Section No. 2			
BUILDING WORK			
Bill No. 10			
Structural Steel			

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

Item No		Quantity	Rate	Amount
	<u>BILL NO. 11</u>			
	<u>PLASTERING</u>			
	<u>SCREEDS</u>			
	<u>Cement plaster screeds steel trowelled on concrete</u>			
2/11/1	20mm Thick on treads and risers	m2	9	
2/11/2	35mm Thick on floors and landings	m2	429	
2/11/3	Average 50mm Thick to falls	m2	5	
	<u>GRANOLITHIC</u>			
	<u>Untinted granolithic on concrete</u>			
2/11/4	35mm Thick on floors and landings	m2	46	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork</u>			
2/11/5	On walls	m2	1 738	
2/11/6	On narrow widths	m2	68	
	<u>"RhinoLite" or equal and approved skim plaster</u>			
2/11/7	On soffits of slab	m2	205	
2/11/8	On beams	m2	19	
2/11/9	On columns	m2	64	
	<u>EXTERNAL PLASTER</u>			
	<u>"TER1100 Plascon Handycoat" or equal and approved exterior skim coat as per manufacturer's specifications</u>			
2/11/10	On columns	m2	2	
2/11/11	On beams	m2	13	
	Carried Forward to Summary of Section No. 2			
	Section No. 2			
	BUILDING WORK			
	Bill No. 11			
	Plastering			
			R	

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Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

Item No		Quantity	Rate	Amount
	<u>BILL NO. 13</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	<u>SANITARY FITTINGS</u>			
	<u>"Duravit" or equal and approved</u>			
2/13/1	"Duravit Dune" undercounter basin (BAS DUR D43956)	No	10	
	<u>"Vaal" or equal and approved</u>			
2/13/2	Quartz close coupled 90° outlet closed rim wash-down pan (code 772800) and matching 6 litre pushbutton top dual flush cistern, complete with lid, fitments and quality wooden seat (VAA-771363WH)	No	11	
2/13/3	"Vaal Sweetpea" wall hung urinal with top inlet (code 705126) and top inlet fittings (code 7054Z0) including a 38mm chrome plated domical grating, a spreader (with a 20mm diameter thread), and two hanger brackets	No	3	
2/13/4	"Vaal Pearl" paraplegic suite WC including pan, cistern and seat (7300SC)	No	1	
	<u>"Franke" or equal and approved</u>			
2/13/5	Stainless Steel kitchen sink (QLX621-120)	No	3	
	<u>"Geberit" or equal and approved</u>			
2/13/6	"Geberit Selnova 550 x 440 x 175 basin (GEB-500.322.01.1)	No	1	
	<u>TAPS, VALVES, ETC</u>			
	<u>"Hansgrohe" or equal and approved</u>			
2/13/7	"Hansgrohe Talis E" wall mounted basin mixer (71734000)	No	10	
2/13/8	"Hansgrohe Talis E" single lever shower mixer (71766000)	No	4	
2/13/9	"Hansgrohe Talis S2 Allegra Variance" sink mixer (14863003)	No	3	
	Carried Forward		R	
	Section No. 2 BUILDING WORK Bill No. 13 Plumbing and Drainage			

Tender No: GRDM/29-21-22

Brought Forward			R
<u>"Cobra" or equal and approved</u>			
Elbow action pillar cold water tap (503-21B)	No	1	
<u>"Benkiser" or equal and approved</u>			
15 x 15mm Angle valve (5188)	No	42	
<u>WASTE UNIONS ETC</u>			
<u>"Cobra" or equal and approved</u>			
"Cobra Aqua" Pop-up unslotted basin waste (COB-318-40)	No	11	
"Cobra" sink waste (317)	No	3	
<u>TRAPS ETC</u>			
<u>"Cobra" or equal and approved</u>			
Chrome plated bottle trap (COB-340)	No	11	
32mm PVC basin P-trap (DU.DB1A)	No	3	
<u>"ISM" or equal and approved</u>			
DI Bella Shower Trap Square	No	4	
<u>SANITARY ACCESSORIES</u>			
<u>"Bathroom Butler" or equal and approved</u>			
Polished stainless steel double robe hook (4611)	No	11	
<u>"Liquid Red" or equal and approved</u>			
"Liquid Red Lavish" toilet paper holder (BALR2301CHRM)	No	11	
<u>"Bidbest Steiner" or equal and approved</u>			
"Bidvest Steiner Stylish Range" liquid dispenser (Liquid Dispenser-2)	No	7	
"Bidvest Steiner Stylish Range" multifold paper towel cabinet (Paper Towel Cabinet Multifold-2)	No	7	
Carried Forward			R
Section No. 2 BUILDING WORK Bill No. 13 Plumbing and Drainage			

Tender No: GRDM/29-21-22

Brought Forward			R
<u>"Franke" or equal and approved</u>			
Stainless steel grab rail CNTX300	No	1	
Stainless steel grab rail CNTX750	No	1	
Stainless steel grab rail CNTX PAR	No	1	
<u>"Blutide" or equal and approved</u>			
400mm Shower arm (ARM SHO BLU2440) with 250mm round chrome shower rose (ROS SHO BLU3600	No	4	
<u>WATER SUPPLY AND WASTE WATER PIPE SYSTEM</u>			
<u>Note :</u>			
Water supply and waste water is measured in detail from municipal connection to entry/exit point in the building elsewhere in the document. The price for water supply and waste water points must allow for piping and fittings from the building entry/exit point to each sanitary fitting.			
<u>Labour and material, including uPVC pipes, fittings, etc. including chasing of pipes where necessary in internal drainage system</u>			
<u>Waste water drainage for:</u>			
WHB (50mm pipe)	No	11	
Sink (50mm pipe)	No	3	
Shower (50mm pipe)	No	4	
Urinal (50mm pipe)	No	3	
WC (110mm pipe)	No	12	
Carried Forward			R
Section No. 2 BUILDING WORK Bill No. 13 Plumbing and Drainage			

Annexure B - Bills of Quantities

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New Fire Station for Garden Route District Municipality

Brought Forward				R
<u>Labour and material, including Class II copper pipes fittings, etc. including chasing of pipes where necessary in internal water supply system</u>				
<u>Hot and Cold water points (Note: all hot water pipes to be insulated with "Armaflex" or equal and approved pipe insulation</u>				
2/13/30	WHB (15mm pipe)	No	11	
2/13/31	Sink (15mm pipe)	No	3	
2/13/32	Shower (22mm pipe)	No	4	
<u>Cold water points only</u>				
2/13/33	WC (15mm pipe)	No	12	
2/13/34	Urinal (15mm pipe)	No	3	
<u>Testing</u>				
2/13/35	Testing water and waste water pipe systems		Item	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
BUILDING WORK				
Bill No. 13				
Plumbing and Drainage				

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

Item No			Quantity	Rate	Amount
	<u>BILL NO. 14</u>				
	<u>GLAZING</u>				
	<u>MIRRORS</u>				
	<u>5mm Silvered float glass copper backed mirrors with bevelled edges, holed for and fixed with chromium plated dome capped mirrors screws and rubber buffers to plugs in brickwork</u>				
2/14/1	450 x 900mm high	No	10		
	<u>SHOWER DOORS</u>				
	<u>"CrystelTech" or equal and approved shower door with clear toughened safety glass fixed to brickwork</u>				
2/14/2	1000-1200 x 1850mm High shower door (CTSHPS904)	No	4		
	Carried Forward to Summary of Section No. 2				
	Section No. 2 BUILDING WORK Bill No. 14 Glazing				R

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

Item No		Quantity	Rate	Amount
	<u>BILL NO. 15</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	All preparation and painting to be done in strict accordance with the paint manufacturer's specifications and directions.			
	The contractor is to take the necessary steps to obtain a guarantee from the paint manufacturer. Therefore, before any paintwork commences, the contractor is to obtain written approval from the paint manufacturer that the specification of paint is adequate to obtain the guarantee, or alternatively provide an alternative specification along with pricing for the Principal Agent to consider.			
	100ml Anit-fungicidal additive is to be added to each 5l of topcoat			
	<u>ON FLOATED PLASTER</u>			
	<u>Prepare surface, one coat "Plascon PP700" alkali resistant primer and two coats "Plascon Velvaglo Satin VLO/TVG tint range" or equivalent approved paint</u>			
2/15/1	On internal walls	m2	1 464	
2/15/2	On internal walls not exceeding 300mm wide	m	264	
	<u>Prepare surface, one coat "Plascon PP700" alkali resistant primer and two coats "Plascon PEM1000/TLS tint range" or equivalent approved paint</u>			
2/15/3	On external beams	m2	13	
	Carried Forward		R	
	Section No. 2 BUILDING WORK Bill No. 15 Paintwork			

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

Brought Forward			R
<u>ON PLASTER BOARD</u>			
<u>Prepare surface, one coat "Plascon PP700" alkali resistant primer and two coats "Plascon PEM600/TCP tint range" or equivalent approved paint</u>			
2/15/4	On ceilings	m2	798
<u>ON FIBRE CEMENT</u>			
<u>Prepare surface, one coat "Plascon PP700" alkali resistant primer and two coats "Plascon PEM1000/TLS tint range" or equivalent approved paint</u>			
2/15/5	On external ceilings	m2	89
2/15/6	On fascias, barges, etc. not exceeding 300 mm girth	m	171
<u>ON WOOD</u>			
<u>Prepare surface, one coat "Plascon UC2" wood primer, one coat "Plascon UC1" universal undercoat and two coats "Plascon PEM1000/TLS tint range" or equivalent approved paint</u>			
2/15/7	On doors	m2	163
2/15/8	On door frames	m2	43
2/15/9	On timber roof members not exceeding 300 mm girth	m	92
<u>ON METAL</u>			
<u>Prepare surface and remove all loose or flaking material, ensure surface is dry and dust free and apply one coat Plascon Metalcare Galvanised Iron Primer (GIP1) and two coats Plascon Velvaglo Satin (VLO/TVG)</u>			
2/15/10	On roof members not exceeding 300 mm girth	m	12
2/15/11	On door frames	m2	11
Carried Forward to Summary of Section No. 2			R
Section No. 2 BUILDING WORK Bill No. 15 Paintwork			

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Carried to Final Summary

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Annexure B - Bills of Quantities

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SANS Pay Ref	Item No		Unit	Quantity	Rate	Amount
		<u>BILL NO. 2</u>				
SANS 1200		<u>PIPE TRENCHES</u>				
		<u>EXCAVATION</u>				
8.3.2(a)		<u>Excavate in all materials for trenches backfill, compact, and dispose of surplus/ unsuitable material, for pipes:</u>				
		<u>(i) Up to 200 mm diam. for total trench depth (water pipes):</u>				
	3/2/1	Exceeding 0,0m but not exceeding 1,0m	m	190		
	3/2/2	Exceeding 1,0m but not exceeding 1,5m	m			Rate Only
		<u>(iii) Exceeding 375mm and up to 450 mm diam. for total trench depth (stormwater):</u>				
	3/2/3	Exceeding 0,0m but not exceeding 1,0m	m	6		
	3/2/4	Exceeding 1,0m but not exceeding 2,0m	m			Rate Only
		<u>(v) Up to 160 mm diam. for total trench depth (Sewer pipes):</u>				
	3/2/5	Exceeding 0,0m but not exceeding 1,0m	m			Rate Only
	3/2/6	Exceeding 1,0m but not exceeding 2,0m	m	196		
		<u>Excavate in all materials for trenches and dispose of surplus/unsuitable material, backfilling top section of trench and compaction for total trench depth (Electrical):</u>				
	3/2/7	(iv) LV cables / sleeves 400mm wide x 700mm deep and backfilling top 300mm	m	55		
8.3.2(b)		<u>Extra-over soft excavation in this section for (prov):</u>				
	3/2/8	Intermediate Excavation	m3	2		
		Carried Forward			R	
		Section No. 3 EXTERNAL WORKS Bill No. 2 Pipe Trenches				

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

		Brought Forward			R	
	3/2/9	Hard rock excavation	m3			Rate Only
8.3.2(c)		<u>Excavate and dispose of unsuitable material from trench bottom</u>				
	3/2/10	(i) For trenches less than 3m	m3	5		
		<u>Excavation ancillaries</u>				
8.3.3.3	3/2/11	Extra-over for compaction under paved road surfaces	m3	2		
8.3.3.1(c)	3/2/12	Make up deficiency in backfill material under roads with imported material on instruction of engineer	m3	2		
		<u>HAND EXCAVATION</u>				
8.3.2(a)		<u>Excavate by hand (on instruction of the engineer) in all materials for trenches, backfill, compact, and dispose of surplus/ unsuitable material, for pipes:</u>				
		<u>(a) Up to 250mm diam for total trench depth:</u>				
	3/2/13	Exceeding 0m but not exceeding 1m	m	2		
8.3.2(b)		<u>Extra-over soft hand excavation in this section for (prov):</u>				
	3/2/14	Intermediate excavation (Not pickable)	m3	1		
		Carried Forward to Summary of Section No. 3			R	
		Section No. 3				
		EXTERNAL WORKS				
		Bill No. 2				
		Pipe Trenches				

Annexure B - Bills of Quantities

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New Fire Station for Garden Route District Municipality

SANS Pay Ref	Item No		Unit	Quantity	Rate	Amount
		<u>BILL NO. 3</u>				
SANS 1200		<u>EARTHWORKS (ROADS, SUBGRADE)</u>				
		<u>TREATMENT OF ROAD-BED</u>				
PS DM 8.3.3		<u>Road-bed preparation and compaction of material by:</u>				
	3/3/1	(a) 3 Pass roller compaction with a 10t Vibratory Roller	m2	2 585		
	3/3/2	(b) 3 Pass roller compaction with a 10t Static Roller	m2	2 585		
		<u>EARTHWORKS</u>				
8.3.4	3/3/3	Cut to fill (within road prism) from soft excavation on site	m3	55		
	3/3/4	Cut to Spoil from soft excavation where indicated (road prism)	m3	35		
PS DM 8.3.19		<u>Construct selected layer with material obtained from commercial sources compacted to 95% Mod AASHTO:</u>				
	3/3/5	(a) 150mm G9 Lower selected layer	m3	312		
	3/3/6	(b) 150mm G7 Upper selected layer	m3	442		
	3/3/7	(c) 200mm G7 for Paved Sidewalk .	m3	149		
		Carried Forward			R	
		Section No. 3 EXTERNAL WORKS Bill No. 3 Earthworks (Roads, Subgrade)				

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

		Brought Forward			R
PS DM 8.3.21		<u>Removing soft spots in selected layers by excavating and spoiling soft material on site and replacing the same with imported commercial G7 gravel with a min. CBR of 15 @ 93% Mod. AASHTO density for area:</u>			
	3/3/8	(a) Exceeding 0m ² but not exceeding 100m ²	m3	3	
	3/3/9	(b) Exceeding 100m ² but not exceeding 300m ²	m3	1	
	3/3/10	(c) Exceeding 300m ²	m3		Rate Only
		<u>SURFACE FINISHES</u>			
8.3.13	3/3/11	(a) Topsoiling 200mm thick ex Windrow or stockpile placed by hand.	m2	700	
	3/3/12	(b) Extra over above item for haulage from stockpiles on site	m2	700	
	3/3/13	Stockpile to platform area, compact to 90% Mod AASHTO, shape and trimming as directed by engineer.	m3	508	
PS DM 8.3.13	3/3/14	Grassing by planting Kikuyu sods including Superphosphate fertilizer at 600 kg per hectare.	m2	400	
	3/3/15	Grassing by handseeding veldgrass seeds.	m2	2 000	
		Carried Forward to Summary of Section No. 3			R
		Section No. 3			
		EXTERNAL WORKS			
		Bill No. 3			
		Earthworks (Roads, Subgrade)			

Annexure B - Bills of Quantities

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New Fire Station for Garden Route District Municipality

SANS Pay Ref	Item No		Unit	Quantity	Rate	Amount
		<u>BILL NO. 4</u>				
SANS 1200		<u>MEDIUM PRESSURE PIPELINES: WATER</u>				
SANS 1200		<u>WATER MAINS</u>				
		<u>PIPELINES</u>				
8.2.1		<u>Supply, handle, lay, bed on Class B, joint, test, and disinfect (potable water pipeline)</u>				
	3/4/1	(iil) 75 mm diam. Class 12 (uPVC)	m	17		
	3/4/2	(iil) 50 mm diam. Class 12 (uPVC)	m	128		
		<u>SPECIALS AND FITTINGS</u>				
8.2.2		<u>Supply, lay, and bed Class B joint, including cut pipes to length where required, test and disinfect: Extra- over items for pipelaying uPVC pipes</u>				
	3/4/3	(xii) 50mm dia x 90deg	No	2		
	3/4/4	(xiii) 50mm dia x 45deg	No			Rate Only
	3/4/5	(xiv) 50mm dia x 22.5deg	No	2		
	3/4/6	(xv) 75mm dia x 90deg	No	1		
	3/4/7	(xvi) 75mm dia x 45deg	No			Rate Only
	3/4/8	(xvii) 75mm dia x 22.5deg	No			Rate Only
		<u>(b) Cast Iron T-Pieces</u>				
	3/4/9	(li) 110 x 110mm diam.	No	1		
	3/4/10	(li) 50 x 50mm diam.	No	2		
		<u>(c) Cast Iron Reducers</u>				
	3/4/11	(ii) 110 x 75mm diam.	No	1		
		Carried Forward			R	
		Section No. 3 EXTERNAL WORKS Bill No. 4 Medium Pressure Pipelines: Water				

Annexure B - Bills of Quantities

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New Fire Station for Garden Route District Municipality

		Brought Forward			R
		<u>(d) Cast Iron Hydrant T-Pieces</u>			
	3/4/12	(iii) 75mm diam.	No	1	
		<u>(e) Cast Iron End Cap</u>			
	3/4/13	(i) 50mm diam.	No	2	
	3/4/14	(ii) 75mm diam.	No	1	
	3/4/15	(g) Fire hydrant, 65mm inlet AVK type CI underground screw type with London Round type coupling	No	1	
		<u>(h) Fire Hydrant extension pieces:</u>			
	3/4/16	(ii) 400 x 80mm Hydrant extension piece	No	1	
	3/4/17	Double Headed Booster Connector complete as per detail next to Fire hydrant.	No	1	
		<u>WATER METER</u>			
	3/4/18	Construct Water Meter Chamber complete as per detail on dwg G5211BA CE 003	No	1	
8.2.11		<u>ANCHOR/THRUST BLOCKS AS PER DETAILS ON DWG NO G5211BA CE 003</u>			
	3/4/19	(i) Thrust blocks	m3	0.5	
8.2.11		<u>CONCRETE MARKER POLES AS PER DETAILS ON DWG NO G5211BA CE 003 FOR:</u>			
	3/4/20	(b) Fire Hydrants	No	1	
		Carried Forward			R
		Section No. 3 EXTERNAL WORKS Bill No. 4 Medium Pressure Pipelines: Water			

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Annexure B - Bills of Quantities

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New Fire Station for Garden Route District Municipality

SANS Pay Ref	Item No		Unit	Quantity	Rate	Amount
		<u>BILL NO. 5</u>				
SANS 1200		<u>BEDDING (PIPES)</u>				
		<u>PROVISION OF BEDDING</u>				
8.2.1		<u>Available from trench or from other necessary excavations on site for:</u>				
		<u>(a) Water pipes</u>				
	3/5/1	(i) Selected granular material	m3	1		
	3/5/2	(ii) Selected fill material	m3	2		
		<u>(c) Stormwater pipes</u>				
	3/5/3	(i) Selected granular material	m3	1		
	3/5/4	(ii) Selected fill material	m3	2		
		<u>(d) Sewer pipes</u>				
	3/5/5	(i) Selected granular material	m3	1		
	3/5/6	(ii) Selected fill material	m3	2		
		<u>(e) Electrical sleeves</u>				
	3/5/7	(i) Selected granular material	m3	1		
	3/5/8	(ii) Selected fill material	m3	2		
8.2.2.3		<u>From commercial sources:</u>				
		<u>(a) Water pipes</u>				
	3/5/9	(i) Selected granular material	m3	17		
	3/5/10	(ii) Selected fill material	m3	22		
		<u>(c) Stormwater pipes</u>				
	3/5/11	(i) Selected granular material	m3	1		
	3/5/12	(ii) Selected fill material	m3	2		
		Carried Forward			R	
		Section No. 3 EXTERNAL WORKS Bill No. 5 Bedding (Pipes)				

New Fire Station for Garden Route District Municipality

Brought Forward			R
	<u>(d) Sewer pipes</u>		
3/5/13	(i) Selected granular material	m3	22
3/5/14	(ii) Selected fill material	m3	49
	<u>(e) Electrical sleeves</u>		
3/5/15	(i) Selected granular material	m3	6
3/5/16	(ii) Selected fill material	m3	14
Carried Forward to Summary of Section No. 3			R
Section No. 3 EXTERNAL WORKS Bill No. 5 Bedding (Pipes)			

Tender No: GRDM/29-21-22

Item No		Quantity	Rate	Amount
<u>BILL NO. 6</u>				
<u>CABLE DUCTS</u>				
<u>SUPPLY, LAY, BED, AND PROVE DUCTS</u>				
<u>COMPLETE WITH 8 GAUGE DRAW WIRE:</u>				
3/6/1	(c) 110mm diam. Cableduct black pipes with solvent glued belled ends for electrical	m	110	
3/6/2	(c) 160mm diam. Cableduct black pipes with solvent glued belled ends for electrical	m		Rate Only
<u>TELKOM/DUCTS JUNCTION BOXES AS PER</u>				
<u>DETAIL ON DWG NO G5211BA CE 003 FOR</u>				
<u>DEPTH OF:</u>				
3/6/3	(a) Up to 600mm	No	2	
Carried Forward to Summary of Section No. 3				R
Section No. 3				
EXTERNAL WORKS				
Bill No. 6				
Cable Ducts				

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SANS Pay Ref	Item No		Unit	Quantity	Rate	Amount
		<u>BILL NO. 7</u>				
SANS 1200		<u>SEWER MAIN</u>				
		<u>PIPEWORK</u>				
8.2.1		<u>Supply, lay, joint, bed Class B and test Class 34 uPVC solid wall sewerpipes:</u>				
	3/7/1	(a) 110 mm diam.	m	196		
8.2.3		<u>MANHOLES, TO DWG NO G5211BA CE 003 COMPLETE WITH MEDIUM DUTY POLYMER CONCRETE MANHOLE COVER AND FRAME WITH ALL CHANNEL PIECES FOR DEPTHS:</u>				
	3/7/2	0m up to 1.0m	No			Rate Only
	3/7/3	1.0m up to 1.5m	No	3		
	3/7/4	1.5 m up to 2.5m	No	4		
8.2.4	3/7/5	Extra over manhole for Heavy duty Polymer Concrete Manhole cover and frame	No	7		
	3/7/6	Extra over piping for construction of Rodding eyes as per detail.	No	4		
	3/7/7	Connect sewer into existing municipal manhole - all inclusive.	No	1		
		Carried Forward to Summary of Section No. 3			R	
		Section No. 3 EXTERNAL WORKS Bill No. 7 Sewer Main				

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SANS Pay Ref	Item No		Unit	Quantity	Rate	Amount
		<u>BILL NO. 8</u>				
SANS 1200		<u>STORMWATER DRAINAGE</u>				
		<u>PIPEWORK</u>				
8.2.1		<u>Supply, lay, and bed Class B joint, incl cut pipes to length where required.</u>				
	3/8/1	(ii) 110mm diam. Class 12 (uPVC)	m	6		
8.2.8		<u>CATCHPITS - Drop inlet. Construct complete with grid inlets as per detail on the drawings for depths:</u>				
	3/8/2	a) Up to 1,5m deep	No	1		
	3/8/3	b) Between 1,5m and 2,5m deep	No			Rate Only
		<u>SEPARATOR</u>				
	3/8/4	Construct Separator structure complete as per details on the drawings: G5211BA CE 003	No	1		
		Carried Forward to Summary of Section No. 3				
		Section No. 3				
		EXTERNAL WORKS				
		Bill No. 8				
		Stormwater Drainage				
					R	

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

SANS Pay Ref	Item No		Unit	Quantity	Rate	Amount
		<u>BILL NO. 9</u>				
SANS 1200		<u>SUBBASE</u>				
PS ME 8.3.3		<u>Construct subbase with material obtained from commercial sources, including haul for:</u>				
	3/9/1	(c) 150mm C3 cement stabilised subbase compacted to 97% Mod AASHTO density	m3	312		
8.3.5		<u>Process subbase by means of:</u>				
	3/9/2	(d) Stabilization	m3	312		
8.3.8		<u>Stabilizing agent:</u>				
	3/9/3	(b) CEM II 42.5 Surebuild Portland cement	t	21.10		
8.3.3	3/9/4	Construct subbase G5 with material obtained from commercial sources, including haul for 150mm layer compacted to 98% Mod AASHTO density for various small areas.	m3	49		
		Carried Forward to Summary of Section No. 3				
		Section No. 3				
		EXTERNAL WORKS				
		Bill No. 9				
		Subbase				
					R	

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

SANS Pay Ref	Item No		Unit	Quantity	Rate	Amount
SANS 1200		<u>BILL NO. 10</u>				
		<u>SEGMENTED PAVING AND KERBING</u>				
		<u>Refer to Dwg G5211BA CE 001 for details</u>				
8.2.1		<u>Provision of header course with single soldier course of cement pavers bedded in 20mm sand for pavers:</u>				
	3/10/1	(a) 80mm thick Natural rectangular pavers for road edges, straight and raking - 35Mpa	m	412		
8.2.2		<u>Construction of paving complete with SABS approved pavers on 20mm bedding sand complete from storage for:</u>				
	3/10/2	(b) 80mm thick Natural Zigzag concrete interlocker pavers laid in herringbone pattern in roads - 35 Mpa	m2	2 080		
8.2.3		<u>Cutting units to fit edge restraints</u>				
	3/10/3	(a) 60mm or 80mm thick pavers on straight and raking edges	m	382		
	3/10/4	(b) 60mm or 80mm thick pavers on curved edges with radii equal to or less than 12m.	m	30		
		<u>Extra over to jointing sand:</u>				
		<u>Process jointing sand by means of:</u>				
	3/10/5	(a) Stabilization	m3	1		
		<u>Stabilizing agent:</u>				
	3/10/6	(a) Road Lime	t	0.10		
		Carried Forward			R	
		Section No. 3 EXTERNAL WORKS Bill No. 10 Segmented Paving and Kerbing				

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

		Brought Forward			R
		<u>Filling of joints at channel and kerbs</u>			
	3/10/7	(a) Filling of joints next to kerbs wider than 6mm with a 1:3 cement sand mix	m	20	
SANS 1200		<u>SECTION : KERBING AND CHANNELLING</u>			
		<u>CONCRETE KERBING</u>			
8.2.2		<u>MK10 Mountable Kerb (80mm protruding above final surface level) or similar approved kerb to suit existing for:</u>			
	3/10/8	(i) Straight and raking	m	111	
	3/10/9	(ii) Radius less than 12m	m	20	
8.2.2		<u>Fig 3 Barrier Kerb for:</u>			
	3/10/10	(i) Straight and raking	m	140	
	3/10/11	(ii) Radius less than 12m	m	45	
		<u>Transitions</u>			
	3/10/12	Extra over for transition ends to kerbs	No	2	
	3/10/13	Extra over for transitions at Stormwater Inlets	No		Rate Only
	3/10/14	Extra over for jointex in expansion joints	No	31	
		<u>Re-application of jointing sand during the defects liability period when called upon by the Engineer</u>			
	3/10/15	(i) Establishment	No	1	
	3/10/16	(ii) Jointing sand	m2	200	
		Carried Forward to Summary of Section No. 3			R
		Section No. 3			
		EXTERNAL WORKS			
		Bill No. 10			
		Segmented Paving and Kerbing			

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

SANS Pay Ref	Item No		Unit	Quantity	Rate	Amount
		<u>BILL NO. 11</u>				
SANS 1200		<u>ANCILLARY ROADWORKS</u>				
		<u>ROAD MARKINGS</u>				
8.4.1		<u>Non-reflectorized paint applied at nominal rate of 0,42 l/m2</u>				
		<u>a) White lines (broken or unbroken) for width:</u>				
	3/11/1	(i) 100mm wide	m	80		
	3/11/2	(ii) 300mm wide	m			Rate Only
	3/11/3	b) White characters and symbols	m2	2		
	3/11/4	c) Single Direction Arrows	No	19		
	3/11/5	d) Two Direction Arrows	No	5		
8.4.4	3/11/6	Setting out and premarking of lines (excluding traffic island markings, characters, and symbols)	m	130		
		Carried Forward to Summary of Section No. 3				
		Section No. 3				
		EXTERNAL WORKS				
		Bill No. 11				
		Ancillary Roadworks				
					R	

Annexure B - Bills of Quantities

Tender No: GRDM/29-21-22

New Fire Station for Garden Route District Municipality

Item No			Quantity	Rate	Amount
	<u>BILL NO. 12</u>				
	<u>FENCING AND GATES</u>				
	<u>FENCE</u>				
	<u>Betafence Nylofor Medium 2493(W) x 1750mm(H)</u> <u>RAL7021 3.65mm Wire Anthracite coated Medium</u> <u>security panels with vertical barbs of 30mm on one</u> <u>side. The horizontal 3-D bends, reinforce to give the</u> <u>panel rigidity. Aperture 100mm x 50mm, Core wire</u> <u>coating Zinalume Super coating 95% Zinc 5%</u> <u>Aluminium then PVC Coated. PVC wire diameter</u> <u>4.05mm. Bekafix Secure Posts 2400mm Extreme</u> <u>RAL7021 1.5 Anthracite Coated "The H profile post</u> <u>(70x44x1.5mm) allow panels to fit laterally & seal up</u> <u>against the inside of the post. Panels are secured</u> <u>with metal security fixings, bolted through the posts</u> <u>& firmly secured with tamperproof shearnuts.</u> <u>Coated Anthracite 7021. All Colours Charcoal.</u> <u>Fence to include saw toothed spike rail on top.</u>				
3/12/1	Fence 1800mm high above ground level with posts founded in 400 x 400 x 600mm deep 15Mpa concrete bases at 3382m centres.	m	61		
3/12/2	Extra over fence 1800mm high for additional posts to corners including cutting of standard length fence panels to suit opening	No	6		
	<u>Plastic coated diamond mesh security fence</u> <u>including posts, 3mm wire strands, 2mm binding</u> <u>wire, etc. (Refer G5211BA-ARC-005)</u>				
3/12/3	Fence 1800mm high above ground level with posts founded in 400 x 400 x 600mm deep 15Mpa concrete bases at 2000mm centres.	m	156		
3/12/4	Extra over fence 1800mm high for additional posts to corners including cutting of fence panels to suit opening	No	4		
	<u>GATES</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
3/12/5	Trenches	m3	2		
	Carried Forward				R
	Section No. 3 EXTERNAL WORKS Bill No. 12 Fencing and Gates				

