



GREATER LETABA MUNICIPALITY

PROJECT NUMBER: GLM 007/2026

TENDER DOCUMENT

CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX

CLOSING DATE: 03 September 2025 @12H00

CIDB GRADING: 5 CE OR HIGHER

ISSUED FOR: THE MUNICIPAL MANAGER GREATER LETABA MUNICIPALITY P.O.BOX 36 MODJADJISKLOOF 0835 CONTACT DETAILS: TELEPHONE: (015) 309 9246/9247 FACSMILE: (015) 309 9419	ISSUED BY: T2-TECH ENGINEERS. P.O.Box. 233 FAUNA PARK POLOKWANE 0700 TEL: (015) 291 3320 CONTACT DETAILS: TECHNICAL: P Muneri EMAIL: office@t2tech.co.za
FULL NAME OF BIDDER (BIDDING ENTITY (i.e. CC, PTY, LTD, JV, etc.))	
THE OFFERED TOTAL OF THE PRICES (Including Value Added Tax)	
THE OFFERED TOTAL OF THE PRICES (Above amount in words)	
CIDB GRADING LEVEL:	CIDB CRS NUMBER (S):
CIDB GRADING LEVEL:	CIDB CRS NUMBER (S):
JV GRADING LEVEL:	

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FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX

THE TENDER

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T.1

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THE TENDER

PART T1: TENDERING PROCEDURES

PART T2: RETURNABLE DOCUMENTS

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PART T1: TENDERING PROCEDURES

T1.1	TENDER NOTICE AND INVITATION TO TENDER	
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T1.1 TENDER NOTICE

All suitable service providers are hereby invited to bid for the below mentioned project. Bidders are requested to bid as per the specification attached to the bid documents that will be obtainable from Greater Letaba offices at Modjadjiskloof at non-refundable amount of R 2 188.00 per document.

BID NO :	DESCRIPTION	SPECIAL REQUIREMENT	TECHNICAL ENQUIRIES	REFERENCE AND NOTICE NO.	CLOSING DATE AND TIME
GLM007/2026	Construction of Madumeleng/ Shotong Sports Complex		Letsoalo NA		03 September 2025 12H00

Completed bid documents signed by a duly authorized person, sealed in an envelope clearly marked "As mentioned above" must reach the undersigned by depositing it into the tender box at the foyer of the main entrance to the Municipal Offices at no 4 Botha Street in Modjadjiskloof by no later than "As mentioned above" when all tenders received will be opened in public in the **3rd of September 2025**. Municipality is not bound to accept the lowest or any bid and reserves the right to accept any part of a bid. Bids will remain valid for a period of ninety (90) days after closing date of submission thereof. Submitted tenders will be evaluated 80/20 score points with functionality.

Bids which are late, incomplete, unsigned or submitted in pencil or by telegraph or facsimile or electronically by e-mail, or not having the following documents attached for evaluation or not complying with the tender specifications, will not be evaluated and will be disqualified:

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T1.2 TENDER DATA

The conditions of tender are the Standard Conditions of Tender as contained in **Annex F of SANS 294:2004.**

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 of inconsistency between it and the Standard Conditions of Tender.

Each item of data given below is cross-referenced to the sub-clause in the Standard Conditions of Tender to which it mainly applies.

Subclause	Data
F.1.1	The employer is GREATER LETABA MUNICIPALITY.
F.1.2	The Project Document issued by the employer consists of the following: THE TENDER Part T1: Tendering procedures: T1.1 Tender notice and invitation to tender T1.2 Tender Data Part T2: Returnable documents T2.1 Returnable Schedules required for Tender Evaluation T2.2 Other Documents required for Tender Evaluation T2.3 Returnable Schedules that will be incorporated into the Contract T2.4 Other Schedules and Documents that will be Incorporated into the Contract THE CONTRACT Part C1: Agreements and contract data C1.1 Form of Offer and Acceptance C1.2 Agreement in Terms of the Occupational Health & Safety Act C1.3 Guarantee C1.4 Form Agreement in Terms of the Mine Health and Safety Act C1.5 Appointment in Terms of Section 4 of the Mine Health and Safety Act C1.6 Mine Health and Safety Act No 29 C1.7 Agreement in Terms of the Mine Health and Safety Act C1.8 Contract Data Part C2: Pricing data C2.1 Pricing instructions

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Subclause	Data
	C2.2 Bills of quantities C2.3 Summary of Bills of Quantities C2.4 Calculation of Tender Sum Part C3: Scope of work C3.1 Description of Works C3.2 Engineering C3.3 Procurement C3.4 Construction C4.5 Management Part C4: Site information C4.1 Site Information C4.2 Locality Plan Part C5: Annexures C5.1 : Proforma Documents C5.2 : Guidelines for the Implementation of Labour Intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP) C5.3 : Contract Drawings
F.1.4	The employer's agent is: Name: T2-Tech Engineers Address: Maweja House, 16A Church Street, Polokwane, 0700 Tel: 015 291 3320 Fax: 015 295 2116 E-mail: office@t2tech.co.za
F.2.1	Only those tenderers who are registered with the CIDB, or can provide proof of having applied for registration, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a 5CE or higher class of construction work, or by a contractor who is registered as a potentially emerging enterprise in terms of these Regulations at a contractor grading designation, one level higher than the contractor's registered grading designation, provided that the client (a) is satisfied that such a contractor has the potential to develop and qualify to be registered in that higher grade; and (b) Ensures that financial, management or other support is provided to that contractor to enable the contractor to successfully execute that contract are eligible to submit tenders. Joint ventures are eligible to submit tenders provided that: - every member of the joint venture is registered with the CIDB or can provide proof of having registered; - the lead partner has a contractor grading designation in the 5CE or

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Subclause	Data
	higher class of construction work; and 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 5CE or higher class of construction work are eligible to submit tenders. c) The tenderer must have in their full time employ a site agent, Foreman with minimum of at least B-Tech/National diploma in civil engineering, LIC NQF 5 and LIC NQF 4 (Supervision of construction works) for the Site Foreman. Minimum Work Opportunities to be created on this project is Eight(8).
F.2.7	The arrangements for a compulsory clarification meeting are: Venu: Modjadjiskloof Library Date: 12 August 2025 at 11H00
F.2.12	If tenderer wishes to submit an alternative tender offer, the only criteria permitted for such alternative tender offer is that it demonstrably satisfies the employer's standards and requirements, the details of which may be obtained from the employer's Agent. Calculations, drawings and all other pertinent technical information and characteristics as well as modified or proposed Pricing Data must be submitted with the alternative tender offer to enable the employer to evaluate the efficacy of the alternative and its principal elements, to take a view on the degree to which the alternative complies with the employer's standards and requirements and to evaluate the acceptability of the pricing proposals. Calculations must be set out in a clear and logical sequence and must clearly reflect all design assumptions. Pricing Data must reflect all assumptions in the development of the pricing proposal. Acceptance of an alternative tender offer will mean acceptance in principle of the offer. It will be an obligation of the contract for the tenderer, in the event that the alternative is accepted, to accept full responsibility and liability that the alternative offer complies in all respects with the employer's standards and requirements. The modified Pricing Data must include an amount equal to 5% of the amount tendered for the alternative offer to cover the employer's costs of confirming the acceptability of the detailed design before it is constructed.

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	The employer's address for delivery of tender offers and identification details to be shown on each tender offer package are: Location of tender box: Greater Letaba Municipality, P.O. BOX 36, MODJADJISKLOOF, 0835 Identification details: Bid Number: GLM007/2026, Project Name: THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX
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Subclause	Data
F.2.13. & F.3.5	A two-envelope procedure will not be followed.
F.2.15	Closing time for submission of tender offers is: 3rd September 2025 at 12:00
F.2.15	Telephonic, telegraphic, telex facsimile or e-mailed tender offers will not be accepted.
F.2.16	The tender offer validity period is 90 days .
F.2.17	The tendered lump sums and rates shall be final and binding irrespective of the total tender price (See C2.1.11).
F.2.18	The tenderer shall, when requested by the Employer to do so, submit the names of all management and supervisory staff that will be employed to supervise the labour-intensive portion of the works together with satisfactory evidence that such staff members satisfy the eligibility requirements.
F.2.23	The tenderer is required to submit with his tenders an original Tax Clearance Certificate from the South African Revenue Services ("SARS") certifying that the tenderer's taxes are in order or that suitable arrangements have been made with SARS.
F.3.4	The time and location for opening of tender offers: Date: 3rd September 2025 at 12:30: Location GLM Offices Modjadjiskloof
F.3.11	The procedure for evaluation of responsive tenders is the 80/20 preference point system as contained in the Greater Letaba Municipality procurement policy document. F.3.11.1 Functionality Functionality will be evaluated as follows • Company experience 30% • Key Personnel experience 25% • Financial Capacity 15% • plants and equipment 30% Bidder must score a minimum of 70% qualifying points based on functionality

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Subclause	Data
	F.3.11.2 Scoring Financial Offers The financial offer will be scored using the following: $P_s = W_1 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$ Where P_s = Points scored for functionality and price of the bid/proposal W_1 = (1) 90 where the financial value inclusive of VAT of all responsive tenders received have a value in excess of R500 000; or P_t = Rand value of tender under consideration $P_{\min}$ = Rand value of the lowest acceptable tender Up to 100 minus W_1 tender evaluation points will be awarded to tenderers who complete the preferencing schedule and who are found to be eligible for the preference claimed.
F3.13.1	Tender offers will only be accepted on condition that: a) the tenderer is registered with the Construction Industry Development Board in an appropriate contractor grading designation; b) the tenderer or any of its directors is not listed in 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; and c) the tenderer has not over the last five years failed to satisfactorily perform a contract for the employer and has been issued with a written notice to this effect.
F.3.18	The number of paper copies of signed contract to be provided by the Engineer is Three (3).
	Eligibility requirements A contract will only be entered into with a tenderer who has in his employ management and supervisory staff satisfying the requirements of the scope of work for labour intensive competencies for supervisory and management staff.

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Subclause	Data
	Tender Qualification: Labour Intensive Contracts To qualify for award of the Contract, tenderers shall meet the following minimum qualifying criteria: (a) Having participated in and graduated with fully satisfactory results from the relevant national qualification framework training organized under EPWP (or other similar project), and applying trained supervisory staff on a full-time basis for the execution of the works. (b) Liquid assets/or credit facilities covering the expected expenditures for two full work months; (c) Proposals for timely acquisition (own, lease, hire, etc.) of the essential minimum equipment; (d) The contractor will carry out the works using labour based work methods as described in the Special Conditions of Contract.

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PART T2: LIST OF RETURNABLE DOCUMENTS

The tenderer must complete the following returnable documents:

T2.1	RETURNABLE SCHEDULES FOR TENDER EVALUATION	T.12
T2.2	OTHER DOCUMENTS REQUIRED FOR TENDER EVALUATION	T.39
T2.3	RETURNABLE SCHEDULES THAT WILL BE INCORPORATED INTO THE CONTRACT.....	T.43

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T2.1 RETURNABLE SCHEDULES FOR TENDER EVALUATION

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TENDERERS SHALL TAKE NOTE OF THE FOLLOWING BID CONDITIONS:

- Bidders must complete the Tender Document in Blank Ink, All Pages of the Tender Document must be Initialed, All Forms Must Be Completed, the Bidder Must Sign for All Mistakes/Errors. Should the Bidder Not Adhere to these instructions and those below, the Bid will be considered as being non-Responsive and would therefore be Disqualified.

Bidders Must submit the returnable documents listed below. Failure to submit returnable documents will render the bid non-responsive and will be disqualified

List of returnable:

The tenderer must Submit the following returnable documents:

ITEM	Bids will be disqualified if the following is not provided:	
1.	Company registration certificate (C.K certificate)	
2.	Proof of SARS Tax pin (for all companies in case of a Joint Venture)	
3.	In case of a Joint venture, Association or Consortium a formal contract agreement must be signed by both parties and be attached (if applicable).	
4.	Certified ID copies of all directors/member/shareholders of the company (for all companies in case of a Joint Venture)	
5.	Recent proof of payment for municipal rates and taxes or municipal services charges owed by that bidder or any of its directors to the Municipality which are not in arrears for not more than three months in line with regulation no.38 of the Municipal Supply Chain Management Regulations/ recent and original proof of residence from Traditional Authority or Induna in case where business is located in a non-ratable area / valid lease agreement signed between the Lessor and the Lessee(Bidder).	
6.	Company Profile or schedule indicating bidder's experiences (for all companies in case of Joint Venture)	
7.	All pages of the bid document must be signed and initialed and must be properly completed in black ink (alterations on the bid document must be initialed or signed off)	
8.	The Bidders must submit the master registration number (Central Supplier Database registration number) to enable the Municipality to verify the bidders tax compliance and other information.	
9.	Valid and Relevant letter of good standing (Compensation for Occupational Injuries and Disease Act (COIDA)) from Department of Labour OR any company accredited by Department of Labour.	
10.	Attached letter of Intent to provide guarantee	
11.	Attach Proof of Purchase (Receipt or Proof of payment)	
12.	A copy of relevant CIDB Grading downloadable from the CIDB website.	
13.	Attach bank rating letter no older than 3 months.	
14.	Attach recent three (3) years Audited Financial Statements should the bidder's price offer exceeds R10 million rands.	
15.	Completion of Form of Offer	
16.	Completion of Schedule of Quantities(BOQ must be clearly completed, any alterations must be initialized)	
17.	Certificate of Authority for Signatory	

NB: The evaluation of the bid will be conducted in two stages; first stage will be assessment on functionality. Only bidders that obtain 70 points will be subjected to 80/20 Preference point scoring system, where 80 points will be allocated for price only and 20 points will be allocated based on the specific goals points scored.

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Bidders shall take note of the following bid conditions:

1. Specific goals in terms of the Preferential procurement regulations 2022 will apply on this bid.
2. Council reserves the right to negotiate further conditions in terms of SCM regulation 24 with the successful bidder.
3. Council reserves the right not to appoint.
4. No bidder will be appointed if not registered on Central Supplier Database.
5. Late, incomplete, unsigned, faxed or emailed bids will not be accepted.

NB: Certification on the documents should not be older than Six months.

The evaluation of the bid will be conducted in two stages; first stage will be assessment on functionality. Only bidders that obtain 70 points will be subjected to 80/20 Preference point scoring system, where 80 points will be allocated for price only and 20 points will be allocated based on the specific goals points scored.

Criteria for specific goals :

Specific goals	Points
100% Black owned companies	10
Women owned	5
People with disabilities	2.5
People who are youth	2.5
TOTAL SCORE	20

NB: The evaluation of the bid will be conducted in two stages; first stage will be assessment on functionality. Only bidders that obtain 70 points will be subjected to 80/20 Preference point scoring system, where 80 points will be allocated for price only and 20 points will be allocated based on the specific goals points scored.

Bidders shall take note of the following bid conditions:

1. Specific goals in terms of the Preferential procurement regulations 2022 will apply on this bid.
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NB: Certification on the documents should not be older than six months

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Evaluation Criteria FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX

NB *Bidders must obtain at least a minimum of 70 points on Functionality to be considered for the next stage. Bidders who obtain less than 70 points will be disqualified.*

Bidders that obtain 70 points and above will be further evaluated on 80/20 Split

REQUIRED FOR POINTS SCORING

Curriculum Vitae of key personnel with original certified copies of ID and qualifications, years of relevant experience on similar projects and projects names.

Schedule of company experience (appointment letters and completion certificates)

Schedule of plants

Bank rating letter not older than 3 months

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FUNCTIONALITY EVALUATION CRITERIA

COMPANY EXPERIENCE

The Bidder must attach Appointments Letters and Completion Certificates for Successfully Completed Projects over the Value of R 4 000 000.00 Points will only be allocated to Projects that fit the Criteria and for Projects that are related to Civil works	CONTRACTS MANAGER	SCORING CRITERIA	WEIGHT	SCORE
		The Bidder Scores Zero (0) points where no information regarding the Company's Relevant Past Experience has been indicated.	0	
		1 project of similar nature that was Successfully Completed within the last 10 years	10	
		2-3 Project of similar nature that were Successfully Completed within the last 10 years	20	
		4 or more Project of similar nature that were Successfully Completed within the last 10 Years	30	
		COMPANY EXPERIENCE TOTAL	30	

FINANCIAL CAPACITY

	BANK RATING	SCORING CRITERIA	WEIGHT	SCORE
			0	
		BANK RATING = E	5	
		BANK RATING = D	10	
		BANK RATING = A, B, & C	15	
		FINANCIAL CAPACITY TOTAL	15	

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KEY PERSONNEL

Certified Copies of Academic Qualifications Certificates must be attached. Years of Experience will be counted from the year when the Qualification in question was obtained	SITE AGENT /CONSTRUCTION MANAGER	SCORING CRITERIA	WEIGHT	SCORE
		No formal Qualification Obtained Qualifications Not Attached	0	
		National Certificate N6: Civil Engineering	3	
		National Diploma (N. Dip.): Civil Engineering with less than 5 years' experience	5	
		National Diploma (N. Dip.): Civil Engineering with more than 5 years' experience	7	
		Bachelor of Science (BSc.Eng.) Civil Engineering Bachelor of Technology (B-Tech.): Civil Engineering: with more than 5yrs experience	10	
		TOTAL	10	
Certified Copies of Academic Qualifications Certificates must be attached. Years of Experience will be counted from the year when the Qualification in question was obtained	SITE FORMAN	SCORING CRITERIA	WEIGHT	SCORE
		No formal Qualification Obtained Qualifications Not Attached	0	
		National Certificate N6: Civil Engineering	5	
		National Diploma (N. Dip.): Civil Engineering with more than 3 years' experience	10	
		TOTAL	10	
Certified Copies of Academic Qualifications Certificates must be attached. Years of Experience will be counted from the year when the Qualification in question was obtained	SAFETY OFFICER	SCORING CRITERIA	WEIGHT	SCORE
		No formal Qualification Obtained Qualifications Not Attached	0	
		Relevant Qualifications with more than 3 years' experience	3	
		TOTAL	3	
Certified Copies of Academic Qualifications Certificates must be attached. Years of Experience will be counted from the year when the Qualification in question was obtained	LIC SUPERVISOR	SCORING CRITERIA	WEIGHT	SCORE
		No formal Qualification Obtained Qualifications Not Attached	0	
		LIC Level 2 with less than 5 years' experience	1	
		TOTAL	1	
Certified Copies of Academic Qualifications Certificates must be attached. Years of Experience will be counted from the year when the Qualification in question was obtained	LIC SUPERVISOR	SCORING CRITERIA	WEIGHT	SCORE
		No formal Qualification Obtained Qualifications Not Attached	0	
		LIC Level 4 with less than 5 years' experience	1	
		TOTAL	1	
KEY PERSONNEL TOTAL			25	

GREATER LETABA MUNICIPALITY**CONTRACT No. GLM007/2026****FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX****PLANT SCHEDULE**

Certified Copies of Proof of Ownership must be attached. In the case where the Plant is to be Hired, a Letter of Intent must be Attached along with Certified Copies of Proof of Ownership	CONSTRUCTION PLANT	SCORING CRITERIA	WEIGHT	SCORE
		TRACTOR LOADER BACKHOE(TLB) x 1	10	
		GRADER x 1	5	
		VIBRATORY ROLLER x 1	5	
		WATER TANKER x 1	5	
		TIPPER TRUCK x 2	5	
		PLANT SCHEDULE TOTAL	30	

TOTAL FUNCTIONALITY POINTS SCORED

CRITERIA	WEIGHT	SCORE
COMPANY EXPERIENCE	30	
FINANCIAL CAPACITY	15	
KEY PERSONNEL	25	
PLANT SCHEDULE	30	
TOTAL POINTS FOR FUNCTIONALITY	100	
FUNCTIONALITY THRESHOLD (MINIMUM SCORE)	70	

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T2.1 A CERTIFICATE OF AUTHORITY

Indicate the status of the tenderer by ticking the appropriate box hereunder. The tenderer must complete the certificate set out below for the relevant category.

A Company	B Partnership	C Joint Venture	D Sole Proprietor	E Close Corporation

A. Certificate for company

I,....., chairperson of the board of directors of hereby confirm that by resolution of the board (copy attached) taken on20...., Mr/Mrs.....acting in the capacity ofwas authorised to sign all documents in connection with this tender and any contract resulting from it on behalf of the company.

As witness

1.....
.....
Chairman

2.....
.....
Date

B. Certificate of partnership

We, the undersigned, being the key partners in the business trading as

hereby authorise Mr/Mrs... .., acting in the capacity ofto sign all documents in connection with the tender for Contract.....and any contract resulting from it on our behalf.

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NAME	ADDRESS	SIGNATURE	DATE

NOTE: This certificate is to be completed and signed by all of the key partners upon whom rests the direction of the affairs of the Partnership as a whole.

C. Certificate for Joint Venture

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorise Mr/Mrs....., authorised signatory of the company..... ,

Acting in the capacity of lead partner, to sign all documents in connection with the tender offer for Contractand any other contract resulting from it on our behalf.

This authorisation is evidenced by the attached power of attorney signed by legally authorised signatories of all the partners to the Joint Venture.

NAME OF FIRM	ADDRESS	AUTHORISING SIGNATURE, NAME & CAPACITY
Lead partner		

D. Certificate for sole proprietor

I....., hereby confirm that I am the sole owner of the business trading as.....

As Witness:

1.....

.....
Signature: Sole owner

2.....

.....
Date

GREATER LETABA MUNICIPALITY

CONTRACT No. GLM007/2026

FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX

E. Certificate for Close Corporation

We, the undersigned, being the key members in the business trading as.....hereby authorise Mr/Mrs.....

Acting in the capacity of....., to sign all documents in connection with the tender for Contract.....and any contract resulting from it on our behalf.

NAME	ADDRESS	SIGNATURE	DATE

NOTE: This certificate is to be complete and signed by all the key members upon whom rests the direction of the affairs of the Close Corporation as a whole

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T2.1 B CERTIFICATE OF ATTENDANCE AT CLARIFICATION MEETING

This is to certify that

.....(Tenderer)

of

.....(address)

.....

Was represented by the person(s) named below at the compulsory meeting held for all tenderers at
..... (Location) on..... (Date), starting
at.....

We acknowledge that the purpose of the meeting was to acquaint ourselves with the site of the works and / or matters incidental to doing the work specified in the tender documents in order for us to take account of everything necessary when compiling our rates and prices included in the tender.

Particulars of person(s) attending the meeting:

Name Signature.....

Capacity.....

Name..... Signature.....

Capacity.....

Attendance of the above persons at the meeting is confirmed by the employer's representative/
engineer, namely:

Name..... Signature.....

Capacity..... Date & Time.....

GREATER LETABA MUNICIPALITY**CONTRACT No. GLM007/2026****FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX****T2.1 C SCHEDULE OF PROPOSED SUBCONTRACTORS**

We notify you that it is our intention to employ the following subcontractors for work in this contract.

If we are awarded a contract we agree that this notification does not change the requirement for us to submit the name of proposed subcontractors in accordance with requirements in the contract for such appointments. If there are no such requirements in the contract, then your written acceptance of this list shall be binding between us.

	Name and address of proposed Subcontractor	Company Registration Number & CIDB Classification	Description of Work to be executed by Subcontractor
1.			
2.			
3.			
4.			
5.			

Signed.....

Date.....

Name.....

Position.....

Tenderer.....

GREATER LETABA MUNICIPALITY**CONTRACT No. GLM007/2026****FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX****T2.1 D SCHEDULE OF PLANT AND EQUIPMENT**

The following are lists of major items of relevant equipment that I/we presently own or lease and will have available for this contract or will acquire or hire for this contract if my/our tender is accepted.

(a) Details of major equipment that is owned by and immediately available for this contract.

Quantity	Description, size, capacity, etc.

Attach additional pages if more space is required.

(b) Details of major equipment that will be hired, or acquired for this contract if my/our tender is acceptable

Quantity	Description, size, capacity, etc.

Attach additional pages if more space is required

Signed..... Date.....

Name..... Position.....

Tenderer.....

GREATER LETABA MUNICIPALITY**CONTRACT No. GLM007/2026****FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX****T2.1 SCHEDULE OF THE TENDERER'S EXPERIENCE**

The following is a statement of similar work successfully executed by myself/ourselves in the last three years:

Employer, contact person and telephone number	Description of contract	Value of work Inclusive of VAT (Rand)	CIDB Classification	Date Completed

Signed..... Date

Name..... Position.....

Tenderer.....

GREATER LETABA MUNICIPALITY**CONTRACT No. GLM007/2026****FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX****T2.1 F 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 of Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Attach additional pages if more space is required.

Signed..... Date

Name..... Position.....

Tenderer.....

GREATER LETABA MUNICIPALITY**CONTRACT No. GLM007/2026****FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX****T2.1 G DEVIATIONS OR QUALIFICATIONS BY THE TENDERER**

Note: Tenderers will be declared to be non-responsive should any proposed deviation or qualification, save for where alternative tender offers are permitted in terms of the Tender Data, in the employer's opinion:

- a) Detrimentially affect the scope, quality, or performance of the works, services or supply identified in the Scope of Work,
- b) Change the employer's or the tenderer's risks and responsibilities under the contract, or
- c) Affect the competitive position of other tenderers presenting responsive tenders, if it were to be rectified.

PAGE	DESCRIPTION

SIGNED ON BEHALF OF TENDERER:

.....

GREATER LETABA MUNICIPALITY**CONTRACT No. GLM007/2026****FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX****T2.1 H CONTRACTOR'S ESTABLISHMENT ON SITE**

Should the combined, extended total tendered for Item 13.01 The contractor's gene Municipality obligations:

- (a) Fixed obligations
- (b) Value-related obligations
- (c) Time-related obligations

Exceed a maximum of 15 % of the tender sum (excluding VAT), the tenderer shall clearly set out his reasons for tendering in this manner in a letter attached to this page.

Total tendered for Item B13.01 expressed as a percentage of the tender sum (excluding VAT) % (insert percentage).

ESTABLISHMENT OVER AND ABOVE ITEM 13.01 (see item B13.01)		
ITEM	PORTION OF RATE OR SUM (R)	VALUE (RANDS)
TOTAL VALUE		

SIGNED ON BEHALF OF TENDERER:

Note to Tenderer:

If the tenderer should require additional compensation for his obligations under section 1300 (over and above the total tendered for item 13.01) by including such additional compensation in the tendered rates and/or lump sum of items in the bill of quantities, these items and the value of such additional compensation shall also be set out in a letter attached to this form.

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FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX

T2.1 I CERTIFICATE OF NON-COLLUSIVE TENDER

1 IN THE CASE OF A SINGLE CONSTRUCTION CONCERN:

I/We certify that this is a bona fide tender.

I/We also certify that I/We have not done and I/We undertake not to do any of the following at any time before the hour and date specified for the closure of submission of tenders for this contract.

- a) Fix or adjust the amount of this tender by or under or in accordance with any agreement or arrangement with any other person;
- b) communicate to a person other than the person calling for these tenders the amount or approximate amount of the proposed tender, except when the confidential disclosure of the approximate amount of the tender is necessary to obtain the insurance-premium quotations required for preparation of the tender;
- c) Cause or induce any other person to communicate to me/us the amount or approximate amount of any rival tender for this contract;
- d) enter into any agreement or arrangement with any other person to induce him to refrain from tendering for this contract, or to influence the amount of any tender or the conditions of any tender to be submitted, nor cause or induce any other person to enter into any such agreement or arrangement;
- e) offer or pay or give or agree to pay or to give any sum of money or valuable consideration directly or indirectly to any person for doing or having done or causing or having caused to be done in relation to any tender or proposed tender for this contract, any action similar to those described above.

In this certificate the term "person" includes any persons, body of persons or association, whether corporate or not, and the term "agreement or arrangement" includes any agreement or arrangement, whether formal or informal and whether legally binding or not.

SIGNED ON BEHALF OF TENDERER:

GREATER LETABA MUNICIPALITY

CONTRACT No. GLM007/2026

FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX

I: CERTIFICATE OF NON-COLLUSIVE TENDER (continued)

2 IN THE CASE OF A CONSORTIUM OF CONSTRUCTION CONCERNS:

We certify that this is a bona fide tender.

We also certify that we have not done and we undertake not to do any of the following at any time before the hour and date specified for the closure of submission of tenders for this contract:

- a) Fix or adjust the amount of this tender by or under or in accordance with any agreement or arrangement with any person outside this consortium;
- b) communicate to a person outside this consortium other than the person calling for these tenders, the amount or approximate amount of the proposed tender, except when the confidential disclosure of the approximate amount of the tender is necessary to obtain insurance premium quotations required for preparation of the tender;
- c) Cause or induce any person outside this consortium to communicate to us the amount or approximate amount of any rival tender for this contract.
- d) enter into any agreement or arrangement with any person outside this consortium to induce him to refrain from tendering for this contract, or to influence the amount of any tender or the conditions of any tender to be submitted, nor cause or induce any person outside this consortium to enter into any such agreement or arrangement;
- e) offer or pay or give or agree to give any sum of money or valuable consideration directly or indirectly to any person outside this consortium for doing or having done or causing or having caused to be done in relation to any tender or proposed tender for this contract, any action similar to those described above.

In this certificate the term "person" includes any persons, body of persons or association, whether corporate or not, the term "agreement or arrangement" includes any agreement or arrangement, whether formal or informal and whether legally binding or not, and the term "person outside this consortium" means, when the consortium is a partnership, a person other than a partner or an employee of a partner or the partnership, or when the consortium is a company, a person other than a person or company holdings shares in the consortium, or any employee of such a person, company or the consortium.

SIGNED ON BEHALF OF TENDERER:

GREATER LETABA MUNICIPALITY

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FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX

T2.1 J COMPLIANCE WITH OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 AND CONSTRUCTION REGULATIONS, 2014

The tenderer shall attach to this Form evidence that he is registered and in good standing with a compensation insurer who is approved by Department of Labour in terms of section 80 of the Compensation for Injury and Disease Act (COID) (Act 130 of 1993).

