

BA-PHALABORWA LOCAL MUNICIPALITY



BID DOCUMENT

TENDER NUMBER: 07/20/21

REFURBISHMENT OF NAMAKGALE STADIUM

CIDB GRADING: 7CE OR HIGHER

Closing date: 28th January 2021

Closing Time: 10H00

PREPARED BY:	PREPARED FOR:
INFRA PROJECTS AFRICA Unit 2 Suid Park 126B Suid Street POLOKWANE 0699 Tell: (015) 291 2040 Fax: (086) 293 2370 Email: admin@infraprojectsafrica.com	THE MUNICIPAL MANAGER BA-PHALABORWA LOCAL MUNICIPALITY PRIVATE BAG X 01020 PHALABORWA 1390 Tel: (015) 780 6308 Fax: (015) 780 6421

NAME OF BIDDER (BIDDING ENTITY) :

BIDDER ADDRESS :

TEL NUMBER :

FAX NUMBER :

BID AMOUNT INCLUDING VAT :

BBBEE STATUS :

CSD REGISTRATION No. (MAAA) :

CIDB REGISTRATION No. :

BA-PHALABORWA LOCAL MUNICIPALITY



CONTRACT NO. 07/20/21

REFURBISHMENT OF NAMAKGALE STADIUM

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Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

BA-PHALABORWA LOCAL MUNICIPALITY



CONTRACT NO. 07/20/21

REFURBISHMENT OF NAMAKGALE STADIUM

T1.1 TENDER NOTICE AND INVITATION TO TENDER

VERY IMPORTANT NOTICE ON DISQUALIFICATIONS:

A bid not complying with the peremptory requirements stated hereunder will be regarded as not being an “Acceptable bid”, and as such will be rejected.

The municipality shall adjudicate and award tenders in accordance with the Preferential Procurement Policy Framework Act 5/2000 and revised Preferential Procurement Regulation June 2011 on 100 points functionality and on an 80/20 points system, where 80 points are for the price and 20 points for B-BBEE according to the said legislation. Tenders are required to submit valid B-BBEE status level verification certificates.

1. Latest Proof of registration on the National Treasury Supply Database (CSD) should be attached with a valid reference number.
2. If any pages have been removed from the bid document, and have therefore not been submitted, or a copy of the original bid document has been submitted.
3. Scratching out without initialling next to the amended rates or information, writing over or painting out rates affecting the evaluation of the bid.
4. Not initialling all the pages including the cover page.
5. The use of correction fluid (i.e. tippex) or any erasable ink, e.g. pencil.
6. Non-attendance of mandatory/compulsory:
 - o Site inspections or;
 - o Information/Clarification meetings
7. The Bid has not been properly signed by a party having the authority to do so, according to the example of “Authority for Signatory”
8. No authority for signatory submitted – See example, where it is stated that a duly signed and dated original or certified copy of the company’s relevant resolution (for each specific bid) of their members or their board of directors, must be submitted.
9. Particulars required in respect of the BBEE status compliance of the bid have not been completed, the bidder will not be disqualified but no preference points will be awarded.
10. The bidder attempts to influence, or has in fact influenced the evaluation and/or awarding of the contract.

T 1.1. 1

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

11. Very Important notice Bidders must note that only information filled in at the spaces provided therefore in the bid document will be considered for evaluation purposes unless additional spaces is required and then only if the location of the additional information in the attachments is properly referred to the page number and section heading. Information supplied anywhere else will be disregarded which may lead to the rejection of the bid. The attachment or inclusion of information not specifically asked for is not desirable and lead to delay in the awarding of bids.
12. The bid has been submitted either in the wrong bid box or after the relevant closing date and time and if the envelope is not clearly marked indicating the project description and tender number.
13. Failure to provide a valid certificate of good standing issued by Compensation Fund (COID) or the Department of Labour, or a declaration by a designated employer that it complies with the Employment Equity Act 55 of 1998.
14. If any municipal rates and taxes or municipal service charges owed by the bidder or any of its directors to the municipality, or to any other municipality or municipal entity, are in arrears for more than three months.
15. If any bidder who during the last five years has failed to perform satisfactorily on a previous contract with the municipality, municipal entity or any other organ of state after written notice was given to that bidder that performance was unsatisfactory.
16. The accounting officer must ensure that irrespective of the procurement process followed, no award may be given to a person –
 - (a) who is in the service of the state, or;
 - (b) if that person is not a natural person, of which any director, manager, principal shareholder or stakeholder, is a person in the service of the state; or;
 - (c) who is an advisor or consultant contracted with the municipality in respect of contract that would cause a conflict of interest.
17. A copy of valid registration with CIDB, in an appropriate contractor grading designation (Category), as required in the bid documentation (or in the case of JV, all partners in the JV must be attached.)
18. Bid offers will be rejected if the bidder or any of his directors is listed on the Register of Bid 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.
19. Bid offers will be rejected if the bidder has abused the BPLM's Supply Chain Management System and action was taken in terms of paragraph 38 of the BPLM SCM Policy.
20. Failure to attach original or certified copy of a valid signed Joint Venture/Consortium agreement (if applicable) to the bid document.
21. Form of offer not completed and signed by the authorised signatory.
22. Failure to submit latest Audited Financial Statement.

T 1.1. 2

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA LOCAL MUNICIPALITY



CONTRACT NO: 07/20/21

REFURBISHMENT OF NAMAKGALE STADIUM

INVITATION TO TENDER

Ba-Phalaborwa Municipality hereby invites suitable professional services providers to render service), for the below listed project in the Ba-Phalaborwa Municipality of the Mopani District in Limpopo Province.

Tender documents are obtainable from Ba-Phalaborwa Municipality (civic centre) during the following times: 07:00 to 12:00 and from 13:00 to 15:30 (Monday to Friday).

Below are the significant details per project:-

TENDER NUMBER	DESCRIPTION	CIDB	COMPULSORY BRIEFING SESSION			COST	EVALUATION CRITERIA	CLOSING DATE AND TIME	CONTACT PERSON
		GRADING	DATE	TIME	VENUE				
07/20/21	Refurbishment Of Namakgale Stadium	7 CE OR higher	06/01/2021	10h00	Namakgale Entrance (R71 Road)	R1000 @ the Municipality	80/20	28/01/2021 @10H00	Ms S Mahumani (015) 780 6350

A compulsory briefing session will be held on the dates and times specified above.

N/B: Covid 19 principles should be adhered to i.e. Wearing of masks, Social distancing, and Sanitizing (No bidder will be allowed if not wearing a mask)

The Bids are to be deposited in the tender box of Ba-Phalaborwa Municipality Offices situated at CNR Mandela Drive & Sealene Street in Phalaborwa, by the closing date and time as above mentioned, where after they be opened in public. No late, telefaxed or Document found in any other place or bids from service providers who have not attended the compulsory briefing session will not be considered.

Bidders should take note of the following bidding conditions:

1. Ba-Phalaborwa Municipality Supply Chain Management Policy shall apply in the evaluation and awarding of the Tender.
2. Ba-Phalaborwa Municipality does not bind itself to accept the lowest tender, reserves the right to accept the whole or part of the Tender and reserves the right not to appoint.
3. The Bid validity shall be 90 (Ninety) days from the date of closure.
4. Bidders must provide proof of the following to avoid disqualification: CSD report (Printed between the date of the advert and closing date, certified ID copies of all directors, statement of municipal rates and taxes for both company and director(s) (not older than 3 months)/ letter from traditional authority not older than 3 months/ lease agreement, key personnel/ service team's experience (attach certified copies of qualifications and CV, CK/ Company registration, Valid Tax Clearance or Tax Pin, Certified copy or original valid BBB-EE certificate or sworn affidavit, proof of work experience (attach relevant appointment letters). **All relevant returnable documents are attached in tender document.**
5. The minimum score for functionality will be 60% and bidders who score below 60% will not be evaluated further on price and BBEE preference point scoring system.

**MOAKAMELA MI
MUNICIPAL MANAGER**

Notice No 31/20

T 1.1. 3

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA LOCAL MUNICIPALITY



CONTRACT NO. 07/20/21

REFURBISHMENT OF NAMAKGALE SPORT FACILITY

T1.2 TENDER DATA

The conditions of tender are the Standard Conditions of Tender as contained in **Annex F** of the **CIDB** Standard for Uniformity in Construction Procurement which are reproduced without amendment or alteration for the convenience of renderers' (See www.cidb.org.za).

The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the Standard Conditions of Tender.

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

The additional conditions of Bid are:

Clause Number	Bid Data
F.1.1	The Employer is: BAPHALABORWA LOCAL MUNICIPALITY PRIVATE BAG X01020 PHALABORWA 1390 Tel: (015) 780 6300 Fax: (015) 781 0726
F.1.2	The Tender documents issued by the Employer comprise the following documents: THE TENDER Part T1 : Tendering Procedures T1.1 Tender Notice and invitation to tender T1.2 Tender Data Part T2: Returnable Documents T2.1 List of Returnable documents T2.2 Returnable schedules

T1.2.1

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

	<p>THE CONTRACT</p> <p>Part C1: Agreements and Contract Data</p> <p>C1.1 Form of offer and acceptance</p> <p>C1.2 Contract Data</p> <p>C1.3 Performance guarantee</p> <p>C1.4 OHS</p> <p>Part C2: Pricing Data</p> <p>C2.1 Pricing Instructions</p> <p>C2.2 Bill of Quantities</p> <p>Part C3: Scope of Work</p> <p>C3 Scope of Work</p> <p>Part C4: Site Information</p> <p>C4 Site Information</p> <p>Part C5: Book of Drawings</p>	
F1.3	<p>Interpretation</p> <p>The tender data and additional requirements contained in the tender schedules that are included in the returnable documents are deemed to be part of these tender conditions.</p>	
F.1.4	<p>The Employer's Agent is:</p>	
	<p>Infra Projects Africa Tel: 015 291 2040</p>	<p>126B Suid Street Polokwane ,0699</p>
F.1.5.1	<p>Reject or accept</p> <p>The Employer may accept or reject any variation, deviation, tender offer, or alternative tender offer, and may cancel the tender process and reject all tender offers at any time before the formation of a contract. The employer shall not accept or incur any liability to a tenderer for such a cancellation and rejection, but will give written reasons for such action upon written request to do so.</p>	
F.2.1	<p>Eligibility</p> <p>Only those tenderers who satisfy the following criteria are eligible to submit tenders:</p>	
F.2.1	<p>Only those Tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of submissions, in a Contractor grading designation equal to or higher than a Contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25 (7A) of the Construction Industry Development Regulations, for a 7CE or higher class construction work, are eligible to have their tenders evaluated.</p> <p>Joint Ventures are eligible to submit tenders provided that:</p> <ol style="list-style-type: none"> 1. every member of the joint venture is registered with the CIDB; 2. the lead partner has a Contractor grading designation in the 7CE or higher class of construction work; and 3. 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 7CE or higher class of construction work or a value determined in accordance with Regulation 25 (1B) of 25 (7A) of the Construction Industry Development Regulations. 	

T1.2.2

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

	Only those tenderers who have in their employ management and supervisory staff satisfying the requirements of the scope of work for labour intensive competencies for supervisory and management staff are eligible to submit tenders.	
F.2.2	Compensation of tendering Accept that the Employer will not compensate the tenderer for any costs incurred in the preparation and submission of a tender offer, including the costs of any testing necessary to demonstrate that aspects of the offer satisfy requirements.	
F.2.3	Check documents Check the tender documents on receipt for completeness and notify the employer of any discrepancy or omission.	
F.2.4	Confidentiality and copyright Treat as confidential all matters arising in connection with the tender. Use and copy the documents issued by the employer only for the purpose of preparing and submitting a tender offer in response to the invitation.	
F.2.5	Reference documents Obtain, as necessary for submitting a tender offer, copies of the latest versions of standards, specifications, conditions of contract and other publications, which are not attached but which are incorporated into the tender documents by reference.	
F2.6	Acknowledge Addenda Acknowledge receipt of addenda to the tender documents, which the employer may issue, and if necessary apply for an extension of the closing time stated in the tender data, in order to take the addenda into account.	
F.2.7	The arrangements for a compulsory site meeting are:	
	Date: 06th January 2021 Starting time: 10:00	Location: Namakgale Stadium Entrance (R71 Road),
F.2.10	Pricing the tender State the rates and prices in Rand.	
F.2.11	Alterations to documents Not make any alterations or additions to the tender documents, except to comply with instructions issued by the employer, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations. Erasures and the use of masking fluid are prohibited.	
F.2.12	Alternative tender offers Alternative offers may be submitted only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted. The alternative tender offer is to be submitted with the main tender offer together with a schedule that compares the requirements of the tender documents with the alternative requirements the tenderer proposes. 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	

T1.2.3

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

	responsibility and liability that the alternative offer complies in all respects with the Employer's standards and requirements.
F.2.13.3	Tender offer communicated on paper shall be submitted as an original.
F.2.13.5	The Employer's address for delivery of Tender offers and identification details to be shown on each Tender offer package are: TENDER NUMBER: 07/20/21 - REFURBISHMENT OF NAMAKGALE STADIUM Closing date and time: Closing date: 28th January 2021 Closing Time: 10h00 Location of Tender box: Ba-Phalaborwa Local Municipality, Civic Centre, Cnr. Mandela Drive & Sealene Street. Physical address: Ba-Phalaborwa Local Municipality, Civic Centre, Cnr. Mandela Drive & Sealene Street., Phalaborwa.
F.2.13.9	Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.
F.2.14	Accept that tender offers, which do not provide all the data or information requested completely and in the form required, may be regarded by the employer as non-responsive.
F2.15	The closing time for submission of tender offers is as mentioned in F.2.13.5 above and as stated in the Tender Notice and Invitation to Tender.
F.2.16	The Tender offer validity period is 90 Days .
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.
F2.20	The tenderer is required to submit a Performance Guarantee from an approved insurer within 28 days from appointment. A format is included in Part C1.3 of this document. The tenderer is to submit to the employer before formation of the contract, all securities, bonds, guarantees, policies and certificates of insurance required in terms of the conditions of contract identified in the contract data.
F.2.23	The tenderer is required to submit with his tender: (1) CSD Registration Documents. In case of Joint Venture – both companies / cc to submit registration documentation (printed between the date of advert and closing date). (2) In case of Joint Venture – the Joint Venture Agreement. (3) Certified ID copies of all directors (4) Statement of municipal rates and taxes for both company and director(s), which should not be in arrears/ letter from traditional authority/ lease agreement. (not older than 3 months). (5) All bidders must attend the compulsory briefing session and sign certificate of attendance/ attendance register. (6) Bidders must attach signed declaration of interest forms (MBD 4 & 8) (7) Company registration certificate (8) Original valid tax clearance certificate / letter from SARS with a valid pin code

T1.2.4

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

	<p>(9) BBB-EE certificate (optional)</p> <p>(10) CIDB Grading certificate or in the case of a JV, a combined JV CIDB grading certificate</p> <p>(11) COIDA Letter of Good Standing</p> <p>(12) NHBRC Certificate for Building Works</p> <p>(13) Bank Rating Letter</p> <p>(14) Audited Financial Statements for past 3 years if applicable</p> <p>(15) Bank Power of attorney/ letter of authority for signatory if applicable</p> <p>(16) Joint venture agreements where applicable</p> <p>(17) Declaration on State of Municipal Accounts and copy of current Municipal Account in the name of the Tenderer and also in the names of the Directors/Partners of the tendering entity</p> <p>(18) Statement of Municipality Accounts as proof of residential address. If leasing, provide the lease agreement and the owner Municipal Account or the proof of residential address by a traditional authority in case of a non-ratable area for the business and all company directors (Not older than three months).</p> <p>(19) Terms of reference fully completed and each page to be initialed.</p> <p>(20) Proof of work experience. Attach appointment letters and/or Work orders (No referral letters)</p>
F.3.4	<p>The time and location for opening of the Tender offers are:</p> <p>Closing date: 28th January 2021 Closing Time: 10h00</p> <p>Location: Ba-Phalaborwa Local Municipality, Civic Centre, Cnr Mandela Drive & Sealene Street., Phalaborwa.</p>