Tender No: GRDM/29-21-22

Brought Forward			R
<u>Extra over all excavations for carting away</u>			
3/12/6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	2
<u>Risk of collapse of excavations</u>			
3/12/7	Sides of trench and hole excavations not exceeding 1,5m deep	m2	13
<u>20MPa/19mm concrete</u>			
3/12/8	Ground beams	m3	2
<u>Rough formwork to sides</u>			
3/12/9	Ground beams	m2	13
<u>Gates and motors</u>			
3/12/10	Sliding gate 6500mm x 1 800mm high overall formed of 100 x 50 x 3mm thick hollow section bottom rail, four 50 x 50 x 3 mm thick verticals, horizontal mid rail and top rail including 80mm steel V-slot wheels, 40 x 40 x 3mm equal angle inverted along bottom rail for gate guide wheels, gate hot dipped galvanised, and then powder coated anthracite. Gate cladded with Betafence Nylofor medium (Colour: Charcoal). Gate to include saw toothed spike rail on top.	No	1
3/12/11	Centurion D10 industrial gate motor. D10 Rack Drive Operator V4 BR with ABS covers including PCB, Charger, Multichannel Nova RX, ChronoGuard Timer, excluding Battery, Rack, TX - 1000kg Industrial. (All to be confirmed by an approved installer)	No	1
Carried Forward to Summary of Section No. 3			R
Section No. 3 EXTERNAL WORKS Bill No. 12 Fencing and Gates			

New Fire Station for Garden Route District Municipality

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Annexure B - Bills of Quantities**Tender No: GRDM/29-21-22****New Fire Station for Garden Route District Municipality**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>PROVISIONAL SUMS</u>			
	<u>PROFIT</u>			
	<p>Where the item "Profit" appears the Contractor is invited to price for the desired profit on the Provisional sum. Should the final amount vary from the Provisional sum of the corresponding item then the amount allowed for profit will be adjusted proportionally.</p>			
	<u>ATTENDANCE</u>			
	<p>Where the item "Attendance" appears, the Contractor must price for the co-ordination of work, and general co-operation with the Sub-contractor in the execution of his duties.</p> <p>Attendance will furthermore mean the receiving of and supervision on delivery of goods, the allocation of suitable storage, area, hoisting of material to the desired level, use by the Sub-contractor of ordinary formwork and scaffolding, the supply of power, lighting, water and similar facilities, the use of toilets and stores, building in of sleeves, switch boxes and distribution boards, etc. and general protection and repair work after the Sub-contractor is completed</p> <p>The amount allowed for attendance will not be altered except in situations where the scope of the work is changed in which case the amount allowed will be changed proportionately.</p>			
	<u>PAYMENT TO SELECTED SUB-CONTRACTORS</u>			
	<p>The employer reserves the right to pay nominated or selected sub-contractors directly. The contractor's attendance must therefore make provision to provide access to the site, reasonable assistance and management of such selected sub-contractor.</p> <p>Should the employer pay such selected sub-contractor directly, no profit will be calculated towards the contractor's payments.</p>			
	Carried Forward		R	
	Section No. 4 PROVISIONAL SUMS Bill No. 1 Provisional Sums			

Annexure B - Bills of Quantities**Tender No: GRDM/29-21-22****New Fire Station for Garden Route District Municipality**

Brought Forward		R
The employer reserves the right to omit any or all of the provisional amounts, in which case the contractor has no claim to profit and attendance on such omitted items.		
<u>SPECIALIST INSTALLATIONS AND FINISHES</u>		
<u>JOINERY, BUILT IN CUPBOARDS, ETC.</u>		
4/1/1	Allow the provisional sum of R150 000.00 (One Hundred and Fifty Thousand) for joinery and cabinetry installations including tops, counters, shelves, etc.	Item 150 000.00
4/1/2	Allow for profit on last if required.	%
4/1/3	Allow for general attendance	%
<u>SIGNAGE</u>		
4/1/4	Allow the provisional sum of R30 000.00 (Thirty Thousand) for signage installation	Item 30 000.00
4/1/5	Allow for profit on last if required.	%
4/1/6	Allow for general attendance	%
<u>VENTILATION INSTALLATION</u>		
4/1/7	Allow the provisional sum of R50 000.00 (Fifty Thousand) for mechanical ventilation installation	Item 50 000.00
4/1/8	Allow for profit on last if required.	%
4/1/9	Allow for general attendance	%
<u>WATER HEATING</u>		
4/1/10	Allow the provisional sum of R50 000.00 (Fifty Thousand) for hot water generation	Item 50 000.00
4/1/11	Allow for profit on last if required.	%
4/1/12	Allow for general attendance	%
Carried Forward		R
Section No. 4 PROVISIONAL SUMS Bill No. 1 Provisional Sums		

Annexure B - Bills of Quantities**Tender No: GRDM/29-21-22****New Fire Station for Garden Route District Municipality****Brought Forward****R****FIRE PROTECTION**

4/1/13 Allow the provisional sum of R45 000.00 (Forty Five Thousand) for fire protection installation

Item

45 000.00

4/1/14 Allow for profit on last if required.

%

4/1/15 Allow for general attendance

%

FIRE DETECTION

4/1/16 Allow the provisional sum of R30 000.00 (Thirty Thousand) for fire detection installation

Item

30 000.00

4/1/17 Allow for profit on last if required.

%

4/1/18 Allow for general attendance

%

ELECTRICAL INSTALLATION

4/1/19 Allow the provisional sum of R605 000.00 (Six Hundred and Five Thousand) for electrical installation

Item

605 000.00

4/1/20 Allow for profit on last if required.

%

4/1/21 Allow for general attendance

%

Carried Forward**R**Section No. 4
PROVISIONAL SUMS
Bill No. 1
Provisional Sums

Annexure B - Bills of Quantities**Tender No: GRDM/29-21-22****New Fire Station for Garden Route District Municipality****Brought Forward****PRIMARY COST AMOUNTS****FLOOR AND WALL TILES**

4/1/22 Allow the provisional sum of R135 000.00 (One Hundred and Thirty Five Thousand) for the purchase and delivery of floor and wall tiles

Item

135 000.00

4/1/23 Allow for profit on last if required.

%

RUBBER FLOOR TILES

4/1/24 Allow the provisional sum of R7 500.00 (Seven Thousand Five Hundred) for the purchase and delivery of rubber floor tiles

Item

7 500.00

4/1/25 Allow for profit on last if required.

%

Carried to Final Summary

R

Section No. 4
PROVISIONAL SUMS
Bill No. 1
Provisional Sums

New Fire Station for Garden Route District Municipality

Carried to Form of Tender



safe working practice
OCCUPATIONAL HEALTH AND SAFETY GROUP

Project Health and Safety Specification

In terms of Construction Regulations 2014

Project Client

GARDEN ROUTE DISTRICT MUNICIPALITY

Description of Project Works

**ARCHITECTURAL, CIVIL, STRUCTURAL,
ELECTRICAL AND MECHANICAL WORKS FOR
THE CONSTRUCTION OF A NEW FIRE STATION
FOR THE GRDM IN GEORGE**

Project Location

GOERGE INDUSTRIAL AREA

Preparation Date

MARCH 2022

Project Health and Safety Specification developed by:

Safe Working Practice
Tel: 0860 111 540
Fax: 086 672 4991
Email: info@safeppractice.co.za



PROJECT HEALTH AND SAFETY SPECIFICATION

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1.0 SPECIFIC PROJECT INFORMATION

1. 1 INTRODUCTION AND DEFINITIONS
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THE REQUIREMENTS OF THE CONSTRUCTION REGULATIONS 2014 (AND GUIDANCE NOTES OF 2017) HAVE BEEN IN EFFECT SINCE 7TH AUGUST 2014. THE REGULATIONS PLACE LEGAL DUTIES UPON PRINCIPAL CONTRACTORS AND CONTRACTORS. ALTHOUGH THIS HEALTH AND SAFETY SPECIFICATION INCLUDES MUCH OF THE CONTENT OF THE REGULATIONS, THE CONTRACTOR WILL BE DEEMED TO BE FAMILIAR WITH THE REQUIREMENTS OF THESE REGULATIONS, AND OTHER ASSOCIATED HEALTH AND SAFETY REGULATIONS, AND TO HAVE FACTORED IN ALL THE DUTIES PLACED UPON CONTRACTORS AND PRINCIPAL CONTRACTORS IN THE TENDER. A COPY OF THE REGULATIONS CAN BE VIEWED ON THE DEPARTMENT OF LABOUR'S WEBSITE.

PLEASE NOTE THAT THE TERMS "CONTRACTOR" AND "PRINCIPAL CONTRACTOR" HAVE THE SAME MEANING AS THAT IN THE CONSTRUCTION REGULATIONS AND ARE USED INTERCHANGEABLY IN THIS DOCUMENT, I.E., REFERENCES TO "CONTRACTOR" REFER TO PRINCIPAL CONTRACTOR AND/OR CONTRACTOR AS THE REGULATIONS PERTAIN TO THEIR FUNCTIONS.

This Health and Safety Specification contains clauses that are generally applicable to construction activities, as well as imposing pro-active controls associated with activities that impact on Health and Safety as it relates to work on site. Compliance to the requirements of the Occupational Health and Safety Act 1993 is an additional requirement of this Health and Safety Specification and is part of the Contractor's responsibility. The Client, and/or their agents, will monitor that all Contractors comply with the requirements of such legislation.

ALL REFERENCES TO CLIENT IN THIS HEALTH AND SAFETY SPECIFICATION ALSO REFER TO SAFETY AGENT, WHERE SO APPOINTED.

Definitions (as per the Construction Regulations 2014) applicable to this Health and Safety Specification:

"agent" means a competent person who acts as a representative for a Client;

"angle of repose" means the steepest angle of a surface at which a mass of loose or fragmented material will remain stationary in a pile on the surface, rather than sliding or crumbling away;

"bulk mixing plant" means machinery, appliances or other similar devices that are assembled in such a manner so as to be able to mix materials in bulk for the purposes of using the mixed product for construction work;

"client" means any person for whom construction work is being performed;

"competent person" means a person who has, in respect of the work or task to be performed, the required knowledge, training and experience and, where applicable, qualifications, specific to that work or task: Provided that where appropriate qualifications and training are registered in terms of the provisions of the National Qualification Framework Act, 2000 (Act No.67 of 2000), those qualifications and that training must be regarded as the required qualifications and training; and is familiar with the Act and with the applicable regulations made under the Act;

"construction manager" means a competent person responsible for the management of the physical construction processes and the coordination, administration, and management of resources on a construction site;

"construction site" means a workplace where construction work is being performed;



"construction supervisor" means a competent person responsible for supervising construction activities on a construction site;

"construction vehicle" means a vehicle used as a means of conveyance for transporting persons or material, or persons and material, on and off the construction site for the purposes of performing construction work;

"construction work" means any work in connection with -

- the construction, erection, alteration, renovation, repair, demolition or dismantling of or addition to a building or any similar structure; or
- the construction, erection, maintenance, demolition or dismantling of any bridge, dam, canal, road, railway, runway, sewer or water reticulation system; or the moving of earth, clearing of land, the making of excavation, piling, or any similar civil engineering structure or type of work;

"construction work permit" means a document issued in terms of regulation 3;

"contractor" means an employer who performs construction work;

Note:

a) Includes organisations and or self-employed person that contracts with a client, principal contractor, or a contractor to carry out construction work.

"demolition work" means a method to dismantle, wreck, break, pull down or knock down of a structure or part thereof by way of manual labour, machinery, or the use of explosives;

"design" in relation to any structure, includes drawings, calculations, design details and specifications;

"designer" means a competent person who-

- prepares a design;
- checks and approves a design;
- arranges for a person at work under his or her control to prepare a design, including an employee of that person where he or she is the employer; or
- designs temporary work, including its components;
- an architect or engineer contributing to, or having overall responsibility for a design;
- a building services engineer designing details for fixed plant;
- a surveyor specifying articles or drawing up specifications;
- a contractor carrying out design work as part of a design and building project; or
- an interior designer, shop-fitter, or landscape architect;

"ergonomics" means the scientific discipline concerned with the fundamental understanding of interactions among humans and other elements of a system, and the profession that applies theory, principles, data, and methods to design in order to optimise human well-being and overall system performance;

"excavation work" means the making of any man-made cavity, trench, pit or depression formed by cutting, digging or scooping;

"explosive actuated fastening device" means a tool that is activated by an explosive charge and that is used for driving bolts, nails, and similar objects for the purpose of providing fixing;

"fall arrest equipment" means equipment used to arrest a person in a fall, including personal equipment, a body harness, lanyards, deceleration devices, lifelines, or similar equipment;

"falsework" means a combined system of formwork and support work;

"formwork" means temporary or permanent shutters used to form wet concrete into elements of a structure, and includes both horizontally and vertically placed shutters;

"fall prevention equipment" means equipment used to prevent persons from falling from a fall risk position, including personal equipment, a body harness, lanyards, lifelines or physical equipment such as guard-rails, screens, barricades, anchorages or similar equipment;



"fall protection plan" means a documented plan, which includes and provides for -

- all risks relating to working from a fall risk position, considering the nature of work undertaken;
- the procedures and methods to be applied in order to eliminate the risk of falling; and
- a rescue plan and procedures;

"fall risk" means any potential exposure to falling either from, off or into;

"health and safety file" means a file, or other record containing the information in writing required by these Regulations;

"health and safety plan" means a site, activity or project specific documented plan in accordance with the Client's health and safety specification;

"health and safety specification" means a site, activity or project specific document prepared by the Client pertaining to all health and safety requirements related to construction work;

"material hoist" means a hoist used to lower or raise material and equipment, excluding passengers;

"medical certificate of fitness" means a certificate contemplated in regulation 7(8);

"mobile plant" means any machinery, appliance or other similar device that is able to move independently, and is used for the purpose of performing construction work on a construction site;

"National Building Regulations" means the National Building Regulations made under the National Building Regulations and Building Standards Act, 1977 (Act No. 103 of 1977), and promulgated by Government Notice No. R. 2378 of 30 July 1990, as amended by Government Notices No's R. 432 of 8 March 1991, R. 919 of 30 July 1999 and R. 547 of 30 May 2008;

"person day" means one normal working shift of carrying out construction work by a person on a construction site;

"principal contractor" means an employer appointed by the Client to perform construction work;

"Professional Engineer or Professional Certificated Engineer" means a person holding registration as either a Professional Engineer or Professional Certificated Engineer in terms of the Engineering Profession Act, 2000 (Act No. 46 of 2000);

"Professional Technologist" means a person holding registration as a Professional Engineering Technologist in terms of the Engineering Profession Act, 2000;

"provincial director" means the provincial director as defined in regulation 1 of the General Administrative Regulations, 2003;

"scaffold" means a temporary elevated platform and supporting structure used for providing access to and supporting workmen or materials or both;

"shoring" means a system used to support the sides of an excavation and which is intended to prevent the cave-in or the collapse of the sides of an excavation;

"structure" means-

- any building, steel or reinforced concrete structure (not being a building), railway line or siding, bridge, waterworks, reservoir, pipe or pipeline, cable, sewer, sewage works, fixed vessels, road, drainage works, earthworks, dam, wall, mast, tower, tower crane, bulk mixing plant, pylon, surface and underground tanks, earth retaining structure or any structure designed to preserve or alter any natural feature, and any other similar structure;
- any falsework, scaffold or other structure designed or used to provide support or means of access during construction work; or
- any fixed plant in respect of construction work which includes installation, commissioning, decommissioning, or dismantling and where any construction work involves a risk of a person falling;



"support work" means the temporary structure erected to support the formwork before the casting of a concrete element of a structure.

"suspended platform" means a working platform suspended from supports by means of one or more separate ropes from each support;

"temporary works" means any falsework, formwork, support work, scaffold, shoring or other temporary structure designed to provide support or means of access during construction work;

"the Act" means the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993);

"tunnelling" means the construction of any tunnel beneath the natural surface of the earth for a purpose other than the searching for or winning of a mineral.

Reference should be made to the following documentation in conjunction with this Safety Specification (including existing surveys, drawings, and reports):

Tender documents Drawings

IMPORTANT NOTE:

This Health and Safety Specification has been prepared to comply with the requirements of the Construction Regulations 2014.

1.2 BACKGROUND TO THE HEALTH AND SAFETY SPECIFICATION
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Historically, the Construction Industry has had a poor health and safety record. Due to the complex and potentially dangerous operations being undertaken, there is a high risk of incidents, accidents, and injuries. In many instances poor adherence to the Act and Regulations has resulted in severe consequences for Health and Safety performance. The Client is determined that the highest Health and Safety standards will prevail throughout the Contract and that there will be full commitment from all parties involved.

To achieve this goal the Client has arranged for the preparation of this Health and Safety Specification. The Health and Safety Specification sets out guidelines and minimum levels of awareness and guidance for Health and Safety requirements for the project. Contractual responsibility for adhering to these requirements rests with the Contractors. All employees are encouraged to be pro-active in compliance.

The Client is committed to ensuring the highest Health and Safety standards for all work undertaken within the Contract.

Contractors as employers are fully responsible and accountable for compliance with all Health and Safety requirements.

IMPORTANT NOTE:

Compliance with the Occupational Health and Safety Act and Regulations shall not be limited to this Health and Safety Specification and definitions contained in this document.

Contractors shall be conversant with the requirements and effects of Health and Safety legislation upon their activities, in particular the Construction Regulations, 2014, and the Occupational Health and Safety Act, 1993, and to have made adequate resource in their tender submission to comply with all legislative requirements.

Failure to comply with the requirements of this Safety Specification will result in severe sanction and the severity of the sanction will depend on the severity of the noncompliance.



The Contractor's personnel will be responsible for the auditing of the implementation of the Health and Safety Specification and maintaining the document control and record systems associated with the Health and Safety Specification. The Client will arrange for Health and Safety audits to be conducted on site on their behalf to monitor health and safety compliance by contractors.

1.3 PURPOSE OF THE HEALTH AND SAFETY SPECIFICATION

The purpose of this site-specific Health and Safety Specification is to comply with legal requirements and to provide health and safety information about specific project risks known by the Client, Designer and Safety Agent to be applicable to this project. This document also provides minimum health and safety requirements, standards, and expectations that the contractor must adhere to.

The Contractor must take into account all information in this specification and ensure that their tenders include adequate resource and competence to deal with the matters detailed herein so that all relevant contents are dealt with in a way which is in compliance with legislation and the ethical concerns for the safeguarding of employees, contractors and other persons affected by the construction activities. Please note that a detailed OHS bill of quantities must be provided by the contractor on all Construction Work Permit projects. The Bill of Quantities will form part of the Construction Work Permit application presented to Department of Labour for approval.

The Health and Safety Specification will be implemented during construction of the works and any construction activity that the Client has control over.

This will also assist in ensuring that all the costs related to the compliance with Occupational Health Act 85 of 1993 and the Construction Regulations 2014, as well as this Health and Safety Specification, are taken into consideration at Tender stage.

No advice, approval of any document required by the Health and Safety Specification such as hazard identification and risk assessment action plans or any other form shall be construed as an acceptance by the Client of any obligation that absolves the Contractor from achieving the required level of performance and compliance with legal requirements.

Further, there is no acceptance of liability by the Client which may result from the Contractor failing to comply with the Health and Safety Specification unless the Client has issued an instruction to any requirement, i.e. the Contractor remains responsible for achieving the required performance levels.

1.4 IMPLEMENTATION OF THE HEALTH AND SAFETY SPECIFICATION

This Health and Safety Specification forms an integral part of the Contract, and Contractors shall make it an integral part of their Contracts with other Contractors and Suppliers. Contractors employed by the Client are to ensure that the provisions of the Health and Safety Specification are applied both on the site and in respect of all off site activities relating to the project, in particular in transport activities and project dedicated off site fabrication works.

The Contractor shall enforce the provisions of the Health and Safety Specification amongst all Contractors and suppliers for the project.

The Contractor shall sign the acknowledgment on the last page of this safety specification that he/she has familiarized him/herself with the content of the Health and Safety Specification and shall comply with all obligations in respect thereof.

The successful Contractor will be required to compile a Health and Safety Plan based on the requirements of the Occupational Health Act 85 of 1993 and these Specifications, which will need to be approved by Client (or their appointed safety agent) prior to commencement with construction work.



1.4.1 Client Duties

In terms of the Construction Regulations 2014 the Client (or their Agent, where appointed) has legal duties. Where an Agent (refer to “definitions” section of this document) is appointed in terms of this project, these Health and Safety duties assigned will also apply.

All references to “Client” will apply to their appointed “Safety Agent”, where so appointed, in this Health and Safety Specification.

The Client must:

- Prepare a baseline risk assessment for the construction work
- Prepare a suitable, sufficiently documented, and coherent site specific Health and Safety specification for the intended construction work, based on the baseline risk assessment
- Include the health and safety specification in the tender documents
- Ensure that potential principal contractors submitting tenders have made adequate provision for the cost of health and safety measures
- Ensure that the principal contractor to be appointed has the necessary competencies and resources to carry out the construction work safely
- Take reasonable steps to ensure co-operation between all contractors appointed by the Client to enable each of those contractors to comply with the regulations
- Ensure, before work commences, that every principal contractor is registered and in good standing with the compensation fund, or with a licensed compensation insurer as contemplated in the Compensation for Occupational injuries and Diseases Act, 1993 (Act no 130 of 1993)
- Appoint each principal contractor in writing for the project, or part thereof
- Discuss and negotiate with the principal contractor the contents of the principal contractor’s safety plan and thereafter finally approve that plan for implementation
- Ensure that a copy of the principal contractor’s health and safety plan is implemented and maintained
- Ensure that periodic health and safety audits and document verification are conducted at intervals mutually agreed upon between the principal contractor and any contractor, but at least once every 30 days
- Ensure that a copy of the health and safety audit report is provided to the principal contractor within 7 days after the audit
- Stop any contractor from executing a construction activity which poses a threat to the health and safety of persons which is not in accordance with the principal contractor’s health and safety plan for site
- Where changes are brought about to the design or construction work, make sufficient health and safety information and appropriate resources available to the principal contractor to execute the work safely
- Ensure that the health and safety file is kept and maintained by the principal contractor.
- Where the Client requires additional work to be performed as a result of a design change or error in construction due to the actions of the Client, the Client must ensure that sufficient safety information and appropriate additional resources are available to execute the required work safely.
- Where more than one principal contractor is appointed, the Client must take reasonable steps to ensure co-operation between all principal contractors and contractors to ensure compliance with the Regulations
- Where the Client has appointed a Safety Agent for the project, their details for this project are contained in the Project Directory section of this health and safety specification.



1.4.2 Designer Duties

It must be noted that the Designer also has Health and Safety duties assigned in terms of the Construction Regulations. Where the contractor fulfils a design function in terms of this project (refer to "definitions" section of this document), these duties will also apply. Please refer to Regulation 6 of the Construction Regulations 2014.

Please note that the designer of temporary works must ensure that:

- all temporary works are adequately designed so that it will be capable of supporting all anticipated vertical and lateral loads that may be applied;
- the designs of temporary works are done with close reference to the structural design drawings issued by the contractor, and in the event of any uncertainty consult the contractor;
- all drawings and calculations pertaining to the design of temporary works are kept at the office of the temporary works designer and are made available on request by an inspector; and
- the loads caused by the temporary works and any imposed loads are clearly indicated in the design.



1.5 PROJECT DIRECTORY		
Project Client	Garden route district municipality 54 York Street Goerge 6530	Tel: 044 803 1300
Project Manager	Garden route district municipality 54 York Street Goerge 6530	Tel: 044 803 1300
Contact Person	Passmore Dongi	
Consulting Engineer	Kantey Templer Consulting Engineers	Tel: 044 874 2177
Contact Person	Nelius Agenbag	e-mail: nelius@gr.kanteys.co.za Cell: 082 879 5771
Construction Safety Agent	Safe Working Practice 18 A. Castanea St Danabaai 6510	Tel: 044 695 0533
Contact Person	Stiaan Burger	E-mail: stiaan@safepractice.co.za Cell: 061 485 5807

OTHER PARTIES DIRECTORY	
Department of Labour for submission of Annexure 2: Notification of Construction Work WESTERN CAPE – Fezeka Ngalo	Tel: 021 441 8158 e-mail: fezeka.ngalo@labour.gov.za Cell: 083 365 0681
Department of Labour 35 Albert St George 6530	Tel: 058 623 2977 e-mail: customercare@labour.gov.za
Telecommunications, Water, Electricity Company: George Municipality	Tel: 044 803 1300



Water Company: George Municipality	Tel: 044 801 9262/6
Electricity Company: George Municipality	Tel: 044 801 9222 e-mail: gmun@george.gov.za
COVID-19 Hotlines National Coronavirus Hotline Provincial Coronavirus Hotline	Tel: 0800 029 999 Tel: 021 928 4102

1.6 PROJECT DETAILS

Description of Works

Architectural, Civil, Structural, Electrical and Mechanical works for the construction of a new fire station for the GRDM in George.

Works to be carried out include site:

Steel reinforcement

Earthworks for foundation

Construction of Subgrade layers

Construction of Subbase layers

Construction of Basecourse layers

Construction of sunken and barrier precast concrete kerbing

Road signs and road marking

Block paving

Storm water system

Anticipated Construction Duration

46 Weeks

Provisional Start Date

20 June 2022

Provisional Completion Date

2 May 2023

Construction Work Permit Required for the Project?

N/A



1.7 EXISTING ENVIRONMENT
Hazards particular to this project by virtue of location: <ul style="list-style-type: none">• Industrial area (Pedestrians, Children and Traffic)• Criminal activity• Services (over and under)
Overhead, Above Ground and Underground Services crossing the site: <p>Overhead: Yes - Electrical</p> <p>Underground: Yes – Water and Electrical</p> <p>Ground level: Designs Centre, PG Bison Sawmill in surrounding area</p> <p>Service Drawings available: Yes</p> <p>Wayleaves required: The Contractor will be required to obtain way leaves from the required authorities in order to do construction work within the area of the existing services. The Contractor shall abide by the health and safety conditions imposed by any way leaves, permissions or permits</p> <p>Permits required: Daily form and support work registers to be completed.</p> <p>Isolations required: As per Engineers requirements (Perhaps Electrical erf connections)</p>
Existing structures on site and surrounding land use (with a significant impact on Health & Safety): <ul style="list-style-type: none">• Fences• Existing Buildings in the area• Dwellings (Narrow Road reserves)
Existing ground conditions and ground survey report: <p>Survey and Geotechnical investigation done. Nothing out of the ordinary in terms of road works.</p>
Existing Traffic Systems <p>Condition: Paving roads surface</p> <p>Restrictions to access: Narrow Roads reserves</p> <p>Speed restrictions: 40 km/h – Industrial streets</p>
1.8 AVAILABLE DRAWINGS
Refer to tender documentation.



1.9 PROJECT HEALTH AND SAFETY REQUIREMENTS

Significant health and safety hazards identified by Client, Designer and Safety Agent:

1. Members of public.
2. Fencing/demarcating work areas and lay down area for storage of material and equipment.
3. Barricading of excavations to be in place between works and members of public to prevent unauthorised access of site/material/equipment.
4. The Contractor may erect his site offices and storage depot within the boundaries of the area indicated by the Engineer.
5. The Contractor shall locate suitable sites, off site, for the disposal of cleared vegetation, rubble, unsuitable material or surplus material. The Contractor shall inform the Engineer of any site he proposes to use.
6. The Works are in an environmentally sensitive area and within the residential areas of Mossel Bay. The contractor shall, therefore, on a day-to-day basis, keep the area of the Works in a condition acceptable to the Engineer.
7. No fires may be lit except at places approved by the Engineer. The Contractor shall ensure that the fire hazard on and near the site is reduced to a minimum and shall take immediate and effective steps to extinguish any fire that may break out.
7. Security of site, site yard, material, equipment and mobile plant is of great importance. The Contractor shall take all necessary steps to prevent damage to or the theft of any materials on site provide sufficient security after hours and weekend as to safeguard site and site yard against any unauthorised entry.
9. The Contractor shall conduct his business in a safe and responsible manner and take measures as far as is reasonably practical to ensure that persons other than that employed by him, who may be directly affected by his work activities are not exposed to hazards to their health and safety
10. Preventing theft and vandalism of warning signs and barricading material.

Other construction hazards that the contractor can reasonably expect are as follows:

Asphalting
Bricklaying
Compacting and Filling
Compactor Operations
Concrete Pumping
Confined Spaces
Contaminated Land
Cutting Kerbs
Cutting Off Disc
Electric Tools and Electrical Installations
Excavations
Fire
Flammable Liquids / Gas
Fragile Materials
Hand tools
Hazardous Substances
Hot Works



Kerb Laying
Lifting Operations
Manhole Rings and Pipes Storage
Manual Handling of General Items
Members of Public
Mobile Crane
Noise and Dust
Overhead Services (Working near)
Painting
Paving (Laying)
Plant/Vehicle and Equipment Operation
Plastering
Plumbing
Precast Slab / Unit Laying and Fixing
Road Construction
Road Marking
Road Working – in or next to (inc Traffic Management)
Rope Access Work
Scaffold Erection / Dismantling
Shuttering Walls, Beams, Columns
Site Strip
Skipping of Concrete
Snakes
Steel Erection
Steel Fixing
Street Lighting
Temporary Work (include False Work, Scaffold and Shoring)
Troxler Use
Underground Services
Work over or next to Water
Working at Height (excluding scaffold)
Working with Effluent

NOTE: Please refer to end of this Health and Safety Specification for the baseline risk assessment for these hazards and risks.

ACTIVITIES REQUIRING APPROVED METHOD STATEMENTS (FOR HEALTH AND SAFETY & COVID-19)

- Site establishment
- Construction plant on site
- Excavations/ Trenches
- Traffic accommodation
- Safe guard to members of public and surrounding environment
- Dust control on site
- Rehabilitation of site, site yard and material lay down areas at completion of construction work.
- Waste management and disposal



ACTIVITIES REQUIRING PERMITS (FOR HEALTH AND SAFETY PURPOSES)

Permit to Dig: Daily permits to be completed and copies to be kept in the safety file

Permit to Enter Excavations: Daily permits to be completed and copies to be kept in the safety file for excavations exceeding 2 metres

Road Works Permit: Permits to be completed and copies to be kept in the safety file

Permit to Work with Electricity: Permits to be completed and copies to be kept in the safety file

Confined Space Permit: Not applicable at this stage of the project

Hot Works Permit: Daily permits to be completed and copies to be kept in the safety file

Permit to Work under Power Lines: Yes where necessary.