The tenderer is required to disclose, by also attaching documentary evidence to this form, all inspections, investigations and their outcomes conducted by the Department of Labour into the conduct of the tenderer at any time during the 36 months preceding the date of this tender.

SIGNED ON BEHALF OF THE TENDERER:

Note to tenderer:

Discovery that the tenderer has failed to make proper disclosure may result in GREATER LETABA MUNICIPALITY terminating a contract that flows from this tender on the ground that it has been rendered invalid by the tenderer's misrepresentation.

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T2.1 K REQUIREMENTS IN TERMS OF GOVERNMENT'S RECONSTRUCTION AND DEVELOPMENT PROGRAMME

K1 General

The employer requires the active participation of the contractor in this aspect of the contract.

Forms RDP 1 (E) to RDP 4 (E) apply to this section and must be completed and submitted with the tender.

The tenderer's submissions under this item will be taken into consideration when evaluating tenders received.

K2 Definitions

K2.1 Contract Participation Goal (CPG)

The value of goods, services and works, excluding VAT, for which the contractor proposes to engage labour or ABEs.

K2.2 Affirmable Business Enterprise (ABE)

A business which adheres to statutory labour practices, is a legal entity, registered with the South African Revenue Service and a continuing and independent enterprise for profit, providing a commercially useful function and

- a) which is at least 51 % Owned by one or more Previously Disadvantaged Individuals (PDI) or in the case of a company, at least 51 % of the shares are owned by one or more Previously Disadvantaged Individuals (PDI) and
- b) whose management and daily business operations are under the control of one or more of the Previously Disadvantaged Individuals (PDI) who effectively own it provided, however, that, during the period for which the business has been operating or the previous three financial years, whichever period is the lesser, the average annual turnover of the business (excluding VAT and any turnover generated in respect of work performed by other parties in a joint venture or a consortium) does not exceed:
 - 1) R10 million in respect of contractors who mainly perform Civil Engineering Services.

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- 2) R2,5 million in respect of labour-only subcontractors
- 3) R10 million in respect of Manufacturers
- 4) R15 million in respect of Suppliers
- 5) R2,5 million, exclusive of any turnover generated in respect of out-sourced activities which the enterprise does not have the in-house competence and expertise to perform, in respect of professional service providers, and
- 6) R2, 5 million in respect of other service providers, e.g., transport; and that the sum of the average annual turnovers over the same period of all the business concerns which are under the control of Previously Disadvantaged Individuals (PDI) within the business entity and Affiliated Entities does not exceed one and a half (1, 5) times the maximum allowable annual average turnover for the particular category of enterprise as set out in (b) above, seeking ABE status.

K2.3 “Historically Disadvantaged Individuals (HDI)” means all South African Citizens

1. who had no franchise in national elections prior to the introduction of the 1983 and 1993 constitutions;
2. women, or
3. disabled persons

Persons who obtained South African Citizenship after the first democratic election in April 1994, cannot qualify for preference as an HDI.

K2.4 Target values

(a) The values of the following items (excluding VAT) expressed as percentages of the Tender Sum, (excluding VAT) as proposed by the tenderer in his tender. The monetary total of these values shall be the CPG.

In this contract the minimum target values shall be as follows:

Labour Maximisation	: 30%
ABE support	10%
HDI	50%

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(b) The value of the following item expressed as a percentage of the total number of supervisory staff employed on the contract, as proposed by the tenderer in his tender. In this contract the minimum target value shall be:

HDI Supervisory Staff: 10%

The tender of a tenderer whose proposed target values are below the minimum set by the employer may be disqualified.

The maximum target values for each category will be the highest of all values submitted in the tenders short-listed for detailed evaluation.

EPWP rate is R200 per day

K3 Preferential Procurement Point System Policy

The Greater Letaba Municipality Procurement Policy is included under section C3.3 Procurement.

K4 Contract Participation Performance (CPP)

K4.1 The Contractor's Participation Performance will be measured monthly in order to monitor the extent to which he is striving to reach the Contract Participation Goal (CPG) he proposed in his tender. Failure to reach the CPG will make him liable for a penalty as prescribed in Section C3.3.1.5 of the Preferential Procurement Point System Policy.

K4.2 Monitoring of CPG

Regular returns will be required from the contractor, to be submitted with each payment certificate.

Examples of the forms to be used are illustrated under Annexure **C5.1** of this document.

K5 Training

No provision for training

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GREATER LETABA MUNICIPALITY**CONTRACT No. GLM007/2026****FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX****T2.1 L EQUITY OWNERSHIP CLAIMED IN TERMS OF SPECIFIC GOALS****1. POINTS TO BE CALCULATED FROM INFORMATION FURNISHED IN PARAGRAPH 2.8.**

Specific goals	Points	scoring
100% Black owned companies	10	
Women owned	5	
People with disabilities	2.5	
People who are youth	2.5	
TOTAL SCORE	20	

2. DECLARATION WITH REGARD TO EQUITY

2.1 Name of firm :

2.2 VAT registration number :

2.3 Company registration number :

2.4 TYPE OF FIRM

☐	Partnership
☐	One person business / sole trader
☐	Close corporation
☐	Company
☐	(Pty) Limited

[TICK APPLICABLE BOX]

2.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

.....

.....

GREATER LETABA MUNICIPALITY

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FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX

2.6 COMPANY CLASSIFICATION

☐	Manufacturer
☐	Supplier
☐	Professional service provider
☐	Other service providers, e.g. transporters, etc.

[TICK APPLICABLE BOX]

2.7 TOTAL NUMBER OF YEARS THE FIRM HAS BEEN IN BUSINESS?

2.8 List all Shareholders by Name, Position, Identity Number, Citizenship, HDI status and ownership, as relevant. Information to be used to calculate the points claimed in paragraph 1.

Name	Date/Position occupied in Enterprise	ID Number	Date RSA Citizenship obtained	* HDI Status			% of business enterprise owned
				No franchise prior to elections	Women	Disabled	

*Indicate YES or NO

2.9 Consortium / Joint Venture

2.9.1 In the event that preference points are claimed for HDI members by consortia / joint ventures, the following information must be furnished in order to be entitled to the points claimed in respect of HDI member:

Name of HDI member (to be consistent with paragraph 2.8)	Percentage (%) of the contract value managed or executed by the HDI member

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2.10 I / we, the undersigned, who warrants that he/she is duly authorised to do so on behalf of the firm certify that points claimed, based on the equity ownership, qualifies the firm for the preference(s) shown and

I / we acknowledge that:

- (i) The information furnished is true and correct.
- (ii) The Equity ownership claimed is in accordance with the applicable preference point system.
- (iii) In the event of a contract being awarded as a result of points claimed, the tenderer may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct.
- (iv) If the claims are found to be incorrect, the Greater Letaba Municipality may, in addition to any other remedy it may have –
 - (a) Recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (b) 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;
 - (c) Impose a financial penalty more severe than the theoretical financial preference associated with the claim which was made in the bid; and

WITNESSES:

1

SIGNATURE(S) of TENDERER(S)

2

DATE:

ADDRESS:

.....

.....

.....

GREATER LETABA MUNICIPALITY**CONTRACT No. GLM007/2026****FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX****RDP1(E) SCHEDULE OF LABOUR CONTENT**

The Tenderer must complete the table below to reflect the labour force anticipated to be employed on this contract, including labour employed by sub-contractors.

The specified target value is 30%.A minimum value of this 30% target value should be obtained from Local Labour content. ***See Form T2.1 K item K2.4 (a).***

Type of Labour	Man-hours	Minimum Wage Rate per Unit	Total Wage Cost (Excl VAT)
Permanent Labour			
Temporary Labour			
SMME/HDI's Labour			
TOTAL			
PERCENTAGE			

Notes to Tenderer:

- (1) Labour is defined as hourly paid personnel.
- (2) The penalty for non-compliance during the contract or for fraudulent disclosure is discussed in Section C3.3.1.5.

SIGNED ON BEHALF OF THE TENDERER:

GREATER LETABA MUNICIPALITY**CONTRACT No. GLM007/2026****FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX****RDP2(E) EMPLOYMENT OF ABE'S**

Target values of work to be executed by and goods & services to be procured from ABEs shall be 10%. *See Form T2.1 K, item K2.4 (a)*

Schedule Item No	Name of ABE	Item Description/ Goods & Services to be provided	Value	
			Rands (Excl VAT)	% of Tender Sum (Excl VAT)
TOTAL				

Notes to tenderer:

1. Regardless whether the tenderer fits the classification of an SMME/PDI, as defined in Section 3.3 of this specification, the tenderer nevertheless retains the obligation to commit to the target values prescribed under Form T2.1 K, item K2.4.
2. Tenderers shall insert "unknown" if an SMME/PDI has not been selected prior to tender closing date.
3. The penalty for non-compliance during the contract or for fraudulent disclosure is discussed in Section C3.3.1.5.

SIGNED ON BEHALF ON THE TENDERER

.....

GREATER LETABA MUNICIPALITY**CONTRACT No. GLM007/2026****FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX****RDP3(E) HDI EQUITY IN PROJECT**

The tenderer shall complete the table below

Company Name (In Case of Joint Venture, all JV Partner Names)	Other HDI Equity Share %	Female Equity Share %	Total HDI Equity Share %

Notes to tenderer:

The tenderer may be required to provide audited proof of equity distribution. In the case of public listed companies the ratios of equity shareholding are to be replaced by the ratio of HDI and female representativity at directorship level.

SIGNED ON BEHALF OF THE TENDERER

GREATER LETABA MUNICIPALITY**CONTRACT No. GLM007/2026****FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX****RDP4(E) HDI SUPERVISORY STAFF**

The minimum value of HDI supervisory staff expressed as a percentage of the total number of staff be 10%. Refer Form T2.1 K, item 2.4(b).

It is proposed to employ the following salaried personnel on this contract as supervisory staff:

(Note: The Curriculum Vitae of each staff member proposed to be attached to Section T2.3 A)

Staff Category	Number per Category	HDI Status (Yes or No)
TOTALS		

HDI as percentage of total%

Notes to tenderer:

- 1. If personnel are hourly paid they cannot be classified as supervisory staff, regardless the nature of their duties.**
- 2. The tenderer may be required to provide audited proof that the stated personnel are salaried members of staff or contracted on a monthly fee.**
- 3. Examples of relevant personnel are: Site agent, assistant site agent, senior materials technician, senior surveyors and clerks.**

SIGNED ON BEHALF OF THE TENDERER

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FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX

RDP5(E) ABE DECLARATION AFFIDAVIT

It is understood and agreed that should this contract be awarded to me an ABE Declaration Affidavit will be completed by each and every ABE employed by me on this contract and will be submitted to the Employer immediately upon demand by the Employer.

SIGNED ON BEHALF OF THE TENDERER

An example of the SMME/PDI Declaration Affidavit is given in **Annexure C5.1.**

GREATER LETABA MUNICIPALITY

CONTRACT No. GLM007/2026

FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX

ANNEURE A

TENDERD CONTRACT PARTICIPATION GOAL CALCULATION (SANS 1914-5:2002)

A.1 Tender parameters

Sum tendered (exclusive of any value added tax or sales tax

Required by law)

Less all allowances.

Net amount

NOTE: The contract participation goal is based on the net amount.

A.2 achieving the contract participation goal

I/We intend achieving the contract participation goal (CPG) as follows.

Targeted labour*	Estimated expenditure on wages and allowances (1)	Weighting' (2)	Total (estimated expenditure multiplied by weighting) (1) × (2)
Subcategory 1			
Subcategory 2			
Subcategory 3			
Total towards CPG		2	
* Different target groups may be provided for in the contract. If not, regard all target groups as being target Group 1. 'The weighting is 1,0 unless otherwise provided for in the contract.			

Briefly describe activities in which targeted labour will be engaged.

.....

.....

.....

.....

.....

.....

Total contract participation goal which is likely to be

Achieved in the performance of the contract $100 \times \frac{2}{1} \dots\dots\dots\%$ (< 100 %)

SIGNED ON BEHALF OF THE TENDERER

GREATER LETABA MUNICIPALITY

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FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX

T2.2 OTHER DOCUMENTS REQUIRED FOR TENDER EVALUATION

T2.2 A	DECLARATION OF GOOD STANDING REGARDING TAX	T.40
T2.2 B	FINANCIAL DETAILS, STATEMENTS AND BANK REFERENCES.....	T.41
T2.2 C	CONSTRUCTION INDUSTRIES DEVELOPMENT BOARD REGISTRATION	T.42

GREATER LETABA MUNICIPALITY

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FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX

T2.2 B FINANCIAL DETAILS, STATEMENTS AND BANK REFERENCES

1. FINANCIAL STATEMENTS

I/We agree, if required, to furnish a copy of the latest audited set of financial statement together with my/our Director's and Auditor's report for consideration by the GREATER LETABA MUNICIPALITY.

2. DETAILS OF CONTRACTOR'S BANK ACCOUNT

I/We furnish the following information:

- a) Name of Bank:
- b) Branch of Bank
- c) Town/city/suburb where bank is situated.....
- d) Contact Person at the Bank:
- e) Telephone number of Bank: Code: Number:
- f) Account Number:
- g) Bank rating (include confirmation from bank or financial institution):
.....

I/We hereby authorise the Employer to approach the above Bank for a reference.

SIGNED ON BEHALF OF THE TENDERER:.....

DATE:

GREATER LETABA MUNICIPALITY

CONTRACT No. GLM007/2026

FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX

T2.2 C CONSTRUCTION INDUSTRIES DEVELOPMENT BOARD REGISTRATION

The tenderer is to affix to this page either:

- Written proof of his registration with the CIDB as a Categoryor Higher

Or

- Written proof of his application to the CIDB for registration as a contractor in the category listed above.

Note:

1. Failure to affix such documentation as prescribed to this page shall result in this tender not being further considered for the award of the contract.
2. Should this tender be considered for award of the contract, based on proof of submission of application for registration in the appropriate category with the CIDB, and should proof of such subsequent registration not be forthcoming to the employer by the time of award of the contract, then this tender will no longer be considered for the award of the contract.

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T2.3 RETURNABLE SCHEDULES THAT WILL BE INCORPORATED INTO THE CONTRACT

T2.3 A ORGANOGRAM AND CURRICULUM VITAE OF KEY PERSONNEL T.44

T2.3 B PROJECT PROGRAMME AND METHOD STATEMENT T.45

T2.3 C SCHEDULE OF ESTIMATED MONTHLY EXPENDITURE..... T.46

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FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX

T2.3 A ORGANOGRAM AND CURRICULUM VITAE OF KEY PERSONNEL

Tenderer to supply an organogram for the management of the contract and include curricula vitae of key personnel. This curricula vita shall provide evidence of relevant experience of the key staff in the organogram. The personnel included here shall be used on the project unless otherwise agreed by the engineer.

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FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX

T2.3 B PROJECT PROGRAMME AND METHOD STATEMENT

Tenderer to supply project programme, using acceptable software, in sufficient detail to cover the various facets of the work.

This programme is to be supported by a method statement indicating the tenderer's proposed work plan for the construction of the works.

SIGNED ON BEHALF OF TENDERER:.....

Note to Tenderer

If a tenderer wishes to submit an alternative tender then this form, appropriately completed, and shall be attached to the bill of quantities for the alternative proposal.

GREATER LETABA MUNICIPALITY**CONTRACT No. GLM007/2026****FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX****T2.3 C SCHEDULE OF ESTIMATED MONTHLY EXPENDITURE**

The tenderer shall state his estimated value of the work to be completed every month, based on his preliminary programme and his tendered unit rates, in the table below. The amounts for contingencies and contract price adjustment shall not be included.

MONTH	VALUE (INCLUDING VAT)
1	R
2	R
3	R
4	R
5	R
6	R
7	R
8 (FINAL)	R
TOTAL: R..... (EXCLUDING CONTINGENCIES AND CONTRACT PRICE ADJUSTMENT)	

SIGNED ON BEHALF OF TENDERER:.....

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T2.4 MBD FORMS

The tenderer must complete the following returnable documents:

C.1

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THE CONTRACT

PART C1	AGREEMENT AND CONTRACT DATA
PART C2	PRICING DATA
PART C3	SCOPE OF WORKS
PART C4	SITE INFORMATION

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PART C1: AGREEMENT AND CONTRACT DATA

C1.1	FORM OF OFFER AND ACCEPTANCE	C.3
C1.2	AGREEMENT IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT NO. 85 OF 1993)	C.7
C1.3	GUARANTEE	C.10
C1.4	FORM AGREEMENT IN TERMS OF THE MINE HEALTH AND SAFETY ACT, (ACT NO. 29 OF 1996) AS AMENDED BY THE MINE HEALTH AND SAFETY AMENDMENT ACT (ACT NO. 72 OF 1997)	C.12
C1.5	APPOINTMENT IN TERMS OF SECTION 4 OF THE MINE HEALTH AND SAFETY ACT, (ACT NO. 29 OF 1996) AS AMENDED BY THE MINE HEALTH AND SAFETY AMENDMENT ACT (ACT NO. 72 OF 1997)	C.14
C1.6	MINE HEALTH AND SAFETY ACT NO. 29 OF 1996 AND AMENDMENT ACT NO. 72 OF 1997	C.16
C1.7	AGREEMENT IN TERMS OF THE MINE HEALTH AND SAFETY ACT, (ACT NO. 29 OF 1996) AS AMENDED BY THE MINE HEALTH AND SAFETY AMENDMENT ACT (ACT NO. 72 OF 1997)	C.18
C1.8	CONTRACT DATA	C.20

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C1.1 FORM OF OFFER AND ACCEPTANCE

Offer

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

“CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX CONTRACT NO. GLM007/2026“

The tenderer, identified in the offer signature block, 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 authorized, signing this part of this form of offer and acceptance, the tenderer offers to perform all of the obligations and liabilities of the contractor 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 PRICE INCLUSIVE OF VALUE ADDED TAX IS
(CONTRACT PRICE)**

.....

Rand (in words);..... (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 contractor in the conditions of contract identified in the contract data.

Signature(s)

Name(s)

Capacity

For the tenderer
(Name and address of organization)

Name and
signature of
witness

..... Date

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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 contractor 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 agreement)

PART C2 Pricing data

PART C3 Scope of work

PART C4 Site information

And drawings and documents or parts thereof, which may be incorporated by reference into **Parts C1 to C4 above.**

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the tender schedules as well as any changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance, are contained in the schedule of deviations attached to and forming part of this agreement. No amendments to or deviations from said documents are valid unless contained in this schedule, which must be signed by the authorized representative(s) of both parties.

The tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the employer's agent (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 at, or just after, the date this agreement comes into effect. 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 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.

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Signature(s)

Name(s)

Capacity

For the Employer
(Name and address or organization)Name and
signature of
witness Date:**Schedule of Deviations**

Item	Deviation Details

By the duly authorised representatives signing this schedule of deviations, the employer and the tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the tender data and addenda thereto as listed in the tender schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance.

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 Contractor:

Signature(s)

Name(s)

Capacity

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.....
(Name and address of organization)

Name and
signature of
witness Date:

For the Employer:

Signature(s)

Name(s)

Capacity

.....
(Name and address of organization)

Name and
signature of
witness Date:

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C1.2 AGREEMENT IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT NO. 85 OF 1993)

THIS AGREEMENT made at On this the day of in the year..... between the..... MUNICIPALITY (hereinafter called "the Employer") on the one part, herein represented by in his capacity asand delegate of the Employer and..... (hereinafter called "the Principal Contractor") of the other part, herein represented by in his capacity as

WHEREAS the Employer is desirous that certain works be constructed, viz and has accepted a tender by the Principal Contractor for the construction, completion & maintenance of such works and whereas the Employer and the Principal Contractor have agreed to certain arrangements and procedures to be followed in order to ensure compliance by the Principal Contractor with the provisions of the Occupational Health and Safety Act 1993 (Act 85 of 1993 and the Construction Regulation, July 2014);

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. The Principal Contractor shall execute the work in accordance with the contract documents pertaining to this contract.
2. This Agreement shall hold good from its commencement date, which shall be the date of a written notice from the employer or engineer requiring him to commence the execution of the Works, to either:
 - a) the date of the final certificate issued in terms of clause 6.10.1 of the General Conditions of Contract for Construction Works 2015 (3RD Edition) as issued by the South African Institution of Civil Engineering (hereinafter referred to as "the GCC 2015"), as contained in the contract documents pertaining to this contract, or
 - b) The date of termination of the contract in terms of clauses 9.1, 9.2 or 9.3 of the GCC 2015.
3. The Principal Contractor declares himself to be conversant with the following:-
 - a) All the requirements, regulations and standards of the Occupational Health and Safety Act (Act 85 of 1993), hereinafter referred to as "The Act", together

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with its amendments and with special reference to the following Sections of The Act.

- i) Section 8: General duties of employers to their employees.
 - ii) Section 9: General duties of employers and self-employed persons to persons other than employees.
 - iii) Section 37: Acts or omissions by employees or mandatories and
 - iv) Sub-section 37(2) relating to the purpose and meaning of this Agreement.
 - v) Construction Regulations 2014, and other safety regulations, as applicable.
 - b) The procedures and safety rules of the employer as pertaining to the Principal Contractor and to all his sub contractors.
4. The Principal Contractor is responsible for the compliance with the Act by all his sub-contractors, whether or not selected and/or approved by the employer.
5. The Principal Contractor warrants that all his and his sub-contractors' employees are covered in terms of the Compensation for Occupational Injuries and Diseases Act 1993 which cover shall remain in force whilst any such employees are present on site. A letter of good standing from the Compensation Commissioner to this effect must be produced to the Employer upon signature of the agreement.
6. The Principal Contractor undertakes to ensure that he and/or his sub-contractors and/or their respective employees will at all times comply with the following conditions:
- a) The Principal Contractor shall assume the responsibility in terms of Section 16.1 of the Occupational Health and Safety Act. The Principal Contractor shall not delegate any duty in terms of Section 16.2 of this Act without the prior written approval of the Employer. If the Principal Contractor obtains such approval and delegates any duty in terms of section 16.2 a copy of such written delegation shall immediately be forwarded to the Employer.
 - b) All incidents referred to in the Occupational Health and Safety Act shall be reported by the Principal Contractor to the Department of Labour as well as to the Employer. The Employer will further be provided with copies of all written documentation relating to any incident.

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- c) The Employer hereby obtains an interest in the issue of any formal enquiry conducted in terms of section 32 of the Occupational Health and Safety Act into any incident involving the Principal Contractor and/or his employees and/or his sub-contractors.

In witness thereof the parties hereto have set their signatures hereon in the presence of the subscribing witnesses:

SIGNED FOR AND ON BEHALF OF THE EMPLOYER:.....

WITNESS: 1..... 2

NAME

(IN CAPITALS) 1..... 2

SIGNED FOR AND ON BEHALF OF THE PRINCIPAL CONTRACTOR:.....

WITNESS: 1..... 2

NAME

(IN CAPITALS) 1..... 2

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C1.3 GUARANTEE

**The Municipal Manager
GREATER LETABA
Municipality P.O.Box 36
Modjadiskloof
0835**

CONTRACT.....

I/We, the undersigned,

.....

. acting herein in my/our capacity as

.....

..... and as such duly authorized to represent

.

..... (Hereinafter referred to as "the

Guarantor") (in the case of a Company a resolution to be attached) do hereby bind the said Guarantor for the Obligations of

.....

(hereinafter referred to as "the Contractor") in terms of the above-mentioned Contract between Greater Letaba Municipality and the said Contractor, and/or for the refund by the Contractor of any excess payments to the Contractor not due and which cannot be recovered from the amount of the retention money to the credit of the Contractor in terms of Clauses 6.2 and 6.10.1 of the General Conditions of Contract 2015, and do further bind the Guarantor as surety and co-principal debtor with the Contractor for any other amounts which may become payable to the said Chief Executive Officer from any cause whatsoever arising from the insolvency of the Contractor.

The Guarantor's liability in terms hereof shall be limited to the sum of R (%) of the contract amount) which amount I/we agree to hold at your disposal.

I/we declare that I/we on behalf of the Guarantor am/are fully acquainted with the terms and conditions of the said contract

and the Guarantor undertakes to pay the said amount of R or such portion thereof as may be demanded immediately on receipt of a written demand from you in terms of Clause 6.2 of the General Conditions of Contract 2015. A certificate under your hand shall be sufficient and satisfactory evidence as to the amount of the Guarantor's liability for the purpose of enabling provisional sentence or any similar relief to be obtained against the Guarantor.

It is recorded that this guarantee shall remain in force until all moneys which might become due and payable by the Contractor to the Chief Executive Officer have been paid and you or the said Chief Executive Officer shall always be entitled without your or the Chief Executive Officer's rights being affected, to release securities, to give time, to compound or to make any other arrangements with the Contractor, and any alteration or variation of the said Contract shall in no way release the Guarantor from liability in terms of this Guarantee.

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This Guarantee is neither negotiable nor transferable, and must be surrendered to the Guarantor in the event of the full amount of the Guarantee being paid to your Agency.

This Guarantee shall lapse upon the issue of the Completion Certificate in terms of Clause 5.14.4 of the General Conditions of Contract 2015.

SIGNED at on this day of

20..... AS WITNESSES:

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1.
ADDRESS:
.....
GUARANTOR
2.
ADDRESS:
.....

STAMP DUTY AND ENDORSEMENT

STAMP DUTY WILL BE REQUIRED AS SHOWN BELOW

(i) GUARANTEE PROVIDED BY BANK

Five (5) cents for every R100.00 or part thereof

Maximum Duty R20.00 item 20(1) of Schedule 1 of Stamp Duties Act, 1968 (Act 77 of 1968)

(ii) GUARANTEE PROVIDED BY INSURANCE COMPANY

No duty

The document constitutes a policy of insurance under the Insurance Act, 1943 (Act 27 of 1943)

ENDORSEMENT

In all cases the Deed of Suretyship must be inscribed with the number of the guarantee of policy, as applicable.

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C1.4 FORM AGREEMENT IN TERMS OF THE MINE HEALTH AND SAFETY ACT, (ACT No. 29 OF 1996) AS AMENDED BY THE MINE HEALTH AND SAFETY AMENDMENT ACT (ACT No. 72 OF 1997)

THIS AGREEMENT made aton this the.....day ofin the year..... between GREATER LETABA MUNICIPALITY (hereinafter) called “the Employer”) of the one part, herein represented by in his capacity as and delegate of the Employer in terms of the Employer’s standard powers of delegation pursuant to the provisions of Act No. 7 of 1998 and.....in his capacity as and being duly authorised by virtue of a resolution appended hereto as

Annexure A:

WHEREAS the Employer is desirous that certain works be constructed, (insert contract title) and has accepted a tender by the Contractor for the construction, completion and maintenance of such works and whereas the Employer and the contract have agreed to certain arrangements and procedures to be followed in order to ensure compliance by the Contractor with the provisions of the Mine Health and Safety Act (Act 29 of 1996); as amended by the Mine Health and Safety Amendment Act (Act No. 27 of 1997).

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. The Contractor shall himself obtain the Mining Authorisation for the sites.
2. The Contractor shall assume responsibility for the Environmental Management Programmes (EMP) in respect of the sites and shall ensure that the sites are rehabilitated at the conclusion of the Contract.
3. The Contractor shall comply with the provisions of the Act and the requirements of the Director: Mineral Development of the Department of Minerals and Energy in making the necessary financial provisions to mine optimally and safely and to rehabilitate the surface of the land concerned satisfactory and to carry out the EMP. All costs incurred in providing a guarantee or other financial provision shall be borne by the Contractor.
4. This Agreement shall hold good from the date on which the Mining Authorisation is issued until the date on which a Closure Certificate is issued in terms of the Minerals Act, 1991.
5. Nothing in this Agreement shall exonerate the Contractor from compliance with any requirements of the Engineer regarding the rehabilitation of sites prior to the issue of a Final Approval Certificate in terms of clause 5.16.1 of the General

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Conditions of Contract (2015).

6. The Contractor shall undertake all the duties and accept all the responsibilities of the owner in compliance with the requirements of the Act as amended.
7. The Contractor accepts responsibility for compliance with the Act, as amended, by all his sub-contractors whether or not selected and/or approved by the Employer.

In witness thereof the parties have set their signatures hereon in the presence of the subscribing witnesses:

SIGNED ON BEHALF OF THE EMPLOYER

AS WITNESS:

1. 2.

NAME (Print): NAME(Print):

SIGNED ON BEHALF OF THE CONTRACTOR

AS WITNESS:

1. 2.

NAME (Print): NAME (Print):

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C1.5 APPOINTMENT IN TERMS OF SECTION 4 OF THE MINE HEALTH AND SAFETY ACT, (ACT No. 29 OF 1996) AS AMENDED BY THE MINE HEALTH AND SAFETY AMENDMENT ACT (ACT No. 72 OF 1997)

I in my capacity as of the Employer, the MUNICIPALITY who is the owner of the Mine(s) state name(s) or state "to be worked under the requirements of the above mentioned, hereby appointin his capacity as of the Contractor to perform all functions entrusted to the Employer by Sections 2 and 3 of the Act, as amended

SIGNED:

DATE:

WITNESS: 1. 2.

NAME (Print): 1..... 2.....

I hereby accept the above appointment

SIGNED:

DATE:

WITNESS: 1. 2.

NAME(Print):1. 2.

Note to tenderer:

The person appointed by the Employer in terms of Section 4 of the above Act, as amended, having accepted the appointment, is required under Section 3 of the Act as amended to appoint one or more Managers to be responsible for the day to day management and operation of the mine. The form of appointment, completed and signed, shall be submitted by the successful tenderer for the approval of the Employer before the Contract is signed.