T1.2.5

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

		<p><u>Occupational Health and Safety Officer</u></p> <p>Relevant NQF Level 6 Qualification with more than 5 years' experience :05 points</p> <p>Relevant NQF Level 5 Qualification with more than 5 years' experience :04 points</p> <p>Relevant NQF Level 5 Qualification with more than 5 years' experience :03 Points</p> <p>No formal education :00 Points</p>	05																				
COMPANY EXPERIENCE IN APPLIED FIELD			MAX 40																				
<p>The tender must submit five (5) similar and successfully completed projects with a minimum value of R20 000 000 per project.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">SCORING CRITERIA</th> <th style="text-align: center;">POINTS</th> </tr> </thead> <tbody> <tr> <td>Tender scores zero (0) points where no information regarding the company's relevant past experience indicated</td> <td style="text-align: center;">10</td> </tr> <tr> <td>1-2 completed projects (i.e. Appointment letters and Completion letters)</td> <td style="text-align: center;">20</td> </tr> <tr> <td>3-4 completed projects (i.e. appointment letters and completion letters is submitted.</td> <td></td> </tr> <tr> <td>5+ more completed projects (l. e appointment letters and completion letters.</td> <td style="text-align: center;">40</td> </tr> </tbody> </table> <p>*Referral letters will not be accepted as valid proof of company experience only appointment letters and completion letters.</p> <p>*Similar projects = Civil engineering works, general building works and other related civil construction projects.</p>		SCORING CRITERIA	POINTS	Tender scores zero (0) points where no information regarding the company's relevant past experience indicated	10	1-2 completed projects (i.e. Appointment letters and Completion letters)	20	3-4 completed projects (i.e. appointment letters and completion letters is submitted.		5+ more completed projects (l. e appointment letters and completion letters.	40	40										
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FINANCIAL CAPACITY			MAX 10																				
<p>Bidder to submit proof of bank rating not older than three (03) months.</p> <p>Bank rating should be of the Lead Partner in case of a Joint Venture.</p>	<p>Bank Rating</p> <p>A :10 Points</p> <p>B :08 Points</p> <p>C :06 Points</p> <p>D :04 Points</p> <p>E, F or G :00 Points</p>	10																					
PLANT AND EQUIPMENT			MAX 30																				
<p>Tenderer to submit proof of ownership with certification not older than three (03) Months.</p> <p>In case of leasing, a letter of intent must be submitted with proof of ownership with certification not older than three (03) months.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">REQUIRED PLANT</th> <th style="text-align: center;">MIN. QUANTITY</th> <th></th> </tr> </thead> <tbody> <tr> <td>10 Ton Compactor/ Grid Roller</td> <td style="text-align: center;">01</td> <td style="text-align: right;">:05 Points</td> </tr> <tr> <td>1 x Excavator</td> <td style="text-align: center;">01</td> <td style="text-align: right;">:05 Points</td> </tr> <tr> <td>TLB (Back Actor)</td> <td style="text-align: center;">01</td> <td style="text-align: right;">:05 Points</td> </tr> <tr> <td>Tipper Truck</td> <td style="text-align: center;">02</td> <td style="text-align: right;">:08 Points</td> </tr> <tr> <td>LDV (Bakkie)</td> <td style="text-align: center;">01</td> <td style="text-align: right;">:02 Points</td> </tr> <tr> <td>Water Truck</td> <td style="text-align: center;">01</td> <td style="text-align: right;">:05 Points</td> </tr> </tbody> </table>	REQUIRED PLANT	MIN. QUANTITY		10 Ton Compactor/ Grid Roller	01	:05 Points	1 x Excavator	01	:05 Points	TLB (Back Actor)	01	:05 Points	Tipper Truck	02	:08 Points	LDV (Bakkie)	01	:02 Points	Water Truck	01	:05 Points	30
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T1.2.7



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

SMME PLAN			MAX 25
Bidder to submit Detailed and project specific SMME Plan	Points will be allocated as per the listed criteria:		25
CRITERIA			
Detailed approach and methodology on appointment of local SMME's		: 05 Points	
Methodology of how contracts, payments and financial assistance to SMMEs will be managed		:05 Points	
Quality control and reporting process and procedures.		: 05 Points	
Clear organizational structure for Managing SMMEs.		: 05 Points	
Skills Transfer		: 05 Points	
LOCALITY (PROMOTION OF LOCAL COMPANIES)			15
Tenderer to submit proof of physical address of company	Business operating within the boundaries of The Ba-Phalaborwa Municipality	: 15 Points	MAX 15
Business operating within the boundaries of the Mopani District Municipality		:10 Points	
Business operating within the boundaries of the Limpopo Province.		:05 Points	
Business operating outside the boundaries of the Limpopo Province.		:00 Points	
<i>** Statement of Municipality Accounts as proof of residential address, if leasing, provide the lease agreement and copy of the owner's statement of municipality account or the proof of residential address by a traditional authority in case of a non-ratable area for the business and all company directors (Not older than three months)</i>			
TOTAL			150
The tenderers bidding will be required to achieve a minimum score of 60% in the technical evaluation out of a possible 150 points in order to be considered for further evaluation.			
F.3.11.2	<p>The procedure for the evaluation of responsive tenders is Method 2.</p> <p>The financial offer will be scoring using Formula 2 (option 1) in Table F1 where the value of W_1 is:</p> <p>1) 90 where the financial value inclusive of VAT of all responsive tenders received have a value in excess of R 50 000 000; or</p> <p>2) 80 where the financial value inclusive of VAT of one or more responsive tender offers have a value that equals of is less than R 50 000 000.</p> <p>Up to 100 minus W_1 tender evaluation points will be awarded to tenderers who complete the preference schedule and who are found to be eligible for the preference claimed.</p>		
F.3.18	The number of paper copies of the signed contract to be provided by the Employer is one.		

T1.2.8



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

The additional conditions of Tender are:

- 1 Ba-Phalaborwa Local Municipality may also request that the Tenderer provide written evidence that his financial, labour and resources are adequate for carrying out the project.
- 2 The Ba-Phalaborwa Local Municipality reserves the right to appoint a firm of chartered accountants and auditors and / or execute any other financial investigations on the financial resources of any Tenderer. The Tenderer shall provide all reasonable assistance in such investigations.
- 3 The Ba-Phalaborwa Local Municipality reserves the right to appoint a different Contractor for each project. The Tenderer shall be required to complete the form of offer (C1.1) and the Bill of Quantities (C2.2) for each project.
- 4 The bid document shall be submitted as a whole and shall **not** be taken apart .
- 5 **List of returnable documents (PART T2) must be completed in full.** (A bidder's company profile **will not** be used by BPLM to complete PART T2 on behalf of the bidder)

NB: If PART T2 is not completed in full by the bidder, this offer will be rejected

T1.2.9

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Annex F
(Normative)
Standard Conditions of Tender

- Note: 1 These Standard Conditions of Tender are identical to that contained In Annex F of SANS 294: 2004, *Construction Procurement Processes, Procedures and Methods*.
- 2 Annex E of SANS 294, *Construction Procurement Processes, Procedures and Methods*, and SAICE's Practice Manual #1, *The use of South African National Standards in Construction Procurement* , provide guidance on referencing these Standard Conditions of Tender in procurement documents.

F.1 General

F.1.1 Actions

The employer and each tenderer submitting a tender offer shall comply with these conditions of tender. In their dealings with each other, they shall discharge their duties and obligations as set out in F.2 and F.3, timeously and with integrity, and behave equitably, honestly and transparently.

F.1.2 Tender Documents

The documents issued by the employer for the purpose of a tender offer are listed in the tender data.

F.1.3 Interpretation

F.1.3.1 The tender data and additional requirements contained in the tender schedules that are included in the returnable documents are deemed to be part of these conditions of tender.

F.1.3.2 These conditions of tender, the tender data and tender schedules which are only required for tender evaluation purposes, shall not form part of any contract arising from the invitation to tender.

F.1.3.3 For the purposes of these conditions for the calling for expressions of interest, the following definitions apply:

a) comparative offer means the tenderer's financial offer after the factors of non-firm prices, all unconditional discounts and any other tendered parameters that will affect the value of the financial offer have been taken into consideration

b) corrupt practice means the offering, giving, receiving or soliciting of anything of value to influence the action of the employer or his staff or agents in the tender process; and

c) fraudulent practice means the misrepresentation of the facts in order to influence the tender process or the award of a contract arising from a tender offer to the detriment of the employer, including collusive practices intended to establish prices at artificial levels quality (functionality) means the totality of features and characteristics of a product or service that bear on its ability to satisfy stated or implied needs

F.1.4 Communication and employer's agent

Each communication between the employer and a tenderer shall be to or from the employer's agent only, and in a form that can be read, copied and recorded. Writing shall be in the English language. The employer shall not take any responsibility for non-receipt of communications from or by a tenderer. The name and contact details of the employer's agent are stated in the tender data.

F.1.5 The employer's right to accept or reject any tender offer

F.1.5.1 The employer may accept or reject any variation, deviation, tender offer, or alternative tender offer, and may cancel the tender process and reject all tender offers at any time before the formation of a contract. The employer shall not accept or incur any liability to a tenderer for such cancellation and rejection, but will give written reasons for such action upon written request to do so.

F.1.5.2 The employer may not subsequent to the cancellation or abandonment of a tender process or the rejection of all responsive tender offers re-issue a tender covering substantially the same scope of work within a period of six months unless only one tender was received and such tender was returned unopened to the tenderer.

T1.2.10

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

F.2 Tenderer's obligations

F.2.1 Eligibility

Submit a tender offer only if the tenderer satisfies the criteria stated in the tender data and the tenderer, or any of his principals, is not under any restriction to do business with employer.

F.2.2 Cost of tendering

Accept that the employer will not compensate the tenderer for any costs incurred in the preparation and submission of a tender offer, including the costs of any testing necessary to demonstrate that aspects of the offer satisfy requirements.

F.2.3 Check documents

Check the tender documents on receipt for completeness and notify the employer of any discrepancy or omission.

F.2.4 Confidentiality and copyright of documents

Treat as confidential all matters arising in connection with the tender. Use and copy the documents issued by the employer only for the purpose of preparing and submitting a tender offer in response to the invitation.

F.2.5 Reference documents

Obtain, as necessary for submitting a tender offer, copies of the latest versions of standards, specifications, conditions of contract and other publications, which are not attached but which are incorporated into the tender documents by reference.

F.2.6 Acknowledge addenda

Acknowledge receipt of addenda to the tender documents, which the employer may issue, and if necessary apply for an extension to the closing time stated in the tender data, in order to take the addenda into account.

F.2.7 Clarification meeting

Attend, where required, a clarification meeting at which tenderers may familiarize themselves with aspects of the proposed work, services or supply and raise questions. Details of the meeting@) are stated in the tender data.

F.2.8 Seek clarification

Request clarification of the tender documents, if necessary, by notifying the employer at least five working days before the closing time stated in the tender data.

F.2.9 Insurance

Be aware that the extent of insurance to be provided by the employer (if any) might not be for the full cover required in terms of the conditions of contract identified in the contract data. The tenderer is advised to seek qualified advice regarding insurance.

F.2.10 Pricing the tender offer

F.2.10.1 Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes (except Value Added Tax (VAT), and other levies payable by the successful tenderer, such duties, taxes and levies being those applicable 14 days before the closing time stated in the tender data.

F.2.10.2 Show VAT payable by the employer separately as an addition to the tendered total of the prices.

F.2.10.3 Provide rates and prices that are fixed for the duration of the contract and not subject to adjustment except as provided for in the conditions of contract identified in the contract data

F.2.10.4 State the rates and prices in Rand unless instructed otherwise in the tender data. The conditions of contract identified in the contract data may provide for part payment in other currencies.

F.2.11 Alterations to documents

Not make any alterations or additions to the tender documents, except to comply with instructions issued by the employer, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations. Erasures and the use of masking fluid are prohibited.

T1.2.11



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

F.2.12 Alternative tender offers

F.2.12.1 Submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted. The alternative tender offer is to be submitted with the main tender offer together with a schedule that compares the requirements of the tender documents with the alternative requirements the tenderer proposes.

F.2.12.2 Accept that an alternative tender offer may be based only on the criteria stated in the tender data or criteria otherwise acceptable to the employer.

F.2.13 Submitting a tender offer

F.2.13.1 Submit a tender offer to provide the whole of the works, services or supply identified in the contract data and described in the scope of works, unless stated otherwise in the tender data.

F.2.13.2 Return all returnable documents to the employer after completing them in their entirety, either electronically (if they were issued in electronic format) or by writing in Mack ink.

F.2.13.3 Submit the parts of the tender offer communicated on paper as an original plus the number of copies stated in the tender data, with an English translation of any documentation in a language other than English, and the parts communicated electronically in the same format as they were issued by the employer.

F.2.13.4 Sign the original and all copies of the tender offer where required in terms of the tender data.

The employer will hold all authorized signatories liable on behalf of the tenderer. Signatories for tenderers proposing to contract as joint ventures shall state which of the signatories is the lead partner whom the employer shall hold liable for the purpose of the tender offer.

F.2.13.5 Seal the original and each copy of the tender offer as separate packages marking the packages as "ORIGINAL" and "COPY". Each package shall state on the outside the employer's address and identification details stated in the tender data, as well as the tenderer's name and contact address.

F.2.13.6 Where a two-envelope system is required in terms of the tender data, place and seal the returnable documents listed in the tender data in an envelope marked "financial proposal" and place the remaining returnable documents in an envelope marked "technical proposal". Each envelope shall state on the outside the employer's address and identification details stated in the tender data, as well as the tenderer's name and contact address.

F.2.13.7 Seal the original tender offer and copy packages together in an outer package that states on the outside only the employer's address and identification details as stated in the tender data.

F.2.13.8 Accept that the employer will not assume any responsibility for the misplacement or premature opening of the tender offer if the outer package is not sealed and marked as stated.

F.2.14 Information and data to be completed in all respects

Accept that tender offers, which do not provide all the data or information requested completely and in the form required, may be regarded by the employer as non-responsive.

F.2.15 Closing time

F.2.15.1 Ensure that the employer receives the tender offer at the address specified in the tender data not later than the closing time stated in the tender data. Proof of posting shall not be accepted as proof of delivery. The employer shall not accept tender offers submitted by telegraph, telex, facsimile or e-mail, unless stated otherwise in the tender data.

F.2.15.2 Accept that, if the employer extends the closing time stated in the tender data for any reason, the requirements of these conditions of tender apply equally to the extended deadline.

F.2.16 Tender offer validity

F.2.16.1 Hold the tender offer(s) valid for acceptance by the employer at any time during the validity period stated in the tender data after the closing time stated in the tender data.

T1.2.12

[Signature Box]

Contractor

[Signature Box]

Witness 1

[Signature Box]

Witness 2

[Signature Box]

Employer

[Signature Box]

Witness 1

[Signature Box]

Witness 2

F.2.16.2 If requested by the employer, consider extending the validity period stated in the tender data for an agreed additional period.

F.2.17 Clarification of tender offer after submission

Provide clarification of a tender offer in response to a request to do so from the employer during the evaluation of tender offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (Or both). No change in the competitive position of tenderers or substance of the tender offer is sought, offered, or permitted.

Note: Sub-clause F.2.17 does not preclude the negotiation of the final terms of the contract with a preferred tenderer following a competitive selection process, should the Employer elect to do so.

F.2.18 Provide other material

F.2.18.1 Provide, on request by the employer, any other material that has a bearing on the tender offer, the tenderer's commercial position (including notarized joint venture agreements), preferencing arrangements, or samples of materials, considered necessary by the employer for the purpose of a full and fair risk assessment. Should the tenderer not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in the employer's request, the employer may regard the tender offer as non-responsive.

F.2.18.2 Dispose of samples of materials provided for evaluation by the employer, where required.

F.2.19 Inspections, tests and analysis

Provide access during working hours to premises for inspections, tests and analysis as provided for in the tender data.

F.2.20 Submit securities, bonds, policies, etc.

If requested, submit for the employer's acceptance before formation of the contract, all securities, bonds, guarantees, policies and certificates of insurance required in terms of the conditions of contract identified in the contract data.

F.2.21 Check final draft

Check the final draft of the contract provided by the employer within the time available for the employer to issue the contract.

F.2.22 Return of other tender documents

If so instructed by the employer, return all retained tender documents within 28 days after the expiry of the validity period stated in the tender data

F.2.23 Certificates

Include in the tender submission or provide the employer with any certificates as stated in the tender data.

F.3 The employer's undertakings

F.3.1 Respond to clarification

Respond to a request for clarification received up to five working days before the tender closing time stated in the Tender Data and notify all tenderers who drew procurement documents.

F.3.2 Issue Addenda

If necessary, issue addenda that may amend or amplify the tender documents to each tenderer during the period from the date that tender documents are available until seven days before the tender closing time stated in the Tender Data. If, as a result a tenderer applies for an extension to the closing time stated in the Tender Data, the Employer may grant such extension and, shall then notify all tenderers who drew documents.

F.3.3 Return late tender offers

Return tender offers received after the closing time stated in the Tender Data, unopened, (unless it is necessary to open a tender submission to obtain a forwarding address), to the tenderer concerned.

T1.2.13

[Signature Box]

Contractor

[Signature Box]

Witness 1

[Signature Box]

Witness 2

[Signature Box]

Employer

[Signature Box]

Witness 1

[Signature Box]

Witness 2

F.3.4 Opening of tender submissions

F.3.4.1 Unless the two-envelope system is to be followed, open valid tender submissions in the presence of tenderers' agents who choose to attend at the time and place stated in the tender data. Tender submissions for which acceptable reasons for withdrawal have been submitted will not be opened.

F.3.4.2 Announce at the meeting held immediately after the opening of tender submissions, at a venue indicated in the tender data, the name of each tenderer whose tender offer is opened, the total of his prices, preferences claimed and time for completion, if any, for the main tender offer only.

F.3.4.3 Make available the record outlined in F.3.4.2 to all interested persons upon request.

F.3.5 Two-envelope system

F.3.5.1 Where stated in the tender data that a two-envelope system is to be followed, open Only the technical proposal of valid tenders in the presence of tenderers' agents who choose to attend at the time and place stated in the tender data and announce the name of each tenderer whose technical proposal is opened.