Blasting: Not applicable at this stage of the project

Client issued permit for work in restricted areas: Yes, where needed

Temporary Works: Daily permits to be completed and copies to be kept in the safety file

CONTRACTOR SAFETY OFFICER PROVISION

Records of safety audits undertaken by the Contractor's Safety Officer must be kept on site in the safety file and nonconformances reported by the Safety Officer to the Contractor's management team. All nonconformances identified by the Safety Officer and client's safety agent must be investigated and corrective action taken by the Contractor to prevent re-occurrence.

Please note that as from 7th August 2018 the safety officer must be professionally registered with the SACPCMP. Proof of registration with the SACPCMP must be provided.

If registered as a Candidate proof of mentorship and weekly visits by mentor must be available on site.

The requirement for this site is that a full time Safety Officer be appointed by the Contractor.

MEDICAL CERTIFICATE OF FITNESS (ANNEXURE 3)

The contractor must ensure that their employees on site have a valid medical certificate of fitness, specific to the construction work being performed, issued by an occupational health practitioner in the form of an Annexure 3 template.

MANAGEMENT AND SUPERVISION OF CONSTRUCTION WORK

A principal contractor must, in writing, appoint one full-time competent person as the construction manager with the duty of managing all the construction work on a single site, including the duty of ensuring occupational health and safety compliance, and in the absence of the construction manager an alternate competent person must be appointed by the principal contractor. Proof of an all-inclusive assessment by the Principal Contractor of the Construction Manager's Competency in construction management and health and safety competency must be available in the Safety File.

The Construction Manager, Alternate Construction Managers, Assistant Construction Managers, and designated construction supervisor/s must, as a minimum, have training in Legal Liability, Construction Regulation 2014 and the OHS Act and Regulations.



TRAFFIC MANAGEMENT AND TRAFFIC SAFETY OFFICER PROVISION

The Traffic Management Plan must be approved by the Project Manager and, as required, the Traffic Chief as per the National Road Traffic Act, No. 93 of 1996. The Traffic Safety Officer must have training as per Unit Standard 14561 or similar.

All non conformances identified by the Safety Officer must be investigated and corrective action taken by the Contractor to prevent re-occurrence. Delivery of materials and the safe movement of construction vehicles will be controlled by means of a traffic management plan to alleviate any congestion or interference

ENVIRONMENTAL CONDITIONS

Contractor must take into account adverse weather conditions on site activities and implement control measures to mitigate risk. This includes risk of exposure to excessive heat, cold, rain, lightning and wind. The open nature of the site works will not preclude any of the above.

ARRANGEMENTS FOR ACCESS, PARKING, DELIVERIES, ETC.

Access to site by Construction Vehicles: The site is located within the George Industrial area.

Access to site by Construction Workers and Visitors: The site is located within the George Industrial area and will be accessed from P.W Botha Blvd towards the Designs Centre. All visitors to report at site office before entering the sites. Contractor to ensure sufficient access is provided along with parking for vehicles.

All service providers must sign a 37.2 Mandatory Agreement and must be inducted before they can be allowed on site.

ARRANGEMENTS FOR SITE CAMP, ABLUTIONS AND YARD, INCLUDING FOR COVID-19

Site camp location and set up

- **Restrictions / requirements:** }
 - **Storage areas:** }
 - **Security:** }
- Contractor to advise in consultation
with Engineer / Professional Team

Ablutions and Welfare Arrangements

Contractor to supply ablutions and facilities in line with the Construction Regulations 2014, refer to section 2.31 of this health and safety specification regarding the below. Toilets should be provided with built in facilities for hand washing. Please note further that COVID-19 control measures form an important part of ablutions provision on site ref soap and water/hand sanitiser, signage, etc:

- **Toilets:** }
 - **Washing facilities:** }
 - **Drinking Water:** }
 - **Shelter:** }
 - **Showers:** }
- Contractor to provide as per Regulations
- Contractor to provide as per Regulations



Mobile site facilities requirements:

A camping toilet/mobile toilet will be required for sites that cannot facilitate a permanent location for ablution units and must be available for each gender per location.

The use of a camping toilet must be prepared and setup correctly with additional anchors and available toiletries prior to each working day and to be first priority when changing location of works along a set working path.

Teams are to ensure that the toilets are cleaned correctly and suitable for easy and hygienic uses and recorded on a daily register.

PROTECTION OF SITE AGAINST UNAUTHORISED ACCESS BY PUBLIC

Excavation Fencing: Note that excavations accessible to public, or adjacent to public roads / thoroughfares, must have (1) barrier / fence of at least 1m in height, and (2) warning illuminants at night or when visibility is poor, or have other suitable precautionary measures if of both these are not practicable.

General Fencing of Site: Note that construction sites in built up areas must be fenced off and have controlled access points with the correct signs to indicate the site office for any relevant enquiries. The construction site will be accessed from P.W Botha Blvd.

Warning Notices: Required warning signs and notices to be conspicuously displayed on site and entrance to site and site yard. Warning signs to be maintained as required.

Look Outs: Flag persons to guide/control/assist delivery, service provider's vehicles and haul trucks.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

The Client requires the Contractor to ensure that employees (and others under his/her control) wear the following minimum PPE:

Overalls: Yes

Safety Harnesses: Yes, where needed

Hard Hats: Yes, where needed

Reflective Vests: Yes, all workers must be clearly visible

Goggles / gloves / ear defenders / respiratory protection: Yes, where needed

Safety Footwear: Yes, must be worn at all times

Specialist Equipment (e.g. for confined Spaces): Yes, where needed



COVID-19 PPE: Yes

Disposable Gloves: Yes

Disposable Overall: Yes

Respiratory Protection (i.e. any face mask endorsed by Department of Labour): Yes

Eye Protection (i.e. goggles or face shield that fully covers the front and side of the face): Yes

HAZARDOUS SUBSTANCES

The following materials and substances have, or may have, to be used in the works and are identified as potentially posing special health and / or safety hazards during the project. Appropriate measures will need to be specified for their control:

- Diesel
- Substances in pressurized containers
- Certain cleaning substances
- Epoxies
- Petroleum and petroleum products
- Cement
- Lime and other stabilizing agents
- Paints

1.10 INTERFACE AND RESTRICTIONS BY CLIENT

Contractor must note that the following Client activities will continue during construction:

- Members of public and visitors will have interaction with construction.
- Residents of existing Businesses making use of existing road.
- Members of public entering site and work areas.
- Service providers and delivery vehicles will need to enter the site.
- It is of the utmost importance that all workers stay in designated works areas. All workers must be easily identified when working on site.

The following Client safety rules and/or requirements are to be observed:

- All workers to receive health and safety induction training prior to commencement of work on site.
- All visitors to site to undergo health and safety induction training pertaining to hazards prevalent on site at time of entry.
- Visitors to have and wear the required personal protective equipment when on site.
- All workers to be informed, instructed and trained by competent person regarding any hazard and the related work procedures and or control measures before commencing with work and thereafter at times as determined in the risk assessment review and monitoring plan of the relevant site.
- Other safety rules and requirements to be advised at induction.
- Community liaison officer (CLO) to be appointed and assist the contractor.
- Contractor to keep record at all times of employee's and visitor's induction training attendance.

Warning Notices: Construction warning signage must be prominently displayed to avoid unauthorised access to site and to warn of dangers associated with construction works.



Danger areas need to be demarcated efficiently. Danger tape is not sufficient. The Contractor shall exercise strict control over all personnel and compliance to the OHS Act requirements.

Non-compliance this regards can lead to contractual consequences. Personnel found non-compliant will face disciplinary action by the contractor and may lead to dismissals. The contractor has the duty to enforce all legal requirements in accordance with the OHS act.

Dust Control: Considering current water restrictions in the Mossel Bay area, means implemented by the contractor to prevent and or to keep dust generated during construction activities to the bare minimum is of utmost importance: The means of dust suppression used to include but not be limited to:

- Adequate covering of stockpiled granular material on site, site yard and any material lay down area, including daily maintenance of covering material.
- Water spraying during extensive earthworks to create platforms will be required.
- Adequate covering of stockpiles of material on site.
- Covering of offloaded material on site and wetting of platform and layer works during placement and compaction will be a very necessary requirement to prevent dust pollution.
- Building sand must be contained and be prevented from being blown onto the existing neighbours houses.
- Excess material from a platform cut will be stockpiled and can cause dust pollution. Such material cannot be re-used for founding and should be removed off site as soon as financially viable for the contractor to prevent dust pollution.
- The possibility is there that a Bulk mixing plant can be set-up on site which will also increase the likelihood of stockpiled granular material for concrete mixing.

Restrictions on times, access or other restrictions by Client

Please refer to tender document.

Other restrictions may be advised at induction.

The contractor must schedule and conduct his work activities in such a manner with the least interruption to traffic.

Take measures as to ensure safety of pedestrian, employee and vehicular traffic on site, adjacent to site and in road.

Contractor only to conduct work after hours, over weekend and on public holidays with the permission of the client/engineer.

As far as reasonably practical the contractor must ensure that trench excavations are back filled and levelled by the end of day.

Monday to Friday: 07:00 am to 17:00pm

Every second Saturday 07:30 am to 13:00pm as per Engineer and Client instructions

No Work on public Holidays



1.11 Project Close Out

The Health and Safety files for the Principal Contractors and all Contractors require closure and handover to the Client at the completion of the project in the form of a consolidated safety file. The following list is an example of what should be included but is not exhaustive. The Safety Agent or the Client may require further information at the time of completion and the Principal Contractor is to ensure that all instructions are responded to. Documentation would include all health and safety related records from the start of the project. All records to be in hard copy or electronic format and submitted to the Safety Agent for approval in adequately formatted lists and folders. Layout should be logical and in the same order as in the site files.

Consolidated Health and Safety close out file requirements include:

- Health and safety specification (most recent version)
- Principal Contractor's health and safety plan/s
- Site safety organograms
- Legal appointments
- Notification to Department of Labour of commencement of work / Construction Work Permit
- Workman's Compensation Letters of Good Standing for the project
- Full safety files for all contractors as well as their close out reports
- List of all contractors who worked on site
- Letters of safety plan approval of contractors by the Principal Contractor
- Mandatory agreements (section 37.2 agreements)
- Incident and accident records / Occupational Disease records
- Contractor Nonconformance records
- Safety agent's audit reports
- Safety Officer reports
- Method Statements
- Risk assessments
- Safe work procedures
- Medical surveillance certificates of fitness. Medical records are to be kept according to the Occupational Health and Safety Act, as amended.
- All temporary works drawings (suspended beams/scaffolds, etc.)
- Copies of test results, policies, and procedures for environmental monitoring (silica, noise, dusts, etc.)
- Detailed registers of all material used
- Copies of all Checklists completed

1.12 SAFETY FILE RETURN TO CLIENT

The consolidated Health and Safety Files for the Project is to be handed over by the Principal Contractor to the Client upon Project Completion in either hard copy or electronic format.



2.0 FURTHER REQUIREMENTS

2.1 Duties of Principal Contractor / Contractor in terms of Construction Regulations 2014

A Principal Contractor must:

- provide and demonstrate to the Client a suitable, sufficiently documented and coherent site specific health and safety plan, based on the Client's documented health and safety specifications, *which* plan must be applied from the date of commencement of and for the duration of the construction work and which must be reviewed and updated by the principal contractor as work progresses;
- open and keep on site a health and safety file, which must include all documentation required in terms of the Act and these Regulations, which must be made available on request to an inspector, the Client, the Client's Safety Agent, or a Contractor; and
- on appointing any other contractor, in order to ensure compliance with the provisions of the Act –
 - provide contractors who are tendering to perform construction work for the principal contractor, with the relevant sections of the health and safety specifications pertaining to the construction work which has to be performed;
 - ensure that potential contractors submitting tenders have made sufficient provision for health and safety measures during the construction process;
 - ensure that no contractor is appointed to perform construction work unless the principal contractor is reasonably satisfied that the contractor that he or she intends to appoint, has the necessary competencies and resources to perform the construction work safely;
 - ensure prior to work commencing on the site that every contractor is registered and in good standing with the compensation fund or with a licensed compensation insurer as contemplated in the Compensation for Occupational Injuries and Diseases Act, 1993;
 - appoint each contractor in writing for the part of the project on the construction site
 - take reasonable steps to ensure that each contractor's health and safety plan is implemented and maintained on the construction site;
 - ensure that the periodic site audits and document verification are conducted at intervals mutually agreed upon between the principal contractor and any contractor, but at least once every 30 days;
 - stop any contractor from executing construction work which is not in accordance with the Client's health and safety specifications and the principal contractor's health and safety plan for the site or which poses a threat to the health and safety of persons;
- where changes are brought about to the design and construction, make available sufficient health and safety information and appropriate resources to the contractor to execute the work safely;
- discuss and negotiate with the contractor the contents of their health and safety plan and finally approve that plan for implementation;
- ensure that a copy of both the principal contractor and contractor's health and safety plan is available on request to an employee, an inspector, a contractor, the Client, or the Client's Safety Agent;



- hand over a consolidated health and safety file to the Client upon completion of the construction work, to include a record of all drawings, designs, materials used and other similar information concerning the completed structure;
- in addition to the documentation required in the health and safety file include and make available 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;
- ensure that all his or her employees have a valid medical certificate of fitness specific to the construction work to be performed and issued by an occupational health practitioner in the form of Annexure 3.

A contractor must prior to performing any construction work-

- provide and demonstrate to the principal contractor a suitable and sufficiently documented health and safety plan, based on the relevant sections of the Client's health and safety specification and provided by the principal contractor, which plan must be applied from the date of commencement of and for the duration of the construction work and which must be reviewed and updated by the contractor as work progresses;
- open and keep on site a health and safety file, which must include all documentation required in terms of the Act and these Regulations, and which must be made available on request to an inspector, the Client, the Client's Safety Agent or the principal contractor;
- before appointing another contractor to perform construction work be reasonably satisfied that the contractor that he or she intends to appoint has the necessary competencies and resources to perform the construction work safely;
- co-operate with the principal contractor as far as is necessary to enable each of them to comply with the provisions of the Act;
- as far as is reasonably practicable, promptly provide the principal contractor with any information which might affect the health and safety of any person at work carrying out construction work on the site, any person who might be affected by the work of such a person at work, or which might justify a review of the health and safety plan.

Where a contractor appoints another contractor to perform construction work, the duties that apply to the principal contractor will apply to the contractor as if he or she were the principal contractor.

A principal contractor must take reasonable steps to ensure co-operation between all contractors appointed by the principal contractor to enable each of those contractors to comply with these Regulations.

No contractor may allow or permit any employee or person to enter any site unless that employee or person has undergone health and safety induction training pertaining to the hazards prevalent on the site at the time of entry.

A contractor must ensure that all visitors to a construction site undergo health and safety induction pertaining to the hazards prevalent on the site and must ensure that such visitors have the necessary personal protective equipment.

A contractor must at all times keep on his or her construction site records of the health and safety induction training and such records must be made available on request to an inspector, the Client, the Client's Safety Agent or the Principal Contractor.

A contractor must ensure that all his or her employees have a valid medical certificate of fitness specific to the construction work to be performed and issued by an occupational health practitioner in the form of Annexure 3 (a template of which can be found in the Construction Regulations, 2014).



2.2 Management and Supervision of Construction Work

A principal contractor must, in writing, appoint one full-time competent person as the construction manager with the duty of managing all the construction work on a single site, including the duty of ensuring occupational health and safety compliance, and in the absence of the construction manager an alternate must be appointed by the principal contractor. Proof of all-inclusive assessment of the Construction Manager's Competency in construction management and H & S competency must be available in the Safety File. The Construction Manager must, as a minimum, have a Construction Regulation course. No contractors may be left unsupervised on site by the principal contractor.

A principal contractor must upon having considered the size of the project, in writing appoint one or more assistant construction managers for different sections thereof: Provided that the designation of any such person does not relieve the construction manager of any personal accountability for failing in his or her management duties in terms of this regulation.

Where the construction manager has not appointed assistant construction managers, or, in the opinion of an inspector, a sufficient number of such assistant construction managers have not been appointed, that inspector must direct the construction manager in writing to appoint the number of assistant construction managers indicated by the inspector, and those assistant construction managers must be regarded as having been appointed.

No construction manager appointed in terms of the Regulations may manage any construction work on or in any construction site other than the site in respect of which he or she has been appointed.

A contractor must, after consultation with the Client and having considered the size of the project, the degree of danger likely to be encountered or the accumulation of hazards or risks on the site, appoint a full-time or part-time construction health and safety officer in writing to assist in the control of all health and safety related aspects on the site: Provided that, where the question arises as to whether a construction health and safety officer is necessary, the decision of an inspector is decisive.

No contractor may appoint a construction health and safety officer to assist in the control of health and safety related aspects on the site unless he or she is reasonably satisfied that the construction health and safety officer that he or she intends to appoint is registered with a statutory body approved by the Chief Inspector and has necessary competencies and resources to assist the contractor

A construction manager must in writing appoint construction supervisors responsible for construction activities and ensuring occupational health and safety compliance on the construction site. Proof of all-inclusive assessment of the Construction Supervisor's competency in construction supervision and H&S competency must be available in the Safety File. The Construction Supervisor must, as a minimum, have a supervision course as per Unit Standard 262845 (Civil Engineering), 119080 (Building Construction) and 262884 (Civil Engineering).

A contractor must, upon having considered the size of the project, in writing appoint one or more competent employees for different sections thereof to assist the construction supervisor, and every such employee has, to the extent clearly defined by the contractor in the letter of appointment, the same duties as the construction supervisor: Provided that the designation of such employee does not relieve the construction supervisor of any personal accountability for failing in his or her supervisory duties.

Where the contractor has not appointed such an employee, or, in the opinion of an inspector, a sufficient number of such employees have not been appointed, that inspector must instruct the employer to appoint the number of employees indicated by the inspector.

No construction supervisor appointed may supervise any construction work on or in any construction site other than the site in respect of which he or she has been appointed: Provided that if a sufficient number of competent employees have been appropriately designated on all the relevant construction sites, the appointed construction supervisor may supervise more than one site.



2.3 Notification of Intention to Commence Construction Work

The Contractor shall notify the Provincial Director of the Department of Labour of the intention to commence construction work at least 7 days prior to the works commencing if the intended construction work will:

- Include excavation work
- Include work at height where there is a risk of falling
- Include the demolition of a structure, or
- Include the use of explosives to perform construction work.

If the construction work involves construction of a single storey dwelling for a Client, and such Client will be residing in such dwelling upon completion, the contractor must also notify the Provincial Director of the Department of Labour at least 7 days before the works commence.

This must be done on a form similar to an Annexure 2 (template of which can be found in the Construction Regulations, 2014). A copy of the notification letter to the Provincial Director shall be forwarded to the Client for record purposes.

2.4 Construction Work Permit/ Not Applicable to this project

A client who intends to have construction work carried out, must at least 30 days before that work is to be carried out apply to the provincial director in writing for a construction work permit to perform construction work on projects that will –

1. exceed 365 days and will involve more than 3600 person days of construction work; or
2. the tender value limit is grade 7, 8 or 9 of the Construction Industry Development Board (CIDB) grading.
 - Grade 7 = R60 000 000
 - Grade 8 = R 200 000 000
 - Grade 9 = No limit

A client may appoint a Construction Health and Safety Agent or Construction Health and Safety Manager to apply for this permit from the Provincial Director and construction work may not commence until the permit has been issued by the Provincial Director.

A copy of this permit will be required to be kept in the principal contractor's safety file, and the site specific number issued by the Provincial Director must be displayed at the site entrance.

A client may appoint a Construction Health and Safety Agent, or Construction Health and Safety Manager based on the scope and risk profile of construction work to represent him/her on matters of health and safety. Provided that, where the question arises as to whether a Construction Health Safety Agent or a Construction Health and Safety Manager is necessary, the decision of an inspector is decisive.

The following minimum documentation will be required during the permit application process:

- Principal Contractor's Health and Safety Plan CR 5(1)(m)
- Baseline Risk Assessment CR 5(1)(a)
- Appointed Principal Contractor's Letter for Good Standing as per CR 5(1)(j)
- Issue Register signed by Designer CR 5 (1)(c)
- Issue Register signed by Principal Contractor
- Declaration signed by Designer CR 5(1)(d) and CV
- Principal Contractor made adequate provision for the cost of health and safety measures (Bill of Quantities) CR 5(1)(g)
- Proof of Principal Contractor's competency and resources to carry out the construction work safely CR 5(1)(h)
- Appointment Letter for Construction Manager, CV, Certificates and List of projects
- Appointment Letter of Safety Officer & Safety Officer's Registration for SACPCMP



- Principal Contractor's Appointment Letter CR 5(1)(k), Company Profile and CIDB grading

After approval of the Construction Work Permit any changes made to the appointed persons on the annexure 1 must be submitted to Department of Labour for approval before the appointed persons are allowed to commence with their tasks.

PLEASE NOTE THAT THE CONSTRUCTION MANAGER (8(1)) NAMED ON THE CONSTRUCTION WORK PERMIT MUST BE THE SAME PERSON THAT ACTS AS THE CONSTRUCTION MANAGER ON SITE. IF THIS WILL NOT BE THE CASE FOR SOME REASON THEN THE SAFETY AGENT MUST BE NOTIFIED OF THE CHANGE BY THE PRINCIPAL CONTRACTOR AT LEAST 7 DAYS BEFORE THE CHANGE IS MADE SO THAT THE SAFETY AGENT CAN AMEND THE CONSTRUCTION WORK PERMIT APPLICATION AND ADVISE THE DEPARTMENT OF EMPLOYMENT AND LABOUR ACCORDINGLY.

2.5 Assignment of Contractor's Responsible Persons to Manage Health and Safety on Site

The Contractor shall submit management and supervisory appointments as well as any relevant appointments in writing (as stipulated by the Construction Regulations 2014 and the Occupational Safety and Health Act 1993), prior to commencement of work (refer to **Annexure B** at the end of this Health and Safety Specification).

2.6 Competency for Contractor's Responsible Persons

The Contractor's responsible persons shall be competent in health and safety and be familiar with the Occupational Health and Safety Act 1993, and applicable regulations. Valid proof of pertinent health and safety courses attended by such persons will be required to be presented to the Client.

2.7 Compensation of Occupational Injuries and Diseases Act 130 of 1993 (COIDA)

The successful Contractor shall submit to the Client a valid letter of good standing with the Compensation Insurer prior to appointment.

2.8 Occupational Health and Safety Policy

The Contractor shall submit their Health and Safety Policy, prior to construction commencement, signed by the Chief Executive Officer. The Policy must outline objectives and how they will be achieved and implemented within the company operations. The Policy must be communicated to all employees and proof thereof must be available in the Safety File.

2.9 Health and Safety Organogram

The Contractor shall submit an organogram, prior to construction commencement, outlining the Health and Safety Site Team that will be assigned to the project, if successful with the tender. In cases where appointments have not been made, the organogram shall reflect the position. The organogram shall be updated when there is a change in the site team.

2.10 Risk Assessments

Baseline Risk Assessment

The Client shall cause a baseline risk assessment to be conducted by a competent person before the design process and tender process commence, and the assessed risks shall form part of the health and safety specifications.

The Contractor must, before commencement of any construction work, and during construction work, have risk assessments performed by a competent person appointed in writing, which risk assessments form part of the health and safety plan to be applied on the site and must include:



- The identification of the risks and hazards to which persons may be exposed to;
- An analysis and evaluation of the risks and hazards identified; based on a documented method
- A documented plan and applicable safe work procedures to mitigate, reduce or control the risks and hazards that have been identified;
- A monitoring plan; and
- A review plan

The Contractor must ensure that, as far as is reasonably practicable, ergonomic related hazards are analysed, evaluated, and addressed in a risk assessment.

The Contractor must ensure that all employees under his control are informed, instructed and trained by a competent person regarding any hazard and the related work procedures and/or control measures **before any work commences** and thereafter **at the times determined in the risk assessment monitoring and review plan of the relevant site.**

The Principal Contractor must ensure that all contractors are informed regarding any hazard that is stipulated in the risk assessment **before any work commences** and thereafter **at the times determined in the risk assessment monitoring and review plan of the relevant site.**

The Contractor must consult with the health and safety committee or with a representative trade union or representative group of employees if no health and safety committee exists, on the monitoring and review of the risk assessments for the site.

The Contractor must ensure that copies of risk assessment for this site are available on site for inspection purposes by interested parties (inspector, the Client, Client's Safety Agent, any contractor, any employee, a representative trade union, a health and safety representative or safety committee member.

A Contractor must review the relevant risk assessment where changes are effected to the design and/or construction that result in a change to the risk profile, or when an incident has occurred.

Preventative measures must first address the elimination of the hazard or risk. Should PPE be required to reduce risk, the equipment or clothing to be used must be SABS approved.

In general, the Contractor must ensure that the Risk Assessment involves identifying the hazards present in a work activity on site. This is followed by an evaluation of the extent of the risk involved taking into account those precautions already being taken.

The following general principle should be followed when conducting a risk assessment:

- All relevant risks and/or hazards should be systematically addressed;
- The risk assessment should address what actually happens in the workplace during the work activity;
- All employees and those who may be affected must be considered, including maintenance staff, security guards, visitors, and Contractors;
- The risk assessment should highlight those groups and individuals who may be required to work alone or who have disabilities;
- The risk assessment process should take into account the existing safety measures and controls.
- The level of detail on a risk assessment should be appropriate to the level of risk.

2.11 Health and Safety Representative(s)

The Contractor shall ensure that Health and Safety Representative(s) is/are elected and trained to carry out his / her functions. The Safety Representative(s) must be democratically nominated, elected, and appointed in writing. The Health and Safety Representative(s) shall carry out regular inspections, keep records and report to the supervisor to take appropriate action. The Safety Representative(s) shall attend Health and Safety Committee Meetings. The Health and Safety Representative shall be part of the team that will



investigate incidents, accidents, and non-conformances. The Safety Representative(s) must be (a) full time employee(s) who is/are acquainted with conditions and activities at that workplace or section thereof. The Safety Representatives must have Safety Representative training and must be capable of performing their duties.

2.12 Health and Safety Committee

Where two or more health and safety representatives have been appointed on site, the Contractor shall ensure that monthly health and safety meetings are held with such representatives and minutes are kept on record. Meetings must be organized and chaired by the Contractor's Health and Safety Committee Chairperson. Minutes of these meetings must be available for the employees of the contractor to refer to.

PLEASE NOTE THAT THE SAFETY AGENT MAY REQUIRE THAT THE PRINCIPAL CONTRACTOR CONVENES A SAFETY COMMITTEE MEETING ON SITE IN THE INTERESTS OF HEALTH AND SAFETY ON SITE. SUCH COMMITTEE MEETING MAY REQUIRE ATTENDANCE OF CONTRACTORS SAFETY OFFICERS/SAFETY REPRESENTATIVES, CONSTRUCTION SUPERVISION AND THE SAFETY AGENT.

2.13 Medical Certificate of Fitness

The contractor must ensure that their employees on site have a valid medical certificate of fitness, specific to the construction work being performed, issued by an occupational health practitioner in the form of an Annexure 3 template (refer to the Construction Regulations 2014 on the Department of Labour website for a sample of this form).

Employees required to perform work at heights or from fall risk position must be medically fit to perform such work, such employee's medicals must specify "Fall Risk" or "Working at heights" in the exposure section of the annexure 3 template.

2.14 Health and Safety Training

The Contractor shall quarterly conduct a training needs analysis to ascertain what health and safety training is required. A plan of action should be devised and forwarded to the Client for records. Once the identified people have attended the training, the Contractor must provide the Client with copies of certificates obtained.

2.14.1 Induction

No Contractor may allow or permit any employee or person to enter site unless they have undergone health and safety induction training pertaining to the hazards prevalent on site at the time of entry. This includes visitors to site. The Contractor must ensure that visitors to site have the necessary protective equipment (PPE). A copy of attendance registers of all employees who attend inductions shall be kept.

2.14.2 Awareness

The Contractor shall conduct periodic toolbox talks on site, weekly or before any hazardous work takes place. The talks shall cover the relevant activity and an attendance register must be signed by all attendees. This record of who attended and the content of the topic will be kept on the site health and safety file as evidence of training.

2.15 Competency

After the Contractor has identified the training to be conducted as part of the competency requirement, and based on Risk Assessment, he shall send the relevant persons on appropriate courses and keep certificates of training for reference. Familiarity with the Health and Safety Act and Regulations is an integral part of the definition of competence. All training must be conducted by an accredited training provider and the certificates must display the applicable unit standards and the expiry dates thereof.



2.16 General Record Keeping

The Contractor shall keep and maintain Health and Safety records to demonstrate compliance with the Health and Safety Specification and the Occupational Health and Safety Act. The contractor shall ensure that all records of incidents, spot fines, training, etc. are kept on site. All documents shall be available for inspection by the Client, or the Department of Labour's Inspectors.

2.17 General Inspection, Monitoring and Reporting

The Contractor shall carry out inspections as required by this Health and Safety Specification, as well as by health and safety legislation.

2.18 Emergency Procedures

The Contractor shall submit a detailed Emergency Procedure for approval by the Client prior to commencement on site. The procedure shall detail the response plan including the following:

- List of key personnel;
- Details of emergency services;
- Actions or steps to be taken in the event of the emergency; and
- Information on hazardous materials / situations, including each material's hazardous potential impact or risk on the environment or human and measures to be taken in the event of an accident.

Emergency procedure(s) shall include, but shall not be limited to, fire, spills, accidents to employees, use of hazardous substances, dangers as a result of riot / service delivery protests / intimidation, etc. The Contractor shall advise the Client in writing of any on-site emergencies, together with a record of action taken, within 24 hours of the emergency occurring. A contact list of all service providers (Fire Department, Ambulance, Police, Medical and Hospital, etc.) must be maintained and available to site personnel.

2.19 First Aid Box and First Aid Equipment

The Contractor shall provide first aid box/es and appoint, in writing, First Aider(s) for this project in line with the results of the Contractor's risk assessment for the project, this health and safety specification as well as the provisions of the General Safety Regulations. The appointed First Aider(s) are to be sent for accredited first aid training before starting on site. Valid certificates are to be kept on site.

- First Aid box/es must be adequately stocked at all times, accessible and be controlled by a qualified First Aider.
- Perishables to be checked and replaced when expired.
- Stock per content list as per the General Safety Regulations Annexure.
- Signage to be in place.
- To be numbered and sealed with name of first aider on or above the First aid box.
- Dressing logbook to be available in the first aid box.
- If more than 5 employees are present, there must be a first aid box available.
- Register to be checked by a Competent person.

If required by the Client, the Contractor shall have a stretcher on site to be used in case of a serious incident.