I,..... having been appointed in terms of Section 4 of

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the Act, as amended to perform all functions entrusted to the Employer by Sections 2 and 3 of the act, as amended, hereby appoint..... in his capacity as of the Contractor.....as Manager, who, in terms of Section 3 of the Act, as amended, will be responsible for the day to day management and operation of the mine(s).

SIGNED:

DATE:

WITNESS: 1. 2.

NAME (Print):1. 2.

I hereby accept the above appointment:

SIGNED:

DATE:

WITNESS: 1. 2.

NAME (Print):1. 2.

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C1.6 MINE HEALTH AND SAFETY ACT No. 29 OF 1996 AND AMENDMENT ACT No. 72 OF 1997

DEFINITIONS:

Section 102 of the Mine Health and Safety Act refers.

“mine” means, when –

- (a) “used as a noun-
 - (i) any borehole, or excavation, in any tailing or in the earth, including the portion of the earth that is under the sea or other water, made for the purpose of searching for or winning a mineral, whether is being worked or not, or
 - (ii) any other place where a mineral deposit is being exploited, including the mining area and all buildings, structures, machinery, mine dumps, access roads or objects situated on or in that area that are used or intended to be used in connection with searching, winning, exploiting or processing of a mineral, or for health and safety purposes. But, if two or more excavations, boreholes or places are being worked in conjunction with one another
 - (iii) a works; and
- b) Used as a verb, the making of any excavation or borehole referred to in paragraph (a) (i), or the exploitation of any mineral deposit in any other manner, for the purpose of winning a mineral including prospecting in connection with the winning of a mineral.
 - a) whether that substance is in solid, liquid or gaseous form;
 - b) that occurs natural in or on the earth, in or under water or in tailings, and
 - c) that has been formed by or subjected to a geological process.

“processing” means the recovering, extracting, concentrating, refining, calcimining, classifying, crushing, milling, screening, washing, reduction, smelting or gasification or any mineral, and “process” has a similar meaning

“works” means any place, excluding a mine, where any person carries out-

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- a) The transmitting and distributing to another consumer of any form of power from a mine, by the owner thereof, to the terminal point of bulk, to the power supply meter on any such other consumer's premises, or
- b) Training at any central rescue station, or
- c) The making, repairing, re-opening or closing of any subterranean tunnel, or
- d) Any operations necessary in connection with any of the operational listed in this paragraph.

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C1.7 AGREEMENT IN TERMS OF THE MINE HEALTH AND SAFETY ACT, (ACT No. 29 OF 1996) AS AMENDED BY THE MINE HEALTH AND SAFETY AMENDMENT ACT (ACT No. 72 OF 1997)

THIS AGREEMENT made aton this theday ofin the year..... between GREATER LETABA MUNICIPALITY (hereinafter) called “the Employer”) of the one part,

Here in represented by in his capacity as.....and delegate of the Employer in terms of the Employer’s standard powers of delegation pursuant to the provisions of Act No. 7 of 1998 andin his capacity as and being duly authorised by virtue of a resolution appended hereto as

a resolution appended hereto as Annexure A:

WHEREAS the Employer is desirous that certain works be constructed, (insert contract title) and has accepted a tender by the Contractor for the construction, completion and maintenance of such works and whereas the Employer and the contract have agreed to certain arrangements and procedures to be followed in order to ensure compliance by the Contractor with the provisions of the Mine Health and Safety Act (Act 29 of 1996); as amended by the Mine Health and Safety Amendment Act (Act No. 27 of 1997).

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. The contractor shall obtain the Mining Authorisation for the particular site where mining activities, as defined in the Mine Health and Safety Act, No. 29 of 1996 as amended, are to be conducted.
2. The contractor shall assume responsibility for the Environmental Management Programme (EMPR) in respect of the site and shall ensure that the site is rehabilitated at the conclusion of the contract.
3. The contractor declares himself to be conversant with:
 - a) all the requirements, regulations and standards of the Act, together with its amendments.
 - b) the procedures and safety rules of the Employer as pertaining to the Contractor and to all his sub-contractors.

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4. The contractor is responsible for the compliance with the Act and its amendments by all his subcontractors, whether or not selected and/or approved by the Employer.

SIGNED ON BEHALF OF THE EMPLOYER

AS WITNESS:

1. 2.

NAME (Print): NAME(Print):

SIGNED ON BEHALF OF THE CONTRACTOR

AS WITNESS:

1. 2.

NAME(Print): NAME(Print):

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C1.8 CONTRACT DATA

C1.8.1 Contract Specific Data

The Conditions of Contract are the General Conditions of Contract for Construction Works (2015) published by the South African Institution of Civil Engineering. (GCC).

Section 1: Data provided by the Employer

Clause	
1.1.1.5	Clause 1.1.1.5 of the GCC is replaced by the following: The “Commencement date” shall be the date the site is handed over to the Contractor.
1.1.1.15	The employer is the GREATER LETABA MUNICIPALITY .
1.1.1.17	The Engineer is T2TECH ENGINEERS (PTY) LTD
1.2	The employer’s address for receipt of communication is: Telephone: (015) 309 9246/7/8 e-mail: Address: P.O.Box 36 Modjadjiskloof, 0835
1.1.1.17	The engineer is T2Tech Engineers (Pty) Ltd
1.2	The engineer’s address for receipt of communication is: Telephone: 015 291 3320, I Ryoba: 015 295 2116 E-mail: office@t2tech.co.za Address: 16A Church street , Maweja House, Polokwane
	The special non-working days are public holidays, Saturdays and Sundays.
1.1.1.12	The year end break commences on 15 December 2025 and ends on 04 January 2026.
3.2.1	The engineer is required in terms of his appointment with the employer to obtain the following specific approvals from the employer: e.g. 1. Approval of extension of time; 2. Approval of additional costs; 3. Approval of variation orders; 4. Approval of penalties;
6.2	The Guarantee is to contain the same wording as the document included as C1.3 under returnable documents.

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Clause																			
6.2	The amount of the Guarantee is to be 10% of the Contract Price.																		
6.2	The Guarantee is to be delivered 14 days after the Letter of Acceptance.																		
5.3	The Works are to be commenced within 14 days of the Site Handover Date.																		
5.6.3	The Works programme is to be delivered within 14 days of the Site Handover date:																		
8.6	The amount to be included in the sum insured to cover the value of: Tendered amount.																		
8.6.1.1.2	a) Materials supplied by the employer for incorporation into the works is Nil																		
8.6.1.1.3	b) Professional fees not included in the Contract Price is NIL																		
8.6.1.3	The limit of the liability insurance required is R10%																		
8.6.1.5	The following additional and varied insurances are required: IL																		
6.5.1.1	Day work allowances as tendered in Section 1800 of the Bill of Quantities: Materials at cost plus 10%.																		
5.5.1	The Works shall be completed within 6 months as envisaged by the employer.																		
5.13.1	The penalty for delay is 0.06% of Contract price per working day or part thereof.																		
6.8.2	The value of payment certificates is to be adjusted in accordance with the Contract Price Adjustment Schedule, where The value of “x” is 0,150 The values of the co-efficients are: $(1-x) \left[\frac{aL_t}{L_o} + \frac{bP_t}{P_o} + \frac{cM_t}{M_o} + \frac{dF_t}{F_o} - 1 \right]$ Fixed : Estimate less than R10 000 000 or period less than 6 months <table><tr><td>New Road Construction</td><td>Rehabilitation</td><td>Labour Intensive</td></tr><tr><td>x = 0,150</td><td>...</td><td>...</td></tr><tr><td>a = 0,25</td><td>0,26</td><td>...</td></tr><tr><td>b = 0,30</td><td>0,30</td><td>...</td></tr><tr><td>c = 0,37</td><td>0,37</td><td>...</td></tr><tr><td>d = 0,08</td><td>0,07</td><td>...</td></tr></table>	New Road Construction	Rehabilitation	Labour Intensive	x = 0,150	...	...	a = 0,25	0,26	...	b = 0,30	0,30	...	c = 0,37	0,37	...	d = 0,08	0,07	...
New Road Construction	Rehabilitation	Labour Intensive																	
x = 0,150	...	...																	
a = 0,25	0,26	...																	
b = 0,30	0,30	...																	
c = 0,37	0,37	...																	
d = 0,08	0,07	...																	

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Clause	
	“L” is the “Labour Index” and shall be the “Consumer Price Index” for the urban area specified in the Contract, as published in the Statistical Release P0141.1 in table 21 of Statistics South Africa. “P” is the “Plant Index” and shall be the “Civil Engineering Plant” index as published in the Statistical Release P0142.1 in table 16 of Statistics South Africa. “M” is the “Materials Index” and shall be the price index for “Civil Engineering (Materials)” as published in the Statistical Release P0142.1 in table 15 of Statistics South Africa. “F” is the “Fuel Index” and shall be the index for “Civil Engineering” as published in Statistical Release P0142.1 Table 16 of Statistics South Africa. The suffix “o” denotes the basic indices applicable to the base month, which shall be the month prior to the month in which the closing date for the tender falls. The suffix “t” denotes the current indices applicable to the month in which the last day of the period falls to which the relevant payment certificate relates. If any index relevant to any particular certificate is not known at the time when the certificate is prepared, the Engineer shall estimate the value of such index. Any correction, which may be necessary when the correct indices become known, shall be made by the Engineer in subsequent payment certificates. The urban area nearest the site is Modjadjiskloof The base month is August 2025 <i>(the month prior to the month in which the closing date of the tender falls)</i>
6.10.1.5	The percentage limit on materials not yet built into the Permanent Works is 10%.
6.10.3	The percentage retention is 10% of the tender sum (excluding CPA and VAT).
6.10.3	The limit of retention money is 10% of the tender sum (excluding CPA and VAT)
6.10.4	Minimum amount of interim payment certificate is R2 000.00
49.6	A Retention Money Guarantee is permitted.

GREATER LETABA MUNICIPALITY**CONTRACT No. GLM007/2026****FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX**

Clause	
7.8.1	The Defects Liability Period is twelve (12) calendar months after final completion date.
10.5.2	Disputes are to be referred to mediation
10.7.1	Disputes are to be referred for final settlement to arbitration or South African Court Law
	Time within which payment to contractor for works done must be made: 21 days after measurement of Works by ER.
	Interest to be paid by Client on delayed payment: Prevailing commercial Bank interest rate.

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Section 2: Data provided by the Contractor

Clause	
1.1.1.9	The contractor is
1.2.1	The contractor's address for receipt of communication is: Telephone: Facsimile: e-mail:..... Address:.....
6.5.1.2	The percentage allowances to cover all charges for the contractor's and subcontractor's profits, timekeeping, clerical work, insurance, establishment, superintendence and the use of hand tools is%.
5.12.1	The Works shall be completed within..... months as proposed by the contractor.
6.8.3	The rate for special materials, exclusive of Value Added Tax is to be completed in Schedule T2.3 C.
Expanded Public Works Program	Payment for works identified in the Scope of Works as being labour-intensive shall only be made in accordance with the provisions of the Contract if the works are constructed strictly in accordance with the provisions of the Scope of Work. Any payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict The Contractor's payment invoices shall be accompanied by labour information for the corresponding period in a format specified by the employer. If the contractor chooses to delay submitting payment invoices, labour returns shall still be submitted as per frequency and timeframe stipulated by the Employer. The contractor's invoices shall not be paid until all pending labour information has been submitted. The current Ministerial Determination (also downloadable at www.epwp.gov.za), Expanded Public Works Programmes, issued in terms of the Basic Condition of Employment Act of 1997 by the Minister of Labour in Government Notice, shall apply to works described in the scope of work as being labour-intensive and which are undertaken by unskilled workers

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C1.9 GOVERNMENT GAZETTE: EPWP MINISTERIAL DETERMINATION

NB: EPWP Wage rate shall be R200 per day.

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PART C2: PRICING DATA

C2.1	PRICING INSTRUCTIONS	C.27
C2.2	BILL OF QUANTITIES	C.26
C2.3	SUMMARY OF BILL OF QUANTITIES	C.38

GREATER LETABA MUNICIPALITY**CONTRACT No. GLM007/2026****FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX****C2.1 PRICING INSTRUCTIONS****1. GENERAL**

The pricing instructions describe the criteria and assumptions which will be assumed in the Contract that the Tenderer has taken into account when developing his prices. The Bills of Quantities record the Contractor's rates for providing supplies, services, Engineering and construction works in accordance with the Scope of Work.

The terms of payment and the provisions for price adjustment, if applicable, are established in the Contract Data. These items are not described in the Pricing Data.

The terms of payment and the provisions for price adjustment, if applicable, are established in the Contract Data. These items are not described in the Pricing Data.

2. DOCUMENTS MUTUALLY EXPLANATORY

The documents forming the Contract are to be taken as mutually explanatory of one another. The Bill of Quantities forms an integral part of the Contract Documents and shall be read in conjunction with the Tender Data, Contract Data, Scope of Work, Site Information General and Special Conditions of Contract, the Specifications and the Drawings.

3. DEFINITIONS

For the purpose of this Bill 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 Scope of Work and Site Information.
Quantity:	The number of units of work for each item.
Rate:	The payment per unit of measurement at which the Contractor Contracts to do the work.
Amount:	The product of the quantity and the rate Tendered for an item.
Sum:	An amount Contracted for an item, the extent of which is described in the Bill of Quantities, the specifications or elsewhere but the quantity of work of which is not measured in any units

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4. DESCRIPTIONS

Descriptions in the Bill of Quantities are abbreviated and comply generally with those in the Standardised Specifications. Clause 8 of each Standardised Specification, read together with the relevant Clauses of the Scope of Work, set out what ancillary or associated activities are included in the rates for the operations specified. Should any requirements of the measurement and payment Clause of the applicable Standardised Specification, or the Scope of Work, conflict with the terms of the Bill, the requirements of the Standardised Specification or Scope of Work, as applicable, shall prevail.

5. REFERENCES

The Clauses in a specification in which further information regarding the schedule item can be obtained appears under "Reference Clause" in the Bill. The reference Clauses indicated are not necessarily the only sources of information in respect of scheduled items. Further information and specifications may be found elsewhere in the Contract documents. Standardised Specifications are identified by the letter or letters which follow SANS in the SANS 1200 series of specifications, eg. G for SANS 1200 G.

6. UNITS OF MEASUREMENT

The units of measurement indicated in the bill of quantities are metric units

The following abbreviations are used in the bill of quantities:

mm	=	millimetre
m	=	metre
km	=	kilometre
km-pass	=	kilometre-pass
m ²	=	square metre
m ² -pass	=	square metre pass
ha	=	hectare
m ³	=	cubic metre
m ³ km	=	cubic metre kilometre
l	=	litre
kl	=	kilolitre
kg	=	kilogram
t	=	ton (1000 kg)
No	=	number
mn	=	meganewton
mn-m	=	meganewton-metre
%	=	per cent
kW	=	kilowatt
Kn	=	kilonewton
PC sum	=	prime cost sum
Prov sum	=	provisional sum

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7. NET MEASUREMENTS

Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance is made for off-cuts and waste.

8. QUANTITIES

The quantities set out in these Bills of Quantities are approximate and do not necessarily represent the actual amount of work to be done. The quantities of work accepted and certified for payment will be used for determining payments due and not the quantities given in the Bill of Quantities.

The Contract Amount to be determined in accordance with the conditions of Contract identified in the Contract Data shall be computed from the actual quantities of authorized work done, value at rates determined in terms of the Contract Data, against the respective items in the Bill of Quantities.

9. CURRENCY

All rates and sums of money quoted in the Bill of Quantities shall be in Rand and whole cents. Fractions of a cent shall be discounted.

10. VALUE ADDED TAX

Value Added Tax shall be excluded from the rates and sums Contracted for the various items of work included in the Bill of Quantities. VAT will be added as a single entry to the summary.

11. RATES AND PRICES

11.1 General

- a) The Contractor must price each item in the Bill of Quantities in BLACK INK. Reproduced computer printouts of the Bill of Quantities will not be acceptable.
- b) The rates and prices to be inserted in the Bill of Quantities shall cover all the services and incidentals for the work described under the several items. Such prices and rates shall cover all costs and expenses that may be required in and for the execution of the work described, and shall cover the cost of all general risks, liabilities and obligations set forth or implied in the documents on which the Tender is based, as well as overhead charges and profit. Reasonable prices shall be inserted as these will be used as a basis for assessment of payment for additional work that may have to be carried out.
- c) Where the Contractor is required to furnish detailed drawings and designs or other information in terms of the Contract Data, all costs thereof shall be deemed to have been provided for and included in the unit rates and sum amounts Contracted for the items scheduled in the Bill of Quantities. Separate additional payments will not be made.
- d) A price or rate is to be entered against each item in the Bill of Quantities, whether the quantities are stated or not. An item against which no price is entered will be considered to be covered by the other prices or rates in the Bill. The Contractor will not be paid for items against which no rate or lump sum has been entered in the Bill of Quantities.

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- e) Should the Contractor group a number of items and Contract one lump sum for such group of items, this single lump sum shall apply to that group of items and not to each individual item.
- f) Should the Contractor indicate against any item that compensation for such item is included in another item; the rate for the item included in another item shall be deemed nil.
- g) A submission may be regarded as non-responsive if any rates or lump sums in the Bill of Quantities are, in the opinion of the Employer, unreasonable or out of proportion.
- h) Those parts of the contract to be constructed using labor-intensive methods have been marked in the Pricing Schedule(s) with the letters LI in a separate column filled in against every item so designated. The works, or parts of the works so designated are to be constructed using labor-intensive methods only. The use of plant to provide such works, other than plant specifically provided for in the scope of work, is a variation to the contract. The items marked with the letters LI are not necessarily an exhaustive list of all the activities which must be done by hand, and this clause does not over-ride any of the requirements in the generic labor-intensive specification in the Scope of Works.
- i) Payment for items which are designated to be constructed labour-intensively (either in this schedule or in the Scope of Works) will not be made unless they are constructed using labour-intensive methods. Any unauthorised use of plant to carry out work which was to be done labour-intensively will not be condoned and any works so constructed will not be certified for payment.
- j) Where minimum labour intensity is specified by the design the contractor is expected to use their initiative to identify additional activities that can be done labour-intensively in order to comply with the set minimum labour intensity target.

11.2 "Rate only" items

The Contractor shall fill in a rate (in the rate column) against all items where the words "rate only" appear in the Amount column, which rate will constitute payment for work which may be done in terms of this item. Such "rate-only" items are used where it is estimated that little or no work will be required under the item or where the item is to be considered as an alternative to another item for which a quantity is given.

11.3 Arithmetic

Excepting where Sum Amounts are required or where Provisional Sums have been indicated, the Contractor shall enter an applicable rate in the Rate Column of the Bill of Quantities for each scheduled item. He shall also enter an appropriate sum in the Amount column for each scheduled item, by determining in the applicable line item the product of the Quantity and the Unit Rate.

If there is an error in the line item resulting from the product of the unit rate and the quantity, the rate shall be binding and the error of extension as entered in the Tender Offer will be corrected by the Employer in determining the Contract Price.

Where there is an error in addition, either as a result of other corrections required by this checking process or in the Bidder's addition of prices, such error will be corrected by the Employer in determining the Contract Price.

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12. VARIATION IN TEXT

No alteration, erasure or addition is to be made in the text of the Bill of Quantities. Should any alteration, erasure or addition be made, it will not be recognized; the original wording of the Bill of Quantities will be adhered to.

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C2.2 BILL OF QUANTITIES

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BILL OF QUANTITIES							
ITEM	LI	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SABS 1200A	SECTION A: PRELIMINARY AND GENERAL				
			SCHEDULED FIXED-CHARGE AND VALUE-RELATED ITEM				
A.1		PSA 8.3.1	Fixed preliminary and general charges	L Sum	1		
A.2		PSA 8.3.2	Value - related preliminary and general charges	L Sum	1		
A.3		8.3.2	Establishment of Facilities on the Site:				
A.3.1		8.3.2.1	Facilities for Engineer:				
A.3.1.1			Furnished Office And Accessories	PC Sum	1	R50,000.00	R50,000.00
A.3.2		8.3.2.2	a) Facilities for Contractor:				
A.3.2.1			Office and storage sheds	L Sum	1		
A.3.2.3			Ablution and latrine facilities	L Sum	1		
A.3.2.5			Water supply, electric power and communications	L Sum	1		
		8.4	SCHEDULED TIME-RELATED ITEMS				
A.7		8.4.1	Contractual Requirements	L Sum	1		
A.8		8.4.2	Operation and Maintenance of facilities on the site, for Duration of Construction, except where otherwise stated				
A.8.1		8.4.2.1	Facilities for Engineer:				
A.8.1.2			Provision of Sum of Cost of Cellular calls	Prov. Sum	1	R50,000.00	R50,000.00
A.8.1.3			Contractors charges on Items from A.8.1.2	%	R50,000.00	%	
A.11		PSA 8.5	SUMS STATED PROVISIONALLY BY THE ENGINEER:				
A.11.1			Compliance with the Occupational Health and Safety Act and Construction Regulations 2014 (Including Safety File and Plan)	L Sum	1		
A.11.3			Provision of full time construction Safety representative	Month	5	R5,000.00	R25,000.00
A.11.8			Community Liason :				
			Payment of Community liaison services and expences	Prov. Sum	5	R5,000.00	R25,000.00
A.11.9			Contractors charges on Item A.11.8 & A11.3	%	R50,000.00	%	
A.12		PSA 8.6	PRIME COST ITEMS				
A.12.1			Additional tests required by the Engineer	Prov. Sum	1	R80,000.00	R80,000.00
A.12.2			Contractors charges on Item A.12.1	%	80000	%	
A.13		PSA8.8.4	Location and Protection of existing services	PC Sum	1	R20,000.00	R20,000.00
A.15			Repair & finishing of the Guard house including additional access Gate	PC Sum	1	R150,000.00	R150,000.00
			Contractors charges on Item A.13 & 14	%	170,000.00	%	
SECTION A: PRELIMINARY AND GENERAL				TOTAL CARRIED FORWARD TO SUMMARY			

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BILL OF QUANTITIES							
ITEM	LI	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
D.1	LI	SABS 1200DM	SECTION D: FOOTBALL/RUGBY FIELD, ATHLETICS TRACK AND GRAND STANDS Soccer (Football) Field Drawing No: 005 Rugby Field Drawing No: 006 Surface Finishes				
D.1.1		8.3.13	Procurement and Instalation kikuyu grass for Football/Rugby Field	m²	6000		
D.1.2			Fertiliser	m²	6000		
D.4	LI		Athletics Track Drawing No: 007 Shaping & Regravelling of the running trackas directed by the Engineer using Non dust materials (11m width)	m	800		
D.4.1			Line Markings				
D.4.1			Setting out and marking 120mm wide dermacation white lines for Rugby playfield	m	1200		
D.4.2			Setting out and marking 120mm wide dermacation yellow lines for Football playfield	m	570		
D.4.3			Setting out and marking 120mm wide dermacation yellow lines for Athletic track	m	3040		
D.5			Specialist Items				
D.5.1			Supply and install 2 sets of steel portable Football goal posts complete with nets as per the specification on drawings	No	2		
D.5.2			Supply and install 2 sets of Rugby goal posts drawings	No	2		
D.5.3			Supply and install 2 manual scoreboard for Footbal and Rugby as per the specification on drawings	No	2		
D.6	LI		Fencing				
D.6.1			Supply, erect and commission Fence for football field complete with: 72 x 2mm round tubing corner poles, 51 x 2mm round tubing intermediate poles(4m apart), 32 x 2mm round tubing top rail, 31 x 2mm joining pipe, 3m x 50mm x 2mm fully galvanised diamond mesh, 900mm x 1.8m gate with gate post,3 mm straining wire, 1.6mm binding wire, caps on top of poles: e.t.c	m	760		
F.2.4			Concrete edge beam (300mm x 300mm Class 30/19)	m³	50		
TOTAL CARRIED FORWARD TO SUMMARY							

[illegible]

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TOTAL CARRIED FORWARD TO SUMMARY

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BILL OF QUANTITIES							
ITEM	LI	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		COLTO 1800	SECTION L: Daywork and Hire of Construction Plant				
L.1			Labour:				
			(a) Normal working hours:				
L.1.1			(i) Team Leader	hour	10		
L.1.2			(ii) Semi-skilled labourer	hour	10		
L.1.3			(iv) Labourer	hour	10		
			(b) Overtime and Saturdays:				
L.1.4			(I) Team Leader	hour	10		
L.1.5			(ii) Semi-skilled labourer	hour	10		
L.1.6			(iv) Labourer	hour	10		
L.2			Hire of construction equipment:				
			1) Bulldozer with ripper:				
L.2.1			(i) 70kW - 170kW	hour	10		
L.2.2			2) Self-propelled grader (100 to 200kW)	hour	10		
			4) Tip truck or dumper with:				
L.2.4			(i) 6 m3 capacity	hour	10		
L.2.5			(ii) 10 m3 capacity	hour	10		
			5) Air compressor with:				
L.2.6			(i) 6 m3/min. capacity with two pneumatic drills	hour	10		
			6) Flat wheel roller (steel drums) with 10 to				
L.2.7			20 tons capacity	hour	10		
			8) Vibratory roller of 8 tons capacity	hour	10		
			9) TLB (tractor/loader/backhoe)	hour	10		
			11) 1800 litre water tanker	hour	10		
			12) Bomag 65	Daily	10		
			13) Bomag 90	Daily	10		
			14) Excavator 25 tons	hour	10		
			16) Generator	Daily	10		
			17) Waterpump	Daily	10		
			18) Concrete saw cutter	Daily	10		
TOTAL CARRIED FORWARD TO SUMMARY							

GREATER LETABA MUNICIPALITY**CONTRACT No. GLM007/2026****FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX****C2.3 SUMMARY OF BILL OF QUANTITIES**

BILL SECTION	DESCRIPTION	TENDER AMOUNT
A	PRELIMINARIES & GENERAL	R
B	SITE CLEARANCE	R
D	FOOTBAL/RUGBY FIELD, ATHLETICS TRACK AND GRAND STANDS	R
E	COMBO COURTS	R
G	WATER SUPPLY LINE	R
I	STORMWATER	R
J	ELECTRICAL INFRASTRUCTURE	R
L	DAYWORK AND HIRE OF CONSTRUCTION PLANT	R
NET TOTAL		R
CONTIGENCY (10%)		R
SUB-TOTAL		R
15% VAT		R
TOTAL AMOUNT TO FORM OF TENDER		R

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C3.3.1 PART C3: SCOPE OF WORK

C3.1	DESCRIPTION OF WORKS.....	C.40
C3.2	ENGINEERING.....	C.42
C3.3	CONSTRUCTION	C.44

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FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX

C1.1 DESCRIPTION OF WORKS

C3.1.1 Employer's Objectives

The employer's objectives are to fast track the delivery of public infrastructure using plant and local labour in the project for construction of Madumeleng/Shotong Sports Complex.

C3.1.2 Overview and Location of Works

The project is located in Madumeleng/Shotong Villages in Modjadjiskoof Hills of the Greater Letaba Municipality under Mopani District of the Limpopo Province.

C3.1.3 Extent of Works.

The works to be carried out by the contractor under this contract comprise mainly the following:

- a) Site clearance
- b) Grassing of Soccer pitch that accommodate Rugby, repair/completion of irrigation system
- c) Athletics tracks with gravel surface
- d) Water and electricity connections including installation of the steel tank
- e) Exit Gate
- f) Diamond mesh wire around the soccer pitch
- g) Guard house (finishings)

C3.1.4 Location of the Works

The project is located in Madumeleng village in Modjadjiskloof Hills of the Greater Letaba Municipality under Mopani District of the Limpopo Province;

Coordinates:

Latitude 23°36'32.12"S

Longitude 30°19'17.66"E.

C3.1.6 General Information

C3.1.6.1 Drawings

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The reduced drawings contained in Annexure C5.2 that form part of the tender document shall be used for tender purposes only. Further drawings are to be provided on an on-going basis by the engineer.

Any information in the possession of the contractor, which the resident engineer requires to complete the as-built drawings, shall be supplied to the resident engineer before a certificate of completion will be issued.

Only figured dimensions shall be used and drawings shall not be scaled unless so instructed by the engineer. The engineer will supply all figured dimensions omitted from the drawings.

C3.1.6.2 Power, Water Supply and Other Services

The contractor shall make his own arrangements concerning the supply of electrical power and all other services. No direct payment will be made for the provision of electrical and other services. The cost of providing these services will be deemed to be included in the rates and amounts tendered for the various items of work for which these services are required.

C3.1.6.3 Contractor's Camp Site and Security

The contractor shall make his own arrangements regarding the establishment of a camp site and housing for his construction personnel and all regulations stipulated by the local authority shall be adhered to.

It is anticipated that the contractor's choice of a camp site will be influenced by the availability of telephone and electrical connections as well as the supply of potable water.

Provision is made in these specifications for the erection of a security fence around the site offices. The contractor shall be responsible for the security of his personnel and constructional plant on and around the site of the works and for the security of his camp, and the employer will consider no claims in this regard.

C3.1.6.4 Additional Requirements for Construction Activities

C3.1.6.4.1 The contractor may not commence constructional activities before adequate provision has been made to accommodate traffic in accordance with the requirements of this document and the South African Road Traffic Signs Manual.

C3.1.6.4.2 The contractor shall submit proposals in connection with directional signs to the

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engineer for approval.