F.3.5.2 Evaluate the quality of the technical proposals offered by tenderers, then advice tenderers who remain in contention for the award of the contract of the time and place when the financial proposals will be opened. Open only the financial proposals of tenderers, who score in the quality evaluation more than the minimum number of points for quality stated in the tender data, and announce the score obtained for the technical proposals and the total price and any preferences claimed. Return unopened financial proposals to tenderers whose technical proposals failed to achieve the minimum number of points for quality.

F.3.6 Nondisclosure

Not disclose to tenderers, or to any other person not officially concerned with such processes, information relating to the evaluation and comparison of tender offers, the final evaluation price and recommendations for the award of a contract, until after the award of the contract to the successful tenderer.

F.3.7 Grounds for rejection and disqualification

Determine whether there has been any effort by a tenderer to influence the processing of tender offers and instantly disqualify a tenderer (and his tender offer) if it is established that he engaged in corrupt or fraudulent practices.

F.3.8 Test for responsiveness

F.3.8.1 Determine, after opening and before detailed evaluation, whether each tender offer properly received:

- a) complies with the requirements of these Conditions of Tender,
- b) has been properly and fully completed and signed, and
- c) is responsive to the other requirements of the tender documents.

F.3.8.2 A responsive tender is one that conforms to all the terms, conditions, and specifications of the tender documents without material deviation or qualification. A material deviation or qualification is one which, in the Employer's opinion, would:

- a) detrimentally 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.

Reject a non-responsive tender offer, and not allow it to be subsequently made responsive by correction or withdrawal of the non-conforming deviation or reservation.

T1.2.14

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

F.3.9 Arithmetical errors

F.3.9.1 Check responsive tender offers for arithmetical errors, correcting them in the following manner:

- a) Where there is a discrepancy between the amounts in figures and in words, the amount in figures shall govern.
- b) If bills of quantities (or schedule of quantities or schedule of rates) apply and there is an error in the line item total resulting from the product of the unit rate and the quantity, the line item total shall govern and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line item total as quoted shall govern, and the unit rate shall be corrected.
- c) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern and the tenderer will be asked to revise selected item prices (and their rates if bills of quantities apply) to achieve the tendered total of the prices.

F.3.9.2 Consider the rejection of a tender offer if the tenderer does not correct or accept the correction of his arithmetical errors in the manner described in F.3.9.1.

F.3.10 Clarification of a tender offer

Obtain clarification from a tenderer on any matter that could give rise to ambiguity in a contract arising from the tender offer.

F.3.11 Evaluation of tender offers

F.3.11.1 General

Appoint an evaluation panel of not less than three persons. Reduce each responsive tender offer to a comparative offer and evaluate it using the tender evaluation method that is indicated in the Tender Data and described below:

Method 1 : Financial offer	1) Rank tender offers from the most favourable to the least favourable comparative offer. 2) Recommend highest ranked tenderer for the award of the contract, unless there are compelling and justifiable reasons not to do so.
Method 2 : Financial offer and preferences	1) Score tender evaluation points for financial offer. 2) Confirm that tenderers are eligible for the preferences claimed and if so, score tender evaluation points for preferencing. 3) Calculate total tender evaluation points. 4) Rank tender offers from the highest number of tender evaluation points to the lowest. [5) Recommend tenderer with the highest number of tender evaluation points for the award of the contract, unless there are compelling and justifiable reasons not to do so.
Method 3 : Financial offer and quality	1) Score quality, rejecting all tender offers that fail to score the minimum number of points for quality stated in the Tender data. 2) Score tender evaluation points for financial offer. 3) Calculate total tender evaluation points. 4) Rank tender offers from the highest number of tender evaluation points to the lowest. 5) Recommend tenderer with the highest number of tender evaluation points for the award of the contract, unless there are compelling and justifiable reasons not to do so.
Method 4 : Financial offer, quality and preferences	1) Score quality, rejecting all tender offers that fail to score the minimum number of points for quality stated in the Tender data. 2) Score tender evaluation points for financial offer. 3) Confirm that tenderers are eligible for the preferences claimed, and if so, score tender evaluation points for preferencing. 4) Calculate total tender evaluation points. 5) Rank tender offers from the highest number of tender evaluation points to the lowest. 6) Recommend tenderer with the highest number of tender evaluation points for the award of the contract, unless there are compelling and justifiable reasons not to do so.

Score financial offers, preferences and quality, as relevant, to two decimal places.

T1.2.15

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

F.3.11.2 Scoring Financial Offers

Score the financial offers of remaining responsive tender offers using the following formula:

N_{FO}	= $W_1 \times A$ where:		
N_{FO}	= the number of tender evaluation points awarded for the financial offer.		
W_1	= the maximum possible number of tender evaluation points awarded for the financial offer as stated in the Tender Data.		
A	= a number calculated using either formulas 1 or 2 below as stated in the Tender Data.		
Formula	Comparison aimed at achieving	Option 1	Option 2
1	Highest price or discount	$A = (1 + \frac{(P - P_m)}{P_m})$	$A = P / P_m$
2	Lowest price or percentage commission/fee	$A = (1 - \frac{(P - P_m)}{P_m})$	$A = P_m / P$

where:

P_m = the comparative offer of the most favourable tender offer.

P = the comparative offer of tender offer under consideration.

F.3.11.3 Scoring for B-BBEE

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

F.3.12 Insurance provided by the employer

If requested by the proposed successful tenderer, submit for the tenderer's information the policies and / or certificates of insurance which the conditions of contract identified in the contract data, require the employer to provide.

F.3.13 Acceptance of tender offer

F.3.13.1 Accept tender offer only if the tenderer complies with the legal requirements stated in the Tender Data.

F.3.13.2 Notify the successful tenderer of the employer's acceptance of his tender offer by completing and returning one copy of the form of offer and acceptance before the expiry of the validity period stated in the tender data, or agreed additional period. Providing the form of offer and acceptance does not contain any qualifying statements, it will constitute the formation of a contract between the employer and the successful tenderer as described in the form of offer and acceptance.

T1.2.16

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

F.3.14 Notice to unsuccessful tenderers

After the successful tenderer has acknowledged the employer's notice Of acceptance, notify other tenderers that their tender offers have not been accepted.

F.3.15. Prepare contract documents

If necessary, revise documents that shall form part of the contract and that were issued by the employer as part of the tender documents to take account of:

- a) addenda issued during the tender period,
- b) inclusion of some of the returnable documents,
- c) other revisions agreed between the employer and the successful tenderer, and
- d) the schedule of deviations attached to the form of offer and acceptance, if any.

F.3.16 Issue final contract

Prepare and issue the final draft of contract documents to the successful tenderer for acceptance as soon as possible after the date of the employer's signing of the form of Offer and acceptance (including the schedule of deviations, if any). Only those documents that the conditions of tender require the tenderer to submit, after acceptance by the employer, shall be included.

F.3.17 Complete adjudicator's contract

Unless alternative arrangements have been agreed or otherwise provided for in the contract, arrange for both patties to complete formalities for appointing the selected adjudicator at the same time as the main contract is signed.

F.3.18 Provide copies of the contracts

Provide to the successful tenderer the number of copies stated in the Tender Data of the signed copy of the contract as soon as possible after completion and signing of the form of offer and acceptance.

T1.2.17

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA LOCAL MUNICIPALITY



CONTRACT NO. 07/20/21

REFURBISHMENT OF NAMAKGALE SPORT STADIUM

T2.1 LIST OF RETURNABLE DOCUMENTS

The Tenderer must complete the following returnable Schedules:

Returnable Schedules required for Tender evaluation purposes

Form A	Compulsory Enterprise Questionnaire
Form B	Invitation To Bid – MBD 1
Form C	Tax Clearance Certificate – MBD 2
Form D	Record of Addenda to Tender Documents
Form E	MBD 4
Form F	MBD 5
Form G	MBD 6.1
Form H	MBD 6.2
Form I	MBD 8
Form J	MBD 9
Form K	Authority for Signatory
Form L	Schedule of Previous Experience
Form M	Schedule of Current Projects
Form N	Municipal Rates and Taxes
Form O	Proposed Key Personnel
Form P	Schedule of Plant and Equipment
Form Q	Schedule of Proposed Sub-Contractors
Form R	RDP 8 (E) Employment of SMME'S
Form S	Financial References
Form T	Contractor's Establishment on Site

Returnable Documents that will be incorporated into the contract

C1.1	Offer Portion of Form of Offer and Acceptance
C1.2	Contract Data
C1.3	Form of Guarantee
C1.4	Agreement in terms of the Mine Health and Safety Act.
C1.5	Appointment in Terms of Section 3(1) of the mine Health and Safety Act.
C1.6	Agreement in Terms of OHS
C1.7	Certification of Authority for Signatory to agreement in terms of OHS Act.
C2.2	Bill of Quantities

T2.1.1

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA LOCAL MUNICIPALITY



CONTRACT NO. 07/20/21

REFURBISHMENT OF NAMAKGALE STADIUM

T2.2 RETURNABLE DOCUMENTS

RETURNABLE DOCUMENTS REQUIRED FOR TENDER EVALUATION PURPOSES

FORM A : COMPULSORY ENTERPRISE QUESTIONNAIRE

In the case of a Joint Venture – This questionnaire is to be completed and submitted in respect of each partner.

1. **Name of Enterprise:**
2. **VAT Registration number, if any:**
3. **CIDB Registration number:**
4. **Particulars of sole proprietors and partners in partnership:**

Name	Identity Number	Personal Income Tax Number

* Complete only if sole proprietor or partnership and attach separate page if more than 4 partners.

5. **Particulars of companies and close corporations:**

Company Registration Number:

Close Corporation Number:

Tax reference Number:

T2.2.1

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

6. Record in the service of the state:

Indicate by marking the relevant boxes with a cross, if any sole proprietor, partner in a partnership of director, manager, principal stakeholder or stakeholder in a company or close corporation is currently of has been within the last 12 months in the service of any of the following:

- a member of any municipal council
- a member of any provincial legislature
- a member of the National Assembly or the National Council of Province
- a member of the board of Directors of any Municipal entity
- an official of any municipality or municipal entity
- an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999)
- a member of an accounting authority of any national or provincial public entity
- an employee of Parliament or a provincial legislature

If any of the above boxes are marked, disclose the following information:

Name of sole proprietor, partner, director, manager or principal stakeholder or stakeholder	Name of Institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within the last 12 months

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

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

Tenderer.....

T2.2.2

Contractor Witness 1 Witness 2 Employer Witness 1 Witness 2

FORM B: INVITATION TO BID

MBD 1

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE BA-PHALABORWA LOCAL MUNICIPALITY

BID NUMBER: CLOSING DATE: CLOSING TIME:

DESCRIPTION.....

The successful bidder will be required to fill in and sign a written Contract Form (MBD 7).

BID DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT:

Cnr Nelson Mandela & Sealane Street
Phalaborwa
1390

Bidders should ensure that bids are delivered timeously to the correct address inside the relevant bid box. If the bid is late or not inside the correct bid box, it will not be accepted for consideration.

- (b) The bid box is generally open 24 hours a day, 7 days a week.
- (c) ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS – (NOT TO BE RE-TYPED)

THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2011, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT

(d) NB: NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE (as defined in Regulation 1 of the Local Government: Municipal Supply Chain Management Regulations)

T2.2.3

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

THE FOLLOWING PARTICULARS MUST BE FURNISHED
(FAILURE TO DO SO MAY RESULT IN YOUR BID BEING DISQUALIFIED)

NAME OF BIDDER

POSTAL ADDRESS

STREET ADDRESS

TELEPHONE NUMBER CODE.....NUMBER.....

CELLPHONE NUMBER

FACSIMILE NUMBER CODE NUMBER.....

E-MAIL ADDRESS

VAT REGISTRATION NUMBER

HAS AN ORIGINAL AND VALID TAX CLEARANCE CERTIFICATE BEEN ATTACHED? (MBD 2) YES/NO

HAS A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE BEEN SUBMITTED? (MBD 6.1) YES/NO

IF YES, WHO WAS THE CERTIFICATE ISSUED BY?

AN ACCOUNTING OFFICER AS CONTEMPLATED IN THE CLOSE CORPORATION ACT (CCA)

A VERIFICATION AGENCY ACCREDITED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM (SANAS)

A REGISTERED AUDITOR

(Tick applicable box)

(A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE)

ARE YOU THE ACCREDITED REPRESENTATIVE
IN SOUTH AFRICA FOR THE GOODS/SERVICES/WORKS OFFERED?

YES/NO
(IF YES ENCLOSE PROOF)

SIGNATURE OF BIDDER

DATE

CAPACITY UNDER WHICH THIS BID IS SIGNED

TOTAL BID PRICE..... TOTAL NUMBER OF ITEMS OFFERED.....

T2.2.4

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

FORM C: TAX CLEARANCE CERTIFICATE

MBD 2

TAX CLEARANCE CERTIFICATE

It is a condition of bid that the taxes of the successful bidder must be in order, or that satisfactory arrangements have been made with South African Revenue Service (SARS) to meet the bidder's tax obligations.

1. In order to meet this requirement bidders are required to complete in full form TCC001 "Application for a Tax Clearance Certificate" and submit it to any SARS branch office nationally. The Tax Clearance Certificate Requirements are also applicable to foreign bidders / individuals who wish to submit bids. Copies of form TCC 001 are available from any SARS branch office nationally or on the website www.sars.gov.za.
2. SARS will then furnish the bidder with a Tax Clearance Certificate that will be valid for a period of 1 (one) year from the date of approval.
3. The original Tax Clearance Certificate must be submitted together with the bid. Failure to submit the original and valid Tax Clearance Certificate will result in the invalidation of the bid. Certified copies of the Tax Clearance Certificate will not be acceptable.
4. In bids where Consortia / Joint Ventures / Sub-contractors are involved, each party must submit a separate Tax Clearance Certificate.
5. Applications for the Tax Clearance Certificates may also be made via eFiling. In order to use this provision, taxpayers will need to register with SARS as eFilers through the website www.sars.gov.za.
6. Exemption to the provision of a Tax Clearance Certificate will be granted provided that:
 - a) The bidder is registered on the vendor database of the municipality and a valid tax clearance certificate was submitted together with the application for registration
 - b) If the closing date of the price quotation or bid falls within the expiry date of the tax clearance certificate that is in the municipality's possession.

T2.2.5

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

FORM E: MBD 4

DECLARATION OF INTEREST

MBD4

1. No bid will be accepted from persons in the service of the state¹.
2. Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favoritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority and/or take an oath declaring his/her interest.

3. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid. Also select the applicable answers

3.1 Full Name of bidder or his or her representative:

.....

3.2 Identity Number:

3.3 Position occupied in the Company (director, trustee, shareholder²).....

.....

3.4 Company Registration Number:

3.5 Tax Reference Number:

3.6 VAT Registration Number:

3.7 The names of all directors / trustees / shareholders members, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below.

3.8 Are you presently in the service of the state*

3.8.1 If yes, furnish particulars.

.....

.....

¹MSCM Regulations: "in the service of the state" means to be –

- (a) a member of –
 - (i) any municipal council;
 - (ii) any provincial legislature; or
 - (iii) the national Assembly or the national Council of provinces;

- (b) a member of the board of directors of any municipal entity;
- (c) an official of any municipality or municipal entity;
- (d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999);
- (e) a member of the accounting authority of any national or provincial public entity; or
- (f) an employee of Parliament or a provincial legislature.

MBD4

T2.2.7

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

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

3.9 Have you been in the service of the state for the past twelve months? **YES / NO**

3.9.1 If yes, furnish particulars

.....
.....

3.10 Do you, have any relationship (family, friend, other) with person in the service of the state and who may be involved with the evaluation and or adjudication of this bid? **YES / NO**

3.10.1 If yes, furnish particulars

.....
.....

3.11 Are you, aware of any relationship (family, friend, other) between bidder and any persons in the service of the state who may be involved with the evaluation and adjudication of this bid? **YES / NO**

3.11.1 If yes, furnish particulars

.....
.....

3.12 Are any of the company’s directors, managers, principle shareholders or stakeholders in service of the state? **YES / NO**

3.12.1 If yes, furnish particulars

.....
.....

3.13 Are any spouse, child or parent of the company’s directors, trustees, managers, principle shareholders or stakeholders in service of the state? **YES / NO**

3.13.1 If yes, furnish particulars

.....
.....

3.14 Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other companies or business whether or not they are bidding for this contract? **YES / NO**

3.14.1 If yes furnish particulars:

.....
.....

MBD4

T2.2.8

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Full details of directors / trustees / members / shareholders.

Full Name	Identity Number	Employee Number

CERTIFICATION

I, THE UNDERSIGNED

(NAME)

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

I ACCEPT THAT THE STATE MAY ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
 Signature

.....
 Date

.....
 Capacity

.....
 Name of Bidder

T2.2.9

[Signature Box]
 Contractor

[Signature Box]
 Witness 1

[Signature Box]
 Witness 2

[Signature Box]
 Employer

[Signature Box]
 Witness 1

[Signature Box]
 Witness 2

FORM F: MBD 5

MBD 5

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

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

- 1 Are you by law required to prepare annual financial statements for auditing? ***YES / NO**

- 1.1 If yes, submit audited annual financial statements for the past three years or since the date of establishment if established during the past three years. ***YES / NO**
.....
.....