2.20 Accident / Incident Reporting and Investigation

The Contractor shall, in addition to the prescribed requirements of the Occupational Health and Safety Act and General Safety Regulations, investigate, record, and report all Section 24 reportable incidents to the Client within 24 hours of the incident occurring. Incident investigations shall be conducted by the Contractor's appointed Accident Investigator – this Investigator must be a competent person or persons who have sufficient knowledge to carry out an investigation.



In the event of a fatality or a permanent disabling injury the Contractor must submit proof of reporting of incident to Department of Labour as well as proof of preventative measures to the Client. The Client reserves the right to conduct investigations into any incidents that they deem fit and the Contractor is required to provide full co-operation in this regard.

2.21 Hazards and Potential Situations

The Contractor shall immediately notify other Contractors of any hazardous or potentially hazardous situations, which may arise during performance of the activities.

2.22 Occupational Health and Safety Signage

The Contractor shall ascertain and provide adequate on site health and safety signage. This signage shall include, but shall not be limited to, Hard Hat / Helmet Area; Safety Shoes to be worn on site; Dust Masks to be worn in areas where there might be exposure to excessive dust; Ear Plugs / Muffs to be worn where there might be noise exposure over 85 dB; Gloves; Safety Goggles; Safety Harness, Workers in Excavation, traffic management, etc. The Contractor shall be responsible to maintain the quality and replacement of signage. Signage must comply with the requirements of SABS.

2.23 Management of Contractors by Principal Contractor

The Principal Contractor shall ensure that all contractors under his control are complying with the respective Health and Safety Plans, as well as Health and Safety Legislation.

2.24 Stacking of Materials

In addition to the provisions for the stacking of articles in the General Safety Regulations, 2003, the contractor must ensure that –

- a competent person is appointed in writing with the duty of supervising all stacking and storage on a construction site;
- adequate storage areas are provided;
- there are demarcated storage areas; and
- storage areas are kept neat and under control.

2.25 Housekeeping and General Safeguarding on Construction Sites

A contractor must, in addition to compliance with the Environmental Regulations for Workplaces, 1987, promulgated by Government Notice No. R. 2281 of 16 October 1987, ensure that suitable housekeeping is continuously implemented on each construction site, including-

- the proper storage of materials and equipment;
- the removal of scrap, waste and debris at appropriate intervals;
- ensuring that materials required for use, are not placed on the site so as to obstruct means of access to and egress from workplaces and passageways;
- ensuring that materials which are no longer required for use, do not accumulate on and are removed from the site at appropriate intervals;
- ensuring that waste and debris are not disposed of from a high place with a chute, unless the chute complies with the requirements set out in the regulations;
- ensuring that construction sites in built-up areas adjacent to a public way are suitably and sufficiently fenced off and provided with controlled access points to prevent the entry of unauthorized persons; and
- ensuring that a catch platform or net is erected above an entrance or passageway or above a place where persons work or pass under or fencing off the danger area if work is being performed above such entrance, passageway, or place so as to ensure that all persons are kept safe in the case of danger or possibility of persons being struck by falling objects.



2.26 Construction Vehicles and Mobile Plant

A contractor must ensure that all construction vehicles and mobile plant-

- are of an acceptable design and construction;
- are maintained in a good working order;
- are used in accordance with their design and the intention for which they were designed, having due regard to safety and health;
- are operated by a person who-
 - has received appropriate training, is certified competent and in possession of proof of competency and is authorised in writing to operate those construction vehicles and mobile plant;
 - has a medical certificate of fitness to operate those construction vehicles and mobile plant, issued by an occupational health practitioner in the form of Annexure 3.
- have safe and suitable means of access and egress;
- are properly organized and controlled in any work situation by providing adequate signalling or other control arrangements to guard against the dangers relating to the movement of vehicles and plant, in order to ensure their continued safe operation;
- are prevented from falling into excavations, water, or any other area lower than the working surface by installing adequate edge protection, which may include guard-rails and crash barriers;
- are fitted with structures designed to protect the operator from falling material or from being crushed should the vehicle or mobile plant overturn;
- are equipped with an acoustic warning device which can be activated by the operator;
- are equipped with an automatic acoustic reversing alarm;
- are equipped with fire extinguishers (2.5 – 4.5 kg); and
- are inspected by the authorised operator or driver on a daily basis using a relevant checklist prior to use and that the findings of such inspection are recorded in a register kept in the construction vehicle or mobile plant.

A contractor must ensure that-

- no person rides or is required or permitted to ride on a construction vehicle or mobile plant otherwise than in a safe place provided thereon for that purpose;
- every construction site is organized in such a way that, as far as is reasonably practicable, pedestrians and vehicles can move safely and without risks to health;
- the traffic routes are suitable for the persons, construction vehicles or mobile plant using them, are sufficient in number, in suitable positions and of sufficient size;
- every traffic route is, where necessary, indicated by suitable signs;
- all construction vehicles and mobile plant left unattended at night, adjacent to a public road in normal use or adjacent to construction areas where work is in progress, have appropriate lights or reflectors, or barricades equipped with appropriate lights or reflectors, in order to identify the location of the vehicles or plant;
- all construction vehicles or mobile plant when not in use, have buckets, booms, or similar appendages, fully lowered, or blocked, controls in a neutral position, motors stopped, wheels chocked, brakes set, and ignition secured;
- whenever visibility conditions warrant additional lighting, all mobile plant are equipped with at least two headlights and two taillights when in operation;
- tools, material, and equipment are secured and separated by means of a physical barrier in order to prevent movement when transported in the same compartment with employees;
- vehicles used to transport employees have seats firmly secured and adequate for the number of employees to be carried; and
- all construction vehicles or mobile plant travelling, working, or operating on public roads comply with the requirements of the National Road Traffic Act, 1996.
- all plant and vehicles are to be fitted with amber rotating beacons and reverse alarms.
- ALL construction site vehicles must be inspected daily especially if it has dangerous "items" (fuel, explosives, etc.) on vehicle, completed inspection registers must also be available for inspection.
- the vehicles must resemble the original manufacturer's product. Levers, alarms, and amber lights to be fitted to construction vehicle for notification of vehicle.



- fire extinguishers, signage, and licence disc to be correctly mounted and displayed.
- when the vehicle is stationary no key to be left in or on vehicle or plant.
- Drip tray must be present when stationary.

2.27 Electrical Installations and Machinery on Construction Sites

A contractor must, in addition to compliance with the Electrical Installation Regulations and the Electrical Machinery Regulations, ensure that –

- before construction commences and during the progress thereof, adequate steps are taken to ascertain the presence of and guard against danger to workers from any electrical cable or apparatus which is under, over or on the site;
- all parts of electrical installations and machinery are of adequate strength to withstand the working conditions on construction sites;
- the control of all temporary electrical installations on the construction site is designated to a competent person who has been appointed in writing for that purpose;
- all temporary electrical installations used by the contractor are inspected at least once a week by a competent person and the inspection findings are recorded in a register kept on the construction site; and
- all electrical machinery is inspected by the authorized operator or user on a daily basis using a relevant checklist prior to use and the inspection findings are recorded in a register kept on the construction site.

2.28 Use and Temporary Storage of Flammable Liquids on Construction Sites

A contractor must, in addition to compliance with the provisions for the use and storage of flammable liquids in the General Safety Regulations, 2003, ensure that –

- where flammable liquids are being used, applied, or stored at the workplace concerned, it is done in a manner that does not cause a fire or explosion hazard, and that the workplace is effectively ventilated;
- no person smokes in any place in which flammable liquid is used or stored, and the contractor must affix a suitable and conspicuous notice at all entrances to any such areas prohibiting such smoking;
- an adequate amount of efficient fire-fighting equipment is installed in suitable locations around the flammable liquids store with the recognized symbolic signs;
- only the quantity of flammable liquid needed for work on one day is taken out of the store for use;
- all containers holding flammable liquids are kept tightly closed when not in actual use and, after their contents have been used up, are removed from the construction site and safely disposed of;
- where flammable liquids are decanted, the metal containers are bonded and earthed; and
- no flammable material, including cotton waste, paper, cleaning rags or similar material is stored together with flammable liquids
- proper containers are to be used for fuel. Marked and labelled as per the content.
- diesel on site; more than 800 litres must have a certificate, fire safe certificate. Locked in a ventilated, secure area with a drip tray and have a designated, responsible person to use it.

2.29 Water environments/ Not Applicable to this project

A contractor must ensure that where construction work is done over or in close proximity to water, provision is made for –

- preventing persons from falling into water; and
- the rescuing of persons in danger of drowning.

A contractor must ensure that where a person is exposed to the risk of drowning by falling into the water, the person is provided with and wears a lifejacket.



2.30 Fire precautions on Construction Sites

A contractor must, in addition to compliance with the Environmental Regulations for Workplaces, 1987, ensure that –

- all appropriate measures are taken to avoid the risk of fire;
- sufficient and suitable storage is provided for flammable liquids, solids, and gases;
- smoking is prohibited and notices in this regard are prominently displayed in all places containing readily combustible or flammable materials;
- in confined spaces and other places in which flammable gases, vapours or dust can cause danger-
 - only suitably protected electrical installations and equipment, including portable lights, are used;
 - there are no flames or similar means of ignition;
 - there are conspicuous notices prohibiting smoking;
 - oily rags, waste, and other substances liable to ignite are without delay removed to a safe place; and
 - adequate ventilation is provided;
- combustible materials do not accumulate on the construction site;
- welding, flame cutting, and other hot work are done only after appropriate precautions have been taken to reduce the risk of fire;
- suitable and sufficient fire-extinguishing equipment is placed at strategic locations or as may be recommended by the Fire Chief or local authority concerned, and that such equipment is maintained in a good working order;
- the fire equipment contemplated above is inspected by a competent person, who has been appointed in writing for that purpose, in the manner indicated by the manufacturer thereof;
- a sufficient number of workers are trained in the use of fire-extinguishing equipment;
- where appropriate, suitable visual signs are provided to clearly indicate the escape routes in the case of a fire;
- the means of escape is kept clear at all times;
- there is an effective evacuation plan providing for all -
 - persons to be evacuated speedily without panic;
 - persons to be accounted for; and
 - plant and processes to be shut down; and
- a siren is installed and sounded in the event of a fire.

2.31 Construction Employees' Facilities

A contractor must, in terms of the Construction Regulations 2014, provide:

- Shower facilities after consultation with the employees or employees' representatives, or at least one shower facility for every 15 persons;
- at least one sanitary facility for each sex and for every 30 workers;
- Toilets to be within walking distance
- Hygiene registers to be completed
- Proof of safe disposal of effluent waste disposal certificates to be obtained
- changing facilities for each sex;
- and sheltered/shaded eating area.
- Protection from the Elements and raised off the ground.
- Every employer shall provide sanitary facilities at the workplace in accordance with the provisions of Parts F, P and Q of the National Building Regulations.
- Sufficient clean water for all employees. 500ml to each employee every hour.

A contractor must provide reasonable and suitable living accommodation for the workers at construction sites who are far removed from their homes and where adequate transportation between the site and their homes, or other suitable living accommodation, is not available.



2.32 Fall protection

The Contractor must:

- designate a competent person to be responsible for the preparation of a fall protection plan
- ensure that the fall protection plan contemplated above is implemented, amended where and when necessary and maintained as required; and
- take steps to ensure continued adherence to the fall protection plan.

A fall protection plan contemplated above must include-

- a risk assessment of all work carried out from a fall risk position and the procedures and methods used to address all the risks identified per location;
- the processes for the evaluation of the employees' medical fitness necessary to work at a fall risk position and the records thereof;
- a programme for the training of employees working from a fall risk position and the records thereof;
- the procedure addressing the inspection, testing, and maintenance of all fall protection equipment; and
- a rescue plan detailing the necessary procedure, personnel and suitable equipment required to affect a rescue of a person in the event of a fall incident to ensure that the rescue procedure is implemented immediately following the incident.

A contractor must ensure that a construction manager appointed under regulation 8(1) is in possession of the most recently updated version of the fall protection plan.

A contractor must ensure that all unprotected openings in floors, edges, slabs, hatchways, and stairways are adequately guarded, fenced, or barricaded or that similar means are used to safeguard any person from falling through such openings;

Also that no person is required to work in a fall risk position, unless such work is performed safely as contemplated in above and fall prevention and fall arrest equipment are approved as suitable and of sufficient strength for the purpose for which they are being used, having regard to the work being carried out and the load, including any person, they are intended to bear; and securely attached to a structure or plant, and the structure of plant and the means of attachment thereto are suitable and of sufficient strength and stability for the purpose of safely supporting the equipment and person who could fall, and fall arrest equipment is used only where it is not reasonably practicable to use fall prevention equipment.

2.33 Temporary works

A contractor must appoint a temporary works designer in writing to design, inspect and approve the erected temporary works on site before use.

A contractor must ensure that all temporary works operations are carried out under the supervision of a competent person who has been appointed in writing for that purpose.

A contractor must ensure that-

- all temporary works structures are adequately erected, supported, braced and maintained by a competent person so that they are capable of supporting all anticipated vertical and lateral loads that may be applied to them, and that no loads are imposed onto the structure that the structure is not designed to withstand;
- all temporary works structures are done with close reference to the structural design drawings, and where any uncertainty exists the structural designer should be consulted;
- detailed activity specific drawings pertaining to the design of temporary works structures are kept on the site and are available on request to an inspector, other contractors, the Client, the Client's Safety Agent, or any employee;
- all persons required to erect, move, or dismantle temporary works structures are provided with adequate training and instruction to perform those operations safely;
- all equipment used in temporary works structure are carefully examined and checked for suitability by a competent person, before being used;



- all temporary works structures are inspected by a competent person immediately before, during and after the placement of concrete, after inclement weather or any other imposed load and at least on a daily basis until the temporary works structure has been removed and the results have been recorded in a register and made available on site;
- no person may cast concrete, until authorization in writing has been given by the competent person contemplated above;
- if, after erection, any temporary works structure is found to be damaged or weakened to such a degree that its integrity is affected, it is safely removed or reinforced immediately;
- adequate precautionary measures are taken in order to–
 - secure any deck panels against displacement; and
 - prevent any person from slipping on temporary works due to the application of release agents;
- as far as is reasonably practicable, the health of any person is not affected through the use of solvents or oils or any other similar substances;
- upon casting concrete, the temporary works structure is left in place until the concrete has acquired sufficient strength to safely support its own weight and any imposed load, and is not removed until authorization in writing has been given by the competent person
- the foundation conditions are suitable to withstand the loads caused by the temporary works structure and any imposed load in accordance with the temporary works design.
- provision is made for safe access by means of secured ladders or staircases for all work to be carried out above the foundation bearing level;
- a temporary works drawing, or any other relevant document includes construction sequences and methods statements;
- the temporary works designer has been issued with the latest revision of any relevant structural design drawing;
- a temporary works design and drawing is used only for its intended purpose and for a specific portion of a construction site; and
- the temporary works drawings are approved by the temporary works designer before the erection of any temporary works.

No contractor may use a temporary works design and drawing for any work other than its intended purpose.

2.34 Excavation

A contractor must-

- ensure that all excavation work is carried out under the supervision of a competent person who has been appointed in writing for that purpose; and
- evaluate, as far as is reasonably practicable, the stability of the ground before excavation work begins.

A contractor who performs excavation work-

- must take reasonable and sufficient steps in order to prevent, as far as is reasonably practicable, any person from being buried or trapped by a fall or dislodgement of material in an excavation;
- may not require or permit any person to work in an excavation which has not been adequately shored or braced: Provided that shoring and bracing may not be necessary where–
 - the sides of the excavation are sloped to at least the maximum angle of repose measured relative to the horizontal plane; or
 - such an excavation is in stable material: Provided that–
 - permission has been given in writing by the appointed competent person contemplated above upon evaluation by him or her of the site conditions; and
 - where any uncertainty pertaining to the stability of the soil still exists, the decision from a professional engineer or a professional technologist competent in excavations is decisive and such a decision must be noted in writing and signed by both the competent person and the professional engineer or technologist, as the case may be;



- must take steps to ensure that the shoring or bracing contemplated above is designed and constructed in a manner that renders it strong enough to support the sides of the excavation in question;
- must ensure that no load, material, plant or equipment is placed or moved near the edge of any excavation where it may cause its collapse and consequently endangers the safety of any person, unless precautions such as the provision of sufficient and suitable shoring or bracing are taken to prevent the sides from collapsing;
- must ensure that where the stability of an adjoining building, structure or road is likely to be affected by the making of an excavation, steps are taken to ensure the stability of such building, structure or road and the safety of persons;
- must cause convenient and safe means of access to be provided to every excavation in which persons are required to work, and such access may not be further than six metres from the point where any worker within the excavation is working;
- must ascertain, as far as is reasonably practicable, the location and nature of electricity, water, gas or other similar services which may in any way be affected by the work to be performed, and must before the commencement of excavation work that may affect any such service, take the steps that are necessary to render the circumstances safe for all persons involved;
- must ensure that every excavation, including all bracing and shoring, is inspected-
 - daily, prior to the commencement of each shift;
 - after every blasting operation;
 - after an unexpected fall of ground;
 - after damage to supports; and
 - after rain,by the competent person, in order to ensure the safety of the excavation and of persons, and those results must be recorded in a register kept on site and made available on request to an inspector, the Client, the Client's Safety Agent, any other contractor or any employee;
- must cause every excavation which is accessible to the public or which is adjacent to public roads or thoroughfares, or whereby the safety of persons may be endangered, to be –
 - adequately protected by a barrier or fence of at least one metre in height and as close to the excavation as is practicable; and
 - provided with warning illuminants or any other clearly visible boundary indicators at night or when visibility is poor, or have resort to any other suitable and sufficient precautionary measure where this is not practicable;
- must ensure that all precautionary measures stipulated for confined spaces as determined in the General Safety Regulations, 2003, are complied with by any person entering any excavation;
- must, where the excavation work involves the use of explosives, appoint a competent person in the use of explosives for excavation, and must ensure that a method statement is developed by that person in accordance with the applicable explosive's legislation; and
- must cause warning signs to be positioned next to an excavation within which or where persons are working or carrying out inspections or tests.

2.35 Demolition Work/ Not Applicable to this project

A contractor must appoint a competent person in writing to supervise and control all demolition work on site.

A contractor must ensure that before any demolition work is carried out, and in order to ascertain the method of demolition to be used, a detailed structural engineering survey of the structure to be demolished is carried out by a competent person and that a method statement on the procedure to be followed in demolishing the structure is developed by that person.

During a demolition, the competent person contemplated in above must check the structural integrity of the structure at intervals determined in the method statement contemplated in above, in order to avoid any premature collapses.

A contractor who performs demolition work must with regard to a structure being demolished, take steps to ensure that-



- no floor, roof or other part of the structure is overloaded with debris or material in a manner which would render it unsafe;
- all reasonably practicable precautions are taken to avoid the danger of the structure collapsing when any part of the framing of a framed or partly framed building is removed, or when reinforced concrete is cut; and
- precautions are taken in the form of adequate shoring or other means that may be necessary to prevent the accidental collapse of any part of the structure or adjoining structure;
- ensure that no person works under overhanging material or a structure which has not been adequately supported, shored, or braced;
- ensure that any support, shoring, or bracing contemplated above, is designed and constructed so that it is strong enough to support the overhanging material;
- where the stability of an adjoining building, structure or road is likely to be affected by demolition work on a structure, take steps to ensure the stability of such structure or road and the safety of persons;
- ascertain as far as is reasonably practicable the location and nature of electricity, water, gas or other similar services which may in any way be affected by the work to be performed, and must before the commencement of demolition work that may affect any such service, take the steps that are necessary to render circumstances safe for all persons involved;
- cause every stairwell used and every floor where work is being performed in a building being demolished, to be adequately illuminated by either natural or artificial means;
- cause convenient and safe means of access to be provided to every part of the demolition site in which persons are required to work; and
- erect a catch platform or net above an entrance or passageway or above a place where persons work or pass under or fence off the danger areas if work is being performed above such entrance, passageway, or place so as to ensure that all persons are kept safe where there is a danger or possibility of persons being struck by falling objects.

A contractor must ensure that no material is dropped to any point, which falls outside the exterior walls of the structure, unless the area is effectively protected.

No person may dispose of waste and debris from a high place by a chute unless the chute-

- is adequately constructed and rigidly fastened;
- if inclined at an angle of more than 45 degrees to the horizontal, is enclosed on its four sides;
- if of the open type, is inclined at an angle of less than 45 degrees to the horizontal;
- where necessary, is fitted with a gate at the bottom end to control the flow of material; and discharges into a container or an enclosed area surrounded by barriers.

A contractor must ensure that every chute used to dispose of rubble is designed in such a manner that rubble does not free-fall and that the chute is strong enough to withstand the force of the debris travelling along the chute.

A contractor must ensure that no equipment is used on floors or working surfaces unless such floors or surfaces are of sufficient strength to support the imposed loads.

Where a risk assessment indicates the presence of asbestos, a contractor must ensure that all asbestos related work is conducted in accordance with the Asbestos Abatement Regulations, 2020.

Where a risk assessment indicates the presence of lead, a contractor must ensure that all lead related work is conducted in accordance with the Lead Regulations, 2001.

Where the demolition work involves the use of explosives, a method statement must be developed in accordance with the applicable explosives legislation, by an appointed person who is competent in the use of explosives for demolition work and all persons involved in the demolition works must adhere to demolition procedures issued by the appointed person.



A contractor must ensure that all waste and debris are as soon as reasonably practicable removed and disposed of from the site in accordance with the applicable legislation.

2.36 Tunnelling/ Not Applicable to this project

No person may enter a tunnel which has a height dimension of less than 800 mm.

2.37 Scaffolding

A contractor must appoint a competent person in writing who must ensure that all scaffolding work operations are carried out under his or her supervision and that all scaffold erectors, team leaders and inspectors are competent to carry out their work as per the SANS 10085 of 2004.

A contractor using access scaffolding must ensure that such scaffolding, when in use, complies with the safety standards incorporated for this purpose into these Regulations under section 44 of the Act and SANS 10085. Scaffold must be;

- Level and balanced upon the correct footing such as base jacks, U-Jacks, and mobile wheels
- Have the correct Ledgers and bracing methods to secure the frames and Standards
- To be fully boarded with the correct edge protection on both the 0.500m and 1 metre height per working platforms.
- Working platforms to be in accordance with the Tables 4 and 5 of the SANS 10085 for weight restrictions
- Have the correct access that is fitted within the scaffold and grants access to the working platforms and must be fitted with a trap door system.
- Secured with fastening methods such as Reveals and fixed ties according to table 7 of SANS 10085. Buttresses to be used when required.
- signage must be displayed to indicate if the scaffold is safe or unsafe to use.
- Trestles to be built in accordance to section 10.16.1 of the SANS 10085 and safety requirements to be met by the scaffolding inspector and scaffold supervisors on site.

2.38 Bulk mixing plant/ Not Applicable to this project

A contractor must ensure that the operation of a bulk mixing plant is supervised by a competent person who has been appointed in writing and is –

- aware of all the dangers involved in the operation thereof; and
- conversant with the precautionary measures to be taken in the interest of health and safety.

No person supervising or operating a bulk mixing plant may authorize any other person to operate the plant unless that person is competent to operate a bulk mixing plant.

A contractor must ensure that the placement and erection of a bulk mixing plant complies with the requirements set out by the manufacturer and that such plant is erected as designed.

A contractor must ensure that all devices to start and stop a bulk mixing plant are provided and that those devices are placed in an easily accessible position and constructed in a manner to prevent accidental starting.

A contractor must ensure that the machinery and plant selected is suitable for the mixing task and that all dangerous moving parts of a mixer are placed beyond the reach of persons by means of doors, covers or other similar means.

No person may remove or modify any guard or safety equipment relating to a bulk mixing plant, unless authorized to do so by the appointed person.

A contractor must ensure that all precautionary measures stipulated for confined spaces as determined in the General Safety Regulations, 2003, are complied with when entering any silo.



A contractor must ensure that a record is kept of all repairs or maintenance to a bulk mixing plant and that the record is available on site to an inspector, the Client, the Client's Safety Agent, or any employee.

2.39 Rope Access Work

A contractor must –

- appoint a competent person in writing as a rope access supervisor with the duty of supervising all rope access work on the site, including the duty of ensuring occupational health and safety compliance in relation to rope access work: Provided that the appointment of any such person does not relieve the construction manager of any personal accountability for failing in his management duties in terms of this regulation;
- ensure that all rope access work on the construction site is carried out under the supervision of a competent person; and
- ensure that all rope access operators are competent and licensed to carry out their work.

No contractor may use or allow the use of rope access work unless –

- the design, selection and use of the equipment and anchors comply with the safety standards incorporated for this purpose into these Regulations under section 44 of the Act; and
- he or she is in possession of a site specific fall protection plan developed by a competent person applicable to the specific work and environment prior to the commencement of the work, including records of maintenance and inspections of all the equipment used for the work operations.

A contractor must ensure that adequate measures are in place to allow rescue procedures to commence immediately in the event of a fall incident taking place.

2.40 Hazardous Chemical Substances (HCS)

In addition to the requirements in the HCS Regulations, the principal contractor must provide proof in the Health and Safety Plan that:

- Material Safety Data Sheets (MSDS's) of the relevant materials / hazardous chemical substances are available prior to use by the contractor. All MSDS's shall be available for inspection by the agent at all times.
- Risk assessments are done at least once every 6 months.
- Exposure monitoring is done according to OESSM and by an Approved Inspection Authority (AIA) and that the medical surveillance programme is based on the outcomes of the exposure monitoring.
- How the relevant HCS's are being/going to be controlled by referring to:
 - Limiting the amount of HCS
 - Limiting the number of employees
 - Limiting the period of exposure
 - Substituting the HCS
 - Using engineering controls
 - Using appropriate written work procedures
- The correct PPE is being used.
- HCS are stored and transported according to SABS 072 and 0228.
- Training with regards to these regulations was given.

The Health and Safety plan should make reference to the disposal of hazardous waste on classified sites and the location thereof (where applicable).

The First Aider must be made aware of the MSDS and trained in how to treat HCS incidents appropriately.



2.41 Noise Induced Hearing Loss

Where noise is identified as a hazard the requirements of the NIHL regulations must be complied with and the following must be included / referred to in the Health and Safety Plan:

- Proof of training with regards to these regulations.
- Risk assessment done within 1 month of commencement of work.
- That monitoring carried out by an AIA and done according to SABS 083.
- Medical surveillance programme established and maintained for the necessary employees.
- Control of noise by referring to:
 - Engineering methods considered
 - Admin control (number of employees exposed) considered
 - Personal protective equipment considered/decided on
- Describe how records are going to be kept for 40 years.

2.42 Explosives and Blasting/ Not Applicable to this project

The Contractor shall ensure that the use of explosives and blasting (where required) be undertaken by a specialist contractor or a Contractor with proven track record in the type of work to be performed.

The Contractor may only use explosives for work purposes where the following conditions in place:

- Explosives Regulations to be complied with in all respects.
- Contractor must be in possession of a Blasting Licence
- Blasting permit to be obtained
- Permit to transport explosives to be obtained
- Method statement to be drawn up and approved by professional team
- Municipal authorities may require advance notice of planned use of explosives
- Contractor must notify Provincial Director of Department of Labour on Annexure 2 at least 7 days prior to blasting taking place
- Contractor must have Workman's Compensation and appropriate insurances in place

2.43 Personal Protective Equipment (PPE)

The Contractor shall carry out PPE or clothing needs analysis in accordance with his risk assessment, to determine the necessary PPE or clothing to be used during construction. The Contractor shall make provision to keep adequate quantities of appropriate, SABS approved PPE or clothing on site at all times.

The Contractor must ensure that personnel are trained in the correct use of PPE to be used.

The Contractor must ensure that lost, stolen, worn out or damaged PPE is replaced as required and receipt signed for by employees on site.

2.44 Asbestos/ Not Applicable to this project

The Contractor shall ensure that all asbestos work is done only by registered "Asbestos Contractor" as prescribed by the Asbestos Abatement Regulations, 2020. The Contractor shall submit an Asbestos Certificate from Department of Labour which refer to the prescribed requirements. The Contractor shall notify The Client if there are any asbestos materials to be used on site.

"asbestos clearance certificate" means a written document verifying that the regulated asbestos fibre concentration in the air meets the clearance indicator;



"type 1 asbestos work" means:

(a) painting of asbestos cement products in a manner that does not require surface preparation and does not cause the release of asbestos fibres; or

(b) the removal of less than 10 square metres of asbestos cement products or equivalent gutters and piping or asbestos insulating board, where removal work may not be repeated on the same site within a period of six months; and does not require registration as a registered asbestos contractor with the chief inspector;

"type 2 asbestos work" means:

(a) the repair or encapsulation of asbestos cement products in a manner that does not require surface preparation; or

(b) the removal of asbestos cement products or asbestos insulating board; and, requires registration as a type 2 registered asbestos contractor with the chief inspector;

"type 3 asbestos work" means:

(a) the removal, repair or encapsulation of any asbestos and asbestos-containing material; and, requires registration as a type 3 registered asbestos contractor with the chief inspector;

Besides the requirements listed above, should asbestos be identified as a hazard at the workplace, the contractor must, as per AAR 2020, include the following in the health and safety plan/file and must be implemented on site:

- An asbestos risk assessment must be carried out, as far as is reasonably practicable, immediately by a competent person and thereafter at intervals not exceeding 24 months.
- If asbestos-containing materials are identified a written asbestos management plan for the workplace must be prepared by a competent person.
- Train Employees, visitors and persons who may have incidental asbestos exposure to asbestos.
- The Chief Director: Provincial Operations must be notified as per the Annexure 2 when asbestos work will be done, at least seven days prior to commencement of work.
- The contractor may only undertake the type of asbestos work for which they are registered by the chief inspector.
- Must appoint an occupational health and safety representative as contemplated in section 17 of the Act.
- Submit the approved plan of work to the Chief Director: Provincial Operations at least seven days prior to commencement of asbestos work.
- Appoint an asbestos removal supervisor for each asbestos work site.
- Adhere to the repair or removal methodology and associated control measures provided in the plan of work approved for that specific asbestos work.
- Ensure that the employee medical and training records are available on site for inspection and validation.
- Keep employee information for a minimum period of 50 years.
- For type 2 and type 3 asbestos work, ensure that air monitoring is in place.
- All asbestos contractor employees must be put under medical surveillance.
- Close off all asbestos containing or affected areas.
- The contractor must provide the required PPE, washing facilities and decontamination facilities as per the type of asbestos work.
- A document must be obtained from the asbestos disposal site for all asbestos waste removed from the workplace; all asbestos waste is disposed of only on sites specifically designated for this purpose
- When all asbestos is removed an inspection must be done by and approved inspection authority and an asbestos clearance certificate issued.
- Comply with the Prohibitions in regulation 24.