C3.1.6.5 Programme Requirements for Construction Activities

The contractor shall programme his activities to be suitable in terms of his resources to complete the contract inside the stipulated time period. **All stipulated labour-intensive items should be indicated on the programme specifying the quantity of human resource required for each particular labour-intensive item of work.**

C3.1.6.6 Construction in Confined Areas

It may be necessary for the contractor to work in confined areas. In certain areas the width of the fill material and pavement layers may reduce to zero and the working space may be confined. The method of construction in these confined areas depends on the contractor's construction plant. However, the contractor must note that measurement and payment will be in accordance with the specified cross-sections and dimensions, irrespective of the method used to achieve these cross-sections and dimensions, and that the rates and amounts tendered will be deemed to include full compensation for any special equipment or construction methods or for any difficulty encountered in working in confined areas and narrow widths, and at or around obstructions, and that no extra payment will be made nor will any claim for payment be considered on account of these difficulties.

C3.1.7 Labour Regulations

A27 Payment for the labor-intensive component of the works

Payment for works identified in clause 2.3 "the Extent of the Project" in the Project Specifications as being labor-intensive shall only be made in accordance with the provisions of the Contract if the works are constructed strictly in accordance with the provisions of the scope of work. Any non-payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict.

A28 Applicable labour laws

The Ministerial Determination for Special Public Works Programmes, issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in Government Notice R347 in Government Gazette 33310 of 4 May 2012, available at: <http://www.sabinet.co.za> as reproduced below, shall apply to works described in the scope of work as being labour intensive and which are undertaken by unskilled or semi- skilled workers.

C1.2 ENGINEERING

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C3.2.1 Design

- (a) The **Employer** is responsible for the design of the permanent Works as reflected in these Contract Documents unless otherwise stated.
- (b) The **Contractor** is responsible for the design of the temporary Works and their compatibility with the permanent Works.
- (c) The **Contractor** shall supply all details necessary to assist the engineer in the compilation of the as-built drawings.

C3.2.2 Employer's Design

The Scope of Works to be constructed is detailed but not exactly limited to that in the Schedule of Quantities and Book of Drawings that form part of this Tender.

C3.2.3 Contractor's Design

Where contractor is to supply the design of designated parts of the permanent Works or temporary Works, he shall supply full working drawings supported by a professional engineer's design certificate.

C3.2.4 Design Procedures

All design and modifications thereto shall be communicated in writing and the Contractor and Engineer shall maintain master lists to record and track all transaction.

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C1.3 CONSTRUCTION

C3.3.1 STANDARD SPECIFICATIONS

Applicable SANS 1200 Standardized Specifications

The applicable standardized specifications for this Contract shall be the following:

- ✓ SANS 1200 A: General (1986)
- ✓ SANS 1200 AB: Engineer's Office (1986)
- ✓ SANS 1200 C: Site clearance (1980)
- ✓ SANS 1200 DB: Earthworks (1989)
- ✓ SANS 1200 DM: Earthworks (Roads, Subgrade)(1989)
- ✓ SANS 1200 DB: Earthworks (1989)
- ✓ SANS 1200 G: Concrete Structural
- ✓ SANS 1200 DB: Structural Steel
- ✓ SANS 1200 MJ: Segment Paving

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C3.3.2 AMENDMENTS TO STANDARD SPECIFICATIONS

The following variations to standardized specifications and additional clauses are applicable to this Contract and are contained in the "Annexure to the Scope of Work".

✓ PSA	General
✓ PSC	Site Clearance
✓ PSDB	Earthworks (Pipe Trenches)
✓ PSDM	Earthworks (Roads, Subgrade) (1989)
✓ PSG	Concrete (Structural)
✓ PSH	Structural Steel
✓ PSHB	Cladding and Sheeting
✓ PSMJ	Segmented Paving

Particular Specifications

The following variations to standardized specifications and additional clauses are applicable to this Contract and are contained in the "Annexure to the Scope of Work".

✓ PA	Fencing
✓ PC	Building
✓ PD	Environmental Protection and Control Specifications
✓ PE	Dealing with Eskom
✓ PF	Occupational Health and Safety

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PSA **GENERAL**

PSA 1 **SCOPE**

REPLACE THE CONTENTS OF SUB-CLAUSE 1.1, INCLUDING THE NOTES, WITH THE FOLLOWING:

"1.1 This specification covers requirements, principles and responsibilities of a general nature which are generally applicable to civil engineering construction and building works contracts, as well as the requirements for the Contractor's establishment on the Site."

PSA 2 **INTERPRETATIONS**

PSA 2.3 **DEFINITIONS**

IN THE OPENING PHRASE BETWEEN THE WORDS "specification" AND "the following",

INSERT THE WORDS "the definitions given in the Conditions of Contract and".

a) General

ADD THE FOLLOWING DEFINITIONS:

"'General Conditions' and 'Conditions of Contract': The General Conditions of Contract specified for use with this Contract, together with 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."

b) Measurements 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 variations in the value of the Contract Price or the time allowed in the Contract for the completion of the work.

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'Time-related charge': A charge, the amount of which varies in accordance with the Time for Completion of the Works, adjusted in accordance with the provisions of the Contract.

'Value-related charge': A charge, the amount of which varies pro rata with the final value of the measured work executed and valued in accordance with the provisions of the Contract.'

PSA 2.4 ABBREVIATIONS

a) Abbreviations actions relating to standard documents

ADD THE FOLLOW/NG ABBREVIATION:

"CKS: SANS Co-ordinating Specification

PSA 3 MATERIALS

PSA 3.1 QUALITY

ADD THE FOLLOWING AT THE END OF SUB-CLAUSE 3.1

"All manufactured materials supplied shall be new materials unless the contrary is specified. All materials specified to be in accordance with SANS Specifications Shall bear the SANS mark, where such a mark is available for the type of product."

ADD THE FOLLOWING SUB-CLAUSES TO CLAUSE 3:

PSA 3.3 ORDERING OF MATERIALS

The quantities set out in the schedule of quantities have been carefully determined from calculations based off data available at the time and should therefore be considered to be approximate quantities only. Before ordering materials of any kind the contractor shall

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check with the engineer whether or not the scope of the work for which the materials are required is likely to change substantially. No liability or responsibility whatsoever shall be attached to the employer for materials ordered by the contractor except when ordered in accordance with written confirmation issued by the engineer

PSA 4 PLANT

PSA 4.1 SILENCING OF PLANT

REPLACE THE CONTENTS OF SUB-CLAUSE 4.1 WITH THE FOLLOWING:

"The Contractor's attention is drawn to the applicable regulations pertaining to noise and hearing conservation, framed under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) as amended

The Contractor shall at all times and at his own cost, be responsible for implementing all necessary steps to ensure full compliance with such regulations, including but not restricted to the provision and use of suitable and effective silencing devices for pneumatic tools and other plant which would otherwise cause a noise level in excess of that specified in the said regulations.

Where appropriate, the Contractor shall further, by means of temporary barriers, effectively isolate the source of such noise in order to comply with the said regulations."

PSA 4.2 CONTRACTOR'S OFFICES, STORES AND SERVICES

ADD THE FOLLOWING PARAGRAPH BEFORE THE EXISTING FIRST PARAGRAPH IN SUB-CLAUSE 4.2:

"The Contractor's buildings, sheds and other facilities erected or utilized on the Site for the purposes of the Contract shall be fenced off and shall contain all offices, stores,

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workshops, testing laboratories, toilet facilities, etc. as may be required by the Contractor. The facilities shall always be kept in a neat and orderly condition.

No personnel may reside on the Site. Only night-watchmen may be on the Site after hours."

DELETE "and first-aid services" IN THE SECOND PARAGRAPH OF SUB-CLAUSE 4.2 AND ADD THE FOLLOWING:

"The Contractor shall provide on the Site and in close proximity to the actual locations where the work is being executed, one toilet per 10 workmen, which toilets shall be effectively screened from public view and their use enforced. Such toilets shall be relocated from time to time as the location of the work being executed changes, so as to ensure that easy access to the toilets is maintained.

The Contractor shall, where applicable, make all necessary arrangements and pay for the removal of night soil."

PSA 5 CONSTRUCTION

PSA 5.1 SURVEY

PSA 5.1.2 Preservation and replacement of survey beacons and pegs subject to the Land Survey Act

DELETE THE WORDS "in the vicinity of boundaries" IN THE SECOND SENTENCE OF SUB-CLAUSE 5.1.2 AND REPLACE THE WORDS "under the direction of" IN THE SAME SENTENCE WITH "in consultation and liaison with".

ADD THE FOLLOWING AFTER THE SECOND SENTENCE OF SUB-CLAUSE 5.1.2:

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"The Contractor and the Engineer shall record on the said list, their concurrence or disagreement (as the case may be) regarding the completeness and accuracy of the details recorded therein."

REPLACE THE THIRD SENTENCE OF SUB-CLAUSE 5.1.2 WITH THE FOLLOWING

"At the completion of the Contract, the Contractor shall expose all pegs that were listed at the commencement of the construction as being in order and the Contractor shall arrange with a registered Land Surveyor for the checking of the positions of all such pegs and the replacement of those that the Land Surveyor's check reveals have become disturbed or damaged. The Contractor shall, as a precedent to the issue of the Certificate of Completion, provide to the Engineer, a certificate from the registered land surveyor, certifying that all the pegs listed at the commencement of construction in accordance with the provisions of this clause, have been checked and that those found to have been disturbed, damaged or destroyed have been replaced in their correct positions, all in accordance with the provisions of the said Act.

The costs of all checking, replacement and certification as aforesaid shall be entirely for the Contractor's account. This, with the provision always that the Contractor shall not be held liable for the cost of replacement of pegs which:

- a) cannot reasonably be re-established in their original positions by reason of the finished dimensions of the permanent works, and
- b) The Contractor can prove beyond reasonable doubt to the satisfaction of the Engineer, were disturbed, damaged or destroyed by others beyond his control."

PSA 5.3 PROTECTION OF EXISTING STRUCTURES

REPLACE "Machinery and Occupational Safety Act, 1983 (Act No 6 of 1983)" WITH

"Occupational Health and Safety Act, 1993 (Act No 85 of 1993), as amended," AND INSERT THE FOLLOWING AFTER "(Act No. 27 of 1956)": "as amended

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PSA 5.4 LOCATION AND PROTECTION OF EXISTING SERVICES

PSA 5.4.1 Location of existing services

Before commencing with any work in an area, the Contractor shall ascertain the presence and actual position of all services which can reasonably be expected by an experienced and competent contractor to be present on, under, over or within the Site.

Without in any way limiting his liability in terms of the Conditions of Contract in relation to Damage to property and interference with services, the Contractor shall, in collaboration with the Engineer, obtain the most up-to-date plans as are available, showing the positions of services existing in the area where he intends to work. Neither the Employer nor the Engineer offers any warranty as to the accuracy or completeness of such plans and because services can often not be reliably located from plans, the Contractor shall ascertain the actual location of services depicted on such plans by means of careful inspection of the Site.

Thereafter, the Contractor shall, by the use of appropriate methodologies, carefully expose the services at such positions as are agreed to by the Engineer, for the purposes of verifying the exact location and position of the services. Where the exposure of existing services involves excavation to expose underground services, the further requirements of sub-clauses 4.4 and 5.1.2.2 Of SANS 1200 D (as amended) shall apply.

The aforesaid procedure shall also be followed in respect of services not shown on the plans But which may reasonably be anticipated by an experienced contractor to be present or potentially present on the site.

All services, the positions of which have been determined as aforesaid at the critical points, shall henceforth be designated as 'known services' and their positions shall be indicated by the Contractor on a separate set of drawings, a copy of which shall be furnished to the Engineer without delay

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As soon as any service which has not been identified and located as described above is encountered on, under, over or within the site, it shall henceforth be deemed to be a known service and the aforesaid provisions pertaining to locating, verifying and recording its position on the balance of the site shall apply. The Contractor shall notify the Engineer immediately when any such service is encountered or discovered on the Site.

Whilst he is in possession of the Site, the Contractor shall be liable for all loss of or damage as may occur to

- a) known services, anywhere along the entire lengths of their routes, as may reasonably be deduced from the actual locations at which their positions were verified as aforesaid, due cognizance being taken of such deviations in line and level which may reasonably be anticipated, and
- b) any other service which ought reasonably to have been a known service in accordance with the provisions of this clause,

The Contractor shall also be liable for consequential damage in regard to (a) and (b), whether caused directly by the Contractor's operations or by the lack of proper protection.

No separate payment will be made to the Contractor in respect of his costs of providing, holding available on the Site and utilizing the said detecting and testing equipment, nor for any costs incurred in preparing and submitting to the Engineer the Drawings as aforesaid. These costs shall be deemed included in the Contractor's other tendered rates and prices included in the Contract.

Payment to the Contractor in respect of exposing services at the positions agreed by the Engineer and as described above will be made under the payment items (if any) as may be provided for in the respective sections of the specifications pertaining to the type of work involved.

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PSA 5.4.2 Protection during construction

The Contractor shall take all reasonable precautions and arrange its operations in such a manner as to prevent damage occurring to all known services during the period which the Contractor has occupation and/or possession of the Site.

Services left exposed shall be suitably protected from damage and in such a manner as will eliminate any danger arising therefrom to the public and/or workmen, all in accordance with the requirements of the prevailing legislation and related regulations.

Unless otherwise instructed by the Engineer, no services shall be left exposed after its exact position has been determined and all excavations carried out for the purpose of exposing underground services shall be promptly backfilled and compacted. In roadways, the requirements of sub-clause 5.9 of SANS 1200 DB should be observed. In other areas compaction is to be to 90% modified AASHTO density.

PSA 5.4.3 Alterations and repairs to existing services

Unless the contrary is clearly specified in the Contract or ordered by the Engineer, the Contractor shall not carry out alterations to existing services. When any such alterations become necessary, the Contractor shall promptly inform the Engineer, who will either make arrangements for such work to be executed by the owner of the service, or instruct the Contractor to make such arrangements himself

Should damage occur to any existing services, the Contractor shall immediately inform the Engineer, or when this is not possible, the relevant authority, and obtain instructions as to who should carry out repairs. In urgent cases, the Contractor shall take appropriate steps to minimise damage to and interruption of the service. No repairs of telecommunication cables or electric power lines and cables shall be attempted by the Contractor.

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PSA 5.7 SAFETY

REPLACE THE CONTENTS OF SUB-CLAUSE 5.7 WITH THE FOLLOWING:

"Pursuant to the provisions of the Conditions of Contract, and without in any way limiting the Contractor's obligations thereunder, the Contractor shall at his own expense (except only where specific provision (if any) is made in the Contract for the reimbursement to the Contractor in respect of particular items), provide the following:

- a) Provide to its Employees on the site of the works, all safety materials, clothing and equipment necessary to ensure full compliance with the provisions of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) as amended (hereinafter referred to as the Act) at all times, and shall institute appropriate and effective measures to ensure the proper usage of such safety materials, clothing and equipment at all times;
- b) Provide, install and maintain all barricades, safety signage and other measures to ensure the safety of workmen and all persons in, on and around the site, as well as the general public;
- c) Implement on the site of the works, such procedures and systems and keep all records as may be required to ensure compliance with the requirements of the Act at all times;
- d) Implement all necessary measures so as to ensure compliance with the Act by all subcontractors engaged by the Contractor and their employees engaged on the works;
- e) Full compliance with all other requirements pertaining to safety as may be specified in the Contract.

The Employer and the Engineer shall be entitled, although not obliged, to make such inspections on the site as they shall deem appropriate, for the purpose of verifying the

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Contractor's compliance with the requirements of the Act. For this purpose, the Contractor shall grant full access to the site of all parts of the site and shall co-operate fully in such inspections and shall make available for inspection all such documents and records as the Employer's and/or Engineer's representative may reasonably require.

Where any such investigations reveal, or where it comes to the Engineer's attention that the Contractor is in any way in breach of the requirements of the Act or is failing to comply with the provisions of this clause, the Engineer shall, in accordance with the provisions of Clause 39 of the Conditions of Contract, be entitled to suspend progress on the works or any part thereof until such time as the Contractor has demonstrated to the satisfaction of the Engineer, that such breach has been rectified.

The Contractor shall have no grounds for a claim against the Employer for extension of time and/or additional costs if the progress on the works or any part thereof is suspended by the Engineer in terms of this clause, and the Contractor shall remain fully liable in respect of the payment of penalties for late completion in accordance with the provisions of Clause 43(1) of the Conditions of Contract should the Contractor fail to complete the Works on or before the specified due completion date in consequence of the suspension.

Persistent and repeated breach by the Contractor of the requirements of the Act and/or this clause shall constitute grounds for the Engineer to act in terms of Sub-clause 55(1) (5) of the Conditions of Contract and for the Employer to cancel the Contract in accordance with the further provisions of the said Clause 55 (GCC 2015)"

ADD THE FOLLOWING SUB-CLAUSES TO CLAUSE 5

PSA 5.9 SITE MEETINGS

The Contractor or his 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 unless be held at the Contractor's offices on the site. At such monthly meetings, matters such as

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general progress on the works, quality of work, problems, claims, payments, and safety shall be discussed, but not matters concerning the day-to-day running of the Contract.

PSA 5.10 TRAFFIC ACCOMMODATION

a) Scope

It is a condition of this contract that traffic is accommodated taking into account the provisions of the latest edition of the South African Road Traffic Signs Manual (SARTSM). The latest version for use in the accommodation of traffic is volume 2, chapter 13 of the June 1999 edition. Copies of this publication are available from Government Printers - Arma Steyn - Tel:(012) 334 4500, e-mail: asteyn@print.pwv.gov.za.

b) Safety

"The Contractor shall be responsible for maintaining the existing road surface both within the works area and the advance warning and termination areas in a safe and trafficable condition for the duration of the contract.

The Contractor may not commence constructional activities before adequate provision has been made to accommodate traffic in accordance with the requirements of the drawings, specifications and the South African Road Traffic Signs Manual

The Contractor shall supply, erect, operate and maintain all the road signs and other equipment shown on the drawings or in the specifications or as directed by the Engineer, necessary to safely carry out his traffic control responsibilities. He shall also carry out these responsibilities. He shall also carry out these responsibilities in consultation with the various Provincial Traffic Control Centers along the route and to the satisfaction of the Engineer."

c) Use of the road by the public

The Contractor shall plan and conduct his activities so as to bring about the least possible disruption to the traffic on the roads on which he works. No detours for construction traffic and for the public are envisaged. Where there is no working space off the road, construction vehicles may be parked on the shoulder in which case flagmen and traffic cones shall be employed. All temporary lane closures and halting of traffic will require the prior approval of the Engineer and shall be pre- arranged with the appropriate traffic.

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d) Temporary Traffic-Control Facilities

"The Contractor shall provide, erect and maintain the necessary traffic-control devices, road signs, channelization devices, barricades, warning devices and road markings (hereinafter referred to as traffic-control devices) in accordance with these special provisions and as shown on the drawings and in the SARTSM and remove them when no longer required. It shall be incumbent upon the Contractor to see to it that the abovementioned traffic-control devices are present where required at all times and are functioning properly."

"The type of construction, spacing and placing of traffic-control devices shall be in accordance with the SARTSM. The recommended arrangements of the traffic control devices illustrated and/or drawings issued by the Engineer shall not be departed from without prior approval of the Engineer. The arrangements expected to be most commonly used in the contract are given on the tender drawings.

The details shown for spacing and placement of traffic-control facilities may however, be revised at the discretion of the Engineer where deemed necessary to accommodate local site geometry and traffic conditions."

"All traffic control facilities supplied on the contract shall be new. Used traffic control facilities, bases, stands and poles which are in an "as new" condition and approved by the Engineer may be used on site."

e) Road Signs and Barricades

"The Contractor shall be responsible for the protection and maintenance of all signs, and shall at his own cost replace any that have been lost or stolen.

All temporary road signs required to remain in position for some time shall be pole mounted as shown on the drawings. All temporary advance signs required to be moved more often shall be mounted on portable supports for the easy moving of signs to temporary positions. The only permitted method of ballasting the sign supports shall consist of durable sandbags filled with sand of adequate mass to prevent signs from being blown over by wind. The cost of the sandbags shall be included in the tendered rates for the various types of temporary road signs.

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The covering of permanent road signs, if applicable, shall be by utilising a hessian bag that shall be pulled over the sign in the form of a hood and fastened to the signposts.

Plastic bags or other materials and fastened by means of adhesive tape shall not be permitted. The cost of covering of permanent road signs shall be included in the tendered rates of items PSA 8.3.19.06

The thickness and density of the hessian shall prevent the visibility of the road signs during day as well as night time."

f) Channelisation devices and barricades

"The use of drums as channelisation devices shall be not permitted. Drums may However be used to set up barriers.

Delineators shall comply with the requirements of SANS 1555;

- i. comply with the manufacturing and reflective requirements of the SARTSM for TW 401 and TW 402 signs and the blades shall be reversible with dimensions as indicated on the drawings.;
- ii. have smooth and round edges and be mounted on a post and base. All components shall be of durable plastic material
- iii. have the lower edge of the reflective part of the delineator mounted not lower than 250mm above the road surface;
- iv. be capable of withstanding the movement of passing vehicles and gusting wind up to 60km/h in typical working conditions without falling over. To achieve this, the base shall be at least 0,18m² and ballasted by sandbags with sand
- v. together with its mounting be designed such that it will collapse in a safe manner under traffic Impact
- vi. minimum size 1000mm x 250mm.

Traffic cones manufactured in a fluorescent red-orange or red plastic material may use only at short term lane deviations during daylight. Cones shall not be used on their own, but shall be interspersed with delineators at ratio no exceeding 3:1. Cones used on all deviations shall be 750mm high. Lane closures which continue into the night time shall be demarcated by delineators only.

g) Warning Devices

"All construction vehicles and plant used on the works shall be equipped with rotating amber flashing lights and warning boards as specified. All vehicles and plant before being allowed onto the site shall obtain a clearance permit from the Engineer."

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h) Vehicle mounted flashing lights

Rotating lights shall have an amber lens of minimum height of 200mm and shall be mounted in such a way as to be highly visible from all directions. The lights on construction vehicles shall not be switched on while vehicles are being operated on unrestricted section of a public road, but shall be switched on while construction vehicles are operating within the accommodation of traffic area, as the vehicles decelerate to enter a construction area, and as the vehicles accelerate to the general continuously while the plant is working alongside sections of road open to public traffic.

All LDV's and cars operating on site shall also be equipped with rotating amber flashing lights which shall be placed so as to be highly visible and operated continuously while the vehicles are manoeuvring in or out of or are travelling or parked alongside roads open to public traffic.

The contractor shall mount and maintain lights together with temporary mounting brackets, to the approval of the Engineer. Vehicles and plant that do not comply with these requirements shall be removed from the site.

i) Other traffic control measure ordered by the Engineer

"The Engineer may instruct the contractor to provide any other road sign, reflective tape, etc. Not measured in standard pay items. Such road signs shall conform to the requirements of the SARTSM, or specification provided by the Engineer. Similarly, order to ensure that the travelling public is kept fully informed and warned on matters relating to the accommodation to traffic, construction sign posting and the effect of the construction on the free flow of traffic through the site, the Engineer may arrange for advertising in the press and/or for other forms of publicity.

PSA 6 TOLERANCES

ADD THE FOLLOWING SUB-CLAUSE TO CLAUSE 6:

"PSA 6.4 USE OF TOLERANCES

No guarantee is given that the full specified tolerances will be available independently of

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each other, and the Contractor is cautioned that the liberal or full use of any one or more of the tolerances may deprive him of the full or any use of tolerances relating to other aspects of the work Except where the contrary is specified, or when clearly not applicable, all quantities for measurement and payment shall be determined from the 'authorised' dimensions. These are specified dimensions or those shown on the Drawings or, if changed, as finally prescribed by the Engineer, without any allowance for the specified tolerances. Except if otherwise specified, all measurements for determining quantities for payment will be based on the 'authorised' dimensions If the work is constructed in accordance with the 'authorised' dimensions plus or minus the tolerances allowed, the calculation of quantities will be based on the 'authorised' dimensions regardless of the actual dimensions to which the work has been constructed.

PSA 7 TESTING**PSA 7.1 PRINCIPLES****PSA 7.1.1 Checking**

REPLACE THE LAST SENTENCE WITH THE FOLLOWING:

"The Contractor shall obtain the services of an independent testing laboratory at his own expense (refer to Clause 8 in Portion 1 of the Project Specifications) to carry out the checks prescribed in the various standardized specifications."

PSA 7.1.2 Standard of finishes work not to specification

REPLACE THE WORDS "Where the engineer's checks reveal ..." WITH "Where the checks by the approved laboratory reveal ..."

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PSA 7.1 APPROVED LABORATORIES

REPLACE THE CONTENTS OF SUB-CLAUSE 7.2 WITH THE FOLLOWING:

"Unless otherwise specified in the relevant specification or elsewhere in the Project Specification, the following shall be deemed to be approved laboratories in which design work, or testing required in terms of a specification for the purposes of acceptance by the Engineer of the quality of materials used and/or workmanship achieved, may be carried out:

- a) Any
testing laboratory certified by the South African National Accreditation Systems (SANAS) in respect of the nature and type of testing to be undertaken for the purposes of the Contract
- b) Any
testing laboratory owned, managed or operated by the Employer or the Engineer;
- c) Any
testing laboratory established and operated on the Site by or on behalf of the Employer or the Engineer.
- d) Any
other laboratory that the Engineer approves in his absolute discretion."

PSA 8 MEASUREMENT AND PAYMENT

PSA 8.1 MEASUREMENT

PSA 8.1.1 Method of measurement, all sections of schedule

DELETE THE WORDS "and South West Africa".

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PSA 8.1.2 Preliminary and General Item or section

PSA 8.1.2.1 Contents

REPLACE THE LAST SENTENCE OF SUB-CLAUSE 8.1.2.1(b) WITH THE FOLLOWING:

"Separate items will be scheduled to cover the fixed, value-related and time-related components (If the Contractor's preliminary and general costs."

PSA 8.1.2.2 Tendered Sums

REPLACE THE CONTENTS OF THIS SUB-CLAUSE WITH THE FOLLOWING:

"Except only where specific provision is made in the Specifications and/or the Schedule of Quantities for separate compensation for any of these items, the Contractor's tendered sums under items PSA 8.3 and PSA 8.4 shall collectively cover all charges for:

- risks,
costs and obligations in terms of the Conditions of Contract and of this
standardized specification;
- head-
office and site overheads and supervision;
- profit
and financing costs;
- expenses
of a general nature not specifically related to any item or items of the
permanent or temporary work;
- provided

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ng such facilities on site as may be required by the Contractor for the proper performance of the Contract and for its personnel, including, but without limitation, providing offices, storage facilities, workshops, ablutions, services such as water, electricity, sewage and rubbish disposal, access roads and all other facilities required, as well as for the maintenance and removal on completion of the works of these facilities and cleaning-up of the site of the Contractor's establishment and reinstatement to not less than its original condition, and

- providi
ng the facilities for the Engineer and his staff as specified in the Contract and their removal from the site on completion of the Contract."

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PSA 8.1 PAYMENT

PSA 8.2.1 Fixed-charge and value-related items

REPLACE THE CONTENTS OF SUB-CLAUSE 8.2.1 WITH THE FOLLOWING:

PSA 8.2.1.1 Fixed-charge items

"Payment of fixed charges in respect of item 8.3.1 will be made as following:

- a) EIGHTY PER CENT (80%) of the sum tendered will be paid when the facilities have been provided and approved;
- b) The remaining TWENTY PERCENT (20%) will be paid when the works have been completed, the facilities have been removed and the site of the Contractor's establishment has been cleared and cleaned to the satisfaction of the Engineer.

No adjustment will be made to the sum tendered in respect; of item 8.3.1 should the value of the works finally executed or the time for completion vary in any way from that specified in the tender.

PSA 8.2.1.2 Value-related items

Payment for the sum tendered under item 8.3.2 will be made in three separate instalments as follows:

- a) The
first instalment, which is 40% of the sum, will be paid when the Contractor has fulfilled all his obligations to date under this specification, the General Conditions of Contract and the Special Conditions of Contract, and when the value of work certified for payment, excluding materials on site and payments for preliminary and general items, is equal to not less than 5% of the total value of the work listed in the Schedule of Quantities.

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- b) The second instalment, which is 40% of the sum, will be made when the amount certified for payment, including retention moneys but excluding this second instalment, exceeds 50% of the tender sum.
- c) The final payment, which is 20% of the sum, will be made when the works have been certified as completed and the Contractor has fulfilled all his obligations to date under this Specification, the General Conditions of Contract and the Special Conditions of Contract.
- d) Should the value of the measured work finally completed be more or less than the tender sum the sum tendered under item 8.3.2 will be adjusted up or down in accordance with the provisions of Clause 50 of the Conditions of Contract, and this adjustment will be applied to the third instalment

PSA 8.2.2 Time-related items

REPLACE THE CONTENTS OF SUB-CLAUSE 8.2.2 WITH THE FOLLOWING:

"Subject to the provisions of sub-clauses 8.2.3 and 8.2.4, payment under item 8.4.1 (time - related item) will be made monthly in equal amounts, calculated by dividing the sum tendered for the item by the tendered Contract period in months, provided always that the total of the monthly amounts so paid for the item is not out of proportion to the value of the progress of the works as a whole."

PSA 8.3 SCHEDULED FIXED-CHARGE AND VALUE-RELATED ITEMS

REPLACE THE CONTENTS OF SUB-CLAUSE 8.3.1 WITH THE FOLLOWING:

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PSA 8.3.1 Fixed preliminary and general charges Unit: sum

The sums tendered shall include full compensation for all fixed-charge preliminary and general charges as described in sub-clause PSA 8.1.2.2. Payment will be made as described in sub- clause PSA 8.2.1.1

PSA 8.3.2 Value-related preliminary and general charges Unit: sum

The sums tendered shall include full compensation for all value-related preliminary and general charges as described in sub-clause PSA 8.1.2.2. Payment will be made as described in sub- clause PSA 8.2.1.2."