- 2 Do you have any outstanding undisputed commitments for municipal services towards any municipality for more than three months or any other service provider in respect of which payment is overdue for more than 30 days? ***YES / NO**

- 2.1 If no, this serves to certify that the bidder has no undisputed commitments for municipal services towards any municipality for more than three months or other service provider in respect of which payment is overdue for more than 30 days. ***YES / NO**

- 2.2 If yes, provide particulars.
.....
.....
.....
.....

- 3 Has any contract been awarded to you by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract? ***YES / NO**

- 3.1 If yes, furnish particulars
.....
.....

* Delete if not applicable

T2.2.10

					
Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

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

4.1 If yes, furnish particulars

.....
.....

CERTIFICATION

I, THE UNDERSIGNED (NAME)CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS CORRECT.

I ACCEPT THAT THE STATE MAY ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

T2.2.11

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

FORM G: MBD 6.1

MBD 6.1

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIALPROCUREMENT REGULATIONS 2011

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

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

1. GENERAL CONDITIONS

- 1.1 The following preference point systems are applicable to all bids:
- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
 - the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).
- 1.2 The value of this bid is estimated to not exceed R50 000 000 (all applicable taxes included) and therefore the 80/20 preference point system shall be applicable; or
- 1.3 Points for this bid shall be awarded for:
- (a) Price; and
 - (b) B-BBEE Status Level of Contributor.
- 1.4 The maximum points for this bid are allocated as follows:

	POINTS
PRICE	80
B-BBEE STATUS LEVEL OF CONTRIBUTOR	20
Total points for Price and B-BBEE must not exceed	100

- 1.5 Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.
- 1.6 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

2. DEFINITIONS

- a) "B-BBEE" means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- b) "B-BBEE status level of contributor" means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;

T2.2.12

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

MBD 6.1

5. BID DECLARATION

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

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

6.1 B-BBEE Status Level of Contributor: =(maximum of 10 or 20 points)
 (Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

7. SUB-CONTRACTING

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

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

7.1.1 If yes, indicate:

- i) What percentage of the contract will be subcontracted.....%
- ii) The name of the sub-contractor.....
- iii) The B-BBEE status level of the sub-contractor.....
- iv) Whether the sub-contractor is an EME or QSE

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

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

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

8. DECLARATION WITH REGARD TO COMPANY/FIRM

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

8.2 VAT registration number :.....

8.3 Company registration number :.....

T2.2.14

<div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>
Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

MBD 6.1

8.4 TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
- One person business/sole propriety
- Close corporation
- Company
- (Pty) Limited

[TICK APPLICABLE BOX]

8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

.....

.....

8.6 COMPANY CLASSIFICATION

- Manufacturer
- Supplier
- Professional service provider
- Other service providers, e.g. transporter, etc.

[TICK APPLICABLE BOX]

8.7 MUNICIPAL INFORMATION

Municipality where business is situated.....

Registered Account Number

Stand Number

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

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

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –

- (a) disqualify the person from the bidding process;
- (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
- (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;

T2.2.15

[Signature Box]

Contractor

[Signature Box]

Witness 1

[Signature Box]

Witness 2

[Signature Box]

Employer

[Signature Box]

Witness 1

[Signature Box]

Witness 2

- (d) recommend that the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
- (e) forward the matter for criminal prosecution.

<p>WITNESSES</p> <p>1.</p> <p>2.</p>
--

<p>..... SIGNATURE(S) OF BIDDERS(S)</p> <p>DATE:</p> <p>ADDRESS</p> <p>.....</p> <p>.....</p>

T2.2.16

--

Contractor

--

Witness 1

--

Witness 2

--

Employer

--

Witness 1

--

Witness 2

FORM H: MBD 6.2

MBD 6.2

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT

This Municipal Bidding Document (MBD) must form part of all bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2011 and the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:201x.

1. General Conditions

- 1.1. Preferential Procurement Regulations, 2011 (Regulation 9.(1) and 9.(3) make provision for the promotion of local production and content.
- 1.2. Regulation 9.(1) prescribes that in the case of designated sectors, where in the award of bids local production and content is of critical importance, such bids must be advertised with the specific bidding condition that only locally produced goods, services or works or locally manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Regulation 9.(3) prescribes that where there is no designated sector, a specific bidding condition may be included, that only locally produced services, works or goods or locally manufactured goods with a stipulated minimum threshold for local production and content, will be considered.
- 1.4. Where necessary, for bids referred to in paragraphs 1.2 and 1.3 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.5. A person awarded a contract in relation to a designated sector, may not subcontract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.6. The local content (LC) as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 201x as follows:

$$LC = 1 - \left[\frac{x}{y} \right] \times 100$$

Where

- x imported content
y bid price excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by the South African Reserve Bank (SARB) at 12:00 on the date, one week (7 calendar days) prior to the closing date of the bid as required in paragraph 4.1 below.

1.7. A bid will be disqualified if:

- the bidder fails to achieve the stipulated minimum threshold for local production and content indicated in paragraph 3 below; and
- this declaration certificate is not submitted as part of the bid documentation.

T2.2.17

[Signature box for Contractor]

Contractor

[Signature box for Witness 1]

Witness 1

[Signature box for Witness 2]

Witness 2

[Signature box for Employer]

Employer

[Signature box for Witness 1]

Witness 1

[Signature box for Witness 2]

Witness 2

MBD 6.2

2. Definitions

- 2.1. **“bid”** includes advertised competitive bids, written price quotations or proposals;
- 2.2. **“bid price”** price offered by the bidder, excluding value added tax (VAT);
- 2.3. **“contract”** means the agreement that results from the acceptance of a bid by an organ of state;
- 2.4. **“designated sector”** means a sector, sub-sector or industry that has been designated by the Department of Trade and Industry in line with national development and industrial policies for local production, where only locally produced services, works or goods or locally manufactured goods meet the stipulated minimum threshold for local production and content;
- 2.5. **“duly sign”** means a Declaration Certificate for Local Content that has been signed by the Chief Financial Officer or other legally responsible person nominated in writing by the Chief Executive, or senior member / person with management responsibility(close corporation, partnership or individual).
- 2.6. **“imported content”** means that portion of the bid price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or its subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs, such as landing costs, dock duties, import duty, sales duty or other similar tax or duty at the South African port of entry;
- 2.7. **“local content”** means that portion of the bid price which is not included in the imported content, provided that local manufacture does take place;
- 2.8. **“stipulated minimum threshold”** means that portion of local production and content as determined by the Department of Trade and Industry; and
- 2.9. **“sub-contract”** means the primary contractor’s assigning, leasing, making out work to, or employing another person to support such primary contractor in the execution of part of a project in terms of the contract.
3. **The stipulated minimum threshold(s) for local production and content for this bid is/are as follows:**

(a) Description of services, works or goods Stipulated minimum threshold

_____	_____ %
_____	_____ %
_____	_____ %

4. Does any portion of the services, works or goods offered have any imported content? YES / NO

- 4.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.6 of the general conditions must be the rate(s) published by the SARB for the specific currency at 12:00 on the date, one week (7 calendar days) prior to the closing date of the bid.

The relevant rates of exchange information is accessible on www.reservebank.co.za.

T2.2.18

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

MBD 6.2

Indicate the rate(s) of exchange against the appropriate currency in the table below:

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Bidders must submit proof of the SARB rate (s) of exchange used.

**LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER
 LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF
 EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT
 RESPONSIBILITY
 (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)**

IN RESPECT OF BID No.

ISSUED BY: (Procurement Authority / Name of Municipality / Municipal Entity):

NB The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.

I, the undersigned, (full names), do hereby declare, in my capacity as
 of(name of bidder entity), the following:

The facts contained herein are within my own personal knowledge.

I have satisfied myself that the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286.

The local content has been calculated using the formula given in clause 3 of SATS 1286, the rates of exchange indicated in paragraph 4.1 above and the following figures:

Bid price, excluding VAT (y)	R
Imported content (x)	R
Stipulated minimum threshold for Local content (paragraph 3 above)	
Local content % as calculated in terms of SATS 1286	

If the bid is for more than one product, a schedule of the local content by product shall be attached.

T2.2.19

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

(d) I accept that the Procurement Authority / Municipality /Municipal Entity has the right to request that the local content be verified in terms of the requirements of SATS 1286.

(e) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286, may result in the Procurement Authority / Municipal / Municipal Entity imposing any or all of the remedies as provided for in Regulation 13 of the Preferential Procurement Regulations, 2011 promulgated under the Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

SIGNATURE: _____

DATE: _____

WITNESS No. 1 _____

DATE: _____

WITNESS No. 2 _____

DATE: _____

T2.2.20

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

FORM I: MBD 8

MBD 8

DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

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

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

T2.2.21

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

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

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME)

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

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

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

T2.2.22

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

FORM J: MBD 9

MBD 9

CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 1 This Standard Bidding Document (MBD) must form part of all bids¹ invited.
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
- 3 Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorizes accounting officers and accounting authorities to:
 - a. disregard the bid of any bidder if that bidder, or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct in relation to such system.
 - b. cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract.
- 4 This SBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
- 5 In order to give effect to the above, the attached Certificate of Bid Determination (SBD 9) must be completed and submitted with the bid:

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

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

T2.2.23

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid: **CONTRACT NO. 07/20/21. – REFURBISHMENT OF NAMA KGALE STADIUM.**

(Bid Number and Description)

in response to the invitation for the bid made by:

BA-PHALABORWA LOCAL MUNICIPALITY

(Name of Institution)

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

I certify, on behalf of: _____ that:

(Name of Bidder)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word “competitor” shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) has been requested to submit a bid in response to this bid invitation;
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder

T2.2.24

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

MBD 9

6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation)
 - (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit, a bid;
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
 - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

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

T2.2.25

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

MBD 9

10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

T2.2.26

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

FORM K: AUTHORITY OF SIGNATORY

Notes to tenderer:

1. The signatory for the tenderer shall confirm his/her authority thereto by attaching on the tendering company's letterhead a duly signed and dated copy of the relevant resolution of the board of directors/partners.
2. In the event that the tenderer is a joint venture, a certificate is required from each member of the joint venture clearly setting out:
 - authority for signatory,
 - undertaking to formally enter into a joint venture contract should an award be made to the joint venture,
 - name of designated lead member of the intended joint venture, as required by tender condition F.2.13.4.
3. The resolution below is given as an example of an acceptable format for authorisation, but submission of this page with the example completed shall not be accepted as authorisation of the tenderer's signatory.

Details of person responsible for tender process:

Name :

Contact number :

Office address :

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

FOR COMPANIES AND CLOSE CORPORATIONS:

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

Mr

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

(BLOCK CAPTIALS)

SIGNED ON BEHALF OF THE COMPANY

IN HIS CAPACITY AS

DATE

T2.2.27

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

FULL NAMES OF SIGNATORY

AS WITNESSES: 1.
 2.

FOR JOINT VENTURES:

Certificate of Authority for Joint Ventures

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorise Mr/Ms, authorised signatory of the company, acting in the capacity of lead partner, to sign all documents in connection with the tender offer an any contract resulting from it on our behalf.

NAME OF FIRM	ADDRESS	DULY AUTHORISED SIGNATORY
Lead Partner: CIDB Reg No:		Signature: Name: Designation:
 CIDB Reg No:		Signature: Name: Designation:
 CIDB Reg No:		Signature: Name: Designation:
 CIDB Reg No:		Signature: Name: Designation:
 CIDB Reg No:		Signature: Name: Designation:

T2.2.28

<i>Contractor</i>	<i>Witness 1</i>	<i>Witness 2</i>	<i>Employer</i>	<i>Witness 1</i>	<i>Witness 2</i>

FORM N: MUNICIPAL RATES AND TAXES

FORM H. DECLARATION WITH REGARDS TO MUNICIPAL SERVICES, RATES AND TAXES

I _____ the undersigned, declare on

behalf of (Name of Bidder) _____ that; the bidder and (or) any of its director(s) does not owe any municipal services, rates and taxes to the municipality or any other municipality or municipal entity any amount which could be in arrears for an period for a period more than three months.

In the event that this declaration is found to be false, the bid will be rejected and found to be nonresponsive.

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

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

Tenderer.....

N.B: TENDERER TO SUBMIT A COPY OF A MUNICIPAL ACCOUNT OF THE COMPANY AND/OR THAT OF ITS DIRECTOR NOT IN ARREARS AND NOT OLDER THAN THREE (03) MONTHS;

OR

IN THE EVENT THAT THE BIDDER IS LEASING, A LEASE AGREEMENT ALONG WITH THE SERVICES ACCOUNT OF THE LEASED PROPERTY SHOULD BE ATTACHED; OR A CONFIRMATION LETTER OR CLEARANCE FROM THE LOCAL MUNICIPALITY THAT MUNICIPAL SERVICES ARE NOT CHARGED/LEVIED.

(FAILURE TO DO SO WILL LEAD TO DISQUALIFICATION OF THE BID)

T2.2.31

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

FORM O: PROPOSED KEY PERSONNEL

Please list the personnel that you intend to appoint on this contract.

DESCRIPTION	<u>Name</u> of Full time member	Staff to be appointed on this contract	
		No of Full Time employment	No of Part Time employment
Contract Manager			
Site Agent			
Clerk			
Foreman			
Material Technician			
Surveyor			
Operators			
Supervisor			
Labourers			
Other			
2.			
3.			
4.			
5.			

➤ Organogram must be attached as per evaluation criteria.

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

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

Tenderer.....

T2.2.32

Contractor Witness 1 Witness 2 Employer Witness 1 Witness 2

FORM R: RDP 8 (E) EMPLOYMENT OF SMME'S

It is a requirement of this contract that participation in the contract must be granted to local SMME companies. Local is defined as "having their head office within the BPLM boundaries" . **The minimum target for participation is thirty percent (30%)** of the total contract value and this can be achieved through one or more sub-contractors. BPLM reserves the right to **apply penalties to the value of 50% of the difference between the set target values and the actual values achieved when the contractor does not honour the commitment as stipulated by the contractor on this page**

ONLY SMME subcontractors/suppliers should be employed to do the work listed in the table below. For other subcontractors, refer to Form L SCHEDULE OF PROPOSED SUBCONTRACTORS (30%).

We notify you that it is our intention to employ subcontractors for work in this contract to comply with the stipulated 30% requirement .		
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.		
Item No.	Description of Work to be executed by SMME Subcontractors	Value of the work
1.		R
2.		R
3.		R
4.		R
5.		R
Total value of work committed to SMME companies		R
Percentage of total contract value		%

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

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

Tenderer.....

T2.2.35

<i>Contractor</i>	<i>Witness 1</i>	<i>Witness 2</i>	<i>Employer</i>	<i>Witness 1</i>	<i>Witness 2</i>

FORM S: FINANCIAL REFERENCES

DETAILS OF TENDERERS BANKING INFORMATION

I/We hereby authorise the Client/Engineer to approach all or any of the following banks for the purposes of obtaining a financial reference:

BANK NAME:									
ACCOUNT NAME: (e.g. ABC Civil Construction cc)									
ACCOUNT TYPE: (e.g. Savings, Cheque etc)									
ACCOUNT NO:									
ADDRESS OF BANK:									
CONTACT PERSON:									
TEL. NO. OF BANK / CONTACT:									
BANK RATING									
How long has this account been in existence:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">0-6 months</td> <td style="width: 30px; text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;">7-12 months</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;">13-24 months</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;">More than 24 months</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table> (Tick which is appropriate)	0-6 months	<input type="checkbox"/>	7-12 months	<input type="checkbox"/>	13-24 months	<input type="checkbox"/>	More than 24 months	<input type="checkbox"/>
0-6 months	<input type="checkbox"/>								
7-12 months	<input type="checkbox"/>								
13-24 months	<input type="checkbox"/>								
More than 24 months	<input type="checkbox"/>								

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

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

Tenderer.....

T2.2.36

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

FORM T: CONTRACTOR'S ESTABLISHMENT ON SITE

Note to Tenderer:

If the tenderer should require additional compensation for his obligations under section 1300 (over and above the total tendered for item B13.01) by including such additional compensation in the tendered rates and/or lump sum of items in the pricing schedule, these items and the value of such additional compensation shall also be set out in a letter attached to this form.

Should the combined, extended total tendered for Item B13.01 The contractor's general obligations:

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

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

The employer will duly consider these reasons but reserves the right to consider the tendered rates to be imbalanced and to deal with them in terms of Conditions of Tender F.3.9 contained in this volume.

Total tendered for Item B13.01 expressed as a percentage of the tender sum (Excluding Contingencies, Escalation and VAT)

.....%

T2.2.37

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA LOCAL MUNICIPALITY



CONTRACT NO. 07/20/21

REFURBISHMENT OF NAMAKGALE SPORT STADIUM

C. THE CONTRACT

Part C1: Agreements and Contract Data

- C1.1 Form of Offer and Acceptance
- C1.2 Contract Data
- C1.3 Form of Guarantee
- C1.4 Agreement in terms of the Mine Health and Safety Act.
- C1.5 Appointment in Terms of Section 3(1) of the mine Health and Safety Act.
- C1.6 Agreement in Terms of OHS
- C1.7 Certification of Authority for Signatory to agreement in terms of OHS Act.