2.45 Pressure Vessels (Including Gas Bottles)

The Contractor shall comply with Pressure Vessel Regulations, including:

- Providing competency and awareness training to the operators;
- Providing PPE or clothing;
- Providing and maintain appropriate signage in areas where pressure vessels are used, as applicable;
- Inspect equipment regularly and keep records of inspections;
- Providing appropriate firefighting equipment (Fire Extinguishers).
- Under pressure vessels to have the following in place;
 - Service date
 - Seals on valves with no leaks and not broken
 - flash arrestors
 - Should be stored and chained together
 - Oxygen / Acetylene bottles to have clips
 - Signage to be visible
 - Gauges in working condition and be visible
 - Permits for use
 - Pressure equip Regs 6. (1) The user shall ensure that the pressure equipment is operated and maintained within its design and operating parameters.

2.46 Fire Extinguishers and Fire Fighting Equipment

The Contractor shall provide adequate, regularly serviced fire extinguishers located at strategic points on site. The Contractor shall keep spare serviced portable fire extinguishers. The Contractor shall have adequate persons trained or competent to use the Fire Fighting Equipment.

Safety signage shall be posted up in all areas where fire extinguishers are located.

2.47 Lifting Machinery and Tackle

The Contractor shall ensure that lifting machinery and tackle is inspected before use and on a monthly basis. The Contractor shall have lifting machinery and tackle inspector who will inspect the equipment at intervals required by the Driven Machinery Regulations, taking into account that:

- All lifting machinery and tackle have a safe working load clearly indicated
- Regular inspection and servicing is carried out
- Records are kept of inspections and of service certificates
- Thorough examinations are carried out by competent personnel at the frequencies required by legislation
- There is proper supervision in terms of guiding the loads which includes a trained banks man to direct and check lifting tackle if it is safe for use
- Forklift to be inspected every year and lift plan every 2 years
- Load test certificate to be no older than 6 months
- Sufficient props to be used and max weight to be displayed
- Slings to be checked with regard to integrity, chains, serial numbers, checked for tears, cuts links and all other materials
- Hooks to be oiled, not in a fixed position and closed to prevent materials from slipping/falling off
- Lifting equipment must be used for the scope of work carried out

2.48 Ladders and Ladder work

The Contractor shall ensure that all ladders are numbered and inspected regularly keeping record of inspections. It should be noted that Aluminium ladders are preferred to wooden ladders.



2.49 General Machinery

The Contractor shall comply with the Driven Machinery Regulations, which include inspecting machinery regularly, appointing a competent person to inspect and ensure maintenance, issuing PPE or clothing and training those that use machinery and enforce compliance.

2.50 Portable Electrical Tools

The Contractor shall ensure that use and storage of all explosive actuating fastening devices and portable electrical tools are in compliance with relevant legislation.

The Contractor shall consider that:

- A competent person undertakes routine inspections;
- Only authorised persons use the tools;
- There are safe working procedures applied;
- Awareness training is carried out and compliance is enforced at all times; and
- PPE and clothing is provided and maintained.

2.51 High Voltage Electrical Equipment

The Contractor shall ensure that, where the work is under, on or near high-voltage electrical equipment the Electrical Installation Regulations, together with safety instructions (Regulations of the Owner of the Equipment) are complied with. Such equipment includes:

- Eskom and the Local Authority equipment
- The Contractor's own power supply; and
- Electrical equipment being installed but not yet taken over from a Contractor by The Client.

2.52 Public Health and Safety

The Contractor shall ensure that each person working on or visiting a site, and the surrounding community, shall be made aware of the dangers likely to arise from onsite activities and the precautions to be observed to avoid or minimize those dangers. Appropriate health and safety signage shall be posted at all times.

2.53 Night Work/ Not Applicable to this project

The Contractor shall not undertake any night work without prior arrangement and a written permit from the Client. The Contractor shall ensure that adequate lighting is provided for all night work and failure to do so shall result in work being stopped.

2.54 Environmental Conditions and Flora and Fauna

The Contractor must be mindful of adverse weather conditions upon the health and safety of the workforce. This includes inclement weather, strong wind, heat stress, extreme cold, etc. The Contractor's risk assessment process must take into account the risks associated with such weather conditions. The same is true when working in an environment where there is a risk to employees' health and safety from presence of poisonous flora, or wildlife (including bees, snakes, etc). The Contractor's risk assessment process must take these risks into account.



2.55 Occupational Health

Exposure of workers to occupational health hazards and risks are quite common in any work environment, especially in construction. Occupational health hazards and risks exposure is a major problem and all Contractors are to ensure that proper health and hygiene measures are put in place to prevent exposure to these hazards and risks.

The occupational hazards and risks may enter the body in three ways:

- Inhalation through breathing e.g. cement dust;
- Ingestion through swallowing maybe through food intake;
- Absorption through the skin (pores) e.g. painting or use of thinners.

The contractor is required to ensure that all his personnel are medically fit prior to being allowed onto the work site.

All Contractors should ensure that Occupational Hygiene surveys are conducted as per the Occupational Health and Safety Act to ensure employees are not exposed to hazards. Risk Assessments should identify areas where surveys are to be conducted.

2.56 Suspended Platforms/ Not Applicable to this project

A contractor must appoint a competent person in writing who must ensure that all suspended platforms work operations are carried out under his or her supervision and that all suspended platform erectors, operators and inspectors are competent to carry out their work.

No contractor may use or permit the use of a suspended platform, unless-

- the design, stability and construction thereof comply with the safety standards incorporated for this purpose into these Regulations under section 44 of the Act;
- he or she is in possession of a certificate of system design issued by a professional engineer, certificated engineer, or a professional technologist for the use of the suspended platform system; and
- he or she is, before the commencement of the work, in possession of an operational compliance plan developed by a competent person based on the certificate of system design contemplated above and applicable to the environment in which the system is being used, which operational compliance plan must include proof of the-
 - appointment of the competent person;
 - competency of erectors, operators, and inspectors;
 - operational design calculations, which must comply with the requirements of the system design certificate;
 - performance test results;
 - sketches indicating the completed system with the operational loading capacity of the platform;
 - procedures for and records of inspections having been carried out; and
 - procedures for and records of maintenance work having been carried out.

A contractor making use of a suspended platform system must submit a copy of the certificate of system design, including a copy of the operational design calculations, sketches and test results, to the provincial director before commencement of the use of the system and must further indicate the intended type of work that the system will be used for.

A contractor must submit a copy of the certificate of system design as per regulations for every new project.

A contractor must ensure that the outriggers of each suspended platform-

- are constructed of material of adequate strength and have a safety factor of at least four in relation to the load it is to carry; and



- have suspension points provided with stop devices or other effective devices at the outer ends to prevent the displacement of ropes.

A contractor must ensure that-

- the parts of the building or structure on which the outriggers of a suspended platform are supported, are checked by means of calculations to ensure that the required safety factor is adhered to without risk of damage to the building or structure;
- the suspension wire rope and the safety wire rope are separately connected to the outrigger;
- each person on a suspended platform is provided with and wears a body harness as a fall prevention device, which must at all times be attached to the suspended platform;
- the hand or power driven machinery to be used for the lifting or lowering of the working platform of a suspended platform is constructed and maintained in such a manner that an uncontrolled movement of the working platform cannot occur;
- the machinery referred to above is so situated that it is easily accessible for inspection;
- the rope connections to the outriggers are vertically above the connections to the working platform; and
- when the working platform is suspended by two ropes only, the connections of the ropes to the working platform are of a height above the level of the working platform to ensure the stability of the working platform.

A contractor must ensure that a suspended platform-

- is suspended as near as possible to the structure to which work is being done to prevent as far as is reasonably practicable horizontal movement away from the face of the structure;
- is fitted with anchorage points to which workers must attach the lanyard of the safety harness worn and used by the worker, and such anchorage connections must have sufficient strength to withstand any potential load applied to it; and
- is fitted with a conspicuous notice easily understandable by all workers working with the suspended platform, showing-
 - the maximum mass load;
 - the maximum number of persons; and
 - the maximum total mass load, including load and persons, which the suspended platform can carry.

A contractor must cause-

- the whole installation and all working parts of a suspended platform to be thoroughly examined by a competent person in accordance with manufacturer's specification;
- the whole installation to be subjected to a performance test as determined by the standard to which the suspended platform was manufactured;
- the performance test contemplated above to be done by a competent person appointed in writing, with the knowledge and experience of erection and maintenance of suspended platforms or similar machinery, and who must determine the serviceability of the structures, ropes, machinery and safety devices before they are used, every time suspended platforms are erected; and
- the performance test contemplated above of the whole installation of the suspended platform to be subjected to a load equal to that prescribed by the manufacturer or, in the absence of such load, to a load of 110% of the rated mass load, at intervals not exceeding 12 months and in such a manner that every part of the installation is stressed accordingly.

A contractor must cause every hoisting rope, hook or other load-attaching device which forms part of the suspended platform to be thoroughly examined in accordance with the manufacturer's specification by the competent person before they are used every time they are assembled, and, in cases of continuous use, at intervals not exceeding three months.

A contractor must ensure that the suspended platform supervisor or the suspended platform inspector carries out a daily inspection of all the equipment prior to use, including establishing whether –

- all connection bolts are secure;
- all safety devices are functioning;
- all safety devices are not tampered with or vandalized;



- the total maximum mass load of the platform is not exceeded;
- the occupants in the suspended platform are using body harnesses which have been properly attached;
- there are no visible signs of damage to the equipment; and
- all reported operating problems have been attended to.

A contractor must ensure that all inspection and performance test records are kept on the construction site at all times and made available to an inspector, the Client, the Client's Safety Agent, or any employee upon request.

A contractor must ensure that all employees required to work or to be supported on a suspended platform are –

- medically fit to work safely in a fall risk position or such similar environment by being in possession of a medical certificate of fitness;
- competent in conducting work related to suspended platforms safely;
- trained or received training, which includes at least-
 - how to access and egress the suspended platform safely;
 - how to correctly operate the controls and safety devices of the equipment;
 - information on the dangers related to the misuse of safety devices; and
 - information on the procedures to be followed in the case of-
 - an emergency;
 - the malfunctioning of equipment; and
 - the discovery of a suspected defect in the equipment; and
 - instructions on the proper use of body harnesses.

A contractor must ensure that where the outriggers of a suspended platform are to be moved, only persons trained and under the supervision of the competent person effect such move, within the limitation stipulated in the operational compliance plan, and that the supervisor must carry out an inspection and record the result thereof prior to re-use of the suspended platform.

A contractor must ensure that the suspended platform is properly isolated after use at the end of each working day in such a manner that no part of the suspended platform presents a danger to any person thereafter.

2.57 Material Hoists/ Not Applicable to this project

A contractor must ensure that every material hoist and its tower have been constructed in accordance with the generally accepted technical standards and are strong enough and free from defects.

A contractor must ensure that the tower of every material hoist is –

- erected on firm foundations and secured to the structure or braced by steel wire guy ropes, and extends to a distance above the highest landing to allow a clear and unobstructed space of at least 900 mm for over travel;
- enclosed on all sides at the bottom, and at all floors where persons are at risk of being struck by moving parts of the hoist, except on the side or sides giving access to the material hoist, with walls or other effective means to a height of at least 2100 mm from the ground or floor level; and
- provided with a door or gate at least 2100mm in height at each landing, and that door or gate must be kept closed except when the platform is at rest at such a landing.

A contractor must cause –

- the platform of every material hoist to be designed in a manner that it safely contains the loads being conveyed and that the combined mass of the platform and the load does not exceed the designed lifting capacity of the hoist;
- the hoisting rope of every material hoist which has a remote winch to be effectively protected from damage by any external cause to the portion of the hoisting rope between the winch and



- the tower of the hoist; and
- every material hoist to be provided with an efficient brake capable of holding the platform with its maximum load in any position when power is not being supplied to the hoisting machinery.

No contractor may require or permit trucks, barrows or material to be conveyed on the platform of a material hoist and no person may so convey trucks, barrows or material unless those articles are secured or contained in a manner that displacement thereof cannot take place during movement.

A contractor must cause a notice, indicating the maximum mass load which may be carried at any one time and the prohibition of persons from riding on the platform of the material hoist, to be affixed around the base of the tower and at each landing.

A contractor of a material hoist may not require or permit any person to operate a hoist unless the person is competent in the operation of that hoist.

No contractor may require or permit any person to ride on a material hoist.

A contractor must ensure that every material hoist-

- is inspected on daily basis by a competent person appointed in writing by the contractor and such competent person must have the experience pertaining to the erection and maintenance of material hoists or similar machinery;
- inspection contemplated above, includes the determination of the serviceability of the entire material hoist, including guides, ropes and their connections, drums, sheaves or pulleys and all safety devices;
- inspection results are entered and signed in a record book by a competent person, which book must be kept on the premises for that purpose;
- is properly maintained and the maintenance records in this regard are kept on site.

2.58 Explosive Actuated Fastening Device/ Not Applicable to this project

No contractor may use or permit any person to use an explosive actuated fastening device, unless-

- the user is provided with and uses suitable protective equipment;
- the user is trained in the operation, maintenance and use of such a device
- the explosive actuated fastening device is provided with a protective guard around the muzzle end, which effectively confines any flying fragments or particles; and
- the firing mechanism is so designed that the explosive actuated fastening device, will not function unless-
 - it is held against the surface with a force of at least twice its weight; and
 - the angle of inclination of the barrel to the work surface is not more than 15 degrees from a right angle.

A contractor must ensure that-

- only cartridges suited for the relevant explosive actuated fastening device, and the work to be performed, are used;
- an explosive actuated fastening device is cleaned and examined daily before use and as often as may be necessary for its safe operation by a competent person who has been appointed for that purpose;
- the safety devices of an explosive actuated fastening device are in good working order prior to use;
- when not in use, an explosive actuated fastening device and its cartridges are locked up in a safe place, which is inaccessible to unauthorized persons;
- an explosive actuated fastening device is not stored in a loaded condition;
- a warning notice is displayed in a conspicuous manner in the immediate vicinity wherever an explosive actuated fastening device is used; and
- the issuing and collection of cartridges and nails or studs of an explosive actuated fastening device



are-

- controlled and done in writing by a person having been appointed in writing for that purpose; and
- recorded in a register by a competent person and that the recipient has accordingly signed for the receipt thereof as well as the returning of any spent and unspent cartridges.

2.59 Confined Spaces

Confined space work must be closely monitored by a competent person appointed by the contractor, to include, but not restricted to, ensuring that the confined space is sufficiently ventilated prior to entry. Oxygen levels to be tested in confined space to ensure that it is safe for entry. Permit system to be in place to declare confined space safe for entry prior to entry. PPE must be worn (such as proper masks) if air supply is insufficient or not of sufficient quality.

Sufficient training must take place in use of all confined space monitoring and access equipment prior to any works commencing in such confined space. It is strongly recommended that a tripod and winch system be in place to afford easy access and egress and for emergency evacuation from the confined space (manholes and chambers). Please also refer to GSR5 on safety requirements for Work in Confined Spaces.

General safety Regulations 5.

(1) An employer or a user of machinery shall take steps to ensure that a confined space is entered by an employee or other person only after the air therein has been tested and evaluated by a person who is competent to pronounce on the safety thereof, and who has certified in writing that the confined space is safe and will remain safe while any person is in the confined space, taking into account the nature and duration of the work to be performed therein.

(2) Where the provisions of sub regulation (1) cannot be complied with the employer or user of machinery, as the case may be, shall take steps to ensure that any confined space in which there exists or is likely to exist a hazardous gas, vapour, dust or fumes, or which has or is likely to have, an oxygen content of less than 20 per cent by volume, is entered by an employee or other person only when-- (a) subject to the provisions of sub regulation (3), the confined space is purged and ventilated to provide a safe atmosphere therein and measures necessary to maintain a safe atmosphere therein have been taken; and (b) the confined space has been isolated from all pipes, ducts and other communicating openings by means of effective blanking other than the shutting or locking of a valve or a cock, or, if this is not practicable, only when all valves and cocks which are a potential source of danger have been locked and securely fastened by means of chains and padlocks.

(3) Where the provisions of sub regulation (2)(a) cannot be complied with, the employer or user of machinery shall take steps to ensure that the confined space in question is entered only when the employee or person entering is using breathing apparatus of a type approved by the chief inspector and, further, that—

(a) the provisions of sub regulation (2) (b) are complied with;

(b) any employee or person entering the confined space is using a safety harness or other similar equipment, to which a rope is securely attached which reaches beyond the access to the confined space, and the free end of which is attended to by a person referred to in paragraph (c);

(c) at least one other person trained in resuscitation is and remains in attendance immediately outside the entrance of the confined space in order to assist or remove any or persons from the confined space, if necessary; and

(d) effective apparatus for breathing and resuscitation of a type approved by the chief inspector is available immediately outside the confined space.

(4) An employer or user of machinery shall take steps to ensure that all persons vacate a confined space on completion of any work therein.

(5) Where the hazardous gas, vapour, dust or fumes contemplated in sub regulation (2) are of an explosive or flammable nature, an employer or user of machinery shall further take steps to ensure that such a confined space is entered only if –



- (a) the concentration of the gas, vapour, dust or fumes does not exceed 25 per cent of the lower explosive limit of the gas, vapour, dust or fumes concerned where the work to be performed is of such a nature that it does not create a source of ignition; or
- (b) such concentration does not exceed 10 per cent of the lower explosive limit of the gas, vapour, dust or fumes where other work is performed.

2.60 Alcohol and drugs (GSR 2)

1. A contractor shall not permit any person who is or who appears to be under the influence of intoxicating liquor or drugs, to enter or remain at a site.
2. No employee shall be under the influence of or have in his or her possession or partake of or offer any other person intoxicating liquor or drugs.
3. An employer or a user, as the case may be, shall, in the case where a person is taking medicines, only allow such person to perform duties at the site if the side effects of such medicine do not constitute a threat to the health or safety of the person concerned or other persons at such site.

2.61 COVID-19 (PLEASE NOTE THAT THIS SECTION IS CONSTANTLY UNDER REVIEW)

This section is based on the requirements of Government Gazette No 43257 dated 29th April 2020, and the latest Disaster Management Act 2002.

The importance of the management and control of this virus by contractors on site is paramount.

For this reason no work is permitted on site until the contractor has submitted proposals in their safety plan to the safety agent and professional team on how the risk of COVID-19 transmission on site will be managed by the contractor (monitoring and implementation of control measures through administrative, physical and other control measure).

DEFINITIONS (Disaster management Act of 2002)

'adequate space' means not more than one person per one and a half metres of floor space;

'Alert Level' means the determination made under sub regulation 3(2);

'clinical case' means a patient that presents with clinical signs and symptoms of COVID-19;

'COVID -19' means the Novel Coronavirus (2019- nCov2) which is an infectious disease caused by a virus that has previously not been scientifically identified in humans, which emerged during 2019 and was declared a global pandemic by the WHO in 2020;

'Criminal Procedure Act' means the Criminal Procedure Act, 1977 (Act No 51 of 1977);

'enforcement officer' includes a member of the South African Police Service, the South African National Defence Force. metro police. traffic officers, immigration inspectors; and a peace officer as defined in section 1 of the Criminal Procedure Act;

'essential services' means the services listed in Annexure D;

'face mask' means a cloth face mask or homemade item that covers the nose and mouth, or another appropriate item to cover the nose and mouth;

'gathering' means any assembly, concourse or procession in or on -

- (a) any public road, as defined in the National Road Traffic Act, 1996 (Act No. 93 of 1996); or
- (b) any other building, place or premises. including wholly or partly in the open air, and



including, but not limited to, any premises or place used for any sporting, entertainment, funeral, recreational, religious, or cultural purposes; but excludes a workplace and a place of residence for those persons ordinarily residing at the residence;

'health protocols' means the COVID-19 health protocols determined by the Director General of Health;

'head of an institution' means the accounting officer of a public institution and the chief executive officer or the equivalent of a chief executive officer of a private institution;

'institution' means any public or private institution, including a sole practitioner and any other business owned and operated by a single person, that is engaged in the supply or distribution of a good or service as set out in the Table 1, or which regulates such supply or distribution, including professional regulatory bodies designated in directions made in terms of regulation 4 of the Regulations;

'isolation' means separating a sick individual with a contagious disease from healthy individuals that are not infected with such disease in a manner that aims to prevent the spreading of infection or contamination;

'national state of disaster' means the national state of disaster declared by Government Notice No. R. 313 of 15 March 2020;

'quarantine' means the restriction of activities or separation of a person, who was or may potentially have been exposed, to COVID-19 and who could potentially spread the disease to other non -exposed persons, to prevent the possible spread of infection or contamination to healthy individuals;

'the Act' means the Disaster Management Act, 2002 (Act No. 57 of 2002); and

'WHO' means the World Health Organisation.

Coronaviruses are a large family of viruses which may cause illness in animals or humans. In humans, several Coronaviruses are known to cause respiratory infections ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS) and Severe Acute Respiratory Syndrome (SARS). The most recently discovered Coronavirus causes Coronavirus disease COVID-19.

COVID 19 is a viral pandemic that has and is causing a great deal of damage to human health, countries' economies and health systems and has led to lock downs, work stoppages and restriction of movement that threatens the existence of many jobs, as well as the way we conduct our normal working and social lives.

In response to the pandemic the government has passed legislation and guidance for employers and employees in the work environment.

People can catch COVID-19 from others who have the virus. The disease can spread from person to person through small droplets from the nose or mouth which are spread when a person with COVID-19 coughs or exhales. These droplets land on objects and surfaces around the person. Other people then catch COVID-19 by touching these objects or surfaces, then touching their eyes, nose or mouth. People can also catch COVID-19 if they breathe in droplets from a person with COVID-19 who coughs out or exhales droplets. This is why it is important to stay more than one meter away from a person who is sick.

Please refer to Annexure A for details on the criteria that must be considered in the contractor's safety plan response.



2.62 General Practices when Working at Heights

- No Homemade structures or ladders will be permitted on the project.
- Trestle tables are not to be fully extended and must be fully boarded, no drums to be used.
- Surroundings to be clear of rubble.
- Fall protection, fall prevention, and fall rescue plans to be in place and communicated to site employees.
- Ladders to be structurally sound and not broken and in accordance to GSR 13A.
- Only competent persons may be allowed to work at heights
- Correct personal protective equipment to be used (safety harness and lanyard) and edge protection / life lines to be used.
- Anchor points to be in place and determined by an engineer. Anchor points must be pull tested prior to use.
- GSR (6) 6. No employer shall require or permit any person to work in an elevated position and no person shall work in an elevated position, unless such work is performed safely from a ladder or scaffolding, or from a position where such person has been made as safe as if they were working from scaffolding.
- Construction regulation 10 of 2014 to be implemented when working at heights and to prevent any person from falling from heights.
- Employees required to perform work at heights or from fall risk position must be medically fit to perform such work, such employee's medicals must specify "Fall Risk" or "Working at heights" in the exposure section of the annexure 3 template.

2.63 Traffic Accommodation

All traffic signs must be displayed as per the traffic management plan drawings.

Size of signs used must be as per the traffic management drawings and all signs to be visible and in good condition.

- Traffic management Plan issued per Road and Traffic act (chapter 13). Must be approved by the Traffic Chief and professional team.
- Plans for signage deployment must be in order and must be placed correctly.
- Traffic management plan must be submitted and must be suitable for the tasks being performed.
- Traffic plan must be implemented and controlled by the sites Traffic safety officer and flag persons.
- Jersey barriers, where used, to be linked.
- No signs to be obstructed.
- STOP/GO structures must be protected against being struck by vehicles (e.g. new jersey barriers)
- Road marking buggies/vehicles must be protected by escort vehicles front and rear.
- Displayed traffic signs must be maintained in a daily register to be checked morning and evenings after works have been finalised.

Night work:

- Signage, traffic accommodation and personnel must be visible (reflective / illuminated).
- Certified, competent traffic officer and flag persons to be used during night operations.

Traffic Safety Officer must check signage daily and Engineer must sign it off daily.



2.64 Ventilation and Lighting in the Work Place

Every employer shall cause every workplace in his undertaking to be lighted in accordance with the illuminance values specified in the Schedule to the General Safety Regulations:

Provided that where specialised lighting is necessary for the performance of any particular type of work, irrespective of whether that type of work is listed in the Schedule or not, the employer of those employees who perform such work shall ensure that such specialised lighting is available to and is used by such employees.

The Contractor must ensure that:

- the average illuminance at any floor level in a workplace within five meters of a task is not less than one fifth of the average illuminance on that task;
- glare in any workplace is reduced to a level that does not impair vision;
- lighting on rotating machinery in such that the hazard of stroboscopic effects is eliminated; and
- luminaires and lamps are kept clean and, when defective, are replaced or repaired forthwith.

With a view to the emergency evacuation of indoor workplaces without natural lighting or in which persons habitually work at night, every employer shall, in such workplaces, provide emergency sources of lighting which are such that, when activated, an illuminance of not less than 0.3 lux is obtained at floor level to enable employees to evacuate such workplaces: Provided that where it is necessary to stop machinery or shut down plant or processes before evacuating the workplace, or where dangerous materials are present or dangerous processes are carried out, the illuminance shall be not less than 20 lux.

The contractor must ensure that the emergency sources of lighting prescribed above:

- are capable of being activated within 15 seconds of the failure of the lighting prescribed by subregulation (1);
- will last long enough to ensure the safe evacuation of all indoor workplaces;
- are kept in good working order and tested for efficient operation at intervals of not more than three months; and
- where directional luminaires are installed, these are mounted at a height of not less than two meters above floor level and are not aimed between 10° above and 45° below the horizontal line on which they are installed.

The contractor must ensure that all rooms, stairways, passageways, gangways, basements, and other places where danger may exist through lack of natural light, to be lighted such that it will be safe.

The contractor must ensure that every workplace in his undertaking is ventilated either by natural or mechanical means in such a way that –

- the air breathed by employees does not endanger their safety;
- the time-weighted average concentration of carbon dioxide therein, taken over an eight-hour period, does not exceed one half per cent by volume of air;
- the carbon dioxide content thereof does not at any time exceed three per cent by volume of air;
- the prescribed exposure limits for airborne substances therein are not exceeded; and
- the concentration therein of any explosive or flammable gas, vapour or dust does not exceed the lower explosive limit of that gas, vapour, or dust.

2.65 Nuclear Density Gauge (Troxler)

The use of a Troxler on site must be in line with the SANS 3001 of March 2014. The SANS consists of 5 sections

The in-situ density of road construction materials is only determined in civil engineering using indirect methods such as the nuclear density gauge and sand replacement methods.

This method forms part of a set of methods used to operate nuclear gauges, and includes the following:

- a) administration, handling, and maintenance (see SANS 3001-NG1);
- b) validation of standard calibration blocks (see SANS 3001-NG2);
- c) calibration of a nuclear gauge (see SANS 3001-NG3);
- d) verification of a nuclear gauge (see SANS 3001-NG4);
- e) in situ density determination using a nuclear gauge (see SANS 3001-NG5)

When used Troxlers must be:

- Stored in a dedicated, lockable area and must have a warning signage displayed.
- Must only be transported in a dedicated vehicle with the required signage displayed and by an authorised employee that has been appointed in writing.
- Must have a Troxler Calibration Certificate in place.
- Must have a Troxler Technician Appointment on file and signed and proof of competency within the safety file.

2.66 Ergonomics Regulation of 2019

"competent person" in relation to ergonomics, means a person who– (a) has in respect of the work or task to be performed the required knowledge, training and experience in ergonomics and, where applicable, qualifications specific to ergonomics: provided that where appropriate qualifications and training are registered in terms of the provisions of the National Qualifications Framework Act, 2008 (Act No. 67 of 2008), those qualifications and that training must be regarded as the required qualifications and training; and (b) is familiar with the Act and the applicable regulations made under the Act;

"ergonomic risk" means a characteristic or action in the workplace, workplace conditions, or a combination thereof that may impair overall system performance and human well-being;

"ergonomic risk assessment" means a programme, process, or investigation to identify, analyse, evaluate and prioritise any risk from exposure to ergonomic risks associated with the workplace;

"ergonomics" means the scientific discipline concerned with the fundamental understanding of interactions among humans and other elements of a system, and the profession that applies theory, principles, data and methods to design in order to optimise human well-being and overall system performance;

The ergonomics regulations will apply to any employer or self-employed person who carries out work at the workplace who may expose any person to an ergonomic risk in the work place and any designer, manufacturer, importer or supplier of machinery, plant, or work systems for the work place.

An employer must, before the commencement of any work that may expose employees to ergonomic risks, have an ergonomic risk assessment performed by a competent person.

The ergonomic risk assessment must be done at intervals not exceeding two years and must include the following;

- a complete hazard identification and all persons who may be affected by the ergonomic risk.
- how employees may be affected by the ergonomic risks;



- the analysis and evaluation of the ergonomic risks;
- the prioritisation of ergonomic risks.

An employer must review the relevant ergonomic risk assessment if:

- such assessment is no longer valid;
- control measures are no longer effective;
- technological or scientific advances allow for more effective control methods;
- there has been a change in –
 - the work methods;
 - the type of work carried out; or
 - the type of equipment used to control the exposure; and
- an incident occurs or medical surveillance reveals an adverse health effect, where ergonomic risks are identified as a contributing factor.

An employer must ensure that an employee is placed under medical surveillance, which is overseen by an occupational medicine practitioner, if–

- the ergonomic risk assessment referred to in regulation 6 indicates the need for the employee to be placed under medical surveillance; or
- an occupational health practitioner recommends that relevant employees must be under Medical surveillance, in which case the employer may call upon an occupational medicine practitioner to ratify the appropriateness of such recommendation.

An employer must ensure that the medical surveillance consists of–

- in the case of a new employee, an initial health examination before the employee commences employment or within 30 days of commencement of such employment;
- a periodic health examination informed by the ergonomic risk assessment, at intervals specified by an occupational medicine practitioner, but not exceeding two years; and
- an exit health examination informed by the ergonomic risk assessment.

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Both the Client and the Contractor have a duty in terms of health and safety legislation to do all that is reasonably practicable to make members of the public and others being affected by the construction processes aware of possible risks and put preventative measures in place to mitigate the risks. The public and/or visitors shall go through a brief health and safety induction detailing hazards and risks they may be exposed to and what measures are in place to control these hazards and risks.