PSA 8.4 SCHEDULED TIME-RELATED ITEMS

REPLACE THE CONTENTS OF SUB-CLAUSE 8.4 WITH THE FOLLOWING:

PSA 8.4.1 Time-related preliminary and general charges..... Unit: sum

The sum tendered shall include full compensation for all time-related preliminary and general charges as described in sub-clause PSA 8.1.2.2. Payment will be made as described in sub- clause PSA 8.2.2."

PSA 8.5 SUMS STATED PROVISIONALLY BY THE ENGINEER

REPLACE THE CONTENTS OF SUB-CLAUSE 8.5 WITH THE FOLLOWING:

PSA 8.5.1 Works executed by the Contractor..... : Unit: Prov Sum

The Contractor will be reimbursed in substitution of the Provisional Sums (if any) allowed in the Schedule of Quantities for work to be executed by the Contractor, in the amounts determined in accordance with the provisions of Clause 45 of the Conditions of

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Contract."

PSA 8.6 PRIME COST ITEMS

REPLACE SUB-CLAUSE 8.6 WITH THE FOLLOWING:

PSA 8.6.1 PRIME COST SUMS

- | | | |
|----|---|---------------|
| a) | <u>Description of item to which Prime Cost Sum applies</u> Unit: PC Sum | <u>Descri</u> |
| b) | <u>Charge required by Contractor on sub item (a) above</u> Unit: % | <u>Charge</u> |

Subitems (a) and (b) will be provided in the Schedule of Quantities for each different item to which a Prime Cost Sum applies.

The Contractor shall be reimbursed under subitem(s) (a) in substitution of the respective Prime Cost Sums included in the Contract, the actual price(s) paid or payable by him in respect of the goods, materials or services supplied, but excluding any charges for the Contractor's labour, profit, carriage, establishment or other charges related to such goods, services or materials.

The Contractor shall be paid under subitem (b), the respective percentage, as stated by the Contractor in his tender, of the amount certified by the Engineer for payment under the related subitem (a). The percentages tendered by the Contractor for each respective subitem (b) included in the Schedule of Quantities shall be deemed to be in full and final compensation to the Contractor in respect of any charge by the Contractor for labour, carriage profit, establishment and for any other charges related to the goods, services or materials supplied under the related subitem (a).

If the Contractor shall have omitted within his tender to insert a tendered percentage under Subitem (b), or tendered a zero percentage, the Contractor's tendered rate for subitem (b) shall be deemed to be zero and the Contractor shall not be entitled to any

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payment under subitem (b).

Note in connection with additional tests required by the Engineer:

When a PC sum is included in the Schedule of Quantities for additional tests required by the Engineer, the Contractor shall be responsible for both the cost of normal testing as described in sub-clause PS 8.2 in portion 1 of the Project Specifications and for the cost of any additional test that indicates that the specifications have not been complied with."

PSA 8.7 DAYWORK

REPLACE THE CONTENTS OF SUB-CLAUSE 8.7 WITH THE FOLLOWING:

"Measurement and payment shall be in accordance with the provisions of Sub-clause 37(2) of the Conditions of Contract."

PSA 8.10 COMPLIANCE WITH OHS ACT AND REGULATIONS (INCLUDING THE CONSTRUCTION REGULATIONS 2014) Unit: sum

The tendered sum shall include full compensation to the Contractor for compliance with all the requirements of the OHS Act and Regulations (including the Construction Regulation 2015) at all times for the full duration of the Contract, as described in PS 8.7 of Portion 1 of the Project Specifications. The successful tenderer shall provide the engineer with complete breakdown of this tendered sum.

This sum will be paid to the Contractor in equal monthly amounts subject to proper/substantial compliance."

PSA 8.11 SUPPLY, MAINTAIN AND DE-ESTABLISH OFFICE ACCOMMODATION, CARPORT FOR ENGINEER INCLUDING SITE MEETING VENUE AND CONTRACT NAMEBOARD AND MAINTAINING THE FACILITIES FOR THE DURATION OF THE

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CONTRACT	PERIOD	AS	DEFIEND	IN	CLAUSE
<u>C3.4.2.2</u>					Unit sum

The sum tendered shall include full compensation for the cost of providing the facilities, including the provision of all services.

Payment will be made as follows:

- a) EIGHT
Y PER CENT (80% of the sum tendered will be paid when the facilities have been provided and approved;
- b) The
remaining TWENTY PER CENT (20%) will be paid when the works have been completed, the facilities have been removed and the site of the Contractor's establishment has been cleared and cleaned to the satisfaction of the Engineer.

PSA 8.3.18 Final finishing and cleaning up of the site of the worksUnit: sum

The tendered sum shall include full compensation for the clearing, disposal of material, finishing, tidying and all other work required to finish and clean up the Site of the works and affected areas by removing excess earth, stones, boulders, debris and other waste material, by clearing storm water inlets and outlets and pipe barrels, by clearing the surfacing of all dirt, mud and foreign material, and by neatly finishing off all junctions, intersections and kerbing.

All material resulting from the finishing operations shall be disposed of to a spoil site furnished by the Contractor.

The tendered rate shall make provision for the reinstatement of existing driveways to their original condition where these have been affected by the works, as these items will not be measured and paid for separately.

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PSA 8.3.19 Accommodation of Traffic

Accommodating traffic and re-use of temporary traffic control facilities.....

Unit: month

"The tendered rate shall include full compensation for accommodating traffic and maintaining temporary deviations, including roads used as temporary deviations during construction

The tendered rate shall also include full compensation for the re-use, moving, transporting and re-erection of temporary road signs, barricades, as well as the dismantling and storing irrespective of the number of times such traffic control facilities need to be moved during the construction period. The tendered rate shall include the temporary covering of road signs and shall include all labour cost including flagmen"

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PSAB ENGINEER'S OFFICE

PSAB 3 MATERIALS

PSAB 3.1 NAMEBOARDS

REPLACE THE FIRST SENTENCE OF SUB – CLAUSE 3.1 OF SABS 1200AB WITH THE FOLLOWING:

The Contractor shall supply and erect at locations approved by the Engineer, the number of contract nameboards specified in Portion 1 of the project specification, which, unless otherwise specified in the Contract, shall comply with the recommendations for the standard board of the South African Association of Consulting Engineers, with regards to size, painting, decoration and detail, and the requirements described hereunder.

The Contractor shall submit a proposal for the EPWP Branded project notice board to the Engineer for approval within two weeks of the award of the contract. The Contractor shall provide and erect one or more notice boards at accessible and clearly visible locations on the site, within one week of the Contractor commencing with site establishment. The number and location of boards will be advised by the Engineer in conjunction with the Employer. The Contractor shall be responsible for removal of all project notice boards and signage upon Completion of the Works.

PSAB 3.2 OFFICE BUILDING(S)

REPLACE THE WORDS: "as scheduled" IN PARANTHESIS IN THE FIRST LINE OF SUB – CLAUSE 3.2 OF SABS 1200AB WITH: "as specified in Portion 1 of Project Specifications";

AND REPLACE SUB – CLAUSE 3.2(j) OF SABS 1200AB WITH THE FOLLOWING:

"(j) a heater and fan or air-conditioning unit capable of both heating in summer and cooling in winter".

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PSAB 3.3 CAR – PORT

The Contractor shall construct the number of car – ports specified in Portion 1 of Project Specifications, for the sole use of the Engineer and his Staff, Each car – port shall be constructed so that the vehicle parked under it is always protected against the direct rays of the sun. The car – port area shall be at least 20m² and the floor shall be covered

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with a layer of crushed stone to alleviate dusty and muddy conditions. The car – port(s) shall be positioned so the as to provide easy and convenient access to the Engineer's office."

PSAB 4 PLANT

PSAB 4.1 TELEPHONE

REPLACE SUB-CLAUSE 4.1 OF SABS 122AB WITH THE FOLLOWING:

"The Contractor shall, subject to the availability from Telkom, at its own cost arrange for the provision in the Engineer's Office(s), of a telephone service, independent of the Contractor's telephone service, with the number of exchange lines and extensions specified in Portion 1 of Project Specifications. The telephone service shall be available for use by the Engineer and his personnel all the time.

Subject to satisfactory transmission and reception quality in the vicinity of the Site, the Contract shall further provide the number of cellular telephones and associated service contracts from a reputable cellular service provider, as specified in Portion 1 of the Project Specifications, for the exclusive use of the engineer and his staff. The Contractor shall further insure the cellular phones against loss or damage from whatever cause arising, and shall ensure that all cellular phone accounts are promptly paid on the due dates for payment. The Contractor shall further, at its own cost, ensure the prompt repair of all cellular phones provided under this clause, when reasonably required by the Engineer."

ADD THE FOLLOWING NEW SUB-CLAUSES TO CLAUSE 4 OF SABS 1200AB:

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PSAB 4.4 SURVEY AND EQUIPMENT

The Contractor shall provide on-site and make available for the exclusive use of the Engineer and his staff, the survey equipment listed in Portion 1 of the Project Specifications.

All survey equipment provided by the Contractor shall be in good condition, properly calibrated and fit for the purpose.

In addition to survey equipment provided by the Contractor for the exclusive use of the Engineer and his staff, the Contractor shall make available for use by the Engineer, the further survey equipment listed in Portion 1 of the Project Specifications, at all times when such is reasonably required by the Engineer and his staff for the purposes of the Contract.

PSAB 5 CONSTRUCTION

PSAB 5.4 TELEPHONE

REPLACE THE CONTENTS OF SUB-CLAUSE 5.4 OF SABS 1200AB WITH THE FOLLOWING:

PSAB 5.4 Cellular Telephones

The Contractor shall advise the cellular service provider of any faults which develop in the cellular telephone service and/or the cellular telephone handsets and shall, in such circumstances , arrange for the earliest possible restoration of the said service.

The costs of any necessary repairs and/or the replacement of components to the handsets of the cellar telephones shall be for the Contractor's account.

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The Contractor shall ensure that all accounts for cellular phone calls and the respective service contracts are promptly paid. The Contractor shall, on production of an itemised statement, be reimbursed only the cost of the Engineer's cellular telephone calls."

All survey equipment provided by the Contractor shall be kept fully serviceable at all times by the Contractor. The Contractor shall have any defective equipment repaired or replaced at its own cost within 12 hours after notification by the Engineer's staff.

Where required by the Engineer, the Contractor shall at its own cost, promptly arrange for the re-calibration of survey equipment provided.

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PSC **SITE CLEARANCE**

PSC 3 **MATERIALS**

PSC 3.1 **DISPOSAL OF MATERIAL**

ADD THE FOLLOWING:

"The Contractor shall obtain his own dumping sites for the disposal of material and all transport costs shall be included in the rates tendered for site clearance."

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"The Contractor shall obtain his own dumping sites for the disposal of material and all transport costs shall be included in the rates tendered for site clearance."

PSC 5 **CONSTRUCTION**

PSC 5.1 **AREAS TO BE CLEARED AND GRUBBED**

ADD THE FOLLOWING:

"Pipeline routes shall be cleared to a distance of 1, 5 m on both sides of the pipeline Centre line. Route pegs or markers shall not be destroyed or damaged during clearing operations,"

PSC 5.2 **CUTTING OF TREES**

PSC 5.2.3 **Preservation of trees**

PSC 5.2.3.2 **Individual trees**

REPLACE THE LAST SENTENCE WITH THE FOLLOWING:

"An amount of R100.00 will be deducted from moneys due to the Contractor as a penalty for every tree that is damaged or removed unnecessarily."

PSC 5.5 **RECLEARING OF VEGETATION**

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ADD THE FOLLOWING:

"When areas have to be re-cleared on the written instructions of the Engineer, such re-clearing shall be carried out at the Contractor's own cost and the Contractor is therefore advised not to clear the areas too soon."

PSC 8 **MEASURENT AND PAYMENT**

PSC 8.2 **PAYMENT**

PSC 8.2.1 **Clear and grub**

REPLACE THE FIRST LINE WITH THE FOLLOWING:

"The area designated by the Engineer to be cleared and grubbed will be measured in square metre to the nearest square metre or,

ADD THE FOLLOWING ITEMS IN SUBCLAUSE 8.2:

PSC 8.2.11**Take down and re – erect existing fences**Unit: m

The rate shall cover the cost of taking down the fences, coiling wire, sorting, stacking and guarding all materials, the cost of loading, transporting and off-loading such materials, the. Cost of re-erecting the fence in such position as indicated by the Engineer using the dismantled material, the cost of temporary bracing of the fencing sections not taken down and the cost of appurtenant materials that may be required to restore the fence to its original condition before dismantling.

PSC 8.2.11**Removal topsoil to spoil to site furnished by Contractor** Unit: m3

The tendered rate shall include full compensation for removing topsoil to a depth of 150 mm and for loading and transporting the material to spoil sites furnished by the Contractor."

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REPLACE SUB-CLAUSES 8.3.1.1 AND 8.3.1.2 WITH THE FOLLOWING:

"Where Site preparation such as clearing, grubbing, the removal of large trees or the removal stockpiling of topsoil is required, the provisions and scheduled items of SABS 1200 C shall apply."

PSD 8.3.2 Bulk Excavation

REPLACE THIS ITEM WITH THE FOLLOWING:

"8.3.2.1 Excavate in all materials and use for embankment or backfill as ordered, from:

- | | | |
|----|---|---|
| a) | | N |
| | ecessary excavation.....Unit : m3 | |
| b) | | D |
| | esignated Borrow pits.....Unit : m ³ | |
| c) | | C |
| | ommerical Sources.....Unit : m3 | |

The unit of measurement shall be the cubic metre measured in place in accordance with Sub-clause 8.2 of SABS 12000.

Separate items will be scheduled for embankments and backfills for different parts of the works.

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The tendered rates shall cover the cost of complying with all the precautions required in terms of Sub-clause 5.1 of SABS 12000 (as amended), in addition to the cost of excavating in all materials, basic selection, loading, transporting within the applicable free haul distance, off-loading, spreading or backfilling, watering, compacting, final grading, complying with the requirements of for tolerances, providing for testing, finishing and tidying, all in accordance with the specifications.

In addition to the foregoing, the tendered rate for sub-item (b) shall, further include for the costs of royalties (if applicable), whilst the tendered rate for sub- item (c) shall also include for the costs of finding a source of suitable material, for making arrangements with the owner of the source, for procuring the material, for the payment of all requisite royalties, charges or damages, and for transporting the material to the Site regardless of the distance involved. No payment will be made for the removal of overburden or stockpiling at the commercial source and no extra over payment shall apply for excavating in intermediate, hard or boulder material."

**"8.3.2.2 Excavate in all materials and dispose.....Unit:
m3**

The unit of measurement shall be the cubic metre of material excavated, measured in place in accordance with Sub-clause 8.2 of SABS 12000.

Separate items may be scheduled for excavations for different parts of the Works.

The tendered rates shall cover the cost of complying with all the precautions required in terms of Sub-clause 5.1 of SABS 12000 (as amended), in addition to the cost of excavation, basic selection, loading, transporting within the applicable free haul distance, off-loading at the spoil site, maintaining and finishing the spoil site, all in accordance with the specifications.

"8.3.2.3 Extra-over items 8.3.2.1(a), 8.3.2.1(b) and 8.3.2.2 for

a)

I

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Intermediate excavation.....Unit: m3	
b)	H
Hard rock.....Unit: m3	
c)	B
Boulder excavation, Class AUnit: m3	
d)	B
Boulder excavation, Class BUnit: m3	

The rate shall cover the additional cost of the operations enumerated in Sub-clauses 8.3.2.1 and 8.3.2.2 above for any portion of the excavation that is classified as intermediate, hard rock, boulder excavation class A or boulder excavation class B as applicable. (See Drawing 0-2).

C.81

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PSD 8.3.2 Restricted excavation

REPLACE THE WORDS "in 1 m increments" AT THE END OF THE FIRST SENTENCE OF SUB-ITEM (a) WITH "in the increments indicated in the Schedule of Quantities".

REPLACE "in 5.2.2: i - 5.2.2.3 (inclusive)" AT THE END OF SUB-CLAUSE (a) WITH "in Sub-Clauses 5.2.2.1 to 5.2.2.5.Cinclusive)".

PSD 8.3.4 Importing of Material

DELETE SUB-ITEM (a) OF 8.3.4.

PSD 8.3.4 Overhaul

ADD THE FOLLOWING:

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"No overhaul shall apply to material from commercial sources or to material disposed of on sites provided by the Contractor or disposed by other means employed by the Contractor."

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Labour Intensive Specification in the Guidelines pertaining to “Earth works”: GENERIC LABOUR-INTENSIVE SPECIFICATION

The Generic Labour-intensive specification below is the same as SANS 1921-5, Construction and management requirement for works contracts- Part 5: Earth works activities which are to be performed by hand and should be included in the scope of works without amendment or modification as set out below.

SCOPE

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

- a) Trenches having a depth of less than 1.5 metres
- b) Storm water drainage

PRECEDENCE

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

HAND EXCAVATEABLE MATERIAL

Hand excavateable material is material:

- a) Granular materials:
 - i) whose consistency when profiled may in terms of table 1 be classified as very loose, loose, medium dense, or dense; or
 - ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 15 blows of a dynamic cone penetrometer is required to penetrate 100mm;
- b) Cohesive materials:
 - i) whose consistency when profiled may in terms of table 1 be classified as very soft, soft, firm, stiff and stiff / very stiff; or
 - ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 8 blows of a dynamic cone penetrometer is required to penetrate 100mm;

Note:

- 1) A boulder, a cobble and gravel is material with a particle size greater than 200mm, between 60 and 200mm.

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- 2) A dynamic cone penetrometer is an instrument used to measure the insitu shear resistance of a soil comprising a drop weight of approximately 10 kg which falls through a height of 400mm and drives a cone having a maximum diameter of 20mm (cone angle of 60° with respect to the horizontal) into the material being used.

Table 1: Consistency of materials when profiled

GRANULAR MATERIALS COHESIVE MATERIALS

CONSISTENCY

DESCRIPTION

CONSISTENCY DESCRIPTION

Very loose Crumbles very easily when scraped with a geological pick.

Very soft Geological pick head can easily be pushed in as far as the shaft of the handle.

Loose

Small resistance to penetration by sharp end of a geological pick.

Soft

Easily dented by thumb; sharp end of a geological pick can be pushed in 30-40 mm; can be moulded by fingers with some pressure.

Medium dense

Considerable resistance to penetration by sharp end of a geological pick.

Firm

Indented by thumb with effort; sharp end of geological pick can be pushed in up to 10 mm; very difficult to mould with fingers; can just be penetrated with an ordinary hand spade.

Dense

Very high resistance to penetration by the sharp end of geological pick; requires many blows for excavation.

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Stiff

Can be indented by thumbnail; slight indentation produced by pushing geological pick point into soil; cannot be moulded by fingers.

Very dense

High resistance to repeated blows of a geological pick.

Very stiff

Indented by thumbnail with difficulty; slight indentation produced by blow of a geological pick point.

TRENCH EXCAVATION

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

COMPACTION OF BACKFILLING TO TRENCHES (AREAS NOT SUBJECT TO TRAFFIC)

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

- a) to 90% Proctor density;
- b) such that in excess of 5 blows of a dynamic cone penetrometer (DCP) is required to penetrate 100 mm of the backfill, provided that backfill does not comprise more than 10% gravel of size less than 10mm and contains no isolated boulders, or
- c) Such that the density of the compacted trench backfill is not less than that of the surrounding undisturbed soil when tested comparatively with a DCP.

EXCAVATION

All hand excavateable material including topsoil classified as hand excavateable shall be excavated by hand. Harder material may be loosened by mechanical means prior to excavation by hand.

The excavation of any material which presents the possibility of danger or injury to workers shall not be excavated by hand.

CLEARING AND GRUBBING

Grass and small bushes shall be cleared by hand.

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SHAPING

All shaping shall be undertaken by hand.

LOADING

All loading shall be done by hand, regardless of the method of haulage.

HAUL

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

PSD 8.3.8 Existing Services

PSD 8.3.8 Location

REPLACE ITEM 8.3.8.1 WITH THE FOLLOWING:

"8.3.8.1 Hand Excavation for Locating and Exposing Existing Services:

- | | | |
|----|---|---|
| a) | | I |
| | n roadways. Unit : m ³ | |
| b) | | I |
| | n all other areas Unit : m ³ | |

The unit of measurement shall be the cubic metre of material excavated, measured in place according to the authorised or actual dimensions of the excavation, whichever is the lesser.

The tendered rates shall cover the cost of excavating in all materials by means of hand tools within authorised dimensions and at locations approved by the Engineer in accordance with the requirements of Sub-clause PSA 5.4.1, for all precautionary measures necessary to protect the services from damage during excavation and backfilling, and for subsequent backfilling and compacting. Compaction of material in all areas except in roadways shall be to 90% of the modified AASHTO density.

The tendered rate for hand excavation in roadways shall include compensation for compacting excavated or selected backfill material to 93% of modified AASHTO density. Reinstating layerworks and surfacing shall be measured and paid for in terms of SABS 120008.

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The tendered rates shall also include for keeping excavations safe, for dealing with surface and subsurface water, for removing surplus excavated material from the Site, for transporting all material within the free-haul distance, and for supplying adequate supervision during both excavation and backfilling operations. Overhaul, if applicable, will be measured and paid for in terms of SABS 120008."

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PSDM 5 CONSTRUCTION

PSDM 5.2 METHODS AND PROCEDURES

PSDM 5.2.2 Cut and Borrow

PSDM 5.2.2.2 Use of material

ADD THE FOLLOWING PARAGRAPH:

"(e) Commercial sources

The provisions of Sub-clause PSD 5.2.2.5 of SABS 1200 D as amended shall apply."

PSDM 5.2.3 Treatment of the road-bed

PSDM 5.2.3.2 Removal of unsuitable ground

REPLACE THE SECOND SENTENCE OF PARAGRAPH (a) WITH THE FOLLOWING:

"The excavated spaces shall then be backfilled with approved imported material compacted to the required density."

ADD THE FOLLOWING SENTENCE TO PARAGRAPH (b):

"Unsuitable excavated material will be paid for as cut to spoil."

PSDM 5.2.3.3 Treatment of road-bed

ADD THE FOLLOWING PARAGRAPH:

"(c) Three-pass roller compaction

Any portion of the roadbed that is shown on the drawings or is specified or is

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directed by the Engineer to be given three-pass roller compaction because of its inadequate natural density, shall be prepared by shaping where necessary and compacting With a roller, complying with the requirements specified below.

Compaction shall comprise three complete coverages by the wheels of the specified roller over every portion of the area that is being compacted. While it is not the intention that the Contractor should apply water to the roadbed for this type of compaction, and while no rigid moisture control will be exercised during compaction, the Contractor shall nevertheless satisfy the Engineer that everything is being done to take full advantage of favourable soil moisture conditions during the rainy season, and that such compaction is as far as possible carried out when the roadbed is neither excessively dry nor excessively wet.

The Engineer has the authority to decide when conditions are favourable for compaction and where such compaction is to be carried out at any particular time and he has the right to instruct the Contractor to water the roadbed at the Contractor's expense when, in the opinion of the Engineer, the Contractor failed, neglected or refused to comply with these requirements.

The rollers to be used for roller-pass compaction shall conform to the following requirements:

Grid roller: The grid roller shall have a mass of not less than 13, 5 t when ballasted, shall be loaded to this mass if required, and shall be moved at a speed of not less than 12 km/h.

Vibratory roller: The vibratory roller shall be capable of exerting a combined static and dynamic force of not less than 120 KN/m width for every metre of loose-layer thickness at an operating frequency not exceeding 25 Hz and shall move at a speed not exceeding 4 km/h."

PSDM 5.2.4FILL

PSDM 5.2.4.3Finishing

- e) Topsoiling

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REPLACE THE SECOND SENTENCE WITH THE FOLLOWING:

"The thickness of the topsoil shall be as directed by the Engineer."

PSDM 5.2.5Selected Layer

REPLACE THE CONTENTS OF THIS SUBCLAUSE WITH THE FOLLOWING:

"Except with regard to density, the requirements of Subclause 5.2.4 shall apply.

The degree of compaction shall be:

Selected* : 93% of modified AASHTO density

SPECIFICATION FOR PLAIN AND REINFORCED CONCRETE

The standardized specification for Civil Engineering Construction of the African Bureau of standardized shall apply throughout in respect of this in addition to the addition and saving the exceptions set out below:

A copy of the said specification shall be furnished by the contractor and shall be kept on the site.

PROJECT SPECIFICATION

1. Applicable standardized and particular specification

For the purposes of this contract the following standardized specification shall apply
SANS 122\00 G: CONCRETE (STRUCTURAL)

Depending on the engineers prescribed design and/or method of construction or deviation therefrom by the contractor with written approval of the engineers, one or more of the following specification, each of which is Golden Rewards specification,

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shall apply.

SPECIFICATION FOR PRECAST CONCRETE

SPECIFICATION FOR PILING

SPECIFICATION FOR PRESTRESSED CONCRETE

SPECIFICATION FOR FORMWORK

The contractor will be furnished with the above specifications that are applicable.

2. The reinforcing steel shall be inspected by the engineer after the. Fixing of steel, the cleaning of shuttering and the positioning of the spacer blocks have been completed, prior to concrete casting.
3. All beams, bands and slabs shall have the following amber, unless otherwise shown on the drawings:

Cantilever: $\text{span} \div 200$

Other span: $\text{span} \div 500$

4. Should a requirement of the project specification be inconsistent with requirement of the said standardized specification, the requirement of the project specification shall precedence.
5. Add the following to the relevant Sub-clauses of the said SANS specification 1200 G:

5.1 EXPLANATION OF TERMS

Precast concrete

(2.4)

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Concrete components of the general quality describe in this specification, which have been cast and cured either elsewhere of or on the site and placed in position to form an integral part of the structure

5.2 MATERIAL

5.2.1 Alternative type of cement (3.2.2)

Replace the contents of the Sub-clause with the following:

"Only GEM I 42, 5 (Portland cement) or GEM 11/A-V 42,5 (Portland fly Ash cement) or GEM 11/A-S 42,5 (Portland slag cement) or GEM 11/B-S 42,5 (Portland slag cement) according to SANS 50197-1 (SABS ENV - 197-1), may be used. The cement may consist of more than 20% siliceous fly ash or 30% granulated blast furnace slag, blended with the OPC (Ordinary Portland Cement). Should the contractor wish to use any other type of cement he shall obtain the engineer's prior written approval (see page 8.1.2.3 and 8.1.3.3)".

5.2.2 Storage cement (3.2.3)

Cement shall not be kept in storage chloride for more than 12 weeks without the engineer's permission.

5.2.3 Storage of aggregates (3.4.3)

Where aggregate of differing chloride content are stockpiled on the site, strict control shall be exercised over their used for differing classes of concrete.

5.3 FIXING

Welding of reinforcement is not permitted.

5.4 DURABILITY

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The exposure conditions for concrete are classified as "moderate" add the following values to table 5:

"The maximum water/cement ratio for moderate sections, general reinforce concrete, exterior portions of mass concrete, as well as for internal concrete in the buildings under conditions of moderate exposure, is 0,67

The maximum water/cement ratio for concrete slabs on the ground under very severe conditions, is 0, 45 notwithstanding the aforementioned, the cement slabs on the Ground under no circumstances be less than:

Structure concrete of 25 MPa surfaces - 265 kg/m³ Exposed concrete, trafficable surfaces,

and Surfaced bends - 280 kg/m³

5.5 STRENGTH CONCRETE (5.5.1.7)

The production of concrete at central production site is permitted. The shrinkage of concrete to be cast in floor systems, shall not exceed 0, 02 tested as per SABS 1085. Three tests shall be conducted on the mix design to confirm compliances. Test result shall be made available before the concrete is used on site.

5.6 Holes, chases and fixing blocks (5.3)

Fixing blocks and fixture may be embedded in concrete, provided that its strength or any other desirable features (such as the appearance of the member) is not, in the opinion of the engineer, impaired thereby.

5.7 PERMISSIBLE DEVIATIONS (5.3)

Degree of Accuracy II shall apply, except for precast work and off-shutter exposes concrete surfaces where degree of Accuracy shall apply. Each specified permissible deviation shall be binding by itself. No cumulative effect

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of permissible deviations will be considered. Replace clause 6.2.3-d5 with the following

Permissible deviation Degree of accuracy		
III	II	I
mm	mm	mm
5	3	2
50	30	10

None of the prescribed permissible deviation will be deemed as permission for violating the legal boundaries of properties by any part of a structure.

(The above permissible deviation also applies to slip-form concrete, unless another set of permissible deviation has been accepted in writing by the Engineer beforehand. Such amended permissible deviations shall clearly make provision for interfaces between structures erected with the aid of slip- form concrete and those erected with aid of conventional concrete.

The maximum permission deviation from a 3 m long straight line connecting two points on surface of a finished floor, is 5 mm.

5.8 ACCEPTANCE CRITERIA FOR STRENGTH CONCRETE (7.3)

Test results obtained by a ready - mixed concrete production plant as part of its quality control system are not acceptable for evaluation purposes in terms of Sub-clause 7.3. but test samples shall be taken from ready - mixed concrete on location.

5.9 REMOVAL OF FORMWORK (5.2.5)

The Contractor shall make provision for the continued support of beams and slabs while the form work is being removed and/or for back-propping of beams, slabs, etc. The propping may be required simultaneously on more than one level directly underneath one another. The requirements for continuous propping and/or back propping shall be calculated to a theoretical model that is acceptable to the engineer, and details shall be submitted for

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the engineer's approval. Data required for such calculation, e.g. design loads and structure dimensions, will be supplied by the engineer on request.

5.10 CURING AND PROTECTION

Should a curing compound be allowed by the Engineer then it shall 5.5.8

Be a resin based curing compound. Curing of columns, shaft and walls be done by either retaining the form work from the required period of time or covering with plastic sheeting. On lesser shafts and walls the Engineer may allow compound for curing.