Part C2: Pricing Data

- C2.1 Pricing Instructions
- C2.2 Bills of quantities

Part C3: Scope of Work

- C3.1 Scope of Work
- C3.2 EPWP Ministerial Determination
- C3.3 EPWP Guideline

Part C4: Site Information

- C4 Site Information

Part C5: Book of Drawings

		C1			
<input type="text"/>					
Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

BA-PHALABORWA LOCAL MUNICIPALITY



CONTRACT NO. 07/20/21

REFURBISHMENT OF NAMAKGALE STADIUM

C1 AGREEMENTS AND CONTRACT DATA

- C1.1 Form of Offer and Acceptance
- C1.2 Contract Data
- C1.3 Form of Guarantee
- C1.4 Agreement in terms of the Mine Health and Safety Act.
- C1.5 Appointment in Terms of Section 3(1) of the mine Health and Safety Act.
- C1.6 Agreement in Terms of OHS
- C1.7 Certification of Authority for Signatory to agreement in terms of OHS Act.

C1.1

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C1.1 FORM OF OFFER AND ACCEPTANCE

This document formalises the legal process of offer and acceptance. It contains:

- a) the offer to provide the engineering and construction works for a price, or in accordance with the terms of the financial proposal made;
- b) confirmation from the employer that he accepts the tender offer following his tender evaluation, and that a contract therefore exists; and
- c) a schedule of deviations, which records any, agreed changes to the documentation that may occur during the process 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: **CONTRACT NO. 07/20/21 – Refurbishment of Namakgale Stadium...**

The Tenderer, identified in the Offer signature block, has examined the documents listed in the Tender Data and Addenda thereto as listed in the Returnable 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.

REFURBISHMENT OF NAMAKGALE STADIUM

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

.....

.....Rand (in words); R
(In figures)

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

Signature(s)

.....

Name(s)

.....

Capacity

.....

for the tenderer

.....

(Name and address of organization)

C1.2

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Name &
signature of
witness

..... Date

CIDB Registration Number

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 C.1 Agreements and contract data, (which includes this agreement)
- Part C.2 Pricing data
- Part C.3 Scope of work.
- Part C.4 Site information

and drawings and documents or parts thereof, which may be incorporated by reference into Parts 1 to 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.

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. 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). Or if dispatched by courier, this Agreement comes into effect two working days after the submission by the Employer of one fully completed original copy of this document including the Schedule of Deviations (if any), to a courier-to-counter delivery / counter-to-counter delivery / door-to-counter delivery /door-to-door delivery /courier service (delete that which is not applicable), provided that the Employer notifies the Tenderer of the tracking number within 24 hours of such submission. Unless the Tenderer (now Contractor) within five working days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this Agreement, this Agreement shall constitute a binding contract between the parties.

C1.3

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Signature

.....

Name

.....

Capacity

.....

**for the
Employer**

.....

(Name and address of organization)

**Name &
Signature of
witness**

..... **Date**

Schedule of Deviations

1 Subject

Details

—

2 Subject

Details

—

3 Subject

Details

—

4 Subject

Details

—

5 Subject

Details

C1.4

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

6 Subject

Details

7 Subject

Details

8 Subject

Details

9 Subject

Details

10 Subject

Details

By the duly authorised representatives signing this agreement, 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.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C1.2 CONTRACT DATA

PART 1: DATA PROVIDED BY THE EMPLOYER

CONDITIONS OF CONTRACT

The Conditions of Contract are the **General Conditions of Contract for Construction Works (2015) 3rd Edition**, published by the South African Institution of Civil Engineering. Private Bag x200, Halfway House, 1685. Is applicable to this contract and is obtainable from www.saice.org.za.

The following contract specific data, referring to the General Condition of Contract for Construction Works, 3rd Edition, 2015, are applicable to this contract..

PART 1: Data provided by the Employer

Clause	Data
1.1.1.13	The Defects Liability Period is 12 months.
1.1.1.15	The Name of the Employer is Ba-Phalaborwa Local Municipality
1.1.1.26	Pricing Strategy is fixed Contract .
1.2.1.2	The address of the Employer is: PRIVATE BAG X01020 PHALABORWA, 1390 Telephone: 015 780 6300 Facsimile: 015 780 781 0726
1.1.1.16	The name of the Employer's Agent is: Infra Projects Africa The address of the Employer's Agent is: 126B Suid Street Polokwane 0699 Telephone : 015 291 2040 Facsimile : 086 293 2370
5.3.1	The documentations required before commencement with works execution are: Healthy and Safety Plan (Ref to Clause 4.3) Initial Programme (Ref to Clause 5.6) Security/Guarantee (Ref to Clause 6.2) Insurance (Ref to Clause 8.6) And other requirements
5.3.2	The time to submit documentation required before commencement with works execution is 28 days.
5.8.1	The non-working days are Sundays and the special non-working days are official builder's holiday plus all statutory public holidays. The year-end break commences on 15 th December and the first Monday of the subsequent year.

C1.6

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

5.13.1	The penalty for failing to complete the works is R 10 000.00 per day.
6.2	The Form of Guarantee is to contain the wording of the proforma document included in the General Conditions of Contract (Pro-forma included in section C1.3 to this document).
6.2	The liability of the guarantee shall be 10 % .
6.5.1.2.3	The percentage allowance to cover overhead charges is 10%
6.8.2	<p>Contract Price Adjustment: The contract shall be subject to Contract Price Adjustment.</p> <p>The value of the certificates issued shall be adjusted in accordance with the Contract Price Adjustment Schedule included in the General Conditions of Contract.</p> <p>The value of "x" is 0.15</p> <p>The values of the coefficients are:</p> <p>a = 0.25 Labour b = 0.3 Contractor's equipment c = 0.35 Material d = 0.1 Fuel</p> <p>The Province wherein the larger part of the Site is located is Limpopo.</p> <p>The applicable industry for the Producer Price Index for material is Diesel</p> <p>The area for the Producer Price Index for fuel is Example Fuel index area</p> <p>The base month is January 2021.</p>
6.8.3	Price adjustments for variations in the cost of special materials are allowed.
6.10.1.5	The percentage advance on materials not yet built into the Permanent Works is 80 % .
6.10.3	The limit of retention money is 10 % of the contract value.
8.6.1.1.2	The value of the materials supplied by the Employer to be included in the insurance sum is nil.
8.6.1.1.3	The amount to cover professional fees for repairing damage and loss to be included in the insurance sum is nil.
8.6.1.3	The limit of indemnity for liability insurance is R 0.00
	The Works shall be completed within Phase 1 = 6 Months, Phase 2 = 12 Months, Phase 3 = 12 Months.

C1.7

[]
Contractor

[]
Witness 1

[]
Witness 2

[]
Employer

[]
Witness 1

[]
Witness 2

5.12.2.2 The additional clauses to the General Conditions of Contract are:

Extensions of time in respect of clause 42 in respect of abnormal rainfall shall be calculated using the following formula for each calendar month or part thereof:

$$V = (Nw - Nn) + \frac{(Rw - Rn)}{X}$$

Where:

V = Extension of time in calendar days in respect of the calendar month under consideration.

Nw = Actual number of days during the calendar month on which a rainfall of 10 mm or more has been recorded.

Nn = Average number of days in the relevant calendar month, as derived from existing rainfall records, on which a rainfall of 10mm or more has been recorded for the calendar month.

Rw = Actual average rainfall in mm recorded for the calendar month under consideration.

Rn = Average rainfall in mm for the calendar month as derived from existing rainfall records as stated in the Site Information.

For purposes of the Contract Nn, Rn, X and Y shall have those values assigned to them in the South African Weather Service's rainfall records of the nearest station to the site.

If V is negative and its absolute value exceeds Nn, then V shall be taken as equal to minus Nn.

The total extension of time shall be the algebraic sum of all monthly totals for the period under consideration, but if the total is negative the time for completion shall not be reduced due to subnormal rainfall. Extensions of time for part of a month shall be calculated using pro rata values of Nn and Rn.

This formula does not take account flood damage which could cause further or concurrent delays and will be treated separately as far as extension of time is concerned.

The factor (Nw - Nn) shall be considered to represent a fair allowance for variations from the average in the number of days during which rainfall exceeds 10 mm. The factor (Rw - Rn) shall be considered to represent a fair allowance for variations from the average in the number of days during which the rainfall did not exceed 10 mm but wet conditions prevented or disrupted work.

For the purpose of applying the formula, accurate rain gauging shall be taken at a suitable point on the Site and the Contractor shall at his own expense, take all necessary precautions to ensure that rain gauges cannot be interfered with by unauthorized persons.

C1.8

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

5.12.2.2	A delay caused by inclement weather conditions will be regarded as a delay only if, in the opinion of the Engineer, all progress on an item or items of work on the critical path of the working programme of the contractor has been brought to a halt. Delays on working days only (based on a five-day working week) will be taken into account for the extension of time, but the Contractor shall make provision in his programme of work for an expected delay of "n" working days caused by normal rainy weather, for which he will not receive any extension of time, where "n" equals days. Extension of time during working days will be granted to the degree to which actual delays, as defined above, exceed the number of "n" workings days.
-----------------	--

C1.9

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Additions to Contract Data

Payment for the labour-intensive component of the works

Payment for works identified in the Scope of Work 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 non-payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict.

Contractor's default in payment to Labourers and Employees

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. 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.

Linkage of Payment to Submission of Project Data

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.

Applicable Labour Laws

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.

Minimum Number of Workers to be employed

The Contractor shall employ a minimum number of **30 unskilled workers**, failure to which the Employer may take such steps to source these workers and incorporate them into the Contractor's workforce without any financial adjustment of the Contract. Should the Contractor continually and deliberately fail to adhere to this provision without the express written consent of the Employer, the Employer shall have the right to take over the project and terminate the Contract in line with the Conditions of Contract.

Reporting

The Contractor shall submit monthly returns/reports as specified below:

- Signed Muster rolls/pay sheets of temporary workers and permanent staff detailing the number, category, gender, rate of pay and daily attendance.
- Plant utilization returns
- Progress report detailing production output compared to the programme of works

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.

PART 2: DATA PROVIDED BY THE CONTRACTOR

The Contractor is advised to read the **General Conditions of Contract for Construction Works (2015) 3rd Edition**, published by the South African Institution of Civil Engineering, in order to understand the implications of this Data which is _____ required to be completed. Each item of data

C1.10

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C1.3 PRO FORMA - PERFORMANCE GUARANTEE

CONTRACT NO. 07/20/21

REFURBISHMENT OF NAMAKGALE STADIUM

For use with the **General Conditions of Contract for Construction Works, Third Edition, 2015.**

GUARANTOR DETAILS AND DEFINITIONS

“Guarantor” means:

Physical address:

“Employer” means:

“Contractor” means:

“Employer’s Agent” means:

“Works” means:

“Site” means:

“Contract” means: The Agreement made in terms of the Form of Offer and Accepted and such amendments or additions to the Contract as may be agreed in writing between the parties.

“Contract Sum” means: The accepted amount inclusive of tax of R.....

Amount in words:

“Guaranteed Sum” means: The maximum aggregate amount of R.....

Amount in words:

“Expiry Date” means:

CONTRACT DETAILS

Employer’s Agent issues: Interim Payment Certificates, Final Payment Certificate and the Certificate Completion of the Works as defined in the Contract.

1. VARIABLE PERFORMANCE GUARANTEE

1.1 Where a Variable Performance Guarantee has been selected, the Guarantor’s

Liability shall be limited during the following periods to diminishing amounts of the guaranteed sum as follows:

1.1.1 From and including the date of signing the performance Guarantee up to and including the date of the interim payment certificate certifying , for the first time, more than 50% of the contract sum:

C1.12

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

R.....

(Amount in words.....)

1.1. 2 From the day following the date of the said interim payment certificate up to and including the expiry date, or the date of issue by the Employer's Agent of the certificate of completion of the works, whichever occurs first:

R.....

(Amount in words.....)

1.2. The Employer's Agent and/or the Employers shall advise the Guarantor in writing of the date on which the interim payment certificate certifying, for the first time, more than 50% of the contract sum, has been issued and the date on which the certificate of completion of the works has been issued.

2. FIXED PERFORMANCE GUARANTEE

2.1 where a fixed performance Guarantee has been selected, the Guarantor's liability shall be limited to the amount of the guaranteed sum.

2.2 The Guarantor's period of liability shall be from and including the date on which the performance Guarantee is signed, up to and including the expiry date, or the date of issue by the Employers' Agent of the certificate of completion of the works, or the date of payment in full of the guaranteed sum, whichever occurs first.

2.3 The Employer's Agent and/or the Employer shall advise the Guarantor in writing of the date on which the certificate of completion of the works has been issued.

3. CONDITIONS APPLICABLE TO VARIABLE AND FIXED PERFORMANCE GUARANTEES

3.1 The Guarantor hereby acknowledges that:

3.1.1 Any reference in this Performance Guarantee to the Contract is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention to create a suretyship.

3.1.2 its obligation under this Performance Guarantee is restricted to the payment of money.

3.2 Subject to the Guarantor's maximum liability referred to in 1.1 or 2.1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 3.2.1 to 3.2.3

3.2.1 A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Employer's Agent in an interim or Final Payment Certificate has not been made in terms of the contract and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 3.2.2;

3.2.2 A first written demand issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) days has elapsed since the first written demand in terms of 3.2.1 and the sum certified has still not been paid;

3.2.3 A copy of the aforesaid payment certificates which entitles the Employer to receive payment in terms of the Contract of the sum certified in 3.2.

3.3 Subject to the Guarantor's maximum liability referred to in 1.1 or 2.1, the Guarantor undertakes to pay to the Employer the Guaranteed Sum or the full outstanding

C1.13

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

balance upon receipt of a first written demand from the Employer to the Guarantor's physical address calling up this Performance Guarantee, such demand stating that:

- 3.3.1 the contract has been terminated due to the Contractors default and that this Performance Guarantee is called upon in terms of 3.3; or
- 3.3.2 a provisional or final sequestration or liquidation court order has been granted against the Contractor and that the Performance Guarantee is called upon in terms of 3.3; and
- 3.3.3 the aforesaid written demand is accompanied by a copy of the notice of termination and/or the provisional/final sequestration and/or the provisional liquidation court order.
- 3.4 It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 3.2 and 3.3 shall not exceed the Guarantor's maximum liability in terms of 1.1 or 2.1.
- 3.5 Where the Guarantor has made payment in terms of 3.3, the Employer shall upon the date of issue of the Final Payment Certificate submit an expense account to the Guarantor showing how all monies received in terms of this Performance Guarantee have been expended and shall refund to the Guarantee any resulting surplus. All monies refunded to the Guarantor in terms of this Performance Guarantee shall bear interest at the prime overdraft rate of the Employers bank compounded monthly and calculated from the date payment was made by the Guarantor to the Employer until the date of refund
- 3.6 Payment by the Guarantor in terms of 3.2 or 3.3 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor
- 3.7 Payment by the Guarantor in terms of 3.3 will only be made against the return of the original Performance Guarantee by the Employer
- 3.8 The Employer shall have the absolute right to arrange his affairs with the contractor in any manner which the Employer may consider fit and the Guarantor shall not have the right to claim release from this Performance Guarantee on account of any conduct alleged to be prejudicial to the Guarantor
- 3.9 The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith
- 3.10 This Performance Guarantee is neither negotiable nor transferable and shall expire in terms of 1.1.2 or 2.2, where after no claims will be considered by the Guarantor. The original of this Guarantee shall be returned to the Guarantor after it has expired
- 3.11 This Performance Guarantee, with the required demand notices in terms of 3.2 or 3.3, shall be regarded as a liquid document for the purposes of obtaining a court order
- 3.12 Where this Performance Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrate's Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's court of any district having jurisdiction in terms of section 28 of the said Act,

C1.14

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

notwithstanding that the amount of the claim may exceed the jurisdiction of the magistrate's Court.

Signed at.....

Date.....

Guarantor's signatory (1).....

Capacity.....

Guarantor's signatory (2).....

Capacity.....

Witness signatory (1).....

Witness signatory (2).....

C1.15



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

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) and the Mineral Resources and Petroleum Development Act (Act No. 28 of 2002)

THIS AGREEMENT made at on this the day of in the year between the **BA-PHALABORWA LOCAL 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 the Contractor and being duly authorised by virtue of a resolution appended hereto as **ANNEXURE A**.

WHEREAS the Employer is desirous that certain works be constructed, as stated above and has accepted a tender by the Contractor for the construction, completion and maintenance of such works and whereas the Employer and the Contractor 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 No.29 of 1996); as amended by the Mine Health and Safety Amendment Act (Act No. 27 of 1997), the Mineral Resources and Petroleum Development Act (Act No. 28 of 2002) and all the applicable Regulations of the said Acts.