OTHER HEALTH AND SAFETY SPECIFICATION REQUIREMENTS

The contractor must be aware of the following additional requirements:

What	When	Output
Awareness training (Toolbox Talks)	At least weekly and before hazardous work is carried out	Attendance Register
Health and Safety Committee Meetings	Monthly	Minutes signed by the employer (Contractor) covering: a) Health and Safety Representative Checklist b) Safety report from Safety Officer and Safety Agent
Health and Safety Reports	Monthly	Report covering: a) Incidents/Accidents and Investigations b) Non-conformance c) Health and Safety Training d) HIRA Updates e) Internal and External Audits
General Inspections	As per Health and Safety Specification and OHSA	Report on Health and Safety Specification and OHSA compliance: a) Scaffolding b) Lifting Machinery c) Excavation
General Inspections	Monthly	Covering: a) Firefighting Equipment b) Portable Electrical Equipment c) Ladders
Record keeping	Ongoing	Covering: a) General complaints b) Fines c) General incidents d) MSDS e) Surveillance Medicals f) Inspection Register g) Dept of Labour Notices
Permits	Before commencement with certain activities	As stipulated by the Health and Safety Specification and the OHSA / Construction Regulations

Key:

OHSA – Occupational Health and Safety Act, 1993



ANNEXURE A – REQUIREMENTS FOR THE SAFETY PLAN ASSESSMENT (INCLUDING COVID 19 REQUIREMENTS)

The Contractor must note that the information below is pertinent to the compilation of their safety plan response to this site-specific safety specification and it would be preferred if the Safety Plan is written in the order of the assessment documented below.

No	Item	Notes
1	Project Directory	Please state details of Project Client, Project Manager/Principal Agent, Safety Agent, Consulting Engineer, etc. (Name, address, contact details).
2	Contractors Directory	Please indicate if you will be using Contractors on this project, if yes, include their details, trade, and FEM details.
3	Other Parties Directory	Please indicate contact details for any services applicable (electricity, water, etc.) as well as Department of Labour and Emergency Services.
4	Project Safety Statement	The Project Safety Statement must be included in the Safety Plan.
5	Health and Safety standards for the project (OHS Act, construction regulations, basic conditions of employment, etc.)	Health and Safety standards must be included in the Safety Plan.
6	Project Particulars	Scope of works must be included in the Safety Plan. This is critical.
7	Existing environment – Structures and Surroundings, Services (Electrical, Water, Sewerage, etc.), Traffic Arrangements, Parking, Access to Site, Storage of Plant and Materials	Please include these items in the plan. The items must be Site Specific, the location of services and services that will be affected must be mentioned.
8	Management Structure for safety on the Project	A structured organogram with names of the responsible people must be included.
9	Appointed Persons, Supervision	The required appointments must be identified. A list of the appointed persons must be included in the Safety Plan.
10	Security Procedures	Please indicate if a security company will be appointed and include the contact information in the Safety Plan.
11	Registers list and inspection frequency	A list of the Inspection Registers that will be on file must be included in the Safety Plan.
12	Design Co-ordination	Please indicate your procedure for implementation of design changes by designer on the project, and the procedures for liaison and implementation of temporary works design on the project.
13	Contractor Co-ordination	Mention must be made of how Contractors will be co-ordinated on site to ensure that they work together and not adversely affected health and safety.



No	Item	Notes
14	Housekeeping, stacking and storage	Housekeeping policies and procedures must be included in the Safety Plan.
15	Waste Disposal Arrangements	Waste disposal arrangements procedures must be included in the Safety Plan.
16	Noise and dust control	Please indicate if any noisy operations (more than 85 decibels) will be carried out and what measures will be used to reduce noise exposure to workforce.
17	Training Requirements	Training requirements must be identified and recorded.
18	Plant and Equipment	A list of plant and equipment to be used on site must be included in the Safety Plan.
19	Safety Monitoring Arrangements	The name, contact details and SACPCMP registration status of the Safety Officer must be included in the Safety Plan. State how often the Safety officer will be on site (note safety specification requirement in section 1.7).
20	Information for Contractors	State how information will be given to Contractors on site.
21	Consultation/communication arrangements with Employees	State how information will be given to employees e.g. notice board.
22	Selection of Contractors Procedures	Principal contractor must state what health and safety procedures they will use to assess the competence and resources of their contractors on site.
23	Activities with risk to Health and Safety (Risk Assessment)	A Baseline Risk Assessment must be included in the Safety Plan, it must address the Risks identified in the Safety Specification as well as the risk of any other hazards that the Principal Contractor is aware of that are relevant to the site.
24	Hazardous Substances	Must be listed in the Safety Plan and addressed in the Risk Assessment.
25	First Aid and Medical Procedures	Please indicate name of first aider, position of first aid box, location of nearest medical facility and emergency numbers.
26	Fire and Emergency Procedures	List of emergency telephone numbers must be drawn up and included in the Safety Plan. The position of Fire Extinguishers, Assembly Point location, fire drill frequencies, numbers of fire marshals, etc.
27	Accident and Incident Reporting and investigation	State the Accident and Incident Reporting and investigation procedures of your company.
28	Welfare and Site Facilities	Elaborate on toilets and eating areas, water provision, COVID-19 ablution provision, how will workers be protected during wet weather conditions etc.
29	Site Rules	The Site Rules must be included in the Safety Plan.
30	Personal Protective Equipment	The necessity must be identified by Risk Assessments, the required PPE for site risks and COVID-19 control measures.
31	Health & Safety File arrangements	Please indicate arrangements for the return of the Health and Safety File to the safety agent at the end of the project.



No	Item	Notes
32	Method Statements/Safe System of Works	A list of Method Statements/Safe System of Works must be included in Safety Plan for all High-risk activities. PLEASE NOTE THAT THIS IS PARTICULARLY RELEVANT FOR COVID-19. NO WORK MAY COMMENCE UNLESS COVID-19 RISKS AND CONTROL MEASURES HAVE BEEN APPROVED BY THE PROFESSIONAL TEAM. REFER TO SECTION 2.61 OF THIS SAFETY SPECIFICATION.
33	Permits and wayleaves	List of activities that Principal Contractor anticipates will require permits and wayleaves (including those stated in the safety specification) to be included.
34	Fall Prevention and Protection Plan and Fall Rescue Plan	A copy of the Fall Prevention and Protection Plan, fall rescue plan and fall risk assessment must be included in the Safety Plan.
35	Demolition method statement	A copy of the Demolition Method Statement must be included in the Safety Plan.
36	Confined spaces	The Principal Contractors' procedures for managing access, egress and work in confined spaces must be specified in the Safety Plan. Includes permit procedures, air monitoring, PPE, etc.
37	Safety Representatives and Safety Committees	When a project has more than 20 employees a designated employee must be chosen by the labourers to represent them. A safety committee must be established if 2 or more safety representatives are appointed. Please note Safety Specification requirements regarding this section (section 2.12).
38	Have the significant hazards from the safety specification been addressed?	See section 1.9 of the Specifications and ensure practical measures have been detailed in the safety plan.
39	Safety File - Safety Policies in File and Signed by 16(1) CEO.	Safety Policies must be signed and explained to employees.
40	Safety File - A copy of the valid Letter of Good standing from FEM / Workman's Compensation must be on file.	A copy of the valid Letter of Good standing from FEM / Workman's Compensation must be on file.
41	Safety File - Signed copy of the 37.2 Mandatary Agreement	A 37.2 Mandatary Agreement needs to be signed between the Client and the Principal Contractor.
42	Safety File - Appointment letter from Client (as well as 5.1.K)	The Client must appoint the Principal Contractor in writing.
43	Safety File – Notification / Permit	A copy of the Annexure 2 Notification (and proof of submission) to Department of Labour must be available. This can be in the form of a Department stamp, email, or copy of Construction Work Permit.



CONTROL MEASURES THAT MUST BE INCLUDED FOR SAFETY PLAN SUBMISSION PURPOSES:

Issues that must be included by the contractor in their COVID-19 safety plan response should include arrangements for the following (please note that reference to contractors' employees / staff / workers / personnel on site must include control of their (sub)contractors, visitors and suppliers):

Workplace Plan - A plan must be developed by the contractor for the phased in return of employees to site. Please refer to the latest regulations and amendments, all persons who are able to work from home should do so.

Coordination on Site Relating to COVID-19 matters - The contractor must appoint a **manager** to address employees concerns and keep them informed re COVID-19.

Additionally, the contractor must **designate a COVID-19 compliance officer** (required of all industries, businesses, entities, both private and in the public sector). This compliance officer is responsible for overseeing the following:

- implementation of the workplace plan; and adherence to the standards of hygiene and health protocols relating to COVID-19 at the workplace;
- developing a plan for the phased in return of their employees to the workplace, prior to reopening the workplace for business, which plan must correspond with Annexure E of the Disaster Management Act 2002 (as amended April 2020) and be retained for inspection and contain the following information:
 - which employees are permitted to work;
 - what the plans for the phased-in return of their employees to the workplace are;
 - what health protocols are in place to protect employees from COVID-19; and
 - the details of the COVID-19 compliance officer;
 - phase in the return of their employees to work to manage the return of employees from other provinces, metropolitan and district areas; and
 - develop measures to ensure that the workplace meets the standards of health protocols, adequate space for employees and social distancing measures for the public and service providers, as required.

Transportation to Site - Procedures for Transportation of Workers to Site – employees should be advised that if using transport, passengers must wear a cloth mask to be allowed entry into the vehicle. Hand sanitisers must be made available, and all passengers must sanitise their hands before entering. Public transport vehicles must be sanitised on a daily basis. Please note that the government mandated limit on passengers per vehicle must be strictly adhered to.

Site access - Entry to site may only be through pre-arranged security controlled access points. Contractor must detail how will members of public be prevented from accessing site (risk of cross contamination between persons working on site and members of public).

Provision of Visitors Book for signing in and out of site. Records of all personnel entering site and their contact details must be kept.

Screening on Site - Contractor to advise how will personnel on site be screened on a daily basis for symptoms of COVID-19, including a symptom check as well as temperature assessment (digital thermometer). The contractor must describe their procedure for employees on site, suspected of having COVID-19 symptoms, refusing to undergo **medical** examination, prophylaxis, treatment, isolation, and quarantine. Sites with more than 500 employees must have testing facilities.

Risk assessment and safety procedure - Contractor must provide a written policy concerning the protection of it staff from COVID-19. Contractor must compile a COVID-19 risk assessment and safety procedures for the site. How will it be communicated to all on site and records kept thereof. The Risk



Assessments must include the identification of exposure levels, identification of “high contact” activities, the identification of vulnerable workers and special measures for their protection, including protection against unfair discrimination or victimization.

Safety Signage and Hotline Number - Contractor to implement placement of COVID-19 safety signage and hotline number at site entrance and on site, warning of hazards and advising control measures (see samples in Annexure to this document). Please note that signage must be representative of the local languages.

Communication Procedures - Contractor to describe comprehensive induction and toolbox talk procedures to include COVID-19. Toolbox talks should be conducted weekly on COVID-19 control measures and risks on site, include personal hygiene - manner of controlling coughing and sneezing on site - in elbow.

Emergency Procedure - Contractor must describe communication of COVID-19 symptoms and protocol that must be followed if person demonstrates symptoms, or is thought to have COVID-19 - symptoms of COVID-19 include cough, sore throat, shortness of breath or fever/chills (or $\geq 38^{\circ}\text{C}$ measured temperature), redness of eyes, also additional symptoms – body aches, loss of smell or loss of taste, nausea, vomiting, diarrhoea, fatigue, weakness or tiredness. Contractor must advise personnel on site of the symptom reporting procedure to site management of COVID-19 symptoms, and referral protocol for screening or testing if showing symptoms.

Emergency COVID-19 protocol that must be put in place by Principal Contractor must include:

- Sick workers may not enter workplace.
- If sick worker already on site then worker must be isolated in designated area for isolation on site, provided with FFP1 surgical mask and transported for self-isolation or for medical examination or testing at identified testing site.
- Worker placed on sick leave.
- On receiving their results, the employee and/or health professional supporting the employee should notify their workplace so that the employee is managed accordingly. The workplace should proactively take steps to obtain this information to avoid any delays in reporting.
- Assess the risk of transmission, disinfect area and workers workstation, refer exposed workers for screening, etc.
- Lodge claim with Workman’s Compensation if infection occupationally acquired.
- Worker may only return to work after undergoing a medical evaluation confirming worker has tested negative for COVID-19.
- Worker must be closely monitored for symptoms on return to work.
- If worker has been diagnosed with COVID-19 the employer must notify Dept of Health and Dept of Employment and Labour

NOTE THAT: personnel on site, or presenting themselves to site who appear sick, or have symptoms associated with COVID-19 may not be allowed on site.

Welfare and Washing Facilities, Sanitising and Disinfection - Contractor must describe provision of soap and clean running water and sanitisers at site entrance and at other locations on site. Correct manner of washing / disinfecting hands, 20 second rule. Use of paper towels only. Disinfection of work surfaces and equipment control procedures required - carried out before work begins, regularly during day and after work ends. Toilets, common areas, door handles, shared electronic equipment and any other shared equipment must be regularly cleaned and disinfected, biometric systems disabled or made COVID-19 safe.

Hand sanitiser must contain 70% alcohol.

Employees working away from home should be provided with hand sanitiser by the employer.



COVID-19 PPE on Site - Contractor must describe controls for wearing of PPE on site, including wearing of cloth masks on site - people working and visiting site must be instructed on the correct way of wearing cloth masks, procedure for maintenance and replacement of cloth masks. Surgical masks and N95 masks should only be worn by frontline health workers, not site staff. Note that some surgical masks should be kept on site to give to persons exhibiting COVID-19 symptoms prior to being taken away for testing.

Employer is required to provide each employee with at least 2 cloth masks and must make appropriate arrangements for washing, drying and ironing of cloth masks.

Supervision and Monitoring on Site - Monitoring systems must be in place by Contractor to ensure compliance with safety protocols and identify infections among employees - supervision monitoring and enforcement - how will it be done by the contractor?

Ventilation on Site - How will ventilation and air quality be made safe on site.

Waste Management - Sufficient refuse bins must be on site for disposal of tissues, used PPE. Procedure for safe removal of contents of bins; used PPE, other detritus should be made in contractors safety plan.

Social Distancing Measures - Contractor must describe, so far as practicable how can numbers of workers be minimised on site at any one time (e.g.: through staff rotation, staggered working hours, shift systems, remote working arrangements or similar to achieve social distancing? (1.5m). Note that contractor must minimise contact between workers themselves and workers and public.

Depending on what is reasonably practicable, site must be arranged so that there is distance of at least 1.5m between workers and members of public or put physical barriers in place or provide workers with face shields or visors.

COVID-19 Investigation procedure - Contractor must describe how will they investigate the cause of COVID-19 infection (including control failure and risk assessment review, checking of PPE requirements, admin support to contact tracing implemented by Dept of Health).

Important notes:

If more than 500 employees in contractors employ the employer must submit this risk assessment and written policy re health and safety of employees from COVID-19 to Safety Committee and Department of Employment and Labour.

Monitoring by the Safety Agent will be strict - noncompliance with COVID-19 control measures will be reported immediately to the principal contractor for action purposes. If necessary, transgressors will be removed from site for re-induction, or a recommendation for permanent barring from site will be made.

As this is an ongoing medical crisis it is likely that control measures to prevent the spread of the virus will be updated by the government on a regular basis. Hence the measures in this section of the safety specification will be reviewed on an ongoing basis, as we receive updated information from the government.



ANNEXURE B – LEGAL APPOINTMENTS

The contractor shall make the following appointments, as required:

Chief Executive Officer (OSH Act 16(1))
Contract Director/Manager (OSH Act 16(2))
Construction Manager (CR 8(1))
Construction Supervisor (CR 8(7))
Assistant Construction Supervisor (CR 8(8))
Construction Safety Officer (CR 8(5))
Traffic Safety Officer
Safety Representative (where > 20 employees on site)
Temporary work Designer (CR 12(1))
Temporary work Supervisor (CR12(2))
Construction risk assessor (CR 9(1))
Excavation Supervisor (CR13(1)(a))
Demolition Supervisor (CR14(1))
Scaffold Supervisor (CR16(1))
Suspended Platform Supervisor (CR17(1))
Material Hoist Inspector (CR19(8)(a))
Material Hoist Operator (CR19(6))
Bulk Mixing Plant Supervisor (CR20(1))
Bulk Mixing Plant Operator (CR20(2))
Controller of Explosive Actuated Fastening Devices Nails, Cartridges or Studs Issue and Collection (CR21(2)(g)(1))
Construction Vehicle and Mobile Plant Operator (CR23(1)(d)(i))
Controller of Temporary Electrical Installations (CR24(c))
Stacking Supervisor (CR28(a))
Fire Extinguishing Equipment Inspector (CR29(h))
Fall Protection Plan Developer (CR 10(1)(a))
Incident Investigator (OSH Act 9(2))
Competent Person – Confined Spaces (GAR 5(1))
COVID 19 – Compliance Officer and COVID 19 – Manager (to address employees concerns and keep them informed re COVID-19)



ANNEXURE C - BASELINE RISK ASSESSMENT FOR PROJECT

Irrespective of the risk presented on site, it will be ensured that sufficient supervision is in place on site, that personnel are trained in accordance with legislation, including the requirement for site specific inductions on site to inform personnel on site of the risks and hazards applicable to the site. Site supervision is responsible for ensuring that the control measures required below are implemented on site.

	HAZARD	RISK	MINIMUM CONTROL MEASURES
1.	Asphalting	Fire Burns to skin Skin disease	<ul style="list-style-type: none"> Suitable fire extinguisher to be in place prior to commencement of works Ensure competent personnel using materials and competent and trained machinery/equipment operators Ensure there is a safe place of work at all times Ensure all personnel wear suitable and sufficient personal protective equipment (PPE) including safety boots, reflective vests and gloves Health and Safety data sheet required
2.	Bricklaying	Caustic contamination with mortar Contact with sharp bladed tools	<ul style="list-style-type: none"> Use only trained personnel Safe means of access to be provided Safe/Suitable working platform required where working at height PPE for mortar to include gloves where practicable and goggles/ masks where there is a risk of contamination
3.	Compacting and Filling	Contact with tipping materials Contact with moving plant Vehicles/personnel falling into excavations Contact with underground services	<ul style="list-style-type: none"> Trained banksman to control vehicles movement Only trained personnel use plant Personal Protective Equipment to be worn Personnel to stand clear as materials are being tipped Use stop blocks and signs to warn vehicles of excavations, where applicable Stand clear of plant whilst materials are being compacted Establish position of underground services and protect services from damage
4.	Compactor Operations	Crushing of feet	<ul style="list-style-type: none"> Only trained and competent personnel to use the machine Ensure operative wears steel toe cap shoes or boots at all times
5.	Concrete Pumping	Sprains and strains Hit by pump Concrete burns Collapse/bursting of structure	<ul style="list-style-type: none"> Personnel to be in clear vision of pump operator Trained pump operator Personnel working with the concrete to wear the appropriate personal protective equipment to protect against cement burns Design of structure being loaded to be approved by competent designer and inspected before, during and after loading Pump to be well maintained
6.	Confined Spaces	Suffocation Fumes	<ul style="list-style-type: none"> Ensure that confined space is sufficiently ventilated Wear personal protective equipment such as proper masks if air supply insufficient or not of sufficient quality Test oxygen levels in confined space to ensure that is safe for entry Ensure that emergency procedures in place
7.	Cutting Kerbs	Saw slipping, Blade disintegrating, Noise, and Dust	<ul style="list-style-type: none"> Only trained operators to use saw and change blades. Personal Protective Equipment must be worn. Gloves, goggles, dust mask and hearing protection. People to be kept away from the work area. Work to cease if people have to pass. Sparks, etc. to be directed away from people and any flammable material.



	HAZARD	RISK	MINIMUM CONTROL MEASURES
8.	Cutting Off Disc	Noise Cuts from machine Fire (particularly at refuelling) Flying debris Blade shattering Contamination by fume created or exhaust fume	<ul style="list-style-type: none"> • Use competent personnel. • Hot works control- fire extinguisher, fire watchman. (Permit may be required) • PPE to include gloves, eye protection, hearing protection • Solid working position. • Clear working area • Correct grade of blade must be used. • Good ventilation to be provided (forced if necessary). • Changing of wheels to be by competent persons only • Cut off discs must not be used for grinding (grinding disc thicker) • Bystanders to wear hearing protection, as applicable
9.	Electrical Commissioning	Electric shock	<ul style="list-style-type: none"> • Personnel to comply with permits to work issued by Client • Personal protective equipment to be worn by employees to prevent electric shock • First aid treatment to be readily available • Only competent and trained persons may decommission or commission electrical equipment
10.	Electric Tools and Electrical Installations	Electric shock Fire	<ul style="list-style-type: none"> • Electric tools and installations to be in good condition • Inspect electric tools before use • Do not use electric tools in wet/damp conditions • Use personal protective equipment such as insulated gloves • Electrical installations register to be maintained, inspected by competent person
11.	Excavations (Working in and around)	Toxic fumes Collapse of trench walls/trapping Falling into excavation Collapse of adjacent structures	<ul style="list-style-type: none"> • Deep excavations / monitor air for toxic fumes • Prevent collapse by battering back sides to a safe angle or install temporary support • Protect vehicles from falling into excavations – provide barriers, signage, etc. as necessary • Beware of undermining of other structures (e.g. buildings, scaffolds) • Record excavation inspections by competent person on daily basis • Provide suitable means of access/egress in case of emergency. • Excavations formed by explosives must be accompanied by method statement approved by Client
12.	Fire	Injuries to workers, pedestrians, residents, road users, damage to property through fire	<ul style="list-style-type: none"> • No littering on site which could become fire hazard, maintain site in clean condition. • No fires to be lit on site. Have a working fire extinguisher at hand at all times. • No smoking or naked flame near flammable substances or in unauthorised areas • Ensure proper storage/use of Petrol/diesel/flammable substances – post warning notices
13.	Flammable Liquids and Gases (Use of)	Fire Explosion	<ul style="list-style-type: none"> • No littering on site which could become fire hazard, maintain site in clean condition. • Have a working fire extinguisher at hand at all times. • No smoking or naked flame near flammable substances or in unauthorised areas • Ensure proper storage/use of Petrol/diesel/flammable substances – post warning notices • Equipment must be in good condition, maintained • Personnel using substances must be trained in safe use and risks



	HAZARD	RISK	MINIMUM CONTROL MEASURES
14.	Fragile Materials	Persons or items falling through fragile materials	<ul style="list-style-type: none"> All fragile materials to be identified and protected prior to work commencing. Protection to include either covering the fragile materials or excluding activity. Any coverings to be secured in place The location of the fragile materials to be indicated by signage
15.	Hand tools	Injuries caused by use of hand tool Impact with the tool Falls due to access problems Contamination with substance being worked	<ul style="list-style-type: none"> Ensure: Tool is correct for job Tool is in good order and suitably sharp Personnel must be competent/instructed in tool usage and tool safely Lighting is sufficient Access is safe, working platform is secure, leading edge is guarded Operative is wearing all necessary PPE
16.	Hazardous Substances	Injuries to workers through use of hazardous substances, e.g. injuries to eyes, skin, etc.	<ul style="list-style-type: none"> Use substances in accordance with data sheet, particularly reference protective clothing required (example: gloves, goggles, etc.) Know what First Aid measures are Have welfare facilities available for washing of hands, etc.
17.	Kerb Laying	Nips at joints Crushing by kerbs Caustic burns	<ul style="list-style-type: none"> Impervious gloves and barrier cream to be used to protect hands. Personnel should be aware of safe manual handling techniques when handling kerbs.
18.	Lifting Operations	Falling material Crushing by materials Hand injuries to the slinger Toppling crane	<ul style="list-style-type: none"> Check test certificate Check examination certificate Check inspection have been carried out Check certificates for lifting equipment (chains, slings, shackles, etc.) Ensure lifting gear is rated to carry load (SWL) Ensure materials being lifted are properly packaged and slung. Be aware that there should be a minimum clearance of 600mm between any slewing parts of a crane and any fixed installation to prevent being trapped. Access to the work area during lifting operations is to be restricted to those involved with and trained in the work in hand. Do not allow members of the public to gain access to the area. Only trained banksmen to be used. The crane driver and the banksman are to ensure that the signals given are clearly understood.
19.	Manhole Rings and Pipes Storage	Rolling of rings Collapse of pipes Crushing of persons Stock pile collapse	<ul style="list-style-type: none"> Manhole rings must be stored flat to prevent them being rolled. Banks of pipe stock piles are not to be broken until they are ready for use. Personnel must stand to the side when breaking bands so as not to be hit by falling pipes. Pipes must be wedged to prevent rolling



	HAZARD	RISK	MINIMUM CONTROL MEASURES
20.	Manual Handling of General Items	Muscular skeletal injuries if the load is too heavy or awkward Operative falling/ tripping Contamination from the substance being carried Fall of material being carried	<ul style="list-style-type: none"> Personnel should be aware of safe manual handling techniques Personnel to wear Personal Protective Equipment when carrying items, e.g. safety footwear and gloves. Ensure good housekeeping against tripping/fall hazards. Operative to get assistance if load too heavy- team lift if necessary. Utilise mechanical lifting and carrying aids where possible. Personnel to ensure access equipment, ladders will take weight of operative and load being carried. Personnel to ensure item being carried is properly bonded or is not be liable to break apart whilst being manually handled.
21.	Members of Public – Protection of	Injury to member of public and road users from site works	<ul style="list-style-type: none"> Barriers and signage to be in place Workers must warn away any members of public from the works Footpaths and bridges which are open to public must be closed off if in area of works or otherwise made safe so that no injury occurs to members of public Traffic turning into site – traffic management and signage as required. Signage to be on road at site entrance warning motorists that construction traffic turning into/out of site access. Keep roads free of mud where possible Refer to plant risk assessment for details on plant safety precautions NOTE: SIGNAGE TO BE POSTED ON SITE TO WARN OF CONSTRUCTION TRAFFIC MOVEMENTS. SAFE MEANS OF ACCESS FOR BOTH CONSTRUCTION TRAFFIC TO SITE AND PRIVATE HOMEOWNERS MUST BE AGREED.
22.	Noise and Dust	Breathing in dust can cause long term health problems, noise can damage hearing	<ul style="list-style-type: none"> Wear respiratory and hearing protection Dampen down and minimise dust where possible.
23.	Overhead Services (Working near)	Contact with live services causing injury to personnel Damage caused to services	<ul style="list-style-type: none"> Maintain safe clearance levels Establish presence of any services via proper walk through survey of site and/or means of service drawings Wear personal protective clothing Ensure height of plant/vehicles does not compromise or exceed clearance levels for overhead services Obtain information on clearance levels from service provider
24.	Painting	Contact with paint	<ul style="list-style-type: none"> Refer to safety data sheet for usage instructions, hazards and precautions required. When working at height, refer to risk assessment addressing this hazard below.
25.	Paving (Laying)	Impact injuries from tile / mallet Caustic burns Sore knees Cuts from cutter	<ul style="list-style-type: none"> Impervious gloves to be worn/ barrier cream to be used Kneelers or similar to be available Personal protective equipment to be worn – for example if saw used to cut pavers



	HAZARD	RISK	MINIMUM CONTROL MEASURES
26.	Plant or Vehicles and Equipment Operation	Workers injured by passing traffic Road users and pedestrians at risk from plant operation Noise	<ul style="list-style-type: none"> Implement traffic protection measures Trained and competent operators must be used Check plant and vehicles on daily basis before use and record inspections. Maintain vehicles in safe condition. Medical certificates of fitness required for construction plant. Crossing of road by construction vehicles or machines must be limited to the practical minimum Plant and vehicles must be fitted with amber rotating beacons and reverse alarms. Wear appropriate protective clothing/equipment, e.g. goggles, gloves, ear defenders, etc. as appropriate.
27.	Plastering	Falling materials Fall from height Contact with materials	<ul style="list-style-type: none"> Ensure standard safety procedures are followed Ensure there is a safe working area Ensure safe access and egress Ensure competent personnel are used
28.	Plumbing	Falling material Falling from height Fire Burns Exposure to lead fumes	<ul style="list-style-type: none"> Ensure standard safety procedures are followed at all times Only used trained and competent personnel Ensure there is a safe working area at all times Ensure materials are stored neatly Ensure there is safe access and egress at all times Ensure all personnel wear suitable and sufficient personal protective equipment Consider a hot works permit system prior to commencing any hot works Make sure emergency procedures are in place and ensure all personnel are aware of where to go in case of a fire
29.	Precast Slab / Unit Laying and Fixing	Falls Falling materials Manual Handling	<ul style="list-style-type: none"> Emergency procedures in place and personnel explained details Use competent personnel Ensure suitable and sufficient access and egress is provided Safe place of work must be provided Ensure all personnel wear correct personal protective equipment Exclusion zone may be required for protection against risk of falling objects
30.	Road Construction	Risk of being struck by vehicles	<ul style="list-style-type: none"> Ensure traffic management measures in place No construction activities to commence until adequate provision made to accommodate traffic in accordance with the South African Traffic Signs Manual. Wear reflective waistcoats when working on or near the road or road shoulder as well as any other required personal protective clothing. Crossing of road by personnel must be limited to the practical minimum Use of fencing or other barriers as appropriate
31.	Road Marking	Contact with moving vehicles Fire	<ul style="list-style-type: none"> Ensure suitable and sufficient road signs are erected, as applicable Possible road or lane closure may be required – traffic management may be required Fire Extinguisher to be situated in a suitable area, use dry powder or foam



	HAZARD	RISK	MINIMUM CONTROL MEASURES
32.	Road Working – working in or next to road	Injury to workers caused by passing traffic Injury to road users and pedestrians by works	<ul style="list-style-type: none"> • Flagmen to be used where interface with construction plant with passers-by or where hazard posed by delivery vehicles turning into/out of site. • Traffic management plan to be approved by Municipality and, if necessary, traffic department • No construction activities to commence until adequate provision made to accommodate traffic in accordance with the South African Traffic Signs Manual. • Use safety signage to warn traffic and pedestrians of construction works • Where existing walk ways/pavements affected by works, must direct pedestrian traffic away to safe walking area. • Wear reflective waistcoats when working on or near the road or road shoulder as well as any other required personal protective clothing. • Crossing of road by personnel must be limited to the practical minimum • Use of fencing or other barriers as appropriate
33.	Rope access	Personnel falling from height Falling debris Those beneath being injured	<p>Ensure:</p> <ul style="list-style-type: none"> • competent person appointed in writing to supervise all rope access work on the site, • compliance to Construction Regulations 2014, particularly regulation 18 and 10; • ensure all rope access work is carried out under supervision of a competent person; • all rope access operators are competent and licensed to carry out their work. • the design, selection and use of the equipment and anchors comply with the safety standards incorporated for this purpose into these Regulations under section 44 of the Act • Site specific fall protection plan has been developed by a competent person applicable to the specific work and environment prior to the commencement of the work, including records of maintenance and inspections of all the equipment used for the work operations. • adequate measures are in place to allow rescue procedures to commence immediately in the event of a fall incident taking place. •
34.	Scaffold Erection/ Dismantling	Personnel falling from a height Items of scaffold falling onto personnel Scaffold collapsing onto those below	<ul style="list-style-type: none"> • Ensure • scaffold is designed to take the imposed loads • scaffolding is constructed properly • scaffold is not overloaded • scaffolders are fully trained • scaffolding is regularly checked by competent person and record of inspection retained. Written inspections to be recorded on weekly basis • scaffolders must adhere to the safe systems of work. • all fall arrest equipment to be checked and certified in good working order • that ALL understand the safe system of work •
35.	Shuttering Walls, Beams, Columns	Falling from height Falling materials from height Cuts and abrasions from splinters and nails	<ul style="list-style-type: none"> • Ensure all personnel wear the appropriate Personal Protective Equipment • Ensure at all times there is a safe working platform • Use only trained and competent personnel • If electrical tools are being used ensure they have been tested and safe to use • Ensure timber is de-nailed after use • Ensure safety standards are followed at all times • Ensure there is a safe means of access and egress at all times



	HAZARD	RISK	MINIMUM CONTROL MEASURES
36.	Site Strip	Overtuning Vehicles	<ul style="list-style-type: none"> Follow standard safety procedures Only use trained and competent personnel Ensure there is a suitable and safe means of access and egress Ensure banksman used when required Ensure all personnel wear suitable reflector vests as required
37.	Snakes	Snake bite	<ul style="list-style-type: none"> Qualified first aider required for site who can treat snakebite Snake bite kit to be on hand Check area before working Find out nearest hospital and get emergency telephone numbers.
38.	Steel Erection	Falls from height Falling components Contact injuries from falling lifting equipment	<ul style="list-style-type: none"> Adhere to all general precautions for working at height (See risk assessment below) Barrier off / exclude area below work All lifting appliances to be examined and inspected Inspection register in place and up to date All personnel to be trained and competent and wear clipped on safety harnesses when working at height Ensure that lifting equipment (slings, chains, shackles) test certificates are current and on site. Competent persons only to connect loads and direct plant
39.	Steel Fixing	Back injuries caused by manual handling Eye injuries from tie wire Trips / falls Falling from height	<ul style="list-style-type: none"> PPE must include safety boots and goggles Manual handling training may be required Care to be taken when working near overhead lines Use only trained personnel Provide safe means of access Maintain and regularly inspect all lifting appliances and equipment Cap starter bars to prevent injuries where feasible Construct scaffold walk ways to cross reinforcing mesh, as required
40.	Street Lighting	Contact with vehicles Electrical Shock Collapse of columns	<ul style="list-style-type: none"> Ensure competent personnel are used Area to be kept clear – keep unauthorised persons away Plant and lifting equipment to be maintained as per risk assessments above Electrical connections to be done by qualified personnel only
41.	Temporary Works – shoring, scaffold, falsework, formwork	Collapse of form work	<ul style="list-style-type: none"> Wear personal protective equipment such as gloves and goggles Formwork must be built by trained person and also be inspected by competent person and results entered into register on site
42.	Troxler – use of	Radiation exposure Transportation and storage of nuclear equipment Working in road	<p>Ensure</p> <ul style="list-style-type: none"> Training of Troxler gauge operators in basic radiation safety and correct operating procedure to satisfactory level of competence An enclosed vehicle must be used for transport of the gauge After use and before storing the gauge, a visual check to be carried out to confirm shutter is properly closed Warning signage to be displayed at entrance to store indicating presence of radioactive material Wear reflective vests when working in or near the road or road shoulder as well as any other required personal protective clothing.