6. MEASURING AND PAYMENT

This section shall be deleted.

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▪ SPECIFICATION FOR SMOOTH SUFACED AND EXPOSED-AGGREGATE SURFACE FINISHES

1. SCOPE

This specification two classes of the concrete surface finishes a smooth surface finish and an exposed-aggregate surface finish.

2. FORMWORK

All formwork for the two types of surface finishes shall be new and free from any matter, indentions and warps that will impart irregularities to the concrete surface.

Except for round columns, where steel form may be used, all formwork shall be in timber panels and boards. No differential movement between adjacent panels will be allowed.

Exposed-aggregate concrete requires quality form workmanship. Formwork must withstand the greater vibration normally associated with placing exposed-aggregate concrete.

Forms must be tight and accurately aligned at butt joints, since the slightly misalignment at form joints may be visible in the expose surface showing up under certain lighting and shadow condition.

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The joints in formwork must be sealed or caulked to prevent the leakage of water and fines. A thin plastic adhesive tape is preferred. If joints are not sealed, a dark line will appear on the finished surface.

An important consideration in cast-in-site expose concrete is the treatment form ties to prevent the rusting of the ties and subsequent staining of the wall. Form ties can be of the type that is withdrawn from concrete or has plastic cones so that ties will break off no closer than 40 mm to the surface of the concrete to leave a hole not larger than 20 mm in diameter. Tie-rod holes may be left exposed in carefully predetermined patterns to eliminate patching (if stainless-steel ties are used), or must patch immediately after the stripping of the forms.

The stripping the time formwork depends on several factors, such as safety the resulting effect on the concrete, and the most favourable time for exposing aggregate by way of a particular exposure technique.

3. TOLERANCE

Surface regularity relates to the shape of the surface with reference to a 3 m straight-edge (or a template in the case of curved surface) placed on the surface.

The tolerance on surface regularity is expressed as a distance by which the surface tested may deviate from a straight or template held against the surface.

The tolerance regularity is expressed as a distance by which tested may deviate from a straight-edge or template held against the surface.

For the purpose of this specification, the distance shall not exceed 2 mm, unless otherwise allowed by the engineer.

4. SMOOTH SURFACE FINISHING

This surface finish shall be smooth and without blemish or discoloration. All projection shall be removed, irregularities and the surface rubbed or treated to give a smooth of uniform texture, appearance and colour.

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a) General

Any remedial treatment to surfaces shall be agreed on with the engineer following inspection immediately after removal of formwork and shall be carried out without delay. No surface may be treated before inspection by the engineer.

b) Repairs

Small areas of honeycombing or other impactions, as well as isolated surface air and water bubbles, shall be filled in with a mortar consisting of the cement-and-sand portion of the concrete mix used.

For the repair of large or deep of honeycombing, special methods technique, such as pneumatically applied mortar, pressure grouting, epoxy bonding agents, etc., may be used as agreed on by the engineer

All patched and repairs shall be kept continuously wet for at least 5 days.

c) Rubbing of surfaces

If the finishing of expose surfaces does not comply with the requirements for the uniformity of texture and appearance, the contractor shall, when instructed to do so by the engineer, rub down the exposed surfaces of the entire structure of any part therefore as specified below, entire at his own cost. Before rubbing; all repairs must be completed.

The surface shall be saturated with water for at least one hour. Initial rubbing be carried out with a medium coarse carborundum stone, using a small amount of mortar on the face, in the portion specified in (b) above. Rubbing shall be continued until all form marks, projections and irregularities ha<'e been removed and a uniform surface has been obtained.

The paste produced by the rubbing shall be kept in place. The final rubbing shall be carried out with a fine carborundum stone and water. This rubbing shall continue until the entire surface is of a smooth, even texture and uniform in colour. Thereafter the surface shall be washed with water and brushed to remove surplus paste and powder.

GREATER LETABA MUNICIPALITY**CONTRACT No. GLM0007/2026****FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX****5. EXPOSED-AGGREGATE SURFACE FINISH****a) AGGREGATES**

All course and fine aggregate required for the production of concrete with an exposed-aggregate surface shall be on the site before concreting commences. Both the stockpiles of course and the aggregate shall be individually mixed to obtain, stockpiles that are of uniform colour throughout.

Coarse aggregate shall be of a nominal size of 20 mm. The type of rock from which it is delivered will be specified in the bill of quantities.

b) Mixing concrete

Expose-aggregate concrete requires good mixing, which should continue for at least one minute after all material have been charged to the mixer. Uniform of mixing time should be carefully controlled from batch to batch to obtain uniform of colour.

c) Casting and placing the concrete

Segregation must be prevented by restricting the slump to the lowest value consistent with good consolidation. The slump value of the concrete should not exceed 75 mm.

Low-slump concrete does not flow readily down a chute, and construction methods should allow the concrete to be dropped vertically in all handling operations, since the mixes can be dropped for considerable distances without segregation.

Once in the forms, the concrete can be consolidated easily by means of internal vibration but requires ample vibration to ensure proper compaction and the elimination of honeycomb areas. The concrete should be placed in lifts not exceeding 500 mm, with the vibrator inserted each lift at intervals not exceeding 500 mm in any direction. Vibrators should be placed in the concrete rapidly to penetrate approximately 75 mm of the previous layer, and withdrawn slowly, this will minimize the occurrence of air being entrapped between the concrete and the form, and it will blend to the two layers. Insufficient vibration rather than over vibration more often than not causes problems. The forms should therefore be designed to withstand longer period of high-frequency vibration.

Vibrators should not be used closer than 75 mm from the formed surface which is to

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be exposed. Within this limit of time the coarse aggregate will be driven away from the form face and will cause a mortar line on the visible surface. A smaller- diameter vibrator should be used in thin sections.

d) Curing concrete

The concrete shall be cured by established standard procedures.

e) Exposing of aggregate

The use of surface retarders is not recommended for vertical casting. It is difficult to obtain an even effect. Deep elements cast vertically require particular care to prevent over-retarded areas from forming at the bottom and under-retarded areas at the top. The concrete can brush against the formwork during and carry the retarder with it to bottom. One solution is to place sheeting over the form and withdraw it as the level of the concrete rises. Also, the bleed water may carry the retarder to the top or in small channels along the surface.

If forms are expose to sunlight too long before placing, retarder action may be nullified and large under-retarder areas may result. The same could happen if rain falls on forms treated with a retarder prior to the concrete being placed.

The retarder should be dry before concrete is placed,

The simplest and perhaps the most inexpensive of exposing aggregates are by washing and brushing the surface. If the operation is done before the concrete has gained much strength, it will not be necessary to use a surface retarder. A stiff brush together with flushing with water is all is needed.

Plastic-bristle brushes are preferred because they will not soften in water. Wire brushes may be required occasionally for particularly stubborn areas.

f) Patching of damaged surfaces

It is easier to patch exposed aggregate than plain Smooth concrete elements. First, the damage area should be chipped out and cut back to depth slightly deeper than maximum size of the exposed aggregate (i.e. go down 25 mm for 20 mm aggregate).

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The sides of the hole should be at right angle to the surface. No undercutting is necessary. Then the area must be soaked with Water to ensure a good bond of the patch. The use of a scrubbing brush with this operation is good practice. (If a bonding agent is used, the area must be left dry).

After the patching area is well soaked without any water being present, a mixture of cement and water the consistency of a thick paint must be brushed in. The damage area now is ready to receive the patching mix must be brushed.

The patching concrete contains the same materials as those used in the concrete, minus the coarse aggregate. If the matrix was made with grey cement, a small amount of white cement or silica flour must normally be added to the patching mix because the lower water-cement ratio of the patch causes it to dry darker than the original concrete. The amount of white material to be added varies, but about 25% is average.

Trial mixes are essential for determining exact quantities. These mixes should be allowed to age 7 to 14 days before final judgment. Small sample panels (300mm square) should be cast during production and later broken for use as guides in matching mix colour. The patching mix must be stiff, but not so stiff that expose aggregates cannot be pressed into it.

The patching mix should be compacted into the hole immediately after the neat cement slurry coat has been applied, or has been applied, or if a bonding agent is used, any time during the agent's period of tackiness. The mix should be vigorously hand-tamped, and then struck off level with the surrounding matrix.

g) Cleaning of surfaces

Exposed aggregates can be cleaned after at least one week's delay by being washed with 5% to 10% concentration of hydrochloric acid, which removes the dull cement film which has remained as a result of some exposure techniques, especially the washing and brushing. The acid is normally applied to prewetted surface by brush, but it can also be sprayed.

The surface is wetted to reduce acid penetration. All traces of acid should be removed, as soon as possible before panel dries, by flushing with plenty of clean water. The best procedure is to use two men, one applying acid while the other one hoses down the surface.

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6. TRIAL SURFACE

The contractor shall construction trial structure as columns as beams with smooth surfaces and walls with exposed-aggregate surface to serve as samples for subsequent work.

Such trial structure and their surfaces shall be approved by the Architect before any permanent structure may be constructed.

The number and size of each type of structure will be specified in the bill of quantity.

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▪ SPECIFICATION FOR CONCRETE SCREED

1. PREPARATION OF EXISTING SLAB

All laitance on the surface of the slab must be removed completely. Mechanized plant such as scrabblers or blasters must be used.

After the mechanical cleaning of slab surface expose the course aggregate, all dust debris must be removed, and the surface must thoroughly wetted and kept wet for at least 12 hours before application of the screed.

2. CONCRETE SCREED

Only GEM I 1 42, 5 (Portland cement) or GEM 11/A-V 42, 5 (Portland fly ash cement) or GEM 11/A-S 42, 5 (Portland slag cement) or GEM 11/B-S 42, 5 (Portland slag cement) according to SANS 50197-1 9(SABS ENV 197-1), may be used. The cement may not consist of more than 20% siliceous fly ash or 30% granulated blast furnace slag, blended with the OPC (Ordinary Portland Cement).

Course aggregate maximum size: 10mm

28 – Day cube strength: 35 MPa.

The use of an approved plasticizer is recommended the water content of the mix to the absolute workable minimum.

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The mix design must be submitted to the engineer for approval

3. APPLICABLE OF CONCRETE SCREED

Remove all surface water from slab. Apply a grout to the slab surface which consist of a 1:1 mix of cement and clean fine sand with just enough water to provide the consistency of as slurry.

The grout is to be vigorously brushed into the scabbled with brooms. On completion of this operation, the surplus grout must be brushed off to leave only a thin coating.

The screed must be placed while the grout is still visibly wet.

The screed must be paid and compacted in one layer. Care must be taken to obtain the maximum compaction of the concrete screed.

4. FINISHING WITH MECHANICAL TROWEL

Power floating should not commence until such time as the concrete has lost its sheen and barely shows footprints.

All laitance on the surface of the fresh concrete screed resulting from the compaction of concrete prior to mechanical toweling. Over-toweling, causing an excessive cement-water paste to the surface, must be strictly avoided.

5. CURING

Curing should commence as soon as finishing operations have completed and should be continue for at least 7 days. The methods of curing must be approved by the engineer.

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6. JOINTS

The concrete screed should be divided into panels by joints approximately 3 m apart. The length: width ratio of the panels should be limited to 1, 5:1.

The joints should be formed by cutting grooves 3mm wide by 25mm deep into screed. These joints must be aligned to the structure slabs or the slabs on fill, and must be cut within 8 hours of placing the screed.

PSH STRUCTURAL STEEL

All structural steel in this Contract shall be carried out accordance with SABS 1200H and 1200HC, save as may be amended or added to in this addendum to Variations to the Standardized Specification

PSH1 MATERIALS

PSH1.1 STRUCTURAL STEEL (Clause 3.1)

Steel grade shall be 300 W

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PSH1.2 TUBULAR STEEL

Tubule steel shall comply with the relevant requirements of BS 5848, Hot-rolled Structural Steel Sections, and Part 2: hollow Sections and BS 6363, Welded Cold-formed Steel Structural Hollow Sections

PSH2 CONSTRUCTION (Clause 5)

PSH2.1 Drawings and shop details (Clause 5.1.3)

The Engineer will provide shop details

PSH3 FABRICATION (Clause 5.2)

PSH3.1 CUTTING (Clause 5.3)

Manual flame cutting of steelwork will not be permitted by the Engineer. No oxy-acetylene or gas cutting will be permitted on site without the Engineer's approval.

Manual flame cutting and oxy-acetylene or gas cutting on site shall be caused for rejection of relevant steel elements.

Edges of machines flame-out plates shall be dressed to remove notches and burns.

PSH3.2 HOLES FOR FASTENERS (Clause 5.2.4)

PSH3.2 (Sub-clause 5.2.4.3)

Holes for holding-down bolts shall not be flame-out

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PSH 4 ASSEMBLY (Clause 5.3)

PSH 4.1 WELDING (Clause 5.3.4)

Welding shall be in accordance with the relevant recommendations of SABS 0162 BS5135 and AWS 01.1-81

Welding shall be minimum grade B welding.

The qualification of welders shall be in accordance with the relevant clauses of the above standards, and specifically SABS 044 part III and shall be grade 1 welders. Grade 2 welders will be permitted only with the Engineer written approval.

The Contractor shall provide evidence, acceptable to the Engineer, that welding procedures and welders have been tested in accordance with the requirements of AWS 01.1-81

No welding shall be permitted on site without the express approval of the Engineer, with the exception of these details shown on the drawings a Site

PSH 4.2 MARKING (Clause 5.3.8)

Erection on site shall not, under any circumstances be done by welding. The system of marking shall be Engineer approval.

PSH 4.3 PROTECTIVE TREATMENT (Sub-Clause 5.3.9)

No painting on site shall be carried out in inclement weather, or when humidity or frost is liable to cause wet or damp conditions on the surfaces to be painted.

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PSH 4.3.1 WIRE BRUSHING

Steelwork after fabrication shall be wire-brushing to remove all rust, mill-scale and any other deleterious elements.

Within 4 h after completion of wire-brushing, one coat of re-oxide primer shall be applied to the relevant steelwork to provide a dry film of thickness between 25 and 30 μm . The primer shall be applied by means of an agitated pressure pot spray or, in the case of small areas only, by bush.

After the erection of steelwork, all areas where the primer coat has been damaged shall be touched up as specified above.

PSH 4.3.2 SAND BLASTING

Steelwork after fabrication shall be subjected to abrasive blast clearing to a finish equal to or better than 2 of SIS 05 59 00.

Steelwork scheduled for painting (unless otherwise specified on the drawings)

Within 4 hours after the completion of blast cleaning steel work schedule or shown on the drawings be galvanized shall be galvanized in accordance with the requirements of SABS 763. The thickness of the coat shall conform to the thickness specified in SABS 763 to the type of article. The repair to galvanise damaged by welding or other means shall be carried out on site accordance with the recommendations given in Appendix C of SABS 763. Member and assembled units that are too large to be dipped in the galvanizing bath may be zinc-sprayed, provided that they are cleaned as recommended in Appendix C of SABS 763 and provided that the coating gives protection to the steelwork at least equal to that afforded by the galvanized specified above.

PSH 4.4 SETTING OUT (Clause 5.3.8)

The setting out of all Holding-down bolts shall be accurately checked by the Contractor. Any discrepancies in excess of the permissible deviations of the positions of these bolts shall be reported immediately to the Engineer.

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The Contractor shall not be permitted to make any relevant adjustment to the steelwork without the Engineer approval.

PSH 5 ERECTION (Clause 5.5)

PSH 5.1 Procedure (Clause 5.5.1)

Fourteen days before commencing erection of steel work on site, the Contractor shall submit the Engineer, for this general scrutiny and information, full details of the erection procedure and methods of erection.

PSH 5.2 GROUND OF SUPPORT (Clause 5.6)

Grouting shall be carried out by the Contractor in accordance with Sub-clause 5.5.13 and 8.7 of SABS 1200G.

Non-shrink grouting shall be used throughout.

PSH 5.3 PROTECTIVE TREATMENT (Clause 5.3.9)

After the erection of the steelwork, areas where the primer coat has been damaged shall be touched up as specified in PSH 4.3

Steelwork Scheduled for Wire Brushing (unless otherwise specified on the drawings) Provided that the primer is fully cured, as proved by a coin hardness test, an intermediate coat of an approved high build epoxy shall then be applied to provide a dry film of thickness between 100 - 130 µm. The paint shall be applied by means of an airless spray or brush.

After erection one coat of approved Polyurethane applied to provide a dry film of thickness of 35 µm. The paint shall be applied by means of airless spray brush.

The total dry film thickness of the paint, intermediate and primer coats shall be between 190 and 235 µm.

Steelwork Scheduled for Sand blasting (unless otherwise specified on the

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drawings)

PSH 6 TESTING (Clause 5.5)

PSH 6.1 Inspection (Clause 5.5)

The Engineer must be notified, at least 72 h beforehand of the completion of the fabricated steelwork at the Contractors workshops, to enable him to make an inspection if he so desires

The fabricated steelwork, thus to be inspected shall be in its prepared specified state immediately before the application of shop painting or galvanizing.

PSH 6.2 TEST CERTIFICATE (Clause 7.1)

The contractor shall supply the Engineer with the following test certificates:

- a) C
- ertificate, issued by the contractor's Quality Assurance Division, confirming that all manufactured components were inspected and measured to conform with the requirements of the Drawings and specifications, prior to delivery to site.

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- b) C
- ertificate, issued by an authorized representative of the SASS or alternative authority approved by the Engineer, confirming that all welding on structural steel components complies with the drawings and specifications. This certification shall be completed prior to any application of erosion protection.

Cost related to the foregoing inspections and issuing of certificated shall be included in the rates for the relevant scheduled item of the scheduled of Quantity.

PSHB 3 CLADDING AND SHEETING

PSHB 3.2 STEEL SHEETING

PSHB 3.1.2Galvanised Steel Sheeting

Galvanised steel sheeting shall be of the profile scheduled or, shown on the drawings and shall comply with the requirements of the Engineer and the manufacturer's specification.

PSHB 3.2.2Prepainted Galvanised steel Sheeting

Prepainted steel sheeting shall tie of the profile scheduled or, shown on the

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drawings and shall comply with the requirements of the Engineer and manufacturer's specification.

PSHB 3.2.2 Weathering steel Sheeting (Copper Alloy)

Prepainted steel sheeting shall be of the profile scheduled or, shown on the drawings and shall comply with the requirements of Engineer and manufacturer's specification. Such sheeting shall be prepainted or plain as shown on the drawing.

ADD THE FOLLOWING SUBCLAUSE:

PSHB 3.11.2 Jointing of adjacent sheets

A joint shall be either heat-welded continuously along its full length with a maximum overlap of 20 mm, or machine-stitched as directed by the Engineer. Edges shall be prepared in accordance with Subclause PSHB 3.11.3.1.

Where machine-stitching is directed by the Engineer, a UV-resistant nylon thread of not less than 200 kg breaking strain at a stitch spacing not exceeding 10 mm shall be used. All stitching shall be uniform and regular, and shall be subject to the final approval of the Engineer.

Where the use of sheets with decorative motifs or patterns are specified, its general arrangement and layout shall be subject to the prior approval of the Engineer. Where such approval is granted by the Engineer, the decorative motif or pattern of a jointed sheet shall blend and match the decorative motif or pattern of the adjacent sheet to which it is jointed, and no irregularities in the motif or pattern shall be permitted. Any resulting off-cuts and wastage shall not be measured and paid for

PSHB 3.11.3 Fixing of sheet edges to structural elements

Where the outer edge of a single sheet or a set of multiple jointed sheets is to be fixed to a structural element, it shall be fixed along its entire length as follows:

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PSHB 3.11.3.1 Preparation of the free sheet edge before fixing to a structural element

The free edge of each sheet before fixing to a structural element shall be free from burs and loose threads, and shall be trimmed to an exact size permitting a wide enough strip for preparation of edge reinforcing.

Edge reinforcing shall be either factory-fabricated or heat-treated on site to fuse all loose threads in a manner which prevents irregularities and fraying when stretched. Where heat-treated on site, the reinforcing strip shall be equivalent to a factory-fabricated edge reinforcing in all respects.

PSHB 3.11.3.2 Fixing method to be to manufacturer's specification

Where no fixing method is specified by the shade netting manufacturer, the following requirements shall be complied with:

PSHB 3.11.3.1 Preparation of the free sheet edge before fixing to a structural element

The free edge of each sheet before fixing to a structural element shall be free from burs and loose threads, and shall be trimmed to an exact size permitting a wide enough strip for preparation of edge reinforcing.

Edge reinforcing shall be either factory-fabricated or heat-treated on site to fuse all loose threads in a manner which prevents irregularities and fraying when stretched. Where heat-treated on site, the reinforcing strip shall be equivalent to a factory-fabricated edge reinforcing in all respects.

PSHB 3.11.3.2 Fixing method to be to manufacturer's specification

Where no fixing method is specified by the shade netting manufacturer, the following requirements shall be complied with:

PSMJ

SEGMENTED PAVING

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PSMJ 3 MATERIAL

PSMJ 3.3 SAND FOR BEDDING

Sand for bedding and jointing shall be free from substances that may be deleterious to blocks.

PSMJ 5 CONSTRUCTION

PSMJ 5.1.1 New Work

Where paving is to be laid on a newly constructed earthwork or on an existing Subgrade that is too low, the Subgrade and sub base shall be constructed in accordance with the requirements of SANS 1200ME, respectively, and shall conform to the tolerance requirements of 6.2

PSMJ 5.2 EDGE RESTRAINTS

Edge restraints consisting of kerbs or channels or other approved edge strips as scheduled or given on the drawings shall be constructed on the sub base before any units are laid.

PSMJ 5.3 PLACING AND COMPACTION OF SAND BED

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Bedding shall be spread over the sub base and evenly screeded in the loose condition so as to achieve a compacted thickness of $25 \pm 10\text{mm}$. Where sand is spread, its moisture content shall be $6 \pm 2\%$.

PSMJ 7 TESTING

PSMJ 7.4 BLOCKS

The relevant tests given in SANS 1058 shall be used to determine whether blocks comply with requirements for wet strength.

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PARTICULAR SPECIFICATION

PA FENCING

CONTENTS

PA 01	SCOPE
PA 02	TYPE OF FENCE
PA 03	MATERIALS
PA 04	CLEARING OF FENCE LINE
PA 05	INSTALLING POSTS STANDARDS
PA 10	INSTALLING GATES

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PA 11 GENERAL REQUIREMENTS AND TOLERANCE

PA 12 MEASUREMENT AND PAYMENT

PA 01 SCOPE

This Particular specification and covers the erection of new fences.

PA 02 TYPE OF FENCE

The fencing shall be a concrete palisade (security fence) and shall be erected in accordance with the dimensions shown on the drawings.

PA 03 MATERIALS

PA 03.01 Posts, Stays and Standards

PA 03.01.01 Posts, stays and standards shall be of the type and size indicated on the drawings. Posts shall include gate posts, training posts and corner posts

PA 03.04 Concrete Palisade

PA 03.04.01 Concrete palisade fence shall be as shown on the drawings.

PA 03.05 Gate

PA 03.05.01 Concrete used for fencing shall comply with the requirements of SANS 1200g.

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PA 04 CLEARING OF FENCE LINE

Strip clearing for the fence shall be carried out in accordance with SASS 1200 C and will be measured and paid for under section 1200 C of the schedule of Quantities.

PA 05 UNSTALLING POSTS AND STANDARD

Strip clearing for the fence shall be carried out in accordance with SASS 1200 C and will be measured and paid for under section 1200 C of the schedule of Quantities.

PA 03.05 Gate

PA 03.05.02 Posts shall be accurately set in holes and, where indicated, shall be provided with concrete bases to the dimensions shown on the drawings.

PA 03.05.03 Holes shall be dug to the full specified depth. Where, due to the presence of rock, the holes cannot be excavated by hand or by pneumatic tools and the contractor has to resort to the use of explosives, he will be paid separately for the drilling and blasting operations required.

PA 10 INSTALLING GATES

Gates shall be installed at the positions indicated on the drawings or pointed out on site.

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PA 11 GENERAL REQUIREMENTS AND TOLERANCES

PA 11.01 The completed fences shall be plumb, taunt, true to line and to the ground contour, and with all posts firmly set.

PA 11.02 The height of the lower fencing wire above the ground at posts and standards shall not vary by more than 25mm from that shown on the drawings.

PA 11.03 Anchoring of a fence to structures shall be done as shown on the drawings.

PA 12 MEASUREMENT AND PAYMENT

PA 12.01 Supply and Erection of New Fencing Material

a) Concrete Palisade (As per drawing) Unit : m

PA 12.02 Supply and Erect New Gates

a) New gate (As per the drawing). Unit : No

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PARTICULAR SPECIFICATION

PC BUILDING WORK

CONTENTS

PC 01	SCOPE
PC 02	BRICKWORK, PLASTER WORK AND FLOOR SCREEDS
PC 06	ROOF SHEETING AND ACCESSORIES
PC 09	PAINTING
PA 10	MEASUREMENT AND PAYMENT

PC 01 SCOPE

This is a Particular Specification and covers the various construction activities associated with the erection of buildings which form part of this Contract.

Building work shall be carried out in accordance with the National Building Regulations, SABS 0400, the applicable clauses of the SABS Standardised Specifications and the information contained in this Specification.

Work appurtenant to the erection of buildings such as earthworks, concrete work, structural steelwork, etc., shall be carried out as specified in the appropriate Standardised Specifications and will be measured and paid for under those Specifications.

PC 02 BRICKWORK, PLASTER WORK AND FLOOR SCREEDS

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PC 02.1 MATERIALS

a) Bricks

Bricks shall comply with SABS 227 and shall be of the class scheduled or shown on the Drawings.

Satisfactory proof of the load-bearing capacity of the bricks offered shall be submitted before deliveries are made to the Site.

Air bricks shall be well-burnt terracotta and shall be free from cracks and blemishes and lined with copper mosquito gauze.

Three samples of each type of brick shall be submitted to the Engineer for approval. All subsequent deliveries shall be of a standard equal to or better than that of the approved samples.

b) Cement

Cement shall comply with the requirements of SABS 471 and shall be stored under cover. The use of Portland Blast-furnace Cement (PBFC) which complies with the requirements of SABS 626 will only be allowed if approved by the Engineer.

c) Aggregate

Fine aggregate shall be naturally occurring sand or shall consist of crushed rock or gravel, and shall be hard, clean and free from adherent coatings or other deleterious matter. Sand for plaster and mortar shall comply with the requirements of SABS 1090, whereas the aggregates for normal and granolithic floor screeds shall comply with the requirements of BS 1199 and BS 1201 respectively.

d) Water

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Water shall be clean and free from clay, silt, oil, acid, alkali, organic or other matter which would impair the required strength and durability of the mortar, plaster or floor screed.

e) Wall ties

Wall ties shall be of the galvanised, crimped, single-wire type with a 3, 5 mm diameter, and shall comply with the requirements of SABS 28.

f) Damp-proof sheeting

Damp-proof sheeting shall comply with SABS 248, type FV for fibre felt, or SABS 952, type B for embossed polyethylene sheeting.

PC 02.2 CONSTRUCTION OF BRICKWORK

a) Cement mortar

Cement mortar shall unless otherwise specified, consist of 1 part of Portland cement to 4 parts of sand by volume for normal brickwork and 1 part of Portland cement to 3 parts of sand by volume for reinforced brickwork. The ingredients for cement mortar shall be measured in proper gauge boxes on a boarded platform and thoroughly mixed. Alternatively, mixing may be by means of an approved mechanical batch mixer. Only when the dry ingredients have been thoroughly mixed and a mixture of uniform colour has been obtained may the water be added in sufficient quantity to obtain mortar with the required consistency.

Cement mortar shall be used within two hours of adding water to the mix and shall not be used after two hours or if it has begun to set. Mortar shall be turned over frequently until it is used to prevent it from setting.

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b) Brickwork

Dimensions of all the brickwork shall be set out and built as shown on the Drawings. Bricks shall be kept wet before laying and the top of brickwork shall be wetted before any further bricks are laid. Bricks shall be well buttered with mortar before being laid and all joints shall be thoroughly flushed up as the work proceeds. All joints to face brickwork shall be neatly made and key drawn with a 6 mm key.

Brickwork shall be carried up in a uniform manner with no portion being raised more than 1 m above an adjacent portion. All perpends, quoins, etc., shall be kept strictly true and square and the whole properly bonded together.

Brickwork shall be built in stretcher bond or English bond as shown on the Drawings, and bats shall not be used except where required for the bond. All joints shall be 10 mm wide and four courses shall measure 340 mm.

Brickwork for cavity walls and solid walls built in stretcher bond shall be tied with wall ties placed not more than one metre apart in every third course, and shall be staggered vertically. At openings, the ties shall be positioned not more than 300 mm apart along the periphery of the opening and 150 mm from the opening.

Face brickwork shall be kept perfectly clean and rubbing down of the brickwork shall not be allowed. Scaffold boards shall be turned back during heavy rain to avoid splashing, Soiled brickwork shall be cleaned at the Contractor's expense, and the cleaning method shall be approved by the Engineer.

c) Reinforced brickwork

Brickwork over door and window openings shall be reinforced with steel rods, welded or expanded mesh, etc. Reinforcement shall be placed in each course of brickwork for a minimum of 4 courses or as shown on the Drawings. Reinforced brickwork shall continue at least 300 mm on each side of the openings.

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Brick lintels shall be built upon rigid temporary supports left in position for not less than 7 days after brick-laying. Restressed concrete lintels may be used where approved by the Engineer.

d) Key for plaster

Joints of all brickwork receiving plaster shall be raked out, or the brick surfaces shall otherwise be prepared with an acrylic slurry or any other approved bonding agent.

e) Damp-proofing

A damp-proof course shall be laid over the full width of all the walls at a minimum height of 150 mm above the final ground level or wherever else it may be required, and it shall be lapped for at least 150 mm at angles and joints. A damp-proof course shall also be laid and stepped up under all external sills

f) General

Rough and fair cutting shall be performed as required, and the brickwork shall be fitted around any steel work. Face brickwork shall be carefully cut and fitted to suit fittings.