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

- 1.The Contractor declares himself conversant with all the requirements, regulations and standards of the said Acts and Amendments of the Acts, as well as with the procedures and safety rules of the Employer as pertaining to the Contractor and all his Sub-contractors.
- 2.The Contractor accepts responsibility for compliance with all the requirements, regulations and standards of the Acts and Amendments of the Acts, as well as with the procedures and safety rules of the Employer as pertaining to the Contractor and all his Sub-contractors.
- 3.The Contractor, as the appointed Mine Manager of the Employer (Owner of the mine / borrow pit / quarry), shall undertake all the duties and accept all the responsibilities of the owner in compliance with the said Acts, Amendments and its Regulations.
- 4.The Contractor, as the appointed Mine Manager of the Owner, shall in turn appoint a Sub-Ordinate Mine Manager, a Responsible Mine Surveyor/ Competent Person and a Competent Person in Charge of Machinery who shall undertake the duties as delegated to them in terms of their appointments.
- 5.The Contractor shall himself obtain the necessary authorisation for mining, quarrying, blasting and crushing for all the borrow pit sites.
- 6.The Contractor shall assume responsibility for the Environmental Management Programme (EMP) in respect of all the borrow pit sites and quarries (mines) and shall ensure that the sites are rehabilitated at the conclusion of the contract.
- 7.The Contractor shall comply with all the provisions and requirements as set out in the EMP and in the said Acts, Amendments and its Regulations.

C1.16



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

8.This Agreements shall hold good from the date of signature until the date on which a Closure Certificate is issued by the Mining Authority (Department of Minerals and Energy).

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

SIGNED ON BEHALF OF THE EMPLOYER

AS WITNESS:

.....

(Signature)

NAME(Print):

SIGNED ON BEHALF OF THE CONTRACTOR

AS WITNESS:

1.

(Signature)

NAME(Print):

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C1.5 Appointment in Terms of Section 3(1) 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

(name of entity), having been appointed, in terms of **Section 4(1)** of the Act (as amended), by **BA-PHALABORWA LOCAL MUNICIPALITY**, who is the owner of the Mine(s) to be worked under the

requirements of the abovementioned Acts, hereby, in terms of **Section 3(1)** of the Act (as amended),

appoint in his
capacity as

..... of the
Contractor,

.....of
address:

.....
...and

contact number: **07/20/21** to perform all the functions entrusted to the Employer by

Sections 2 and 3 of the Act (as amended) for all the borrow pits on Contract No: **CONTRACT NO. 07/20/21 – REFURBISHMENT OF NAMAKGALE STADIUM.**

SIGNED:

DATE:

WITNESS: 1. 2.

NAME(Print): 1. 2.

I,, having been appointed in terms of Section 3(1) of the Act (as amended) to perform all functions entrusted to the Employer by Sections 2 and 3 of the Act (as amended) hereby accept the above appointment.

SIGNED:

DATE:

WITNESS: 1. 2.

NAME(Print): 1. 2.

C1.18

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C1.6 AGREEMENT IN TERMS OF THE OCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT NO 85 OF 1993)

THIS AGREEMENT made at on this the day of in the year..... between **BA-PHALABORWA LOCAL MUNICIPALITY** (hereinafter called "the Employer") on the one part, herein represented by in his capacity as and 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, **CONTRACT NO. 07/20/21 – REFURBISHMENT OF NAMAKGALE STADIUM** 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 2003);

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 the relevant clauses of the General Conditions of Contract (hereinafter referred to as "the GCC 3rd Edition, 2015"), as contained in the contract documents pertaining to this contract, or
 - b) the date of termination of the contract.
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 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

C1.19

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

- iv) Sub-section 37(2) relating to the purpose and meaning of this Agreement.
 - v) Construction Regulations 2003, 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.
 - 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.
NAME (Print):
2.
NAME (Print):

SIGNED FOR AND ON BEHALF OF THE PRINCIPAL CONTRACTOR:

WITNESS:

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

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C1.7 - CERTIFICATE OF AUTHORITY FOR SIGNATORY TO AGREEMENT IN TERMS OF OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT NO 85 OF 1993).

The signatory for the company that is the Contractor in terms of the above-mentioned Contract and the Mandatory in terms of the above-mentioned Act shall confirm his or her authority thereto by attaching to this page a duly signed and dated copy of the relevant resolution of the Board of Directors.

An example is given below:

"By resolution of the Board of Directors passed at a meeting held on _____
20_____,

Mr/Ms _____ whose
signature

appears below, has been duly authorised to sign the AGREEMENT in terms of THE
OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT 85 of 1993) on behalf of

SIGNED ON BEHALF OF THE COMPANY :

IN HIS/HER CAPACITY AS :

DATE :

SIGNATURE OF SIGNATORY :

WITNESS 1

NAME 1
(IN CAPITALS)

C1.21

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA LOCAL MUNICIPALITY



CONTRACT NO. 07/20/21

REFURBISHMENT OF NAMAKGALE STADIUM

C2 PRICING DATA

C2.1 Pricing Instructions

C2.2 Bill of Quantities (Phase 1, 2 and 3)

C2.1

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA LOCAL MUNICIPALITY



CONTRACT NO. 07/20/21

REFURBISHMENT OF NAMAKGALE STADIUM

C2.1 PRICING INSTRUCTIONS

1. GENERAL

The pricing instructions describe the criteria and assumptions which will be assumed in the Contract that the Bidder 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 Bidder's obligations in pricing the Bidder offer and the Employer's undertakings in the checking and correction of arithmetical errors are dealt with in the Standard Conditions of Bidder contained in Annexure F of SANS 294, as amended in and read in conjunction with the Bidder 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 Bidder 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 Bid item.

C2.1.1

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

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 for any of work of which is not measured in any units.

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 appear 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 SABS in the SABS 1200 series of specifications, eg. G for SABS 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:

%	=	per cent
H	=	hour
Ha	=	hectare
kg	=	kilogram
kl	=	kilolitre
km	=	kilometre
km-pass	=	kilometre-pass
kW	=	kilowatt
l	=	litre
m	=	metre
mm	=	millimetre
MN	=	meganewton
MN-m	=	meganewton-metre
MPa	=	megapascal
m ²	=	square metre
m ³	=	cubic metre
m ³ -km	=	cubic metre-kilometre
m ² -pass	=	square metre-pass
no	=	number

C2.1.2

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PC sum = Prime Cost sum
Prov Sum = Provisional Sum
sum = lump sum
t = ton (1 000 kg)

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 Bills 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 Bills 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 Bidder 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.

C2.1.3

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

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.

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.

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 Bidder 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.

11.4 Labour Intensive work

Those parts of the contract to be constructed using labour-intensive methods have been marked in the bill of quantities with the letters LI in a separate column or as a prefix or suffix against every item so designated. The works, or parts of the works so designated are to be constructed using labour-intensive methods only.

The use of plant to provide such works, other than plant specifically provided for in the scope of works, is a deviation from the contract. The items marked with the letters 'LI' are not necessarily an exhaustive list

C2.1.4

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

of all the activities which must be done by hand, and this clause does not over-ride any of the requirements in the generic labour-intensive specification in the Scope of Works.

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.

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.

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.

C2.1.5

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA LOCAL MUNICIPALITY



CONTRACT NO. 07/20/21

REFURBISHMENT OF NAMAKGALE STADIUM

C2.2 BILL OF QUANTITIES

C2.2.1

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

REFURBISHMENT OF NAMAKGALE STADIUM

CONTRACT No. 07/20/21

C.2.2.SCHEDULE OF QUANTITIES

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 SCHEDULE OF QUANTITIES SECTION 1 : PRELIMINARY AND GENERAL							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1	SANS 1200		<u>PRELIMINARY AND GENERAL</u>				
1.1	8.3		<u>FIXED CHARGE AND VALUE RELATED ITEMS</u>				
1.1.1	8.3.1		Contractual Requirements	Sum			
1.1.2	8.3.2		<u>Establish Facilities on Site</u>				
	8.3.2.1		<u>1.FACILITIES FOR THE ENGINEER</u>				
			a) Furnished offices (PSAB1)	Sum			
			b) Telephone/Cellphone (PSAB2)and Internet facilities	Sum			
			c) Nameboards (2 no)	No	2		
			d) Survey assistant	Sum			
			e) Survey equipment	Sum			
			f) Rented accomodation (PSAB5)	Sum			
1.1.3	8.3.2.2		<u>2.FACILITIES FOR THE CONTRACTOR</u>				
			a) Offices and Storage sheds	Sum			
			b) Workshops	Sum			
			c) Laboratories	Sum			
			d) Living Accomodation	Sum			
			e) Ablution and Latrine facilities	Sum			
			f) Tools and equipment	Sum			
			g) Water supplies,electric power and communications	Sum			
			h)Occupational Health and Safety (POHAS 3.6)	Sum			
1.1.4	8.3.3		General responsibilities and other fixed charged obligations	Sum			
1.1.5	8.3.4		Removal of site establishment	Sum			
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 SCHEDULE OF QUANTITIES SECTION 1 : PRELIMINARY AND GENERAL							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1.2			BALANCE BROUGHT FORWARD				
			<u>TIME RELATED ITEMS</u>				
1.2.1	8.4		Contractual requirements	Sum			
	8.4.1		<u>Operation and maintenance of facilities on site for the duration of construction</u>				
1.2.2	8.4.2.1		<u>1. FACILITIES FOR THE ENGINEER</u>				
			a) Furnished offices (PSAB1)	Sum			
			b) Telephone/Cellphone (PSAB2)	Sum			
			c) Nameboards (2 no)	No	2		
			d) Survey assistant and materials (PSAB4)	Sum			
			e) Rented accomodation (PSAB5)	Sum			
			f) Percentage adjusted item for d and e to cover contractor's expenses.	%			
1.2.3	8.4.2.2		<u>2. FACILITIES FOR THE CONTRACTOR</u>				
			a) Offices and Storage sheds	Sum			
			b) Workshops	Sum			
			c) Laboratories	Sum			
			d) Living Accomodation	Sum			
			e) Ablution and Latrine facilities	Sum			
			f) Tools and equipment	Sum			
			g) Water supplies,electric power and communications	Sum			
			h)Dealing with water	Sum			
			i)Occupational Health and Safety	Sum			
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 SCHEDULE OF QUANTITIES SECTION 1 : PRELIMINARY AND GENERAL							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1.2.4	8.4.3		BALANCE BROUGHT FORWARD Supervision for duration of the construction	Sum			
1.2.5	8.4.4		Company and Head office overheads costs for duration of contract	Sum			
1.2.6	8.4.5		Other Time Related Obligations	Sum			
1.3			<u>SUMS STATED PROVISIONALLY BY THE ENGINEER (NOT SUBJECT TO RETENTION)</u>				
	8.5.8		SPECIALIST SERVICES				
1.3.1			(a)OHS Consultant	Sum			R 675 000,00
1.3.2			(b)Environmental Management	Sum			R 675 000,00
1.3.3			(c)Social Facilitation	Sum			R 675 000,00
1.3.4			(d)Land Surveyor Services	Sum			R 150 000,00
1.3.5			(e)C.L.O	Sum			R 150 000,00
1.3.6			(f)Technical Training/PSC Training PSA-5.6	Sum			R 200 000,00
1.3.7			Percentage adjustment to items 1.3.1 to 1.3.6 to cover Contractor's expenses with regard to items (max 10%)	%			
1.3.8			Contingency	Sum			R 200 000,00
1.4	8.5		<u>SUMS STATED PROVISIONALLY BY THE ENGINEER(PROVISIONAL SUM)</u>				
1.4.1	8.5.3		<u>Testing required by the Engineer</u> a)Payment as per Invoice of Service Provider	Sum			R 200 000,00
1.4.2	8.5.4		Percentage adjustment to item above to cover contractor's expenses with regard to this item	%			
1.5			<u>SUMS STATED PROVISIONALLY BY THE ENGINEER(PROVISIONAL SUM)</u>				
1.5.1			<u>Provisional Sum for a Student Intern</u> a) Payment as per proof of payment of Intern allowance	Sum			R 105 000,00
1.5.2			Percentage adjustment to item above to cover contractor's expenses with regard to this item	%			
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAAGALE STADIUM							
CONTRACT No. 07/20/21							
SCHEDULE OF QUANTITIES SECTION 2: DAYWORKS AND TEMPORARY WORKS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2			<u>DAYWORKS AND TEMPORARY WORKS</u>				
			<u>Note:Dayworks Executed on the Instruction of the Engineer only</u>				
2.1			1. LABOUR				
			a) Unskilled	hr			Rate Only
			b) Semi skilled	hr			Rate Only
			c) Foreman	hr			Rate Only
			d) Artisan	hr			Rate Only
			e) Surveyor	hr			Rate Only
2.2			2. Grader (120kW/min) and operator	hr			Rate Only
2.3			3.Bulldozer (D7 min Cap) and operator	hr			Rate Only
2.4			4.Grid roller with tractor and operator (8T)	hr			Rate Only
2.5			5.Front End Loader (0.9 m3) and operator	hr			Rate Only
2.6			6. Truck (6m3) and driver	hr			Rate Only
2.7			7. Truck (10m3) and driver	hr			Rate Only
2.8			8. Concrete mixer (0.33m3 cap.)	hr			Rate Only
2.9			9. Pneumatic tyred roller and operator	hr			Rate Only
2.10			10.Backactor (600mm bucket) and operator	hr			Rate Only
2.11			11. Compressor c.w drills,jackhammers etc	hr			Rate Only
2.12			12. Vibrating plate compactor	hr			Rate Only
2.13			13. Vibrating roller compactor (600mm)	hr			Rate Only
2.14			14. Watercraft driver and operator	hr			Rate Only
2.15			15. Tractor loader Backhoe (TLB) and operator	hr			Rate Only
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