	HAZARD	RISK	MINIMUM CONTROL MEASURES
43.	Working at Height	Personnel falling from height Falling debris Those beneath being injured	<ul style="list-style-type: none"> All access equipment is properly constructed (inspections record must be maintained) Only trained personnel construct, dismantle or control the access equipment All access equipment must have full toe boards and guardrails - comply with SANS 10085 on erection, use and dismantling of scaffolding No access equipment may be loaded above the level of the guardrail No access equipment to be loaded above its safe working load Where work involves leaning out on an open leading edge, then all personnel are to be fitted with full body harness. The harness must be connected at all times All fall arrest equipment to be correctly maintained Ensure if ladders are being used for access, they are either footed or tied. Also the ladder must be set at the correct level of 1 in 4 or approximately 75°
44.	Underground Services	Striking of buried services	<ul style="list-style-type: none"> Make all necessary enquiries to establish what services are in the area. Consult drawings and advice from service provider (e.g. Municipality or ESKOM) when planning work. Assume all service to be live (Unless confirmation is received to confirm that services are isolated or otherwise made safe). Do not work near live services without authorisation from site management. Comply with the requirements of the safe system of work for underground services. Where available, locate services with a locator Hand dig around services
45.	Working with Effluent	Contact with effluent causing sickness or disease	<ul style="list-style-type: none"> ensure good hygiene facilities personnel to be competent in work activity personnel to wear appropriate personal protective equipment such as goggles, overall, gloves and goggles
46.	Include any other items not included in above into this section	Include any other items not included in above into this section	Include any other items not included in above into this section



ANNEXURE D - BASELINE RISK ASSESSMENT FOR PROJECT – COVID-19

It must be ensured that sufficient supervision is in place on site, that personnel are trained in accordance with legislation, including the requirement for site specific inductions on site to inform personnel on site of the COVID 19 risks and hazards applicable to the site. Site supervision is responsible for ensuring that the control measures required below are implemented on site.

No.	HAZARD	MINIMUM CONTROL MEASURES
1.	COVID-19 - Contracting COVID-19, person to person transmission	<ul style="list-style-type: none"> Do not share tools / equipment, crockery/cutlery/towels/bedding or anything that can facilitate the spread of the virus. Masks have not been proven to definitively protect against every contagion. However, masks prevent a person from unconsciously touching their eyes, nose and mouth, so they may offer a measure of protection. Masks are for single use only, not to be worn two days in a row. Avoid touching your eyes, nose, and mouth and shaking hands with others. Cough or sneeze into a tissue and dispose thereof safely into a bin provided. Wash your hands frequently with soap and running water for no less than 20 seconds. If you have none available use a hand sanitizer with at least 70% alcohol. Apply social distancing principles, stay at least 1.5m away from people/employees where possible. Avoid crowds and gatherings. Clean frequently touched objects/surfaces. The following cleaning products can be used: Hypochlorite (e.g. Household Bleach) Alcohol (70%) Hydrogen Peroxide Phenolic Compounds Quaternary Ammonium Compounds

No.	ACTIVITY	HAZARD	MINIMUM CONTROL MEASURE
2.	Site Preparation	Site might be infected with COVID-19 contagion during lock down	<ul style="list-style-type: none"> Inspect the site to assess conditions. Revise any policies, method statements for risks and hazards identified for review. Decontaminate the site, in affected areas, ensure the availability of hand washing facilities and sanitizers, throughout the site, and at entrances. Ensure sanitising and hand washing facilities are available at ablution areas, common eating areas, offices, canteens, security
3.	Occupational Health	Older workers of 60+, workers with underlying auto-immune or chronic diseases are at increased risk of infection (note that workers may be symptom free but infected with COVID-19)	<ul style="list-style-type: none"> All workers are to be screened and have a valid certificate of fitness on return to work. A full questionnaire to be completed daily before entry on site, and those identified as high risk, or exhibiting flu like symptoms, must be separated and refused entry to site until declared symptom free by a medical practitioner.
4.	Labour	Underlying auto-immune or chronic diseases, socio-economic status, having to use public transport to get to work	<ul style="list-style-type: none"> A full questionnaire to be completed daily before entry on site, and those identified as high risk, or exhibiting flu like symptoms, must be separated and refused entry to site until declared symptom free by a medical practitioner. Daily temperature readings to be taken on entry to site; Induction, toolbox talks to be done daily on topics relating to COVID-19, personal hygiene and PPE. Strict enforcement on use of PPE Public traffic must comply with government guidelines re wearing of masks and sanitising requirements.



No.	ACTIVITY	HAZARD	MINIMUM CONTROL MEASURE
5.	Transportation (Public and on Site)	Maximum allowed capacity exceeded; No facilities for sanitising vehicles and passengers; No additional protective measures available, e.g. face masks; Unlicensed drivers and operators	<ul style="list-style-type: none"> Selection and provision of transport services compliant with gazetted requirements; Policy and procedures and rules for travel, where possible to limit the use of public transport, or to arrange selective methods of transport, ongoing toolbox talks and supply of cloth masks to be worn when travelling or moving on and off site. Vehicle occupancy maintained at 70% capacity or less; Vehicles sanitised between trips; hand sanitiser provided for passengers.
6.	Social Distancing	Many construction tasks require more than 1 worker that will be required to work within the limit of 1,5m Access/Egress to and off site; Welfare facilities, Meeting areas	<ul style="list-style-type: none"> Demarcation and spacing of queueing areas; segregation of queueing areas and public outside site perimeters; Meeting/eating areas large enough to maintain 1.5m distance at maximum occupancy. Only essential workers to spend time on site, Staggered meeting/eating times, use of Zoom, Skype, Microsoft Teams for meetings where necessary. Individual, segregated facilities for safe keeping.
7.	Waste Management	Spreading of virus and contact with virus causing infection from handwashing, drying hands, cleaning equipment, disposal of contaminated waste and other related aspects	<ul style="list-style-type: none"> Establish and follow protocols for disposal of potentially infected waste (receptacles). Awareness through notices (posters) regarding correct procedures of waste disposal. Competent supervision and adequate awareness training required. Provide adequate supplies of material and consumables, provision of sealable disposal containers/bags through appropriate waste removal company. Provide adequate supply of paper towels. If contractors used ensure appropriate management.
8.	Signage	Unauthorised entry to site and work areas compromising workers health (contamination). Acts and behaviour that compromises worker	<ul style="list-style-type: none"> Installation of posters and signage with the site rules and protocols that need to be maintained at strategic points. Competent supervision and adequate awareness training required. Disciplinary steps to be taken against transgressors.
9.	Welfare Facilities	Spreading of virus and contact with virus causing infection	<ul style="list-style-type: none"> Limiting of personnel on site to minimum number required to maintain control and management. Implement and maintain cleaning and disinfecting programme. Site rules for social distancing to 1.5m. Use technology to avoid proximity between individuals where possible
10.	Use of Personal Protective Equipment	Risk of spread of droplet infection through coughing, sneezing when in close contact with other people	<ul style="list-style-type: none"> No employee/ visitor will be allowed on site without a cloth mask. Adequate training must be provided in the correct use and disposal of these masks. Cloth masks must be washed and ironed. Where possible face shields should be used to protect mouth, nose and eyes. Regular cleaning of face shields required. No sharing of PPE will be permitted. Adequate supervision required. COVID PPE does not replace conventional PPE.

ANNEXURE E - COVID-19 SITE SAFETY SIGNAGE





ANNEXURE F – GUIDELINES TO HEALTH AND SAFETY BILL OF QUANTITIES

DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
				R	C
Preparation of principal contractor's site specific health and safety plan, safety file, risk assessments, fall prevention/protection plan, Annexure 2 notification to Dept of Labour, demolition method statement, other method statements requested to be prepared for safety reasons, permits, amendments to safety plan during course of project, traffic management / accommodation plans, and any other legally required health and safety documentation	Lump sum	Lump sum			
Provision of safety documentation required of the principal contractor for Construction Work Permit application by the safety agent of Dept of Labour, if applicable (note section 2.4 of this safety specification document)	Lump sum	Lump sum			
Provision of current workman's compensation cover for employees for the project, and ensuring that contractors appointed have such cover too	Lump sum	Lump sum			
Health and safety management of principal contractor's employees, visitors and contractors' employees on site.	Lump sum	Lump sum			
Provision of full time Construction Manager for site, provision of Alternate Construction Manager in absence of Construction Manager and provision of sufficient safety supervision on site	Lump sum	Lump sum			
Provision of full time/ part time SACPCMP registered Construction Health & Safety Officer for site (refer to safety specification for full time / part time requirement) and preparation of safety reports after each safety inspection	Lump sum	Lump sum			
Competence assessment, appointment and required competence and safety training of all principal contractor's legally required appointments for site	Lump sum	Lump sum			
Maintenance of principal contractor's plant and equipment on site so as to be in safe condition, including inspection registers, inspections by competent persons, thorough examination certificates, hand over certificates and related documentation	Lump sum	monthly			
Provision of general safety signage (e.g. first aid, firefighting, traffic safety, excavations, PPE, Assembly Point, noise zones, etc.)	Lump sum	monthly			



DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
				R	C
Provision of medical certificates of fitness for employees on site (Annexure 3)	Lump sum	Lump sum			
Provision of personal protective equipment (PPE) by principal contractor to employees and, as applicable, visitors to site, incl. <ul style="list-style-type: none"> • reflective vests • hard hats • protective foot wear • hearing protection • respiratory protection • safety eyewear • gloves • overalls • Safety harnesses and lanyards • Sunblock • UV Protective clothing / hats / eye wear • Protective thermal wear (heat / wind / cold / rain) • Protective firefighting clothing • Arc flash and electrical protective clothing 	Lump sum	Lump sum			
Provision of Fall Prevention and Protection Equipment including. <ul style="list-style-type: none"> • Rope • Lifelines & Self-Retracting Lifelines (SRL) • Anchor Points • Warning Lines & Area demarcation • Fall Arrest Accessories • Fall Rescue Equipment • Passive Fall Protection Equipment • Confined Space Rescue and Retrieval (In elevated work situations) • Etc. 	Lump sum	Lump sum			
Provision of Confined Space work equipment & Training <ul style="list-style-type: none"> • Training • Air Monitoring Equipment • Ventilation Equipment • Entry Equipment • Personal Protective Equipment • Confined Space Rescue and Retrieval Equipment • Communication Equipment • Etc. 	Lump sum	Lump sum			
Holding of safety meetings with safety representatives and safety officers on site on at least monthly basis	Lump sum	monthly			



DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
				R	C
Principal contractor construction safety management attendance at health and safety meetings called by client, professional team or safety agent	Lump sum	monthly			
Provision of site specific health and safety induction training for all on site	Lump sum	Lump sum			
Conducting of toolbox talks to employees on health and safety issues on a weekly basis	Lump sum	Lump sum			
Provision of sufficient First Aiders for site as per legal requirements	Lump sum	Lump sum			
Provision of First Aid Boxes for site as per legal requirements	Lump sum	Lump sum			
Provision of sufficient fire extinguishing equipment for site	Lump sum	Lump sum			
Fire drills on site at least 6 monthly basis for duration of project	Lump sum	Lump sum			
Provision of welfare facilities for site (drinking water, toilets, soap, means of drying hands, toilets paper, sheltered eating areas, etc.)	Lump sum	Lump sum			
Provision for safe disposal of waste, spill kits, safe housekeeping and storage practices	Lump sum	Lump sum			
Provision of leading edge protection, covers to prevent falls	Lump sum	Lump sum			
Provision of fencing at site camp and to protect excavations	Lump sum	Lump sum			
COVID 19 measures – provision of hand sanitiser, respiratory protection (as required), safety signage, formal and informal communication to all on site and any other measures necessary to contain and detect COVID 19 on site (refer to safety specification)	Lump sum	Lump sum			
Compilation of consolidated Safety File at Close Out stage and handover of file to safety agent in hard copy or digital format	Lump sum	Lump sum			
Supply of safety caps on all exposed re-bar	Lump sum	Lump sum			
Any other compliance item in site specific safety specification issued by project client/ safety agent with potential cost implication	Lump sum	Lump sum			
• Item 1					
• Item 2					
• Item 3					
• Item 4					
• Item 5					
Principal contractor's general compliance with respect to the Occupational Health and Safety Act, Construction and other health and safety Regulations apart from other provisions in this bill.	Lump sum	Lump sum			
SUMMARY TOTAL OHS COST PROVISION					



**ANNEXURE G – SAFETY SPECIFICATION AND BASELINE RISK ASSESSMENT
ISSUE REGISTER**

Date of Original Safety Specification Compilation	Compiled By	Issue Date
03 March 2022	Manuel Koen	04 March 2022

Revision Summary	Revised By	Revision Date

Acknowledgement:

I, _____ representing
_____(Contractor), have satisfied myself with the content of this Health and Safety Specification and shall ensure that our employees and contractors on site comply with the requirements of this document, our safety documentation and health and safety legislation.

Signature of Contractor

Date

Comments:

PORTION 1: GENERAL CIVIL SPECIFICATIONS

This project specification is set out in two portions.

PORTION 1 covers the standard specifications of the works to be met.

PORTION 2 covers variations and additions to the standard and particular specifications that are applicable to the contract.

All clauses in the project specification are preceded with "PS". In Portion 1, this is followed by a number. In Portion 2, this is followed by the relevant letter(s) and number of the relevant clause of the standard specifications. This will replace, amend or add to the standard specification with the same number. For a new clause the numbers follow on from the last clause number used in the relevant specification.

Any clause referred to in the standard specification will also include the relevant Project Specification.

PORTION 1

APPLICABLE STANDARDISED SPECIFICATIONS

Although not bound in nor issued with this document, the following standardised specifications (latest edition) shall form part of the contract document and, notwithstanding the provisions of Subclause 2.2 of SABS 1200 A, editions specified below shall apply:

SABS 1200	A	General
SABS 1200	AA	General
SABS 1200	C	Site Clearance
SABS 1200	D	Earthworks
SABS 1200	DA	Earthworks (small works)
SABS 1200	DB	Earthworks (Pipe Trenches)
SABS 1200	DM	Earthworks (Road, Subgrade)
SABS 1200	G	Concrete (structural)
SABS 1200	GE	Structural Precast Concrete
SABS 1200	L	Medium Pressure Pipelines
SABS 1200	LB	Bedding (Pipes)
SABS 1200	LC	Cable Ducts
SABS 1200	LD	Sewers
SABS 1200	LE	Stormwater Drainage
SABS 1200	M	Road (general)
SABS 1200	ME	Sub-base

All local and municipal regulations and bylaws and the National Building Regulations, Standard Building Regulations (Act 33 of 1992), Occupational Health and Safety Act (Act 85 of 1993) and South African National Standards 1914, 1921 and 2001

PORTION 2: VARIATIONS AND ADDITIONS TO THE STANDARD AND PARTICULAR SPECIFICATIONS

The following variations and additions to the SABS 1200 Standardized Specifications referred to in Portion 1 will be valid for this contract. The prefix "PS A" indicates an amendment to SABS 1200 A, "PS C" to SABS 1200 C, etc. The numbers following these prefixes are the relevant clause numbers in SABS 1200.

SABS 1200 A: GENERAL

PS A 2 INTERPRETATIONS

PS A 2.3 Definitions

(a) General

Add the following definitions:

"General conditions: The general conditions of contract specified for use with this contract and the special conditions of contract as applicable.

Specified: As specified in the standardized specifications, the drawings or the project specifications. Specifications shall have the corresponding meaning."

(c) Measurement and payment

Replace the definitions for fixed charge, time-related charge and value-related charge with the following:

"Fixed charge: A charge that is not subject to adjustment on account of variation in the value of the contract amount or the contract time of completion.

Time-related charge: A charge, the amount of which is varied in accordance with the time for completion of the work as adjusted in accordance with the provisions of the contract.

Value-related charge: A charge, the amount of which is varied pro rata the final value of the measured work executed and valued in accordance with the provisions of the contract."

PS A 3 MATERIALS

PS A 3.1 Quality

Substitute the second sentence of the first paragraph of A3.1 with the following:

"Materials shall bear the official mark of the appropriate standard."

Substitute the second paragraph with the following:

"Testing to ascertain that the materials do comply with the relevant minimum requirements shall be undertaken by a combined Engineer's/Contractor's commercial laboratory. The cost of tests done and of which the results do not comply with the minimum requirements shall be for the Contractor's account.

The Contractor shall inform the Engineer of any testing to be done at least 48 hours before such test are required and must allow in his programme for the time necessary for the tests and the processing of the results thereof."

PS A 3.3 Ordering of materials

The quantities set out in the schedule of quantities have been determined from calculations based on data available at the time and should therefore be considered to be only approximate quantities. The contractor shall therefore, verify the quantities before ordering materials of any kind. No liability or responsibility whatsoever shall be attached to the employer for materials ordered by the contractor except if they have been ordered in accordance with written confirmation issued by the engineer.

The Contractor shall satisfy himself of the continuous availability of material. No extension of time or additional compensation will be granted if material cannot be obtained locally or has to be sourced elsewhere.

PS A 4 PLANT

PS A 4.2 Contractor's Office, Stores and Services

Add the following paragraph before the first paragraph:

"The Contractor's construction camp shall be situated as indicated at the site inspection and shall contain all offices, stores, workshops, toilet facilities, etc. The camp shall always be kept in a neat and tidy condition."

Add the following to the second paragraph:

"One toilet per 10 workmen shall be provided and must be screened from public view and their use shall be enforced. The contractor shall maintain them in a clean & hygienic state at all times.

The contractor shall make arrangements if necessary for the removal of night soil."

Add the following to A 4.2:

"The Contractor's site agent or representative must be contactable at all times"

PS A 5 CONSTRUCTION

A 5.1 Survey

PS A 5.1.1 Setting out of the Works

Bench marks as well as reference pegs have been placed on the Site and these will be used to set out the Works. Setting out of the works is the sole responsibility of the Contractor and shall be done from survey pegs along the road reserve boundaries and from bench marks as indicated on the drawings. The positions and values of these pegs are given on the drawings.

The Contractor shall within two (2) weeks after the land surveyor has set out pegs, check levels over all reference pegs and bench marks and line pegs. This must be done before the Contractor intends constructing any portion of the Works influenced by such pegs or bench marks. The Engineer shall be informed in writing of any discrepancy discovered in the positions or levels immediately on discovery but in any event at least 7 days before such construction is due to start. Any costs or subsequent costs arising from discrepancies, which have not been reported to the Engineer within the aforementioned period, shall be the sole responsibility of the Contractor. If no written statement is received from the Contractor it will be held that the Contractor has satisfied himself that the positions and levels of the reference pegs and bench marks are correct.

PS A 5.2 Watching, Barricading, Electric Lighting and Traffic Crossing

Add the following to A 5.2:

"The crossing of existing entrances must be done so that free access is ensured at all times.

Road traffic signs shall comply with the requirements of the "South African Road Traffic Signs Manual" and shall be approved by the Engineer before construction commences."

PS A 5.4 Protection of the overhead and underground services

Add the following to A 5.4:

"The Contractor shall as soon as possible after handing over of the site, commence with the detection of existing services, continuously without interruptions and finalize it at least 7 days before excavation starts at that particular section.

Provision must be made for the protection and maintenance of existing services for the duration of the contract. No payment will be made in respect of this and all costs must be included in the tendered rates. All such services, the positions of which have been located at the critical points, shall be designated as "known" services and their positions shall be indicated on a separate set of drawings, a copy of which shall be furnished to the engineer.

While he is in occupation of the site, the contractor shall be liable for all damage caused by him to known services as well as for consequential damage arising there from, whether caused directly by his operations or by lack of proper protection."

PS A 5.6 Pollution

Add the following paragraph:

"Measures to minimize dust shall include regular and effective treatment and watering of working areas. No additional payment will be made for such measures and the Contractor shall allow for them in his tendered rates.

The Contractor shall ensure that all construction debris (e.g. cement bags, timber, wire, nails, etc) waste and surplus food, food packaging, litter and organic waste are not deposited by his employees anywhere on, or off, the site except in refuse bins for removal on a regular basis by the Contractor. Refuse collected must be disposed of only at a site(s) approved by the Engineer and local authority.

The Contractor shall provide labour to clean up the Contractor's camp and working areas at least once a week, or as deemed necessary."

PS A 5.9 Site Meetings

Add the following subclause to A 5.9:

The Contractor or its authorised agent will be required to attend regular site meetings, which shall normally be held once a month on dates and at times determined by the Engineer, but in any case whenever reasonably required by the Engineer. Unless otherwise indicated in the Contract or instructed by the Engineer, such meetings shall be held at the Contractor's offices on the Site. At such monthly meetings, matters such as general progress on the Works, quality of work, problems, claims, payments and safety, etc. shall be discussed, but not matters concerning the day-to-day running of the Contract.

Technical Meetings are to be held monthly, two weeks from the Site Meetings. At such monthly meetings, matters such as technical issues and community liaison regarding programming of Works and other related matters are to be discussed."

PS A 8 MEASUREMENT AND PAYMENT

PS A 8.1 Measurement

PS A 8.1.2.1 Contents

Replace item c) with the following:

"The 'duration of construction' shall be the time for completion stated in the contract data".

PS A 8.2 Payment

PS A 8.2.1 Fixed-charge and Value –related items

Replace the contents of this item with the following:

"Saving the stipulations of 8.2.3 and 8.2.4, payment for fixed-charge and value-related items shall be made in two equal instalments. The first instalment equal to half of the tendered amount shall be made payable in the first certificate after completion of the Contractors obligations under each respective item. The second instalment shall be paid as soon as the total value certified for payment, including retention moneys, but excluding the second payment referred to above, exceeds 50% of the Tender Amount for the Contract."

PS A 8.2.2 Time –related items

Replace the contents of this item with the following:

"Saving the stipulations of 8.2.3 and 8.2.4, payment for time-related items shall be made on a monthly basis calculated by multiplying the respective tendered amounts with the fraction which the total amount (excluding all payments for time-related items) certified for payment comprises of the final, estimated (if necessary) Contract Amount (excluding all payments for time-related items). Tendered amounts for time-related items shall be adjusted pro rata for any official reduction or extension of time granted on the agreed duration of construction."

“PS A 8.2.5 Adjusted payment for time-related items

The payment to the Contractor for time-related items shall be adjusted in accordance with the following formula in the event of the contract being extended:

Sum of Tendered amounts for time-related items = Extended contract period as authorised by
variation order / tender contract period

The abovementioned adjustment of the payment for time-related items shall be made in the Completion Payment Certificate and shall be the only payment for additional time-related costs.

PS A 8.5 Sums Stated Provisionally by Engineer

Add the following:

Sums allowed will be all inclusive and be paid on approval of the required proof of cost/expense incurred by the contractor.

PS A 8.7 Daywork

Replace contents with the following:

“Work will be classified as daywork only if the Engineer considers no other rate in the schedule of quantities appropriate for payment purposes.

An instruction regarding all work to be carried out under daywork in terms of clause 37(2) of the general conditions of contract will be issued at the discretion of the Engineer. Some or all of the items priced under daywork in the schedule of quantities may possibly not be required for this contract.

Before ordering any material, the Contractor shall submit quotations to the Engineer for his approval, and shall submit such receipts or vouchers to the Engineer as may be necessary for proving the amount claimed.

PS A 8.7.1 Labour

- (a) Labourerhour (hr)
- (b) Charge handhour (hr)
- (c) Junior Foreman.....hour (hr)
- (d) Senior or General Foremanhour (hr)
- (e) Artisan.....hour (hr)
- (f) Surveyorhour (hr)

PS A 8.7.2 Percentage on-cost on subtotal for labourpercentage (%)

The day work rates submitted for labour in the schedule of quantities shall be the cost of labour for each skill level and shall apply only to the number of workers approved in writing by the Engineer.

The rates shall be for normal working hours and shall be increased pro rata for overtime at the standard rate applicable if the work performed outside working hours is approved in writing by the Engineer.

The tendered percentage shall include full compensation for overhead charges, profit, liabilities, obligations, site supervision, the use of hand tools, appliances, equipment and for consumable stores. The tendered rates shall be subject to the contract price adjustment factor as laid down in of the general conditions of contract.

PS A 8.7.3 Materials Provisional Sum (PS)

PS A 8.7.4 Percentage on net cost of materials on materials..... Percentage (%)

The prices for materials (excluding VAT) shall be based on the documented proof submitted to the Engineer as specified and expenditure shall be made in accordance with the general conditions of contract. The prices shall not be subject to the contract price adjustment factor.

The tendered percentage as an on-cost on the net cost price of materials shall include full compensation for handling, overheads, profit, liabilities, obligations, risks, incidents and other on-cost for the supply, delivery and distribution of materials for dayworks.”

PS A 8.7.5 Vehicles, plant and equipment

- (a) Backhoe/ loader (50kW)hour (hr)
- (b) Tip Truck
 - (1) Capacity of 6m3hour (hr)
- (c) Self-propelled smooth vibrating roller (9t)hour (hr)
- (d) Walk-behind vibrating roller (1t).....hour (hr)
- (e) Plate Compactorhour (hr)
- (f) Water cart (9000l)hour (hr)
- (g) Compressorday
- (h) Waterpump 4”day

- (i) Waterpump 6"day
- (j) Generator.....day
- (k) Bakkieday

PS A 8.7.6 Percentage on-cost on subtotal for vehicles, plant and equipment.....percentage (%)

The daywork rates submitted for vehicles, constructional plant and equipment, in the schedule of quantities shall be a hire charge for the use of the vehicle and driver or constructional plant/equipment and operator (VAT excluded) and shall apply only to vehicles, constructional plant and equipment approved in writing by the Engineer. The rate shall include for maintenance, operative costs, establishment, insurance and other contingency costs relating to the running of the vehicle, plant or equipment.

Where there is ambiguity between the power developed at the flywheel and mass of a machine, the power shall govern the measurement category.

The Contractor and the Engineer will agree on the method of recording the working hours prior to the commencement of the work. Any long period of idling at any one time, which in the opinion of the Engineer or his representative is beyond that required for normal operating conditions, will not be paid for as working time. Non-working hours for any reason shall not be measured for payment.

The tendered percentage shall include full compensation for all administrative costs, supervision, overheads liabilities and obligations related to the running of the vehicles, constructional plant and equipment. The tendered percentage shall also include for profit and shall be subject to the contract price adjustment factor as laid down in the general conditions of contract.

SABS 1200 AB: ENGINEER'S OFFICE

PS AB 3 MATERIAL

PS AB 3.1 Nameboard

Substitute "South African Institution of Civil Engineers" in the first paragraph of AB 3.1 with "South African Association of Consulting Engineers".

One Nameboard must be erected on site, situated as specified by the Engineer. The layout of the board will be provided.

PS AB 3.2 Office Buildings

Add the following sentence to AB 3.2 as follows:

No Engineers offices will be required. The contractor shall supply an approved plastic type rain gauge that shall be securely mounted to a pole selected by the Engineer."

PS AB 3.3 Site Instruction Books

Add the following item:

"Throughout the construction period the contractor shall supply a carbon triplicate book as a site instruction book. At least one copy of each site note issued by either party shall remain in the book. The book shall be mutually accessible."

PS AB 5 CONSTRUCTION

PS AB 5.1 Nameboards

Add the following to AB 5.1:

“The nameboard shall be erected within a month of the commencement date of the contract and shall be placed at the positions indicated by the Engineer. Any damage to this board shall be repaired within fourteen days of a written instruction issued by the Engineer. No payment shall be made in terms of the contract prior to the erection of the nameboard.