Chases shall be left or formed for edges of concrete floors, staircases, etc. Chases shall also be provided wherever they may be required for pipes, conduits, switch boxes, distribution boards, and the like. Joints shall be raked out for flashings.

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PC 02.3 PLASTER WORK

a) Plaster coats

A plastered finish shall consist of a single coat, comprising one application of a 1:6 cement: sand mixture with a wood or steel-float finish.

b) Thickness

The total thickness of the plaster finish shall be 13 mm minimum and 20 mm maximum.

c) Workmanship

All plaster work shall be finished smooth and ready to receive paint. Plaster shall be flush with the faces of all switch and plug boxes, the interiors of which shall be kept free from plaster. Plastered surfaces shall be plumb and jambs and reveals shall be formed square.

The plasterer shall cut out and make good all cracks, blisters and other defects and leave the plaster work, on completion, in a state which is acceptable to the Engineer.

PC 02.4 FLOOR SCREEDS

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Floor screeds shall have a mix proportion by mass consisting of 1 part of Portland cement and 3 parts of fine aggregate. A minimum amount of water is to be used, but it shall be sufficient to allow adequate compaction.

Screeds shall be laid on clean hardened bases in panels not exceeding 14 m² and shall be steel-trowelled to a true and smooth finish. In monolithic construction the panels shall not exceed 30 m². Joints in screeds shall coincide as nearly as possible with joints in the bases. The thickness of screeds shall be as shown on the drawings or as directed by the Engineer.

The entire screed surface shall be free from loose or raised particles of aggregate, trowel marks or from any irregularities, humps or depressions exceeding 5 mm when measured from a 3 m long straight-edge.

Screeds shall be cured for 3 to 7 days as may be directed by the Engineer, and shall be protected from damage

No moisture-sensitive floor finish shall be laid on screeds unless a reliable moisture test shows that the screed is sufficiently dry receive the covering.

PC 06**ROOF SHEETING AND ACCESSORIES**

Roof sheeting and accessories shall comply with and will be measured and paid for under SABS 1200 HC.

PC 09**PAINTING****PC 09.1****GENERAL**

No paint shall be applied to any surface containing traces of dust, grit, grease, oil, loose rust, mill scale or corrosion products of any kind or to any surface that is not free from moisture. Where necessary, surfaces shall be thoroughly washed to remove all traces of soluble salts and/or corrosive air-borne contaminants prior to painting, and the surfaces shall be dried and painted immediately thereafter.

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Welding shall be completed in so far as it is possible before painting commences, but in cases where welding can be done only at a later stage, no paint shall be applied to within 75 mm of the proposed weld position unless otherwise specified. Welds and adjacent parent metal shall be abrasive blasted and/or ground and all contaminants such as flux shall be removed prior to painting.

Surfaces of members which are to rest on concrete or other floors or which will be otherwise inaccessible after erection shall receive the full paint system prior to erection.

Damaged paint areas on metal surfaces shall be cleaned, rust spots removed where applicable and the surrounding paint which is still intact shall be feathered for a distance of 20 mm beyond the damaged area. Spot priming and repair shall consist of all the coats previously applied and shall overlap the damaged area.

Damaged galvanized areas shall be cleaned and any rust spots and any flakes of the coating surrounding the damaged area removed. The coating shall then be restored by zinc spraying or soldering, or painting with a zinc- rich paint, as may be approved by the Engineer.

Where the shop coat is allowed to age for a few months before the final painting is done, light sanding or rubbing with steel wool or scrubbing with clean water using a bristle brush shall be carried out.

Steel to be embedded in concrete shall not be painted below 50 mm from the final level of the concrete.

Each priming coat and each undercoat of paint shall be inspected and approved by the Engineer before any subsequent undercoat or finishing coat is applied.

All finishing colours shall be as shown on the drawings, or as directed by the Engineer.

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Paints shall comply with the requirements of the appropriate Specifications below

b) Undercoats

SABS 681: For all undercoats

c) Finishing coats

SABS 515: For interior use, flat and egg-shell finish

SABS 630: For interior and exterior use, high-gloss enamel

SABS 631: for interior and exterior use, oil gloss paint

SABS 633: For interior use, emulsion paint

SABS 634: For exterior use, emulsion paint

SABS 684: For exterior use on structural steel

SABS 801: For interior and exterior use, epoxy-tar paint

SABS 802: For interior and exterior use, bituminous aluminium paint

SABS 887: For interior use, glossy and egg-shell varnish

The Contractor shall furnish the Engineer with the following information and details regarding the paints and decorative materials for the painting system he proposes to use, for written approval:

- i. The name of the manufacturer and trade name.

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- ii. The brand, type or grade of paint and the appropriate SABS Specification.
- iii. Manufacturer's data sheets, colour references, instructions for use, including surface preparation, sealers, primers, undercoats, finishing coats, coat thicknesses and curing periods, which shall all be considered as being part of these Specifications if approved by the Engineer.
- iv. Safeguards to protect the applied paint from damage until the work is accepted by the Engineer.
- v. The shelf or pot life of materials, if applicable.
- vi. An undertaking that the proposed paint system is suitable for its intended use and that the various coats of paint are compatible with one another.

Where proprietary brands are used, the manufacturer's priming and all subsequent coats of paint suitable for that particular brand shall be employed in accordance with the manufacturer's instructions.

No other materials of a similar nature and quality or from another manufacturer may be used instead of those approved unless permission to do so has been obtained from the Engineer, in writing.

All materials shall be brought onto the Site in containers sealed by the manufacturer. Paints shall not be mixed with another paint of a different quality, type, brand or colour, or thinned or adulterated in any way, but shall be used as supplied by the manufacturer. Any mixing or tinting required shall be carried out by the manufacturer.

Tinting of paint on the Site by the Contractor will only be allowed with the written permission of the manufacturer and the Engineer.

PC 09.3 INSPECTION AND PRELIMINARY WORK

Before commencing paintwork, the Contractor shall carefully inspect the surfaces to be painted to satisfy himself that the surfaces are in a satisfactory or acceptable condition to receive the paint system specified.

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All metal fittings and fastenings shall be removed where applicable before the preparatory processes are commenced. On completion, the metal fittings and fastenings shall be cleaned and refitted in position.

PC 09.4 WORKMANSHIP AND FINISHES

Paint may be applied by spray, brush or roller depending on the materials used, the surface to be painted, and the manufacturer's instructions.

Every coat of paint, irrespective of the method of application, shall be adequately and permanently keyed or bonded to the base material or previously applied coat, and shall be evenly distributed, continuous, free from sags, runs, brush marks, pin holes or other imperfections, and shall dry to a smooth finish.

An approved water trap and air-regulating valve shall be furnished and installed on all equipment used in spray printing.

Before painting the interiors of buildings they shall be cleaned and the floors shall be washed and kept free from dust during the progress of the interior work.

The Contractor shall protect all nearby surfaces against disfigurement by splatters, splashes and smirches of paint or paint materials. The Contractor shall be responsible for any damage by paint or dirt caused by his operations to vehicles or property or injury to persons and he will be required to provide protective measures to prevent any such damage or injury and make good, where required, at his own expense.

If passing traffic creates dust which may harm or spoil the appearance of external painted surfaces, the Contractor shall sprinkle the adjacent areas with water, at his own cost, for a sufficient distance on each side of the location where painting is being done.

Undercoats shall be tinted by the manufacturer to distinguish between successive coats.

The final coats or finishing coats of paint shall be applied after all the other work in the vicinity has been completed.

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The painter shall keep some of the final paint in reserve in the event of his having to make good any patching which may be required as a result of damage or unforeseen circumstances.

Upon completion, the Contractor shall, in the case of buildings, clean all glass, remove all paint spots from walls, floors and fittings, and leave the premises clean and fit for occupation.

All inflammable materials, comprising solvents, thinners, wiping cloths, etc, shall be placed in tightly closed containers and properly disposed of.

PA 09.5 PAINTING OF PLASTER, CONCRETE OR BRICK SURFACE

a) Surface preparation

Surfaces for painting shall be prepared by sandpapering, scraping or wire-brushing to remove loose material, dust, laitance, scum or other deleterious materials or high spots. Defective areas shall be cut out where necessary and made good with an approved non - shrink filler. Cracks shall be cut out, suitably keyed, and given a coat of an approved bonding agent before the filler is applied. All patches shall be rubbed down to an even surface. Surfaces shall be washed and allowed to dry.

Surfaces shall be treated with neutralising liquid for walls, and if the surface is coarse or textured, either one full coat of pigmented wall sealer or one full filler coat shall be applied in addition to the neutralising liquid.

b) Paint application

Prior to the emulsion paint being applied, the surface shall be sealed with an approved clear sealer and primed with an undercoat diluted to 50%. Emulsion paint (PVA or acrylic) shall then be applied in two finishing coats.

Egg-shell finish (alkyd oil based), oil gloss paint or enamel gloss paint shall be applied as follows: one coat of universal undercoat shall be applied and it shall be followed by one coat of a mixture comprising 50% of the undercoat and 50% of the paint to be used for the finishing coat. A

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finishing coat of semi-gloss egg-shell, or oil gloss paint or enamel gloss paint shall then be applied.

PA 09.7 PAINTING OF METAL SURFACES

a) General

Wherever possible, all painting shall be done at the fabricator's works, but where this is not feasible, the Engineer may permit the application of the undercoat and finishing coats to be carried out on the Site, in which case a prime coat shall be applied at the fabricator's works prior to the members being dispatched to the Works.

b) Surface preparation

The preparation of metal surfaces shall comply with SABS Code of Practice 064 and shall receive the greatest care to ensure rust-free conditions prior to the paint system being applied.

All surfaces shall be prepared by loose paint, rust, plaster, scale, dust, dirt, grease, etc, being removed and by the defective paint surfaces being repaired or patched before painting or repainting. Damaged shop-primed surfaces shall be thoroughly cleaned of rust and patched with a prime coat.

c) Paint application

(i) Iron and steel work

All iron and steel work shall be properly primed with a red-lead-based primer where steel work is likely to be exposed to the elements for longer than 30 days. Zinc- chromate primer may be used where overpainting will be completed within 30 days of priming. Metal-etch wash primers may be used under dry

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conditions where overpainting will be completed within 24 hours of priming. The dry-film thickness of the prime coat shall not be less than 0,300 mm.

After priming, one coat of universal undercoat shall be applied. If necessary, the undercoat shall be tinted to a shade just lighter than the desired finish with approved liquid stainers. The dry-film thickness shall not be less than 0,250 mm.

The two finishing coats shall either be of alkyd resin-based synthetic enamel, gloss or matt oil paint, or as specified elsewhere. The dry-film thickness shall not be less than 0,250 mm per coat.

When mating surfaces are brought together, both surfaces shall have been given the full treatment specified, but where this cannot be done, each surface shall be given a copious coating of primer and the surfaces drawn together while the paint is still wet.

The portion of structural steel members to be buried in soil, and all bases to a height of 500 mm shall be given two coats of an epoxy-tar primer instead of the zinc- chromate primer specified for other surfaces.

The surfaces of steel and cast-iron articles, such as floor gratings, grids and manhole covers, shall, after a thorough brushing to remove loose rust, be painted with two coats of epoxy-tar paint, each at least 0,230 mm thick.

(ii) Galvanised iron and steel

All traces of protective coating shall be removed with galvanised iron Cleaner, and two coats of calcium plumbate primer shall be applied. One coat of tinted universal undercoat and two finishing coats of alkyd resin-based synthetic enamel gloss paint shall be applied.

(iii) Non-ferrous metals

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Surfaces of aluminium, copper, etc., shall be prepared and cleaned, and one coat of self-etch zinc-chromate wash primer shall be applied. One coat of universal tinted undercoat and two finishing coats of enamel gloss paint shall then be applied. Where non-ferrous metals are not to be painted, the surfaces shall be cleaned, polished and two coats of lacquer applied.

PA 09. PAINT THICKNESS

Unless otherwise specified, all coats of paint, whether prime coat, undercoat or finishing coat, shall have a dry-film thickness of not less than 0,200 mm, irrespective of the method of application.

PC 09.10 INSPECTION

The Contractor shall provide the necessary equipment to establish whether the primers, undercoats and finishing coats have been applied to the correct thickness and at the correct applications. The Engineer may take samples of the paints during painting operations for testing and quality control.

PC 10 MEASUREMENT AND PAYMENT**PA 10.01 BRICKWORK**

a) (Thickness, type and class indicated)Unit: m2

b) Etc. for other thicknesses, types and classes

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The unit of measurement shall be the square metre of each type of brickwork built, calculated from the leading dimensions of the brickwork. Areas of pipes, etc, built into brickwork shall not be included in the areas measured. At corners and intersections common to more than one brick wall, the areas shall be measured only once.

The tendered rates shall include full compensation for the construction of the brickwork complete as specified, including pointing, the building-in of conduits, beams, lintels, pipe sleeves, doors, windows, the raking-out of joints, damp-proof course, brickwork reinforced as specified, etc.

PA 10.02 PLASTER WORK:

a) (Thickness of plaster and finish indicated)Unit : m2

b) Etc for other thicknesses and finishes

The unit of measurement shall be the square metre of each type of coat completed as specified.

The tendered rates shall include full compensation for the construction of the plaster work, including the supply of all materials, mixing, applying, finishing, forming reveals, joints, narrow widths, rounded angles, v-joints, etc, complete as specified.

PC.10.03 FLOOR SCREEDS:

a) (Thickness indicated).....Unit: m2

b) Etc for other thicknesses

The unit of measurement shall be the square metre of floor screed laid, as specified, on floors, steps or areas shown on the Drawings or as designated by the Engineer.

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The tendered rates shall include full compensation for the construction of the floor screeds, including the supply of all materials, mixing, laying, finishing, the forming of nosings, reedings, skirtings, etc.

PC.10.08 MISCELLANEOUS WORK:

(a) Paintwork.....Unit: sum

The tendered sums shall include full compensation for supply all materials, for transport, for storage, for all equipment and labour, for all temporary work and safety precautions, for replacing defective work, for protecting completed work and for cleaning up after completion.

PARTICLAR SPECIFICATION

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PD ENVIRONMENTAL PROTECTION AND CONTROL SPECIFICATIONS

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PD1 PLANS

Prior to establishment of the site camp(s), the Contractor shall produce a plan showing the positions of all buildings, laydown yards, vehicle wash areas, fuel storage areas, batching areas and other infrastructure for approval by the Engineer or the Environmental Officer.

PD2 USE OF LAND

The Contractor shall not use the land forming the Site of, or connected with the Works, for any purpose whatsoever other than for the proper carrying out of the Works under the Contract and shall place any camps that may be required for himself and his employees only on sites approved by the Engineer. No trees or bushes shall be damaged or cut down by the Contractor or by any of his employees whether for use on the works or otherwise without the written consent of the Engineer or the Environmental Officer and then only where and in the manner as they may direct.

PD3 VEGETATION CLEARANCE

PD3.1 Woody vegetation

Prior to the start of construction, woody vegetative matter shall be stripped. This material shall either be spread randomly throughout the surrounding veld so as to provide biomass for the other microorganisms and habitats for small mammals and birds, or it may be stockpiled for later redistribution over the reinstated top soiled surface.

No vegetative matter shall be burnt or remove for firewood.

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PD3.2 Herbaceous vegetation

During clearing of woody vegetation no basal cover or grass and topsoil shall be removed and damage to this layer shall be minimized as far as possible.

PD4 PROTECTION OF VEGETATION

The Contractor shall ensure that all works are undertaken in such a manner that vegetation outside the Works area is not damaged under any circumstances.

PD4.1 Vegetation outside the Works area

The following provisions shall apply with respect to the protection of areas of vegetation adjacent to the marked Works areas.

No tree or shrub outside the Works area shall be felled, lopped, cut or pruned until it has been clearly marked for this purpose by the Engineer or the Environmental Officer. The method of marking will be specified by the Engineer or the Environmental Officer, and the Contractor will be informed in writing.

No tree outside the Works area shall be burned for any reason.

For every tree protected by these specifications which is removed or, in the opinion of the Engineer or Environmental Officer, is unduly damaged by the Contractor, the Contractor shall pay a penalty of R5 000.00 per tree to the client.

PD4.2 Vegetation within or adjacent to the Works area

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No tree or shrub within the works area shall be felled, lopped, cut or pruned without the prior written approval of the Engineer or the Environmental Officer.

Trees which have been selected for preservation by the Engineer or the Environmental Officer within or adjacent to the Works area shall be fenced around their drip line. The fence shall be clearly marked with danger tape. No open fires shall be allowed within this fenced area, nor shall vehicles be parked underneath these trees.

If trees are located within the working width of the pipeline, the pipeline shall be aligned to avoid these trees wherever possible.

PD4.3 Transplantation of rare and endangered plant species

Prior to vegetation clearing any rare or endangered plant species which have been identified by the Environmental Officer or Engineer must be removed and transplanted as instructed by these persons.

PD4.3.1 Transplanting of small trees (1 to 1,5m height) and shall shrubs (0,5 to 1m height).

- a) Trees and shrubs shall only be transplanted between the months April and September. Deciduous trees and shrubs shall be transplanted only when they are in leafless conditions.
- b) Holes for transplanting trees and shrubs shall be dug before these plants are dug out. Trees shall be planted in holes of 1m x 1m x 1m and shrubs shall be transplanted in holes of 600mm x 600mm
- c) Trees and shrubs shall be planted so that their stems or trunks are at the same depth as in their original location. The orientation of the transplanted plants must be the same as in their original location (i.e. the north-facing side must remain north facing).
- d) Transplanted plants shall be pruned to limit transpiration. Plants shall also be sprayed with an evapotranspiration retardant liquid if they are evergreen.
- e) Transplanted plants shall be watered once a week for 5 weeks and thereafter once every 2 weeks.

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PD4.3.1 Transplanting of Aloes, succulents and bulbous plants

- a) Aloes, succulents and evergreen bulbous plants may be transplanted at any time of the year. Deciduous bulbous plants shall be transplanted when they are leafless.
- b) Aloes and bulbous plants shall be planted in similar soil conditions and to the same depth as they were before removal.
- c) Transplanted aloes and bulbs shall be watered once directly after transplanting to settle the soil.

PD4.4 Alien vegetation

The Contractor shall remove all alien vegetation from the works area for the duration of construction. Such vegetation will be identified by the Environmental Officer and the method of eradication will be specified by him.

PD5 PROTECTION OF FAUNA

The Contractor shall ensure that all Works are undertaken in a manner which minimizes the impact on the local fauna and shall apply the following specifications with respect to fauna management and protection.

Under no circumstances shall any animals be handled, removed, killed or interfered with by the Contractor, his employees, his subcontractors or his subcontractor's employees.

The Contractor and his employees shall not bring any domestic animals onto the site.

The Contractor shall ensure that the work site is kept clean and tidy and free from rubbish which would attract animal pest species.

There shall be no feeding of animals.

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The Contractor shall ensure that domestic and native animals belonging to the local community are kept away from unprotected works.

PD6 ARCHAEOLOGICAL ARTEFACTS

The Contractor shall engage an archaeologist to demarcate archaeological sites identified during the impact study.

Archaeological sites shall be protected by a three strand fence which will be at least 2m outside the extremities of the site. The fence shall be clearly marked with danger tape.

Should the Contractor expose any archaeological artifacts during excavation, work on the area where the artifacts were found shall cease immediately and the Engineer or the Environmental Officer shall be notified as soon as possible.

Upon receipt of such notification, the Engineer or the Environmental Officer will arrange for the excavation to be examined by an Archaeologist as soon as practicable. Aching upon advice from the Archaeologist, the Engineer will advise the Contractor of necessary actions to be taken. The Engineer will take all necessary actions to ensure that delays are minimized.

Under no circumstances shall archaeological artifacts be removed, destroyed or interfered with by the Contractor, his employees, his subcontractors or his subcontractor's employees.

The Contractor shall ensure that none of his employees gain access to any archaeological areas (whether fenced or unfenced), except when authorized to do so by the Engineer or the Environmental Officer.

PD7 SCENIC QUALITY

The Contractor shall not establish or undertake any activities which, in the opinion of the Resident Engineer or Environmental Officer, are likely to adversely affect the scenic quality of the area. The Engineer may direct the Contractor to refrain from such activities or to take ameliorative actions to reduce the adverse effect of such activities on the scenic quality of the environment.

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No painting or marking of natural features shall be done. Marking for surveying and other purposes shall only be done with pegs and beacons.

No painting or marking of natural features shall be done. Marking for surveying and other purposes shall only be done with pegs and beacons.

All packed rock and exposed rock cuttings shall be treated in order to blend their colour with the colour of the natural weathered rocks of the adjacent environment.

PD8 WORKING AREA

The area of construction along the pipelines shall be contained within 5m servitude. Any work done outside the servitude, e.g. stockpiling of excavated material, use for access, etc shall only be done after discussion with and obtaining the written approval of the affected land owners.

The servitude shall be temporarily fenced for the portion under construction at anyone time. The fence shall be progressively erected and removed as the work proceeds. The location and extent of the fence shall be determined by the Engineer or the Environmental Officer.

PD9 ACCESS ROADS

No new permanent access roads shall be developed by the Contractor other than those determined or approved by the Engineer.

Existing roads shall be used as far as possible for inspection purposes.

Topsoil shall be stripped as described under item PD12 "Topsoil" prior to construction and reinstated on completion of use of the road.

PD10 FIRES

No open fires shall be permitted except in areas specifically prepared and controlled for this purpose.

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Fencing shall be erected around sensitive natural or cultural elements to protect them from damage. No pedestrian or vehicular access shall be allowed to such fenced areas.

In places where temporary fencing is required, the Contractor shall erect such fencing when and where required by the Site Engineer, and re-erect and maintain temporary fencing as necessary. Temporary fencing shall remain in position either until it is replaced by permanent fencing or until completion of the whole of the Works, unless the Contractor requires, or the Engineer or the Environmental Officer directs, its earlier removal. The Contractor shall erect and maintain the aforementioned temporary fencing in the locations and for the period described in the Contract.

If temporary fencing is removed temporarily for the execution of any part of the Works it shall be reinstated as soon as practicable by the Contractor.

The clearing for permanent fencing shall be limited to the removal of trees and shrubs within 1m of the fence line. There shall be no removal of the grass cover or topsoil within this width.

Any fences damaged by the Contractor shall be repaired as soon as practicable at his cost.

PD12 TOPSOIL**PD12.1 Source of topsoil**

Topsoil shall be stripped from all areas that are to be utilized during the construction period and where permanent structures and access is required. These areas will include all areas to be excavated, temporary and permanent access roads, construction camps and borrow Pits.

Topsoil shall be stripped after clearing of woody vegetation and before excavation or construction commences.

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The topsoil is regarded as the top 300mm of the soil profile irrespective of the fertility and composition of the soil.

PD12.2 Topsoil stripping

Soil shall be stripped to a minimum depth of 150mm or to the depth of bedrock where soil is shallower than 150mm. herbaceous vegetation, overlying grass and other fine organic matter shall not be removed from the stripped soil.

The topsoil is regarded as the top 300mm of the soil profile irrespective of the fertility and composition of the soil.

PD12.3 Topsoil stockpiling

Stripped topsoil shall be stockpiled on sites adjacent to where it has been stripped which have been approved by the Engineer. Soil stockpile shall not take the form of windrows, unless this can be placed far enough away from the working area. This is to prevent the soil from being spread out or mixed with the other spoil during construction.

Topsoil stripped from different soil zones shall be stockpiled separately and clearly identified as such. Topsoil obtained from different sites shall not be mixed.

Soil stockpiles shall not be higher than 2,5m, and the slopes of soil stockpiles shall not have a vertical horizontal gradient exceeding 1:2, 5.

No vehicles shall be allowed access onto the stockpiles after they have been placed. Topsoil stockpiles shall be clearly demarcated in order to prevent vehicle access and later identification as the resource for rehabilitation and vegetation establishment.

Soil stockpiles shall not be allowed to become contaminated with oil, diesel, petrol, garbage or any other material which may inhibit the later growth of vegetation in the soil.

After topsoil stockpiling has been completed, the Contractor shall apply soil conservation measure to the stockpiles to the approval of the Engineer or Environment Officer.

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PD12.4 Topsoil placement

Topsoil shall be placed to a minimum depth of 150mm over all areas where it has been stripped and over disused borrow pits after construction in those areas has ceased. Topsoil placement shall be done concurrent with construction as soon as construction in an area has ceased.

All areas onto which topsoil is to be spread shall be graded to the approximate original landform with maximum slopes of 1:2, 5 and shall be ripped prior to topsoil placement. The entire area to be topsoiled shall be ripped parallel to the contours to a minimum depth of 150mm.

Topsoil shall be placed in the same soil zone- from which it had been stripped. However, if there is insufficient topsoil available from a particular soil zone to produce minimum specified depth, topsoil of similar quality may be brought from other reservoir sites.

Where insufficient topsoil that has been stripped by the Contractor to provide the minimum specified depth, the Contractor shall obtain suitable material from other sources at no cost to the employer. The suitability of the substitute material shall be determined by means of a soil analysis which is acceptable to the engineer or the environmental officer.

No vehicle shall be allowed access onto topsoil after it has been placed

After topsoil placement is complete, cleared and stockpiled vegetation matter shall be spread randomly by hand over the topsoil area as instructed by the Environmental Officer.

PD13 BORROW PITS AND QUARRIES

If a borrow pit is to be developed or an existing one is to be extended, all topsoil from the area that is to be quarried must be stripped and stored for later rehabilitation of the pit.

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Stripping and excavation actions shall be progressive in such manner that those parts of a borrow pit or quarry where work is complete can be rehabilitated while other areas are still being quarried.

Cut slopes of borrow pits and quarries shall not have a vertical horizontal gradient of not steeper than 1:3, preferably 1:5.

Borrow pits shall be used as dump sites for excess rock spoil. On completion of spoiling the pits shall be reshaped and covered with a layer of topsoil. On no account may spoil or rock be placed in drainage ways without prior consent being obtained from the Engineer.

Stormwater cut off drains shall be provided at the top of the cut slope, where identified as necessary by the Engineer, to prevent erosion of the rehabilitated surface of the borrow pit quarry.

No borrow pit shall be used as a dump site for refuse material or for toxic material ego cement, oil, diesel, rubber and similar materials.

PD14 EROSION PREVENTION

The Contractor shall take measures, to the approval of the Engineer, to ensure that there is no undue stormwater damage and soil erosion resulting from the construction activities inside and outside the construction camp and Works areas.

Surface stormwater shall, where possible, not be allowed to be concentrated and to flow down cut or fill slopes without erosion protection measures being in place.

Overflow and/or scour channels shall be lined with stone pitching along their length and at their points of discharge to prevent soil erosion. The point of discharge shall be at a point where there is dense natural grass cover. These channels shall not discharge straight down the contours but shall be aligned at such an angle to the contours that they have the least possible gradient.

PD15 EARTHWORKS

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All cut and fill forms should be rounded on the edges to allow them to blend with the surrounding landforms.

PD16 SPOIL AND WASTE MATERIAL

The Contractor shall load and haul excess spoil to fill in the borrow pits or to dump sites approved by the engineer. The dumped material must be finally rounded off to have slopes not steeper than 1:3.

The Contractor shall remove all foundations and similar waste and transport all such waste material off site to dump areas which have been approved by the Engineer.

PD17 BLASTING

Contractor shall take measure to limit flying rock during blasting operations.

Fly rock 150mm and larger which falls beyond and cleared working area shall be collected and removed together with the rock spill.

When blasting under power lines the Contractor shall arrange for power to be temporarily switched off or have the lines moved or comply with the requirements of ESCOM who will be advised in reasonable time of the intention to blast.

PSD18 PREVENTION OF OIL POLLUTION

Waste run-off water from the vehicle wash bays, workshops and diesel/fuel tank areas shall be collected in a series of covered conservancy tanks with oil baffles/traps. The oil sludge thus collected shall be disposed of at an approved toxic waste disposal site. Water from conservancy tanks shall be drained to retention areas to allow silt settlement.

Above mentioned areas should be dished concrete floor slabs which drain into the conservancy tanks.

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All old oils shall be retained for re-cycling by the supplier.

All soil contaminated by oil, fuel, etc. Shall be collected immediately and disposed of at an acceptable disposal site to the approval of the Engineer or the Environmental Officer.

PD19 REFUSE DISPOSAL

The Contractor shall dispose of all refuse generated by him or his subcontractor on a weekly basis at an approved refuse disposal site.

PD20 ABLUTION FACILITIES

Portable toilets shall be placed within easy access of the Contractor's employees. These shall be moved to follow the progression of the works.

PD21 CLEARANCE OF SITE ON COMPLETION

On completion of the Works the Contractor shall clear away and remove from the works areas all constructional plant, surplus rock and other materials, foundations, plumbing and other fixtures, rubbish and temporary works of every kind. Areas thus cleared shall be graded and scarified to restore the ground to its original profile as near as practicable before topsoil placement.

PD22 ENVIRONMENTAL AWARENESS OF EMPLOYEES

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The Contractor shall arrange that all his employees and those of his subcontractors receive environmental training before the commencement of construction to the satisfaction of the Engineer or Environmental Officer, in order that these employees:-

- a) Acquire a basic understanding of the key environmental features of the work site and environs;
- b) Are thoroughly familiar with the requirements of the Environmental Protection and Control Specifications as they apply to the Works;
- c) Receive basic training in the identification of archaeological artifacts, and rare and endangered flora and fauna that may be encountered along the route;
- d) Are made aware of any other environmental matters which are deemed to be necessary by the Engineer or the Environmental Officer.