SCHEDULE OF QUANTITIES

FOR

**REFURBISHMENT OF
NAMA KGALE STADIUM**

A - CIVIL ENGINEERING WORKS

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
CIVILS: SCHEDULE OF QUANTITIES SECTION 1 : PROVISIONAL SUMS AND PRIME COST ITEMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1			SUMS STATED PROVISIONALLY BY THE ENGINEER				
1.1			<u>EQUIPMENT FOR THE SOCCER/RUGBY/NETBALL/ BASKETBALL/TENNIS/VOLLEYBALL</u>				
1.1.1			(a)Provide sporting equipment for Soccer, Rugby Netball, Basketball, Tennis and Volleyball, as approved by the Engineer	Sum			R 50 000,00
1.1.2			Percentage adjustment to item 1.1.1 above to cover Contractor's expenses with regard to items (max 10%)	%			
1.2			<u>TENNIS AND BASKET BALL COMBO COURT</u>				
1.2.1			Provide the provisional amount as indicated for construction of Tennis/Basketball court and terraces as approved by Engineer	Item			R 500 000,00
1.2.2			Percentage adjustment to item 1.2.1 above to cover Contractor's expenses with regard to items (max 10%)	%			
1.3			<u>VOLLEYBALL AND NETBALL COMBO COURT</u>				
1.3.1			Provide the provisional amount as indicated for construction of Volleyball court and terraces as approved by Engineer	Item			R 500 000,00
1.3.2			Percentage adjustment to item 1.3.1 above to cover Contractor's expenses with regard to items (max 10%)	%			
1.4			<u>PALLISADE FENCE</u>				
1.4.1		LI	Provide the provisional amount as indicated for the supply installation of a palisade fence around the boundary of the stadium as approved by engineer.	Sum			R 535 000,00
1.4.2			Percentage adjustment to item 1.4 above to cover Contractor's expenses with regard to items (max 10%)	%			
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
CIVILS: SCHEDULE OF QUANTITIES SECTION 1 : PROVISIONAL SUMS AND PRIME COST ITEMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1.8			BALANCE BROUGHT FORWARD				
			<u>IDENTIFICATION, REMOVAL AND RELOCATION OF EXISTING SERVICES</u>				
1.8.1			Provide the provisional amount as indicated for				
			a) identification of existing services by specialist subcontractor.	Sum			R 75 000,00
			b) Relocation of existing services	Sum			R 100 000,00
			c) Removal of existing services	Sum			R 75 000,00
1.8.2			Percentage adjustment to item 1.8.1 above to cover Contractor's expenses with regard to items (max 10%)	%			
1.9			<u>REFURBISHMENT OF SOCCER PITCH RETAINING WALL</u>				
1.9.1			Provide provisional amount as indicated for refurbishment of the soccer embankment retaining wall as approved by Engineer.	sum			R 250 000,00
1.9.2			Percentage adjustment to item 1.9.1 above to cover Contractor's expenses with regard to items (max 10%)	%			
1.10			<u>REFURBISHMENT OF PERIMETER WALL</u>				
1.10.1			Provide provisional amount as indicated for refurbishment of perimeter wall as approved by Engineer	sum			R 475 000,00
1.10.2			Percentage adjustment to item 1.10.1 above to cover Contractor's expenses with regard to items (max 10%)	%			
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMA KGALE STADIUM							
CONTRACT No. 07/20/21							
CIVILS: SCHEDULE OF QUANTITIES SECTION 2: SOCCERFIELD CONSTRUCTION							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2	SANS 1200C		<u>SOCCER FIELD CONSTRUCTION</u>				
2.1	8.6	LI	<u>SITE CLEARANCE</u>				
2.1.1	8.6.1		a)Clear and grub sites	ha	1,5		
2.1.2	8.6.2		b)Removal of existing fence and nameboard and stockpiling on site	Sum			
2.1.3	PSC 8.2.9		c)Transport materials in item 2.1.2 above and debris to unspecified sites and dump	m ³ -km	1 500		
2.2	SABS 1200D		<u>EARTHWORKS</u>				
2.2.1	8.3.12	LI	Removal of topsoil to 200mm depth, stockpiling and maintaining for re-use	m ³	2 500		
2.2.2	8.3.2		<u>Bulk excavations</u>				
			Excavate in soft materials and use for embankment or backfill or dispose as ordered. Compaction effort shall be indicated on drawings	m ³	3 000		
	8.3.4		Extra Over for Item 2.2.2 above.				
			a)Intermediate excavation	m ³	200		
			b)Hard Rock Excavation	m ³	100		
2.3	PSDM 8.3.3		<u>Treatment of subgrade</u>				
			subgrade preparation and compaction of material to:				
			a)Minimum of 90% of MOD AASHTO maximum density	m ³	2 500		
2.3.1	SANS 1200ME		<u>SUBBASE CONSTRUCTION</u>				
	8.3.1		Construction of subbase with gravel material (G6) from borrow pit compacted to 93% MOD AASHTO, in layers not exceeding 150mm	m ³	2 500		
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
CIVILS: SCHEDULE OF QUANTITIES SECTION 2: SOCCERFIELD CONSTRUCTION							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2.3.2	SANS 1200MF 8.3.1 8.3.9		BALANCE BROUGHT FORWARD <u>BASE CONSTRUCTION</u> Constuction of base with gravel material (G6) from borrow pit compacted to 93% MOD AASHTO in layers not exceeding 150mm Overhaul a) Limited overhaul b) Long Overhaul Apply to newly planted surface LAN (Lime stone Ammonia Nitrate) a a rate 50gm/m2 Apply to growing grass LAN (Lime stone Ammonia Nitrate) at rate 50gm/m2	m ³	2 500		
2.4			<u>IRRIGATION INSTALLATION</u>				
2.4.1		LI	Installation of an irrigation system for soccer pitch	Psum			R 350 000,00
			b)Profit handling fees on item 2.4.1 above	%			
2.4.2			a)Borehole electrical connection	Psum			R 75 000,00
2.4.3			b)Profit handling fees on item 2.4.3 above	%			
2.5			<u>BOREHOLE DEVELOPMENT</u>				
2.5.1			i.Geohydrological Survey	Psum			R 30 000,00
2.5.2			ii. Drilling	Psum			R 60 000,00
2.5.3			iii. Testing	Psum			R 25 000,00
2.5.4			iv.Borehole equipping (submersible pump/pipes and complete with all necessary fittings to completion	Psum			R 50 000,00
2.5.6			v. Borehole pumphouse	Psum			R 20 000,00
2.5.7			vi. Profit and Handling Fees on Item (i) to (v)	%			
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
CIVILS: SCHEDULE OF QUANTITIES SECTION 2: SOCCERFIELD CONSTRUCTION							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2.5.8			BALANCE BROUGHT FORWARD				
			<u>ELEVATED TANK</u>				
		LI	Supply install 10000 L elevated HDPE tank inclusive of foundations ,6m high support structure with foundation bolts, 80 mm built inlet, 50 mm built in outlet and 100 mm dia overflow.Including pipework as per drawing No.IPA/BPLM/STR/DR10	No	2		
			Provisional sum for connection of water from borehole to elevated tanks	Psum			R 30 000,00
			b)Profit handling fees on item 2.4.3 above	%			
			<u>FENCING</u>				
2.5.9		LI	Supply and installation of 1.8m high a diamond mesh fencing including pedestrian and vehicular emergency gates around soccer pitch as detailed on drawing No. IPA/BPLM/STR/DR14	m	500		
			b)Profit handling fees on item 2.5.9 above	%			
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
CIVILS: SCHEDULE OF QUANTITIES SECTION 3 :ATHLETICS TRACK CONSTRUCTION							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3	SANS-1200ME		<u>ATHLETICS TRACK</u>				
			<u>SUBBASE CONSTRUCTION</u>				
3.1	8.3.1	LI	Construction of subbase with gravel material (G6) from borrow pit compacted to 93% MOD AASHTO 150mm	m ³	1 140		
3.2	SANS 1200MF 8.3.1	LI	<u>BASE CONSTRUCTION</u> Construction of base within gravel material (G6) from borrow pit compacted to C4 stabilised material to 95% MOD AASHTO in layers not exceeding 150mm	m ³	1 140		
3.3	8.3.9		<u>Overhaul</u>				
3.3.1			a)Limited overhaul	m ³	2 000		
3.3.2			b)Long overhaul	m ³ km	18 250		
3.3.3	8.3.10		Overburden	m ³	800		
3.4	SANS-1200MK		<u>CONCRETE KERBING</u>				
3.4.1	8.2.2		Precast kerb to SABS 927 (Class 25/19)				
3.4.2		(LI)	i. Figure 5 non-mountable kerb (Class 25/19)	m	900		
3.5	SANS 1200MH		<u>PRIME COAT</u>				
3.5.1	8.1.2		e.MSP1 cut back bitumen	l	3 500		
3.6	SANS-1200MH		<u>ASPHALT BASE AND SURFACING</u>				
3.6.1	8.5.9		Asphalt base 40 mm thick a. Using 80/100 penetration grade bitumen (80/100 penetration grade bitumen) i. Continuously graded	m ²	4 500		
3.7	SANS-1200MG		<u>SLURRY SEAL</u>				
3.7.1	8.15	(LI)	Slurry applied by hand	m ³	4 500		
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 CIVILS: SCHEDULE OF QUANTITIES SECTION 3 :ATHLETICS TRACK CONSTRUCTION							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.8	SANS-1200PV		BALANCE BROUGHT FORWARD <u>ALL WEATHER SEAL LAYERS</u>				
3.8.1	PV.02		Provisional sum for surfacing by specialist subcontractor	Psum			R 800 000,00
3.8.2	PV.02		Provisional sum for painting by specialist subcontractor	Psum			R 100 000,00
3.8.3			Handling fee on items 3.8.1 and 3.8.2 above	%			
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 CIVILS: SCHEDULE OF QUANTITIES SECTION 4: STORMWATER DRAINAGE								
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
4	SANS-1200DB		<u>STORMWATER DRAINAGE</u>					
4.1	8.302 (a)		Excavation for drains and stormwater pipes					
4.1.1		LI	a). Excavating in all materials for trenches, backfill and compact including disposal of surplus unsuitable material within for stormwater pipes up to 450 mm in diameter for depths.					
			i. 0 m to 1.0 m	m ³	400			
			ii. 1.0 m to 2.0 m	m ³	250			
			iii. 2.0 m to 3.0 m	m ³	150			
			iv. 3.0 m to 4.0 m	m ³	150			
4.1.2			b) Extra over item for excavation in intermediate material	m ³	100			
4.1.3			c)Extra over item for excavation in hard material	m ³	200			
4.1.4			d)Extra over item for excavation in rock	m ³	30			
4.2			<u>Excavation for subsoil drainage systems</u>					
4.2.1		LI	a)Excavating in all materials for trenches, backfill and compact including disposal of surplus unsuitable material within for stormwater pipes up to 160 mm in diameter for depths.					
			i. 0 upto 1.5 m	m ³	1 890			
4.2.2			b)Extra over item for excavation in hard material irrespective of depth	m ³	250			
4.3			<u>Excavation ancillaries</u>					
			Make up deficiency in backfill material (provisional)					
4.3.1	8.3.3.1		From other necessary excavations on site	m ³	30			
4.3.2	8.3.3.1		a)By importation from designated borrow pit	m ³	30			
4.3.3	8.3.3.1		b)By importation from commercial or off-site sources	m ³	30			
TOTAL CARRIED FORWARD								

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
CIVILS: SCHEDULE OF QUANTITIES SECTION 4: STORMWATER DRAINAGE							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
4.3.4			Natural permeable material in subsoil drainage systems (crushed stone)				
4.3.4.1	8.3.3.1		Crushed stone obtained from commercial sources				
			i. Fine grade	m ³	Rate only		
			ii. Coarse grade	m ³	350		
4.3.4.2			Natural permeable material in subsoil drainage systems (sand)				
	8.3.3.1		Sand obtained from approved sources	m ³	98		
4.4	SABS 1200 LE		<u>Pipes in subsoil drainage systems</u>				
4.4.1	8.2.1		uPVC pipes and fittings complete with couplings				
			i. 110 mm internal dia perforated	m	850		
			ii. 160 mm internal dia perforated	m	90		
			iii. 160 mm internal dia non perforated	m	200		
4.5	SABS 1200 DK 8.2.4		<u>Synthetic-fibre filter fabric-Bidim geotextile</u>	m ²	3 000		
4.6	SABS 1200 MK		<u>Chanelling</u>				
4.6.1	8.2.7		Trimming of excavations for concrete lined open drains				
			a) In soft material	m ²	50		
			b) In hard material	m ²	600		
4.7	8.2.2		Supply and install precast concrete half round drain channel complete with steel grating as detailed on drawing	m	400		
4.8	SABS 1200 G		<u>Concrete lining for open drains</u>				
4.8.1	8.2.7		a) Cast in situ concrete lining (25MPa V-drain)	m ³	30		
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
CIVILS: SCHEDULE OF QUANTITIES SECTION 4: STORMWATER DRAINAGE							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4.8.2			BALANCE BROUGHT FORWARD				
			b)To sides with formwork on both internal and external faces (each face measured)	m ²	400		
4.9	SABS 1200 LE		<u>Concrete drainage pipes</u>				
4.9.1	8.2.1		Supply, handle, lay, bed Class C concrete, type SC and Class 75D pipes				
			450mm diameter	m	320		
4.10	8.2.8		<u>Manholes and grid inlet structures</u>				
4.10.1			Manholes complete as detailed on the drawings including heavy duty covers and frames for pipes of 450mm diameter				
			i. Depth exceeding 0m up to 1,0m	No.	2		
			ii. Depth exceeding 1,0m up to 2,0m	No.	2		
			iii. Depth exceeding 2,0m up to 3,0m	No.	2		
			iv. Depth exceeding 3,0m up to 4,0m	No.	2		
4.10.2			(b) Grid Inlet Structure as detailed on the drawings	No.	8		
4.11	SANS 1200 LG		PIPE JACKING				
	8.2.1		Jacking establishment				
			a) Fixed charges	sum			R 75 000,00
			b) Time-related charges for jacking operations	sum			R 25 000,00
	8.2.9		Grouting: Injection of cement/ sand grout, where ordered				
			a) Provide equipment and remove on completion	Sum			R 75 000,00
			b) Operations equipment	Days	4		
			c) Materials	m	30		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 CIVILS: SCHEDULE OF QUANTITIES SECTION 5: SEWER RETICULATION								
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
5	SABS 1200C		<u>SEWER RETICULATION</u>					
5.1			<u>SITE CLEARANCE</u>					
5.1.1	8.2.1	LI	a) Clearing and grubbing where necessary 3m wide	m	300,0			
5.2	SABS 1200 DB		<u>EXCAVATION</u>					
			<u>Excavation for sewer reticulation pipes</u>					
5.2.1			a)Excavating in all materials for trenches, backfill and compact including disposal of surplus unsuitable material within for stormwater pipes up to 160mm in diameter for depths.					
			i. 0 m to 1.0 m	m ³	400			
			ii. 1.0 m to 2.0 m	m ³	250			
			iii. 2.0 m to 3.0 m	m ³	150			
			iv.3.0 m to 4.0 m	m ³	150			
5.2.2			b)Extra over item for excavation in in intermediate material	m ³	100			
5.2.3			c)Extra over item for excavation in hard material	m ³	200			
5.2.4			d) Extra over item for excavation in rock	m ³	100			
5.2.5			<u>Excavation ancillaries</u>					
			Make up deficiency in backfill material (provisional)					
5.2.6	8.3.3.1		a)From other necessary excavations on site	m ³	30			
			b)By importation from designated borrow pit	m ³	30			
5.2.7	8.3.3.1		c)By importation from commercial or off-site sources	m ³	30			
TOTAL CARRIED FORWARD								

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
CIVILS: SCHEDULE OF QUANTITIES SECTION 5: SEWER RETICULATION							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5.3	SABS 1200 LB 8.2.1		BALANCE BROUGHT FORWARD				
			<u>BEDDING (SEWER PIPES)</u>				
			<u>Provision of bedding</u>				
5.3.1			a)Provision of bedding from other excavations on site				
			i. Selected granular bedding material	m ³	48		
			ii.Selected blanket fill material	m ³	48		
5.3.2			b)Provision of bedding from commercial sources				
			i. Selected granular bedding material	m ³	20		
			ii.Selected blanket fill material	m ³	20		
5.4	SABS 1200 LD 8.2.1		<u>PIPEWORK</u>				
			<u>uPVC pipes</u>				
5.4.1			Supply, lay, joint, bed, clean and testing of all uPVC sewer lines including all couplings and fittings				
			a)160 mm dia. on class C bedding	m	450		
			<u>MANHOLES, ETC</u>				
5.4.2	8.2.3		Manholes complete with floor and roof slab,benching, channels,waterproofing, manhole cover cover and frame, step irons, seal of opening between manhole cover and frame, etc and test for water tightness as per drawings to specifications for the following depths:				
			i. 0 m to 1.0 m	No.	2		
			ii. 1.0 m to 2.0 m	No.	2		
			iii. 2.0 m to 3.0 m	No.	2		
			iv.3.0 m to 4.0 m	No.	2		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 CIVILS: SCHEDULE OF QUANTITIES SECTION 6: WATER RETICULATION								
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
6	SABS 1200C		<u>WATER RETICULATION</u>					
6.1			<u>SITE CLEARANCE</u>					
6.1.1	8.2.1	LI	a) Clearing and grubbing where necessary 3m wide	m	300,0			
6.2	SABS 1200 DB		<u>EXCAVATION</u>					
		LI	<u>Excavation for water reticulation pipes</u>					
6.2.1			a)Excavating in all materials for trenches, backfill and compact including disposal of surplus unsuitable material within for stormwater pipes up to to 160mm in diameter for depths.					
6.2.2			i. 0 m to 1.0 m	m ³	400			
6.2.3			b)Extra over item for excavation in in intermediate material	m ³	100			
6.2.4			c)Extra over item for excavation in hard material	m ³	200			
6.2.4			d) Extra over item for excavation in rock	m ³	100			
6.3			<u>Excavation ancillaries</u>					
			Make up deficiency in backfill material (provisional)					
6.3.1			a)From other necessary excavations on site	m ³	30			
6.3.2			b)By importation from designated borrow pit	m ³	30			
6.3.3			c)By importation from commercial or off-site sources	m ³	30			
6.4	SABS 1200 LB 8.2.1		<u>BEDDING (WATER PIPES)</u>					
		LI	<u>Provision of bedding</u>					
			a)Provision of bedding from other exacations on site					
			i. Selected granular bedding material	m ³	48			
			ii.Selected blanket fill material	m ³	48			
TOTAL CARRIED FORWARD								

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY								
REFURBISHMENT OF NAMAKGALE STADIUM								
CONTRACT No. 07/20/21								
CIVILS: SCHEDULE OF QUANTITIES SECTION 6: WATER RETICULATION								
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
6.4.1			BALANCE BROUGHT FORWARD b)Provision of bedding from commercial sources i. Selected granular bedding material ii.Selected blanket fill material	m ³ m ³	20 20			
6.5	SABS 1200 LD 8.2.1		<u>SCHEDULE : WATER TRENCHES</u> <u>PIPEWORK</u> <u>uPVC pipes</u>					
6.5.1			Supply, lay, joint, bed, clean and testing of all uPVC water lines including all couplings and fittings a)75 mm dia. on class C bedding	m	450			
			<u>Fittings and specials for uPVC pipes</u> <u>Bends</u>					
6.5.2	8.2.3		Supply, lay and bed, including cut pipes to length where required and test the following fittings and specials complete for uPVC pipes class 9 (unless otherwise specified) and/ or 75 mm diameter i. Bend 11° uPVC ii. Bend 22° uPVC iii. Bend 45° uPVC iv. Bend 90° uPVC	No. No. No. No.	3 3 3 2			
TOTAL CARRIED FORWARD								