The Contractor will be permitted to erect a maximum of two of his own nameboard, in positions approved by the Engineer. The Engineer reserves the right to order the removal of these boards if they are not kept in good repair.”

SABS 1200 C: SITE CLEARANCE

PS C3 MATERIAL

PS C 3.1 Disposal of material

Substitute the first sentence of C 3.1 with the following:

“Material obtained from clearing and grubbing shall be disposed of off-site. No overhaul will be paid for transportation or disposal off the site.”

SABS 1200 D: EARTHWORKS

PS D 5. Construction

PS D 5.2.2.1c Working space

Add the following to D 5.2.2.1c:

“Tenderers shall allow in their normal rates for any over-excavation required for working space. No separate payment will be made.”

SABS 1200 DA: EARTHWORKS (SMALL WORKS)

PS DA 5. Construction

PS DA 5.2.4 Compaction

Replace this item with the following:

“All fill under layerworks to be a G7 quality material compacted to 95% MOD AASHTO.”

PS DA 5.2.6.1 Free haul

Replace this item with the following:

“The haul of all material imported from commercial sources shall be regarded as free haul and allowed for in rates tendered for supply and place.”

PS DA 5.2.6.2 Overhaul

Replace this item with the following:

“All excavated material shall be spoiled off site except if otherwise directed by the Engineer. No overhaul shall be paid and rates for excavation and spoil off site shall include haulage.”

SABS 1200 DB: EARTHWORKS (PIPE TRENCHES)

PS DB 3 MATERIALS

PS DB 3.5 Backfill Materials

Add the following to DB 3.5:

“(b) All pipe trenches underneath the roadway must be backfilled with sand of upper selected layer quality compacted to 100% of the modified AASHTO maximum density. Sand is defined as non-plastic material and complies with the following sieve analysis:

	% passing
4.740 mm sieve	95% minimum
0.425 mm sieve	50% minimum
0.075 mm sieve	10% minimum”

Add the following:

“(c) Cement-stabilised backfilling

Backfilling shall be stabilised with 5% cement where directed by the Engineer. The aggregate shall consist of approved soil or gravel containing stones not bigger than 38mm and with a plasticity index not exceeding 10.

The soil or gravel shall be mixed with 5% cement and shall be compacted in layers of 100mm thick to 90% of modified AASHTO density”.

PS DB 4 PLANT

PS DB 4.1 Excavation equipment

Add the following to DB 4.1:

“All excavations exceeding the specified widths, shall be backfilled with approved selected material. No payment shall be made for this and all relevant costs shall be deemed to be included in the tendered rates.”

PS DB 5 CONSTRUCTION

PS DB 5.5 Trench bottom

Substitute “90%” in the second paragraph of DB 5.5 with “93%(100% or sand)”

PS DB 5.6 Backfilling

PS DB 5.6.3 Disposal of soft excavation material

Replace the contents of this item with the following:

“Excavation material from the trench, which is unsuitable or has become surplus because of bulking, displacement by the pipe and importation, shall be disposed of at no additional cost.”

PS DB 5.7 Compaction

PS DB 5.7.2 Areas subject to traffic loads

Add the following to DB 5.7.2:

“All pipe trenches that fall under the road pavement layers will be regarded as areas subject to traffic loads.

Sand backfilling shall be compacted to 100% of Mod AASHTO density.”

SABS 1200 DM: EARTHWORKS (ROADS, SUBGRADE)

Where required for drainage purposes, the Engineer may instruct that free draining sand be used in the selected layers. The same specifications in the table above shall apply, except the grading requirements.

PS DM 5 CONSTRUCTION

PS DM 5.2 Methods and procedures

PS DM 5.2.2 Cut and borrow

PS DM 5.2.2.2 Dimensions of cuts

Substitute "subbase" in the second paragraph of DM 5.2.2.2 with "subbase or selected layer, whichever may be applicable" and

Add the following paragraph:

“The cost for shaping cuttings to the required levels and tolerances will be deemed to be included in the relevant pay items. No separate payment will be made for any operation the contractor may require to meet the required level and tolerance.”

PS DM 5.2.2.3 (b) Cut to spoil

Add the following:

“Granular material obtained from excavations shall be spoiled on site as instructed by the Engineer.

Spoil material shall not require compaction, but shall be spread, shaped and given a smooth surface as may normally be obtained by careful bulldozer operations. The Contractor shall contact the engineer prior to dumping so that the exact place and method of dumping can be arranged with them.”

PS DM 5.2.2.4 Temporary stockpiling of materials

Add the following to DM 5.2.2.4:

“The Contractor shall program the works in such a manner that suitable excavated material shall, if practically possible, be placed directly in the appropriate position to ensure that temporary stockpiling is limited to an absolute minimum. No payment shall be made for the temporary stockpiling of material where such material is to be used for backfilling of pipe trenches, except when so ordered in writing by the Engineer.”

PS DM 5.2.3 Treatment of road bed

PS DM 5.2.3.3 Treatment of road bed

- (a) Preparation and compaction of road bed.

Substitute the first paragraph of DM 5.2.3.3 (a) with the following:

“The Contractor’s attention is drawn to the Geotechnical requirements regarding the treatment of the road bed.

The road bed shall be excavated using plant that shall not use tined buckets. The road bed shall not be ripped and compacted and shall not be rolled, but shall be rolled by means of a 3 pass 10 ton static roller after excavation and the required shaping. The lower selected layer shall be placed by means of end tipping and the exposed road bed shall **not** be trafficked.”

PS DM 5.2.4 Fill

PS DM 5.2.4.2 Placing and compaction

Add the following:

- “(f) Placing fill on unstable material

The Engineer may direct that a pioneer layer be constructed due to presence of unsuitable material / or that such unsuitable material be removed and replaced with fill material.

The pioneer layer shall be constructed by dumping and spreading successive loads of suitable coarse material in a uniform layer of thickness just sufficient to provide a stable working platform for the construction of further fill layers. Light hauling equipment and, where necessary, end tipping shall be used to place the material, and the layer shall be compacted by the use of light compaction equipment that will give the most effective compaction without overstressing the road-bed. A pioneer layer will not require compaction to a controlled density.”

PS DM 5.2.4.3 Finishing

- (e) Topsoiling

Replace the second sentence with the following:

“The thickness of the topsoil shall be as directed by the Engineer”.

- (f) Grassing

(i) Grass sods

- Fertilize the topsoiled areas with Superphosphate at 600kg per hectare.
- Vegetation is to be established by planting Kikuyu grass sods obtained from commercial sources.
- The contractor should be willing and able to provide temporary irrigation, (with water obtained from the municipal sewer treatment works” should it be deemed necessary by the environmental control officer to get vegetation established. Watering will be carried out as agreed and instructed by the environmental control officer.
- The contractor should establish a growing plant cover of at least 80% with no bare patches greater than 0,5m² before handing over of the site can occur.
- All alien vegetation and weed flora must be removed prior to any replanting which may occur during the retention period. Eradication of weeds should be carried out by hand or by hoe. They must be dispensed at a suitable location on site as directed by the environmental control officer

PS DM 5.2.8 Transport

Transport of earthworks within the confines of the estate boundaries is deemed to be included in the tendered rates and amounts. No overhaul applies to this contract, except for materials carted beyond the contract boundaries and only on written instruction of the Engineer.

PS DM 6 TOLERANCES

PS DM 6.5 Dimensions and level control

The Contractor shall submit to the Engineer, in a form acceptable to the Engineer, records of dimensions and level control, prior to requesting the Engineer to carry out any routine inspections.

PS DM 7 TESTING

PS DM 7.3 Routine inspection and testing

Substitute DM 7.3.2 with the following:

“No density shall be less than the specified minimum density for the each of the relevant layers. The contractor will keep updated plans on site indicating the following information:

- Each type of lot and the number of tests taken with the test date.
- The report date of the test results.
- Lot number as contained on the test reports.

All the test results are to be copied to the Engineer immediately on receipt. The on site file containing all the test results along with the marked up plans will be submitted to the Engineer on completion of the contract.

The cost of all routine testing done, and of which the results do not comply with the specified minimum requirement for the material, shall be borne by the Contractor and will be subtracted from the monthly payment certificates.”

PS DM 8 MEASUREMENT AND PAYMENT

Add the following new pay items:

PS DM 8.3.3 Treatment of road bed

c) Road-bed preparation and compaction of material by:

- 1) Three-pass roller compaction with a 10 ton static roller square metre (m²)

The rate shall cover the cost of shaping and compacting the road-bed material with the applicable plant.

SABS 1200 LB: BEDDING (PIPES)

PS LB 3 MATERIALS

PS LB 3.1 Selected granular material

Substitute LB 3.1 with the following:

“Selected granular material shall be an aggregate, sand or granular material, all of a non-cohesive nature and free from any organic material, of which the grading analysis shows 100% passing a 13,2 mm sieve and not more than 5% passing a 0,075 mm sieve and a PI not exceeding 6.”

PS LB 3.2 Selected fill material

Substitute LB 3.2 with the following:

The requirements of PSLB 3.1 shall apply mutatis mutandis.

PS LB 3.4.1 Suitable material available from trench excavation

Replace the first sentence of LB 3.4.1 with:

Irrespective the requirements of subclause 3.7 of SABS 1200 DB and subclause 3.4.1 of SABS 1200 LB regarding the use of selective methods of excavation, the Contractor must use selective methods of excavation and supply and use plant that will avoid burying or contaminating material that is suitable and required for bedding or covering the pipeline.

PS LB 3.5 Bedding in waterlogged conditions

In waterlogged conditions a bedding cradle of the thickness as specified in writing by the Engineer, comprising 13,2 mm single size stone complying with the requirements of SABS 1083 shall be used.

PS LB 8.2.1 Provision of Bedding from Trench Excavation

Delete the following in the fifth line:

“Within a freehaul distance of 0,5km.”

PS LB 8.2.2.2 From borrow pits

Delete the following in the last line:

“Within a freehaul distance of 0,5km.”

PS LB 8.2.2.3 from commercial sources

Delete the following in the last line:

“Within a freehaul distance of 0,5km.”

SABS 1200 LD: SEWERS

PS LD SEWERS

PS LD 5 CONSTRUCTION

PS LD 5.6 MANHOLES, INSPECTIONCHAMBERS, ETC

PS LD 5.6.7 Backfilling around manholes

Material adjacent to the walls of the manholes must be watered and mixed to its optimum moisture content, and compacted in layers not exceeding 150 mm in the compacted state. Compaction must be minimum 100% MOD AASHTO for non-cohesive material.

Backfilling around the structure must be carried out in even layers to avoid uneven side forces.

PS LD 7 TESTING

PS LD 7.2 TESTS AND ACCEPTANCE/REJECTION CRITERIA

PS LD 7.2.6 Watertightness of Manholes

Add the following:

"Manholes will be inspected at the end of the first winter after completion. No ingress of groundwater into the manhole will be allowed.

Should any manhole fail to pass the inspection to the satisfaction of the Engineer, the fault or faults shall be made good by the Contractor at his own expense according to methods approved by the Engineer and the work shall be inspected again. The cost of all extra work and inspection shall be borne by the Contractor."

SABS 1200 LE: STORMWATER DRAINAGE

PS LE STORMWATER DRAINAGE

PS LE 5 CONSTRUCTION

PS LE 5.5 CATCHPITS, MANHOLES, INLETS AND OUTLET STRUCTURES

PS LE 5.6.7 Backfilling around manholes and structures

Material adjacent to the walls of the manholes and structures must be watered and mixed to its optimum moisture content, and compacted in layers not exceeding 150 mm in the compacted state. Compaction must be minimum 100% MOD AASHTO for non-cohesive material.

Backfilling around the structure must be carried out in even layers to avoid uneven side forces.

PS LE 8 Measurement and Payment

PS LE 8.2 Scheduled Items

PS LE 8.2.8 Supply and Install Manholes, catchpits, and the like

Substitute the word "excluding" in the seventh line with the word "including".

Delete the words "which will be measured separately" from the seventh line.

SABS 1200 M: ROADS (GENERAL)

PS M 3 MATERIALS

PS M 3.1 Aggregates for pavement layers

Add the following:

Where Weathered Granites are used for G5 sub-bases the material shall be a blended mix containing crushed rock.

Add the following:

PS M 3.1.1 STATISTICAL JUDGEMENT PLAN (7.3.3)

Control and acceptance of relative compaction shall be in accordance with the statistical judgement plan as set out in Appendix B of SABS 1200M.

The contractor will keep updated plans on site indicating the following information:

- Each type of lot and the number of tests taken with the test date.
- The report date of the test results.
- Lot number as contained on the test reports.

All the test results are to be copied to the Engineer immediately on receipt. The on-site file containing all the test results along with the marked up plans will be submitted to the Engineer on completion of the contract.

SABS 1200 ME: SUBBASE

PS ME 3 MATERIALS

PS ME 3.2 Physical properties

PS ME 3.2.1 Subbase material

Add the following:

“The type of subbase layers shall be as shown in the drawings.”

“(f) Where Weathered Granites are available for use as G5 sub-bases the material shall be a blended mix containing crushed rock.”

PS ME 5 CONSTRUCTION

PS ME 5.5 Stabilisation

PS ME 5.5.1 Rate of application

Add the following:

“The Contractor should base his rates on CEM II / B-M (L-S) 42.5 Surebuild Portland Cement from Riebeeck West as the stabilising agent for layerworks. Testing will be done during construction in order to determine the required percentage cement.”

PS ME 5.5.7 Construction limitations

Replace Table 1 with:

“

Stabilising Agent	Maximum continuous period allowed from the time the stabilisation agent comes into contact with the layer being stabilised until the completion of the compaction.
CEM II 42.5	4 hours
Slaked Lime	10 hours
Unslaked Lime	10 hours

“

Add the following:

“Futhermore all mixing and processing (with the exception of compaction) of stabilised layers shall be completed by 14:00 so as to facilitate materials sampling and laboratory testing.”

PS ME 8 MEASUREMENT AND PAYMENT

Amend item 8.3.3. as follows:

**PS ME 8.3.3 Construct subbase with existing material on site
(Supply of Material Excluded)**

- (a) 150mm C3/C4 cement stabilised subbase

compacted to 97% Mod AASHTO density..... cubic metre (m³)

SABS 1200 MF: BASE

PS MF 3 MATERIALS

The requirements of subclause 3602 Materials as contained in COLTO Standard Specifications for Road and Bridge Works for State Road Authorities 1998 shall apply.

The following amendments are applicable to section 3602:

PS 3602 MATERIALS

Table 3602/1

In table 3602/1 delete 85% of bulk relative density and replace with:

“100% of modified AASHTO density (as specified)”

Add the following paragraph:

“If a granite base is used the Plasticity Index (PI) and Liquid Limit (LL) shall both be non plastic (NP).”

PS MF 7 TESTING

PS MF 7.1 General

Add the following:

“The statistical judgement plan of SABS 1200M shall apply. The base should comply to the applicable specifications after compaction.”

SABS 1200 MJ: SEGMENTED PAVING

PS MJ 1 SCOPE

Add the following:

“This section covers the furnishing of materials and the construction of clay brick paving and concrete block paving.”

PS MJ 3 MATERIALS

PS MJ 3.3 Sand for bedding and jointing

Replace the contents of this item with the following:

“Sand for bedding and jointing sand shall be free from substances that may be deleterious to blocks. In addition, the grading of the sand shall conform to that given in (a) or (b) below, no other grading of sand will be accepted.”

a) Bedding Sand

<u>Nominal sieve size (mm)</u>	<u>% Passing</u>
9,52	100

4,75	95 – 100
2,36	80 – 100
1,18	50 – 85
0,60	25 – 60
0.30	10 – 30
0.15	5 – 15
0.075	0 – 10

b) Jointing Sand shall pass a 1,18 mm sieve and shall contain 10 – 50 % (m/m) of material that passes a 0,075 mm sieve.

PS MJ 5 CONSTRUCTION

PS MJ 5.7 Joint Filling

Add the following to the fourth line after “Sand that complies with 3.3(b):

“and mixed with 3% road lime measured by volume”

PS MJ 6 TOLERANCES

PS MJ 6.3 Permissible deviations

Add the following new items:

Item	Permissible deviations (mm) Degree of Accuracy		
	III	II	I
5) Final anchor beam level to finished paving level	*	*	+0 , -5

PS MJ 7 TESTING

PS MJ 7.1.1 Checking

Replace the contents with the following:

“The contractor shall carry out sufficient checks to satisfy himself that the materials used and the workmanship (construction, tolerance and strength) attained comply consistently with the specified requirements. The contractor will make available to the engineer all the test results done. Checks will be carried out by the Engineer and the results made available to the contractor.”

PS MJ 8 MEASUREMENT AND PAYMENT

Add the following new items:

PS MJ 8.2.7 Re-application of jointing sand

(a) Re-application of jointing sand during the construction period when called upon by the Engineer cubic metre (m³)

(b) Re-application of jointing sand during the defects liability period when called upon by the Engineer

(i) Establishment number (No.)

(ii) Jointing sand..... cubic metre (m³)”

The unit of measurement for items (a) and (b)(ii) shall be the cubic metre of sand used to fill the joints. The tendered rates shall include full compensation for furnishing all materials, filling the joints and for all other work necessary to complete the works.

The unit of measurement for item (b)(i) shall be the number of times the Contractor has to establish on site in order to re-apply jointing sand. The tendered rate shall include full compensation for the Contractor to establish on site.”

SABS 1200 MK: KERBING AND CHANNELLING

PS MK 3 MATERIALS

PS MK 3.9 Bedding material

Substitute MK 3.9 with the following:

“The material on which concrete kerbs, channels and edging are bedded, shall be in accordance with the dimensions shown on the drawings and shall consist of a 15 MPa concrete mix with a 6.7 mm single size coarse aggregate.”

PS MK 5 CONSTRUCTION

PS MK 5.2 Precast concrete kerbing and channelling

Substitute the first sentence of MK 5.2 with the following:

“Precast concrete kerbing and channelling shall be laid and bedded on a concrete bedding complying with the requirements of PS MK 3.9 and to the dimensions shown on the drawings.”

PS MK 5.10 Protection

Substitute the word "bad" in the second sentence with the following:

"no chipped or patched kerbs will be accepted"

PS MK 5.11 Transition sections and inlet and outlet structures

Substitute the first sentence of the second paragraph of MK 5.11 with the following:

“Inlet and outlet structures shall be in accordance with the details shown on the drawings.”

PS MK 5.14 Expansion Joints

These joints shall be provided at 10 m intervals. These joints shall be 12 mm wide, filled with a compound such as flexcell or similar product and sealed with a polysulphide sealant. Costs of furnishing the materials and construction of the joint are deemed to be included in the laying rate.

PS MK 7 TESTING

Add the following paragraph:

“PS MK 7.2 Water testing of kerbs

A water test must be done on all kerbs, inlets and channels after installation to ensure good drainage. This test must be done after the application of the prime coat but before the placing of asphalt or a bituminous surface treatment. The channels and inlets must be cleaned before the water test is done. All alterations to kerbs, channels and inlets must be done before the placing of the final layer. No payment will be made for the water testing of kerbs.”

PS MK 7.2.2 Alternative tests

Replace the heading and contents of this sub clause with the following:

PS MK 7.2.2 Tests

The Contractor shall carry out a minimum of three cube crushing test per 1 000 m of kerbing placed. The cost of such tests shall be deemed included in the rates tendered for kerbing.

One cube crushing test shall consist of a set of six cubes made with concrete taken from the mixer, the kerbing machine or from any part of the work as ordered.

If, after three cubes of any set of six cubes have been tested after 28 days in an approved laboratory, the average crushing strength is found to be more than 3Mpa below the specified strength, the kerbing represented by the cubes will be rejected.

The Contractor may apply for resubmission of the rejected section on the basis of cores drilled from this section and tested for the estimated actual crushing strength in accordance with SABS method 865 (excluding appendix A). The cost of the drilling and testing the cores is for the Contractor's account, regardless of the outcome of the tests on the cores. The number of cores required will be determined by the Engineer and the criterion for rejection or acceptance of the section represented by the cores shall be as specified above for cubes.”

SABS 1200 MM: ANCILLARY ROADWORKS

PS MM 3 MATERIALS

PS MM 3.2 Road signs

PS MM 3.2.1 General

Add the following to MM 3.2.1:

All road signs and road markings shall be in accordance with the SA Road Traffic Signs Manual and as shown on the drawings.

PSF MASONRY

PS F 1 MATERIALS

Add the following:

“All masonry shall be minimum 14 MPa strength.”

PSN DAYWORKS/SITE INSTRUCTIONS

Dayworks may be required from time to time. All daywork sheets, inclusive of labour and materials are to be submitted to the Engineer within 48 hours of completing the task. Sheets submitted after this period will not be considered. The same applies to site instructions which carry a cost implication due to new rates or on current billed rates.

A daily site diary is to be submitted to the Engineer at the start of each day, for the previous days activities, personnel and plant on site. Failure to submit such diary will bind the Contractor to accept the Engineers diary. All work not on the drawings is to be done on a written site instruction. The Contractor is to ensure that he is provided with site instructions for all work performed that is not shown on the drawings.



Guarantee for Construction

For use with the JBCC[®] Principal Building Agreement

edition /date

GUARANTOR DETAILS AND DEFINITIONS

Guarantor:	<input type="text"/>		
Physical Address:	<input type="text"/>		
Guarantor's signatory 1:	<input type="text"/>	Capacity	<input type="text"/>
Guarantor's signatory 2:	<input type="text"/>	Capacity	<input type="text"/>
Employer:	<input type="text"/>		
Contractor:	<input type="text"/>		
Principal Agent:	<input type="text"/>		
Works:	<input type="text"/>		
Site:	<input type="text"/>		
Contract Sum:	Accepted amount inclusive of tax	Currency	<input type="text"/>
Amount in words:	<input type="text"/>		
Guaranteed Sum:	The maximum aggregate amount	Currency	<input type="text"/>
Amount in words:	<input type="text"/>		
Guarantee for Construction:	(Insert Variable or Fixed)	<input type="text"/>	<input type="text"/>
Expiry Date:	<input type="text"/>		

AGREEMENT DETAILS

Sections:	Total number / not applicable	<input type="text"/>	Last Section	<input type="text"/>
Principal Agent issues	JBCC [®] format Recovery Statement, Interim Payment Certificates, the Final Payment Certificate, the Certificate of Practical Completion and the Certificate of Final Completion			

1.0 GUARANTEE FOR CONSTRUCTION (Variable)

- 1.1 Where a Guarantee for Construction (Variable) in terms of the Agreement has been selected this clause 1.0 and 3.0 to 13.0 shall apply. The Guarantor's liability shall be limited to the diminishing amounts of the Guaranteed Sum as follows:-

GUARANTOR'S LIABILITY

- 1.1.1 Maximum Guaranteed Sum (not exceeding 10.0% of the contract sum) in the amount of:

Amount in words:

PERIOD OF LIABILITY

From and including the date of issue of this Guarantee for Construction and up to and including the date of issue of the Interim Payment Certificate certifying in excess of 50% of the contract sum

1.1.2 Reducing to the Guaranteed Sum (not exceeding 6.0% of the contract sum) in the amount of:

From and including the day after the date of the aforesaid Interim Payment Certificate and up to and including the date of issue of the only Certificate of Practical Completion or last Certificate of Practical Completion where there are sections

Amount in words:

1.1.3 Reducing to the Guaranteed Sum (not exceeding 4.0% of the contract sum) in the amount of:

From and including the day after the date of the applicable Certificate of Practical Completion and up to and including the date of issue of the only Certificate of Final Completion or the last Certificate of Final Completion where there are sections

Amount in words:

1.1.4 Reducing to the Guaranteed Sum (not exceeding 2.0% of the contract sum) in the amount of:

From and including the day after the date of the applicable Certificate of Final Completion and up to and including the date of issue of the Final Payment Certificate where payment is due to the Contractor, whereafter this Guarantee for Construction shall expire. Where the Final Payment Certificate reflects payment due to the Employer, this Guarantee for Construction shall expire upon payment of the full amount certified

Amount in words:

1.2 The Guarantor's liability limits set out in 1.1.1 to 1.1.4 shall apply in respect of any claim received by the Guarantor during the guarantee validity period

2.0 GUARANTEE FOR CONSTRUCTION (Fixed)

2.1 Where a Guarantee for Construction (fixed) in terms of the Agreement has been selected this clause 2.0 and 3.0 to 13.0 shall apply. The Guarantor's liability shall be limited to the amount of the Guaranteed Sum as follows:

GUARANTOR'S LIABILITY

Maximum Guaranteed Sum (not exceeding 5.0% of the contract sum) in the amount of:

PERIOD OF LIABILITY

From and including the date of issue of this Guarantee for Construction and up to and including the date of the only Certificate of Practical Completion or the last Certificate of Practical Completion where there are sections, whereafter this Guarantee for Construction shall expire

Amount in words:

3.0 The Guarantor acknowledges that:

3.1 Any reference in this Guarantee for Construction to the Agreement is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention to create a suretyship;

3.2 Its obligation under this Guarantee for Construction is restricted to the payment of money; and

3.3 Reference to a Recovery Statement or an Interim or Final Payment Certificate, or a Certificate(s) of Practical or Final Completion shall mean such certificate issued by the Principal Agent.

4.0 Subject to the Guarantor's maximum liability referred to in 1.0 or 2.0, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 4.1 to 4.3:

- 4.1 A copy of a first written demand notice issued by the Employer to the Contractor stating that payment of a sum certified by the Principal Agent in an Interim or Final Payment Certificate has not been made in terms of the Agreement and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 4.2;
- 4.2 A first written demand notice issued by the Employer to the Guarantor at the Guarantor's Physical Address with a copy to the Contractor stating that a period of seven (7) calendar days has elapsed since the issue of the first written demand notice in terms of 4.1 and that the sum certified has not been paid to date. The Employer herewith calls up this Guarantee for Construction and demands payment of the sum certified from the Guarantor; and
- 4.3 A copy of the applicable payment certificate which entitles the Employer to receive payment in terms of the Agreement of the sum certified in 4.0
- 5.0. Subject to the Guarantor's maximum liability referred to in 1.0 or 2.0, the Guarantor undertakes to pay the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand notice from the Employer to the Guarantor at the Guarantor's Physical Address calling up this Guarantee for Construction stating that:
- 5.1 The Agreement has been terminated due to the Contractor's default and that the Guarantee for Construction is called up in terms of 5.0. The demand shall enclose a copy of the notice of termination; or
- 5.2 A provisional sequestration or liquidation court order has been granted against the Contractor and that the Guarantee for Construction is called up in terms of 5.0. The demand notice shall enclose a copy of the court order.
- 6.0 The aggregate amount of payments to be made by the Guarantor in terms of 4.0 and 5.0 shall not exceed the Guarantor's maximum liability in terms of 1.0 or 2.0.
- 7.0 Where the Guarantor is a registered insurer and has made payment in terms of 5.0, the Employer shall within one hundred and eighty (180) calendar days of receipt of payment submit an expense account to the Guarantor showing how all monies received in terms of the Guarantee for Construction have been expended, or will be expended, and shall refund to the Guarantor any surplus amount. All monies refunded to the Guarantor in terms of this Guarantee for Construction shall bear interest at the prime overdraft rate of the Employer's bank compounded monthly and calculated from the date of payment by the Guarantor to the Employer until the date of refund.
- 8.0 Payment by the Guarantor in terms of 4.0 or 5.0 shall be made within seven (7) calendar days upon receipt of the first written demand notice to the Guarantor.
- 9.0 The Employer shall have the absolute right to arrange its affairs with the Contractor in any manner which the Employer deems fit and the Guarantor shall not have the right to claim its release from this Guarantee for Construction on account of any conduct alleged to be prejudicial to the Guarantor.
- 10.0 The Guarantor chooses the Physical Address stated above for all notices and correspondences in relation to this Guarantee.
- 11.0 This Guarantee for Construction is neither negotiable nor transferable and shall expire in terms of either 1.1.4 or 2.1, or payment in full of the Guaranteed Sum or on the Expiry Date, whichever is the earlier, whereafter no claims will be considered by the Guarantor. This original Guarantee for Construction shall be returned to the Guarantor after it has expired.
- 12.0 This Guarantee for Construction, with the required demand notices in terms of 4.0 or 5.0, shall be regarded as a liquid document for the purpose of obtaining a court order.
- 13.0 Where this Guarantee for Construction is issued in the Republic of South Africa this Guarantee for Construction shall be governed by the laws of the Republic of South Africa. A competent court in the Republic of South Africa shall have sole jurisdiction in terms of this Guarantee for Construction. Where this Guarantee for Construction is issued outside the Republic of South Africa, the laws of the guarantor who issued this Guarantee for Construction shall prevail. A competent court, in the jurisdiction in which the guarantor is domiciled shall prevail.

Signed at:

Date:

Guarantor's Signatory 1: _____

Guarantor's Signatory 2: _____

Witness: _____

Witness: _____

Guarantor's seal or stamp

Garden Route District Municipality

Construction of New Fire Station

Tender Number GRDM/29/21-22

Tenderer:

Checklist of Documents to be Submitted with Tender

		Page	
1	Summary for Tender Opening Purposes	1 & 2	<input type="checkbox"/>
2	Tax Compliance Information	18	<input type="checkbox"/>
3	Declaration of Interest	19 - 22	<input type="checkbox"/>
4	Declaration for Procurement above R10 million	23 & 24	<input type="checkbox"/>
5	Preference Points Claim Form in terms of the Preferential Procurement Regulations 2017	25 - 30	<input type="checkbox"/>
6	Sworn Affidavit - BBBEE Exempted Micro Enterprise	31	<input type="checkbox"/>
7	Declaration of Bidder's Past Supply Chain Management Practices	32-34	<input type="checkbox"/>
8	Certificate of Independent Bid Determination	35-37	<input type="checkbox"/>
9	Certificate for Municipal Services	38 & 39	<input type="checkbox"/>
10	General Information	42-44	<input type="checkbox"/>
11	Authority for Signatory	45	<input type="checkbox"/>
12	Financial References	46 & 47	<input type="checkbox"/>
13	Functionality (plus supplementary documents)	48-58	<input type="checkbox"/>
14	Certificate of Tenderer's Attendance at the Compulsory Clarification Meeting	60	<input type="checkbox"/>
15	Proof of Registration at the CIDB	61	<input type="checkbox"/>
16	Record of Addenda to Tender Documents	63	<input type="checkbox"/>
17	Form of Offer and Acceptance	65-67	<input type="checkbox"/>
18	JBCC Contract Data	68, Annex A	<input type="checkbox"/>
19	Priced Bills of Quantities	76, Annex B	<input type="checkbox"/>