PD23 COMPLIANCE WITH ENVIRONMENTAL PROTECTION SPECIFICATIONS

All persons employed by the Contractor or his subcontractors shall abide by the requirements of these Specifications as they apply to the works.

Any employees of the Contractor or his subcontractors found to be in breach of any of the Environmental Protection Specifications may be ordered by the Engineer to leave the site forthwith.

The order may be given orally or in writing. Confirmation of an oral order will be given as soon as practicable but lack of confirmation in writing shall not be a cause for the offender to remain on site. No extension of time will be granted for any delay or impediment to ". Contractor brought about by a person ordered to leave the site.

Supervisory staff of the Contractor or his subcontractors shall not direct any person to undertake any activities which would place such person in contravention of the Environmental Protection and Control Specifications.

For every tree protected by these specifications which is removed or, in the opinion of the Engineer or the Environmental Officer, is unduly

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damaged by the Contractor, the Contractor shall pay a penalty of R5000.00 per tree.

PD24 SUBCONTRACTED WORK

Subcontractors and their employees shall comply with all the requirements of the Environmental Protection and Control Specifications that apply to the Contractor. Absence of specific reference to the subcontractor in any specification does not imply that the subcontractor is not bound by that specification.

PD25 MEASUREMENT AND PAYMENT

The reinstatement of borrow pits, pipe trenches and work areas shall be included in the contractor's rates for earthworks and excavations. Erosion protection such as construction of berms for stormwater drainage shall be included in the rates for pipe trenches and excavations of earthworks. Only gabions, where instructed by the Engineer will be paid separately.

PAIRTICUALR SPECIFICATION

PE DEALING WITH ESKOM SERVICES

PE1 The Contractor is responsible for liaison with and compliance with 'Eskom's requirements regarding works in close proximity to or crossing of Eskom Services.

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Contractor is responsible for any damage done to Eskom Services by the Contractor's staff or labourers, or sub-contractors.

- PE 2 Eskom's rights, services and equipment must be acknowledge at all times and may not be interfered or tampered with.
- PE3 All work within Eskom's servitude area must be done in accordance with the requirements of the Occupational Heal and safety Act, Act No 85/19:n. Special attention must be given to the clearances between Eskom's conductors, structures, cable and electrical apparatus and the proposed construction work.
- PE4 No mechanical equipment, including mechanical excavators and high lifting machinery, may be used within Eskom's services and equipment, without prior permission in writing and supervision of Eskom's authorized area representative. Permission must be obtained at least 10 (ten) days prior to the commencement of any work or blasting within the servitude area.
- PE5 No construction work may be executed closer than 6 metres from any of Eskom's power line structures or stay wires.
- PE6 Eskom shall not be liable for the death of or injury to any person or for the loss of or damage to any property caused in whatsoever manner b the Contractor, his employees, agents or contractors. The Contractor indemnifies Eskom against all claims including claims for consequential damages by third parties which includes but is not limited to claims as a result of damage to, or interruption of or interference with Eskom's services or equipment. The Contractor's attention is drawn to section 27(3) of the Electricity Act of 1987.
- PE7 Eskom shall at all times have unobstructed access to and from its servitude area and power line structures.

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PE8 Prior to the commencement of work, the Contractor must obtain permission from the registered owner of the property over which Eskom's servitude is registered.

PARTICULAR SPECIFICATION

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PF OCCUPATIONAL HEALTH AND SAFETY

CONTENTS

PF 1	SCOPE
PF 2	INTERPRETATIONS
PF 3	GENERAL
PF 4	GENERAL REQUIREMENTS
PF 5	SPECIAL REQUIREMENTS
PF 6	MEASUREMENT AND PAYMENT

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PF 1 SCOPE

This specification details the health and safety requirements associated with the Works.

This specification is drawn up in accordance with the Construction Regulations. This specification must be read in conjunction with the following sections of this document.

- | | |
|--------------------------------------|------------------|
| i) Portion 2, Part C1, Section C1.2 | Contract Data |
| ii) Portion 2, Part C3, Section C1.2 | Scope of Work |
| iii) Portion 2, Part C4 | Site Information |

Prior to attempting to identify and detail the hazards relative to the specific Works.

PF 2 INTERPRETATIONS

PF 2.1 Legislation and regulations

The following legislation is applicable:-

- a) Occupational Health and Safety Act, Act 85 of 1993 (hereinafter referred to as "the Act").

PF 2.2 Legislation and regulations

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

PF 3 GENERAL

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- PF3.1 The Contractor shall ensure that all work is executed in accordance with work procedures, which comply to accepted safety practices with the Act and the Regulations.
- PF3.2 The Employer will appoint the Contractor in writing for execution of the Works. The Contractor shall accept its appointment under the terms and Conditions of Contract. The Contractor shall sign and agree to those terms and conditions and shall, before commencing work, notify the Department of Labour in writing of the intended construction work in terms of Regulation 3 of the Regulations.
- PF3.3 The Contractor shall not engage in any construction work until confirmation has been received in writing behalf of the Employer that the Contractor's health and safety plan is deemed suitable.
- PF3.4 The Contractor shall not engage in any construction work until confirmation has been received in writing behalf of the Employer that the Contractor's health and safety plan is deemed suitable.
- PF3.5 The location of the Works specific to this Contract is clearly described in the Scope of Work of this document.

The Contractor shall, in preparation of his Health and Safety Plan, familiarize himself with emergency services in the location of the Works and with the local infrastructure, e.g. clinics, hospitals, police services, ambulance services, fire protection services and disaster management Centre's, to such extent that he is conversant with these, should the need therefore arise.

Telephone numbers of all emergency services to be permanently displayed at the site camp, in a convenient and prominent position, wherever possible, close to a telephone.

- PF3.6 Should the Contractor at any stage in execution of the Works:

Fail to implement or maintain his health and safety plan;

Execute construction work which is not in accordance with his health and safety plan; or

Act in any way which may pose a threat to the health and safety of persons, the Employer, his Agent or the Engineer will, by written order, suspend the progress of

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the Works. The Contractor shall, during such suspension, properly protect the Works so far as is necessary.

- PF3.7 The Contractor shall provide proof of his registration and good standing With the Compensation Fund, or with a licensed compensation insurer, prior to commencement with the Works.
- PF3.8 The Contractor shall, in submitting his tender, demonstrate that he has made provision for the cost of compliance with the specified health and safety requirements, the Act and the Construction Regulations, all in terms of sub-clause 4(1)h of the Construction Regulations. The costs of compliance shall clearly be demonstrated separately under the appropriate items of measurement, both under "fixed charge items" and "time related items".
- PF3.9 The Contractor shall consistently demonstrate his competence and adequacy of resources to perform the duties imposed on the Contractor in terms of his Specification, the Act and the Construction Regulations.
- PF3.10 The Contractor shall, throughout execution of the Contract, ensure that all conditions imposed on his sub-contractors in terms of the Act and the Construction Regulations are complied with, as if they were the Contractor.

PF 4 GENERAL REQUIREMENTS

PF4.1 Health and Safety Plan

The Contractor shall provide and demonstrate to the Employer a suitable and sufficiently documented health and safety plan, in compliance with the Act and the Regulations, which shall be applied from the date of commencement of and for the duration of execution of the Works.

- a) The Contractor's health and safety plan shall include the following principles:-

i) A
Health and Safety Policy authorized by the Contractor's executive corps that clearly states overall health and safety objectives and commitment to improving health and safety performance.

ii) A

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proper risk assessment of the construction work.

- | | | |
|-------|---|---|
| iii) | | P |
| | Pro-active identification of potential hazards and unsafe working conditions. | |
| iv) | | I |
| | Informing and or training of employees working in hazardous and risk areas. | |
| v) | | P |
| | Provision of a safe working environment and safety equipment. | |
| vi) | | E |
| | Ensure the safety of sub-contractors through their safety plans | |
| vii) | | M |
| | Monitoring health and safety on the construction works on a regular basis. | |
| viii) | | U |
| | Use of competent construction safety officers. | |

b) The Contractor's health and safety plan should cover the following detail:-

- | | | |
|------|---|---|
| i) | | H |
| | Health and Safety Policy. | |
| ii) | | I |
| | Indication of competent supervision on site. | |
| iii) | | C |
| | Competencies of persons (scaffold supervisors, first aiders, etc.) | |
| iv) | | D |
| | Duties and responsibilities of all appointed persons on the project. | |
| v) | | I |
| | Indication of condition and availability of high-risk equipment, tools & equipment. | |

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vi)	Monitoring mechanisms.	M
vii)	Risk assessments of hazards identified.	R
viii)	Arrangements for continuous risk assessments on the project.	A
ix)	Medical and first aid arrangements.	M
x)	Emergency preparedness arrangements.	E
xi)	Accident/ incident reporting and investigation arrangements.	A
xii)	Personal protective equipment arrangements.	P
xiii)	Site health and safety meeting arrangements.	S
xiv)	Audit arrangements.	A
xv)	Selection, procurement & management of other contractors.	S
xvi)	Maintenance arrangements of machinery and equipment	
xvii)	Designer I Engineer interaction arrangements.	
xviii)	Workers welfare facilities.	
xix)	Induction arrangements.	
xx)	Training arrangements.	
xxi)	Performance review and improvements on the project.	
xxii)	Past health and safety performance statistics of the	

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Contractor.

PF4.2 Health and Safety File

- a) The Contractor shall ensure that a health and safety file, which shall include all documentation required in terms of the provisions of this specification, the Act and the Regulations, is opened and kept on site and made available to the Employer or inspector upon request
- b) The Contractor's health and safety file should inter alia cover the following detail:-
 - i) A copy of the health and safety plan.
 - ii) All inspection reports as indicated in PF4.4.
 - iii) Accident and incident reports.
 - iv) Minutes of monthly health and safety meetings.
 - v) Contact details of the CSO.
 - vi) Inventory of safety and first aid equipment.
 - vii) Method statements and procedures not included in the health and safety plan.
 - viii) Continuous risk assessments on the project.
 - ix) Toxic and hazardous material data sheets.
- c) Upon completion of the works, the Contractor shall hand over a consolidated health and safety file to the Employer.

PF4.3 Appointments

PF4.3.1 Construction Supervision (CS)

The Contractor shall in writing appoint a full time competent employee as the construction supervisor, with the duty of supervising construction of the Works.

PF4.3.2 Construction Safety Officer (CSO)

Before commencing with the Works, the Contractor shall designate in writing a competent construction safety officer who shall be acceptable to the Agent, to represent and act for the Contractor in health and safety and related matters.

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PF4.3.3 Other Appointments

The Contractor shall in writing appoint competent supervisors, suitable and accomplished, as identified in the health and safety plan.

PF4.4 Monitoring Mechanism

Inspections as required by the Act must be conducted and the records thereof kept in the health and safety file.

- PF4.4.1 Weekly inspections of first aid boxes.
- PF4.4.2 Weekly inspections of ladders.
- PF4.4.3 Weekly inspections of fire-fighting equipment.
- PF4.4.4 Names and address of its employees who are registered as trained firefighting personnel as well as a duty roster.
- PF4.4.5 Monthly inspections of welding machines.
- PF4.4.6 Monthly inspections of oxy-acetylene equipment.
- PF4.4.7 Monthly inspections of builder's hoists.
- PF4.4.8 Monthly inspections of mobile and tower cranes.
- PF4.4.9 Monthly inspections of lifting gear
- PF4.4.10 Monthly inspections of electrical equipment. PF4.4.11 Monthly tests of earth leakage units.
- PF4.4.12 Inspections of formwork and support work on a routine basis as specified in PF 5.1(d).
- PF4.5 First Aid
- PF4.5.1 Safety notice board

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The Contractor shall provide a safety notice board where safety notices, site regulations concerning safe working practice and information on the location of the nearest first aid station, can be conspicuously displayed to its entire staff. The size of the notice board shall be at least 600mm x 800mm.

PF4.5.2 First Aid Equipment

The Contractor shall provide a stretcher for emergencies and a first aid box with the minimum contents as prescribed by the General Safety Regulations as published by means of Government Notices.

PF4.5.3 Hazard Notices

The Contractor shall display hazard notices in all areas where hazardous conditions prevail or may occur. Areas so demarcated shall be deemed to be "designated areas".

PF4.5.4 Reporting of incidents and / or injuries

All incidents in respect of damage to Works, property or machinery or injury to persons shall be reported by the CSO or Site Representative to the Employer as soon as possible.

A mandatory incident report form, containing full details of the incident, shall be completed and submitted to the Employer within twenty four (24) hours of the occurrence of the incident.

The Employer shall have the right to make all or any enquiries as to the cause and result of any such incident. The Contractor shall

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provide the Employer with full facilities for carrying out such enquiries.

PF4.6 Good Housekeeping

The Contractor shall at all time carry out the Works in as manner to avoid the risk of bodily harm to persons or risk of damage to any property. The contractor shall take all precautions, which are necessary and adequate to eliminate any conditions, which contribute to the risk of injury to persons¹ or damage to property. The Contractor shall continuously inspect all work, materials and equipment to discover and determine any such conditions and shall be solely responsible for the discovery, determination and elimination of such conditions.

The Contractor shall keep the construction site neat and tidy and shall dispose of all waste material in an orderly manner.

All materials and equipment on the construction site shall be stored neatly and safely.

PF4.7 Reporting of incidents and / or injuries

The Contractor shall provide the necessary personal protective clothing for his employees in hazardous areas, appropriate to the nature of the hazard.

PF4.7.1 Hard Hats

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All employees of the Contractor shall wear hard hats in designated areas. The Contractor shall keep enough hard hats available, of a contrasting colour to that of his employees, for the use of visitors to the Works. Hard hats not be painted or otherwise defaced

PF4.7.2 Eye. & Ear Protection

Suitable eye and I or ear protection shall be worn in designated areas or when grinding, chipping, breaking, drilling, arc-welding, cutting with oxy- acetylene equipment or similar activities are taking place.

PF4.7.3 Footwear

All employees of the Contractor shall wear serviceable, laced-up safety footwear suitable for the intended purpose in designated areas.

PF4.7.4 Gloves

All employees of the Contractor shall wear suitable protective gloves in designated areas or when handling hot or hazardous materials or chemicals. Reflective vests shall be worn when working in or close to areas where traffic or movement of vehicles, earth moving equipment and poor visibility occur. Persons working over an accumulation of water e.g. reservoirs, rivers, dams or harbours, where a danger exists of falling into the water, shall wear life belts.

PF4.8 Road Traffic and Transportation

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- PF4.8.1 The Contractor shall ensure that vehicles are maintained in a roadworthy condition.
- PF4.8.2 The Contractor shall ensure that drivers of vehicles are in possession of an appropriate and valid driver's licence.
- PF4.8.3 The Contractor shall not permit any driver to be in control of a vehicle on the works while under the influence of intoxicating liquor or narcotic drugs.
- PF4.8.4 All vehicles of the Contractor shall display a name board bearing the Contractor's name. Hired vehicles shall bear an identifying sticker.

PF4.9 Overhead Powerlines

Regulations of the electricity supply authority in connection with prohibition of operations in the vicinity of overhead power lines shall be complied with by the Contractor at all times.

PF4.10 Machinery, Tools and Equipment

The Contractor shall ensure that all machinery, tools and equipment are safe to use and maintained in a good condition. All tools and machinery, tools and equipment are to be regularly inspected and such registers are to be kept on site.

PF4.11 Welfare Facilities

- PF 4.11.1 The Contractor shall provide and maintain at or within reasonable access of the Works, the following clean facilities:-
- a) At least one (1) shower for every fifteen (15) workers of each gender.
 - b) At least one (1) sanitary facility for every thirty (30) workers of each gender.
 - c) Changing facilities for each gender, and
 - d) Sheltered eating areas.

PF 5 SPECIAL REQUIREMENTS

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PF 5.1 Formwork and Support Work

The Contractor shall ensure that:-

- a) all formwork and support work operations are carried out under the supervision of a competent person who has been appointed by the Contractor in writing for that purpose that no loads are imposed onto the structure that the structure is not designed to withstand.
- b) all formwork and support work structures are adequately designed, erected, supported, braced and maintained so that they will be capable of supporting all anticipated vertical and lateral loads that may be applied to them and also that no loads are imposed onto the structure that the structure is not designed to withstand.
- c) the foundation conditions are and remain suitable to withstand the load caused by the framework and support structure and any imposed loads such that the framework and support work structure are stable.
- d) all formwork and support work structures are inspected by a competent person, who has been appointed by the Contractor in writing for that purpose, immediately before, during and after the placement of concrete or any other imposed load and thereafter on a daily basis until the formwork and support work structure has been removed and the results have been recorded in a register, kept in the health and safety file.
- e) Upon casting concrete, the support work or formwork structure should be left in place until the concrete has acquired sufficient strength to support safely, not only its own load, but also any imposed loads and not removed until authorization has been given by the competent person contemplated in sub paragraph (a).

PF 5.2 Prevention of Uncontrolled Collapse

The Contractor shall ensure that:-

- a) all reasonable practicable steps are taken to prevent the uncontrolled collapse on any new or existing structure or any part thereof, which may become unstable or is in a temporary state of weakness or instability due

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to the carrying out of construction. Work; and

- b) no structure or part of a structure is loaded in a manner that would render it unsafe.

PF 5.3 Scaffolding

- a) when using access scaffolding the Contractor shall ensure that such scaffolding, when used, complies with the Regulations under section 44 of the Act.
- b) the Contractor shall ensure that all scaffolding operations are carried out under the supervision of a competent person who has been appointed in writing and that all scaffold erectors, team leaders and inspectors are competent to carry out their work.
- c) all scaffolding shall comply to SASS 085 'The design, erection, use and inspection of access scaffolding' of which a copy shall be kept in the health and safety file.

PF 5.4 Safe Working Loads

The Contractor shall ensure that:-

- a) the safe working loads of hoists, load bearing beams and cranes are prominently at all times;
- b) the safe working loads are not exceeded under any circumstances; and
- c) all lifting gear is marked with a unique identity number and recorded in a register kept in the health and safety file.

PF5.5 Commission Safety Precautions

The Contractor shall ensure that wherever repairs, adjustments or any other work are undertaken on any plant or machinery, the power supply is switched off, disconnected or the plant/machinery disengaged until the work or repairs have been completed.

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PF5.6 Use and Storage of Toxic, Hazardous Chemical and Flammable Materials

- a) The Contractor shall take adequate safety precautions with the handling and storage of any toxic, hazardous chemicals and flammable materials.
- b) The contractor shall provide suitable and adequate protective equipment when working in areas where toxic, hazardous chemicals and flammable materials are being used
- c) The Contractor shall ensure that its employees have familiarized themselves with the toxic and hazardous material data sheets applicable as well as the location of firefighting equipment, safety showers/baths and other washing facilities, prior to commencement of work.

PF5.7 Work on Elevated Positions

- a) Whenever persons are required to work in an elevated position, every possible and practicable mean shall be adopted to provide such persons with effective safeguards.
- b) The Contractor shall stop all persons working on the erection of steelwork during periods of inclement weather or if the possibility of lightning strikes is present.
- c) Safety belts shall be worn when working at an elevation of 2 metres or more.
- d) Working on elevated positions shall only be carried out under the supervision of a competent person, appointed in writing by the Contractor.
- e) Under no circumstances may safety belts be used as fall arrest equipment but only as a fall prevention device. Full body harnesses with appropriate arrest mechanisms are to be used for all arrest purposes.
- f) Lifelines are to be used with safety harnesses or safety belts when doing steel erection and other similar activities such that persons are not exposed to danger by continuously attaching and detaching the lanyards from the structure.

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PF5.8 Excavations

- b) Digging or excavation operations may not commence without the written authorization from the competent supervisor appointed by the Contractor in writing.
- c) Adequate precautions shall be taken by the Contractor to prevent slumping of excavations, as well as to prevent rocks and loose material falling onto workers.
- d) All excavations by the Contractor are to be clearly demarcated to prevent accidental access. Solid barricading shall be used at areas where there is a fall hazard present (save for pipe trenches). Danger tape may only be used to make the solid barricading more visible.

PF5.9 Indemnity of Employer and His Agents

- a) The annexure to this Contract Document contains a declaration pertaining to the Health and Safety Plan which shall be duly completed and signed by the Tenderer.
- b) Any acceptance, approval, check, certificate, consent, examination, inspection, instruction, notice, observation, proposal, request, test or similar act by either the Employer or any of his Agents (including absence of disapproval) shall not relieve the Contractor from any responsibility he has under the Contract, the Act and the Construction Regulations, including responsibility for errors, omissions, discrepancies and non-compliances.

PF5.10 Expanded Public Works Programme

Use of local Workers for LI designated activities

Labour-intensive works shall be constructed/maintained using local workers who are temporarily employed in terms of this Scope of Work

Competencies of LI Management and Supervisory staff

Contractors shall engage supervisory and management staff in labour-intensive works that have completed the skills programme including Foremen/Supervisors at NQF "National Certificate: Supervision of Civil Engineering Construction Processes" and Site Agent/Manager at NQF level 4 "Manage labour-intensive Construction Processes" or equivalent QCTO qualifications.

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Provision of Hand tools

The Contractor shall provide his labour force with hand tools of adequate quality, sufficient in numbers and make the necessary provisions to maintain the tools in good and safe working conditions

Wage Dispute (Contractor default to pay participants)

- (a) Any dispute between the Contractor and labourers, regarding delayed payment or default in payment of fair wages, if not resolved immediately may compel the Employer to intervene.
- (b) The Employer may, upon the Contractor defaulting payment, pay the moneys due to the workers not honoured in time, out of any moneys due or which may become due to the Contractor under the Contract.

EPWP Special Project Specification

As much as is economically feasible all work shall be implemented by employing Labour Intensive Construction methods. Over and above the normal Building and Allied works to be implemented by employing skilled and unskilled labour the works specified in the “Guidelines for the Implementation of Labour-Intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP)” shall be undertaken using Labour Intensive Construction methods.

Requirement for Sourcing and engagement of Labour

Unskilled and semi-skilled labour required for the execution of all labour intensive works shall be engaged strictly in accordance with prevailing legislation and SANS 1914-5, Participation of Targeted Labour.

The minimum rate of pay set for the EPWP is R per task or per day.

© Tasks established by the contractor must be such that:

- a) the average worker completes 5 tasks per week in 40 hours or less; and
- b) the weakest worker completes 5 tasks per week in 55 hours or less.

(d) The contractor must revise the time taken to complete a task whenever it is established that the time taken to complete a weekly task is not within the requirements of 1.1.3 of the EPWP Infrastructure Guidelines.

(e) The Contractor shall, through all available community structures, inform the local community of the labour intensive works and the employment opportunities presented thereby. Preference must be given to people with previous practical experience in construction and / or who come from households:

- a) where the head of the household has less than a primary school education;
- b) that have less than one full time person earning an income;
- c) where subsistence agriculture is the source of income.

d) those who are not in receipt of any social security pension income

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Employment demographics

The Contractor shall endeavour to ensure that the expenditure on the employment of temporary workers is in the following proportions:

- a) 60 % women;
- b) 55% youth who are between the ages of 18 and 35; and
- c) 2% on persons with disabilities.

Provision of Branded Personnel Protective Clothing

All recruited participants shall be issued with at least two (2) pairs of adequately EPWP branded safety clothing as directed by the employer.

PF 6 MEASUREMENT AND PAYMENT

The Contractor shall clearly demonstrate that he has indeed made provision for the cost of health and safety measures during the construction process, as required in terms of Subclause 5(1) (g) of The Construction Regulations (2014) proclaimed under section 43 of the Occupational Health and Safety Act. (Act No 85 of 1993).

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- The tendered price shall include for compliance to the following legislation:-
- Compensation for Occupational Injuries and Diseases Act, 130 of 1993;
- Occupational Health and Safety Act, 85 of 1993 and Regulations promulgated there under; and
- Construction Regulations, 2014.
- Differentiation shall be made in the Schedule of Quantities between the following two payment items:-
- Establishment by the contractor of facilities on site, and
- Operations and maintenance by the Contractor of facilities on site to ensure that all work is executed in accordance with above mentioned legislation and this Specification.

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PART C4: SITE INFORMATION

C.4.1	SITE INFORMATION.....	C.167
C.4.2	LOCALITY PLAN	C.168

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C.4.1 SITE INFORMATION

- C.4.1.1 Material site investigation: To be supplied to successful contractor or upon request

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C.4.2 LOCALITY PLAN

Attached in the Book of Drawings

PART C5: ANNEXURES

C5.1	PROFORMA DOCUMENTS.....	C.169
C5.2	CONTRACT DRAWINGS	C.175

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PROFORMA DOCUMENTS

The following is a list of Proforma documents and examples that are required to be completed by the successful tenderer.

C5.1.1	RETENTION MONEY GUARANTEE PROFORMA.....	C.170
C5.1.2	EXAMPLE OF ABE DECLARATION AFFIDAVIT.....	C.172

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RETENTION MONEY GUARANTEE PROFORMA

EXAMPLE

.....Municipality
.....
.....
.....

FOR INFORMATION ONLY:
This Guarantee is not to be
completed and signed by the
Guarantor.
A separate form will be issued
to the successful Tenderer

Notes to Tenderer

1. This pro forma is for information only. The successful tenderer's guarantor will need to reproduce it without amendment, omission or addition for completion and lodgement with the Employer.
2. The tenderer's guarantee will have to be on letterheads indicating the contact details of the guarantor, shareholders/board of directors, guarantee number and the company registration number.

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FOR

DESCRIPTION OF THE CONTRACT

"CONSTRUCION OF MADUMELENG/ SHOTONG SPORTS COMPLEX"

The guarantee is issued on behalf of

Registration No

(here in after referred to as "the Contractor") in connection with the above mentioned contract (hereinafter referred to as "the Contract").

Whereas you have agreed that the Contractor may provide a guarantee in lieu of the retention monies provided for under the Contract.

Now therefore we, the undersigned, being duly authorised to represent the

.....

(full name of guarantor) registration number

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undertake to pay you such amounts as you may from time to time demand from us, immediately upon receipt of a written demand from you.

1. Each demand shall be in writing and delivered to us at
or such other address as we shall in writing notify to you.
2. Our liability to make the payments herein referred to shall be unconditional and not be affected or diminished by any disputes, claims or counterclaims between you and the Contractor.
3. Our aggregate liability under this guarantee is limited to
(R.....) and is restricted to payment of monies only.
4. This guarantee shall expire on the date on which the last of the retention monies, which but for this guarantee would have been retained by you, becomes payable to the Contractor.
5. This guarantee is neither negotiable nor transferable and must be returned to us against final payment of our aggregate liability or on the date of the expiry of the guarantee in terms of Clause 4 (above), whichever is the earlier.

Signed atfor and on behalf of

on this the day ofin the year

GUARANTOR:

AS WITNESS:

1. 2.

NAME (Print): NAME (Print):

ADDRESS ADDRESS

.....

.....

GREATER LETABA MUNICIPALITY**CONTRACT No. GLM0007/2026****FOR THE CONSTRUCTION OF MADUMELENG/SHOTONG SPORTS COMPLEX****EXAMPLE OF ABE DECLARATION AFFIDAVIT**

(facsimiles will be provided by the Employer to be completed by ABEs)

1. Name of firm :
- Postal address :
- Telephone no. :Fax no
- Contact person :
- VAT registration no. :
2. Type of firm (tick as appropriate)
 - Partnership.....
 - One person business/sole trader.....
 - Close corporation: registration no.....
 - Date of registration.....
 - Company: registration no.....
 - Pty Ltd: registration no.....
3. Principal Business Activities :.....
4. Service/work to be performed on this contract:
5. Participation in this contract
 - as a Sub-contractor Yes/No
 - in a Joint Venture Yes/No
 - with main contractor Yes/No
 - with a sub-contractor Yes/No
6. List all partners, proprietors and shareholders:

Name	ID. No.	Citizen of RSA Yes/No	PDI status Yes/No	%owned

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7. List the last four contracts/assignments completed by your firm. If required, a separate sheet may be used and attached to this page. Reference may be called from the Employers of the projects listed.

PROJECT AND WORK PERFORMED	EMPLOYER (NAME, ADDRESS, TEL, FAX)	VALUE OF RANDS

Notes to tenderer:

Under column 1 state the assignment or contract (eg. Contract XYZ0123): Construction of rural roads) and follow this with the work carried out (eg. construction of pipe culverts).

Under column 2, if it was a sub-contract give the required details of the employer for the main contract and also of the Contractor who employed you.

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Under column 3 give the value of the main contract (if any and if known) and also the value of the work carried out by you.

8. Declaration

I, ,

being duly authorised to sign on behalf of the firm, affirm that the PDI equity in this business is as stated above and that the information furnished is true and correct.

Signature

Name (print)

Date

Signed on behalf of (print name)

Address

.....

Telephone no.

Commissioner of Oath

Date

Note: In the case of a Company a certificate of authority for signatory must be provided.

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The following is a list of contract drawings issued separately in a Book of Drawings:

LIST OF DRAWINGS	
Description	Drawing Number
Book of Drawings	001
List of Drawings	002
Locality Map	003
Layout Plan	004
Soccer Field	005
Rugby Field	006
Athletics Track	007
Netball Court and Details	008
Tennis Court and Details	009
Basketball Court and Details	010
Volleyball Court and Details	011
Guard Room	012
Drop, Direct House Connections and Circular Manholes	019
Manhole Details	020
Drop, Direct House Connections and Circular Manholes	021
Pipe Bedding Details	022
Pipe Details	023
Water Meter Details	024
Valve Details	025
Manhole Details	026
Horizontal Thrust Blocks and T- junction	028
Horizontal Thrust Blocks and Pipe Reducers	029
Pipe Bedding Construction	030
Typical Plan For Side Drains, Kerbs and Energy Breakers	034
Erosion Protection	035
Contract Name Board	036
Electrical Layout	037