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
CIVILS: SCHEDULE OF QUANTITIES SECTION 6: WATER RETICULATION							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
6.5.3			<u>Fire hydrants</u> Supply, install, bed and test fire hydrant assemblies in uPVC mains complete as per drawing. Cutting of pipes, concreting, chamber, couplings, hydrant tees and corrosion protection all included.	No.	3		
6.5.4			<u>Valves</u> Supply, install, bed and testing line valve assemblies including valve box in uPVC mains complete as per Drawing No. IPA/BPLM/TB/DR13. Cutting of pipes and couplings included. Valves to be anti-clockwise closing.				
			75 mm diameter				
			i. Isolating valve	No.	7		
			ii. Scour valve	No.	1		
			iii. Air valve	No.	1		
6.5.5			<u>Water Meters</u> Supply and install Meinecke or similar approved flanged flow meter including interface for 4 - 20 mA.				
			150 mm diameter	No.	1		
6.5.6	8.2.11	LI	<u>Ancilleries</u> Anchor-thrust blocks and pedestals in 25 Mpa strength concrete including all formwork and reinforcement as per drawings	m ³	5		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 CIVILS:SCHEDULE OF QUANTITIES SECTION 7: TOPSOILING AND GRASSING								
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
7	COLTO		<u>TOPSOILING</u>					
7.1	5800 58,03		(a)Ripping	ha	1,2			
7.2			(b)Scarifying for loosening topsoil	no	1,2			
7.3			(c)Topsoiling where the materials are used:					
			(i)Topsoil obtained from other sources by the Contractor (including all haul)	m ³	1 000			
7.4			(d)Providing and applying chemical chemical fertilizers and/ or soil-improvement material	m ³	6			
			(i) Fertiliser					
7.5	58,04		<u>GRASSING</u>					
			(a)Planting of grass cuttings	m ²	8 000			
			(b)Planting of grass from seeding	m ²	rate only			
			(c)Planting of grass on the slopes of platforms	m ²	4 000			
	58,08		Watering the grass from existing reticulation	Sum				
7.6	PSHA		<u>GOAL POSTS</u>					
	8.3.4		Supply, transport and install goalposts as specified on drawings complete with nets	No	2			
TOTAL CARRIED SUMMARY								

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 CIVILS:SCHEDULE OF QUANTITIES SECTION 8: PLATFORMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
8	SABS 1200C		<u>SITE CLEARANCE</u>				
8.1	8.2.1		Clearing and grub	ha	1,3		
8.2	8.2.2		Remove and grub large tree stumps of girth over 1m and up to including 2m	no	10,00		
8.3	SABS 1200D	(LI)	<u>MASS EARTHWORKS</u>				
			Site preparation Remove topsoil to nominal depth 100mm and dispose	m ³	1 105		
8.3.1	8.3.2		Bulk excavation Excavate in soft materials and use for embarkment or backfill or dispose as ordered.Compaction shall be as indicated on drawings	m ³	9 750		
8.3.2	PSDM		Extra over for				
	8.3.7		(a) Intermediate excavation	m ³	3 000		
			(b) Hard excavation	m ³	1 000		
8.4	PSDM		<u>EARTHWORKS</u>				
8.4.1	8.3.3		Treatment for subgrade Subgrade preparation and compaction of material to (a) Minimum of 90% MOD AASHTO maximum density 150mm	m ³	1 658		
8.4.2	PSDM 8.3.4		Cut to fill Compact to modified AASHTO maximum density,	m ³	2 550		
8.4.3	8.3.5		Selected layers Compact to 93% of modified AASHTO maximum density 150mm G7 material	m ³	3 500		
8.5	SANS 1200 ME		<u>SUBBASE</u>				
8.5.1	8.3.1		<u>Construct subbase with material from designated borrow pits or commercial sources</u> G6 material, compacted to 98% of MOD AASHTO maximum density in layers not exceeding 150 mm	m ³	2 500		
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
CIVILS:SCHEDULE OF QUANTITIES SECTION 8: PLATFORMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
8.6			BALANCE BROUGHT FORWARD				
			<u>BASE</u>				
8.6.1			<u>Construct base with material from designated borrow pits or commercial sources</u>				
			G4 material, compacted to C4 stabilised material to 95% of MOD AASHTO maximum density in 150 mm (parking area)	m ³	2 500		
8.7	COLTO 3100		<u>BORROW MATERIALS</u>				
8.7.2			Excess overburden in borrow pits for obtaining material for construction of platforms				
			i. 0 m to 1.0 m	m ³	2000		
			ii. 1.0 m to 2.0 m	m ³	500		
			iii. 2.0 m to 3.0 m	m ³	350		
			iv. Greater than 3.0 m	m ³	150		
8.7.3			Finishing-off borrow areas in:				
8.7.4			(b) Intermediate material	ha	1		
8.7.5			(c) Soft material	ha	1		
			Protecting borrow pits:				
8.7.6			a) Stock proof fencing	km	0,80		
8.7.7			b) Corner post	No.	4,00		
8.7.8			c) Gates all inclusive.	No.	1,00		
8.8	SABS 1200DB		<u>HAUL DISTANCE</u>				
8.8.1	8.3.3.4		a) Limited overhaul (Provisional)	m ³	3 000,00		
			a) Long overhaul (Provisional)	m ³ .km	24 000,00		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
CIVILS: SCHEDULE OF QUANTITIES SECTION 9: PAVING PARKING AREAS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
9	SANS 1200 MJ	(LI)	<u>SEGMENTED PAVING</u>				
9.1	8.2.2		Construction of paving complete as detailed				
			(a) 60mm interlocking block,25 Mpa	m ²	8 500		
			(b)Cast in situ concrete edge and intermediate beams	m ³	10		
9.2			<u>Provision of approved herbicide and ant poison</u>				
			(a) Provision of materials	Sum	1		
			(b)Contractor's charges and profit added to prime cost	%	R41 000,00		
9.3	SANS 1200 MK	LI	<u>KERBING AND CHANNELING</u>				
9.4	8.2.2		Supply,lay and bed and joint concrete sections				
			(a)Figure 8C mountable kerb class 25/19				
			i. 1m length on straight	m	3 000		
			ii. 300 mm length on curves	m	200		
	COLTO 5600		<u>ROAD SIGNS</u>				
9.5	B56.01		Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or in Class 1 retro-reflective material,where the sign board is constructed from:				
9.6			(a)Prepainted galvanized steel plate (chromadek 1,6mm thick or approved equivalent)				
		LI	(i) Area not exceeding 2 m ²		6		
9.7	56,03		Road sign supports				
9.7.1		LI	(b) Timber 150mm	m	5		
9.7.2	56,05	LI	Excavation and backfilling for road sign supports	m ³	2		
9.7.3	56,06	LI	Extra over item 56.05 for cement-treated soil backfill	m ³	2		
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
CIVILS: SCHEDULE OF QUANTITIES SECTION 9: PAVING PARKING AREAS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
9.8	5700		<u>ROAD MARKINGS</u>				
9.8.1	57,02		Retro-reflective(water based) road-marking paint (Water Based):				
			(a) White lines (broken or unbroken):				
			(i) 150 mm wide	km	2		
			(b) Yellow lines (broken or unbroken):	km	-		
			(i) 150 mm wide	m ²	15		
		LI	(c) White lettering and symbols				
		LI	(d) Yellow lettering and symbols	m ²	-		
			(a) White lines (broken or unbroken):				
			(i) 150 mm wide	km	2		
			(b) Yellow lines (broken or unbroken):	km	-		
			(i) 150 mm wide	m ²	15		
		LI	(c) White lettering and symbols				
		LI	(d) Yellow lettering and symbols	m ²	-		
		LI	(c) White lettering and symbols				
		LI	(d) Yellow lettering and symbols	m ²	-		
			(i) 150 mm wide	m ²	15		
		LI	(c) White lettering and symbols				
		LI	(d) Yellow lettering and symbols	m ²	-		
		LI	(c) White lettering and symbols				
		LI	(d) Yellow lettering and symbols	m ²	-		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

<u>CIVILS SUMMARY SUMMARY</u>	
Section No.	Amount
1	PROVISIONAL SUMS
2	SOCCER FIELD CONSTRUCTION
3	ATHLETICS TRACK CONSTRUCTION
4	STORMWATER DRAINAGE
5	SEWER RETICULATION
6	WATER RETICULATION
7	TOP SOIL AND GRASSING
8	PLATFORMS
9	PAVEMENT AND PARKING
	<hr/> Total <hr/> <hr/>

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

SCHEDULE OF QUANTITIES

FOR

**REFURBISHMENT OF
NAMA KGALE STADIUM**

B - BUILDING WORKS

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 1: PROVISIONAL SUMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1			SUMS STATED PROVISIONALLY BY THE ENGINEER				
1.1			<u>GATE 1 (STRUCTURAL AND ARCHITECTURAL STEELWORK AND ART WORK)</u>				
			Provide the provisional amount as indicated for structural and architectural steel work and artwork for Gate 1 as per drawings to be executed by a sub-contractor	Sum			R 150 000,00
			Allow for Profit and Attendance	%			
1.2			<u>GRAND STAND</u>				
			Provide the provisional amount as indicated for the 600 seater grand stand as per drawings to be executed by a sub-contractor	Sum			R 6 000 000,00
			Allow for Profit and Attendance	%			
1.3			<u>DEMOLITION</u>				
			Provide the provisional amount as indicated for the demolition of existing infrastructure and the removal of rubble to specified dumping site.				
1.3.1			i. Grand Stand (including change rooms)	Sum			R 250 000,00
1.3.2		LI	ii. Perimeter Wall	Sum			R 100 000,00
1.3.3		LI	iii. Ablution Facilities	Sum			R 150 000,00
			Percentage adjustment to items 1.3.1 to 1.3.6 to cover Contractor's expenses with regard to items (max 10%)	%			
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1			BILL NO 1				
1,1			EARTHWORKS (Provisional)				
1.1.1			PREAMBLES For preambles see, " Model Preambles for Trades (2008)" as well as the provisions of SANS1200D shall apply. SANS1200D shall take precedence where there are discrepancies				
1.1.2			<u>SUPPLEMENTARY PREAMBLES</u> <u>a) Nature of ground</u> Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth", and where conditions of a more difficult character are indicated, these are separately measured. <u>b) Carting away of excavated material</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material into trucks directly from excavations or, alternatively, from stock piles situated on the building site. Removal and cart away of all rubble shall be to the Employers' approved dumping site c) Filling Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material.				
1.2			<u>SITE CLEARANCE, ETC</u>				
1.2.1		LI	<u>Site clearance</u> Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 20mm girth where necessary.	m ²			Rate Only
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BALANCE BROUGHT FORWARD							
<u>EXCAVATIONS, FILLING, ETC.</u>							
<u>Excavations</u>							
Excavate in earth not exceeding 2m deep							
1.2.2			Trenches	m ³	25		
Extra over trench and hole excavations in soft material for excavation in							
1.2.3			Soft rock	m ³	2		
1.2.4			Hard rock	m ³	3		
Extra over excavation for carting away							
1.2.5			Surplus material from excavation to a dumping site to be located by the contractor	m ³	11		
Risk of collapse of excavations							
1.2.6			Risk of collapse to sides of excavation for trenches and holes from natural, elevated or reduced ground level not exceeding 1,5m deep	m ²	71		
Keeping excavations free of water							
1.2.7			Allow for keeping excavations free of water other than subterranean water	Item	1		
FILLING, ETC.							
Earth filling with selected material obtained from the excavation and/or stork piles on site compacted to 95% Mod AASHTO							
1.2.8			Backfilling to trenches, holes, etc	m ³	25		
Earth filling G7 material supplied by the contractor compacted to 95% Mod AASHTO density							
1.2.9			Under floors, etc	m ³	25		
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMA KGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARDS				
1.2.10			Earth filling with selected material obtained from the excavation and/or stork piles on site compacted to 89% Mod AASHTO Under floors etc including light compaction	m3	25		
1.2.11			Compaction of surfaces Compaction of ground surfaces under floors , etc including scarifying for a depth of 300mm breaking down oversize material,adding suitable material where necessary and compacting in 150mm layers to 95% Mod AASHTO density	m2	70		
1.2.12			Prescribed density tests on filling Modified AASHTO Density test	No.	5		
1.2.13			SOIL POISONING Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years Under floors etc including forming and poisoning shallow furrows against foundation walls etc,filling in fullows and raming	m ²	70		
1.2.14			To bottom and sides of trenches etc	m ²	107		
1.2.15			To bottom of concrete aprons	m ²	32		
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMA KGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2			BILL NO 2				
2.1			CONCRETE, FORMWORK AND REINFORCEMENT (Provisional)				
2.1.2			<p>PREAMBLES</p> <p>NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Accuracy</u></p> <p>Accuracy of concrete works shall comply with Grade II as described in SANS10155 Accuracy of Building Works, refer to paragraph 5.3 and 5.4 of SANS10155.</p> <p><u>Formwork</u></p> <p>Formworks to soffits of solids etc shall be deemed to be slabs not exceeding 300mm thick unless otherwise described</p> <p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p> <p><u>H.D. Bolts and Miscellaneous Metal Work</u></p> <p>All H.D bolts, washers and nuts to be supplied by the contractor Rates to include for sandblasting and galvanising all bolts and metal work to applicable specification</p>				
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS								
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
			BALANCE BROUGHT FORWARDS					
			<u>CONCRETE</u> (JBCC CPAP WORK GROUP No. 110)					
2.1.3			UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES 15MPa/19mm concrete Surface blinding under blinding footings and bases	m ³	2			
2.1.4			UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES 25MPa/19mm concrete Surface beds cast in panels	m ²	7			
2.1.5			Strip footings	m ³	9			
2.1.6			Aprons	m ³	3			
2.1.7			Test blocks Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No.	5			
2.1.8			CONCRETE SUNDRIES Finish top surfaces of concrete smooth with a wood float to: Surface beds cast in panels	m ²	70			
2.1.9			FORMWORK Rough formwork to sides: Edges, risers, ends and reveals not exceeding 300mm high	m ²	3			
TOTAL CARRIED FORWARD								

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BALANCE BROUGHT FORWARDS							
MOVEMENT JOINTS,ETC							
2.1.10			10mm Thick isolation between concrete surface beds and wall Not exceeding 300mm high to edges of surface beds	m	62		
2.1.11			Saw cut joints Machine cut open joint 3mm wide × 40mm deep in top of concrete surface bed including short length,etc	m	18		
REINFORCEMENT							
NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 114 for contract price adjustment purposes							
2.1.12			Mild steel bar reinforcement to structural concrete work 10mm Diameter bars	ton	0,2		
2.1.13			High tensile steel reinforcement to structural concrete work 12mm Diameter bars	ton	0,4		
2.1.14			Fabric reinforcement Type 193 fabric reinforcement in concrete surface beds,slabs ,etc	m ²	70		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3			<p>BILL NO.3</p> <p>MASONRY</p> <p>PREAMBLES</p> <p>NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Sizes in Descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick.</p> <p><u>Hollow Walls</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p><u>Face Brick</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour.</p> <p>Pointing</p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p><u>Accuracy</u></p> <p>Accuracy of masonry works shall comply with Grade II as described in SANS 10155 Accuracy of Building Works, refer to paragraph 5.5 of SANS 10155.</p>				
TOTAL CARRIED TO FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF.	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARDS				
			BRICKWORK IN FOUNDATIONS (PROVISIONAL)				
			Brickwork of NFX clay bricks complying with <u>SANS227 (14 Mpa nominal compressive strength) in Class II (1:3) mortar in:</u>				
3.1.1			One brick walls	m ²	48		
3.1.2			460mm brick walls	m ²	3		
			BRICK WORK IN SUPERSTRUCTURE				
			Brickwork of NFX clay bricks complying with <u>SANS227 (14 Mpa nominal compressive strength) in Class II (1:3) mortar in:</u>				
3.1.3			Half brick walls	m ²	86		
3.1.4			One brick walls.	m ²	163		
3.1.5							
			BRICKWORK SUNDRIES				
			Bagging of 1:3 cement and sand mixture				
3.1.6			Bag outer face or inner skin of brick wall to receive bitumen paint (elsewhere measured)	m ²	35		
			Joint forming material in movement				
3.1.7			10mm thick brick impregnated softboard expansion joint filling, built in vertically as the proceeds, including all cutting and waste	m ²	3		
TOTAL CARRIED TO FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARDS				
			Brickwork reinforcement				
3.1.8			75mm wide reinforcement built in horizontally	m	340		
3.1.9			150mm wide reinforcement built in horizontal	m	644		
3.1.10			220mm wide reinforcement built in horizontal	m	46		
			Turning pieces to lintels, etc.:				
3.1.11			230mm wide turning pieces.	m	50		
			Prestressed fabricated concrete lintels including				
3.1.12			110 x 75mm Lintels in lengths not exceeding 3m	m	69		
			Facebrick				
			FBS clay face bricks complying with SANS227 (14 Mpa nominal compressive strength) in class II (1:3) mortar with recessed horizontal and vertical joints				
3.1.13			Extra over brickwork for face brickwork	m ²	48		
			Brick-on-edge lintels, header course copings, sills, etc. of FBS clay face bricks complying with SANS227 (14 Mpa nominal compressive strength) in class II (1:3) mortar with recessed horizontal and vertical joints				
3.1.14			Extra over brickwork for face brick-on-edge cills	m	11		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4			<p>BILL NO. 4</p> <p>WATERPROOFING</p> <p>PREAMBLES</p> <p>NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Gaurantee</u></p> <p>Provide an insuarance backed gaurantee from the manufacturer for the waterproofed area including flashings, skirtings, outlets, expansion joints, etc for a minimum period of 10 years. If any finish installed over the waterproofing is to be removed due to leaks it shall be replaced by the gaurantor at no charge.</p> <p><u>Waterproofing</u></p> <p>Arrange a meeting with the waterproofing contractor, waterproofing manufacturer and the architect well in advance of the start of any waterproofing works, discuss all aspects of the waterproofing. After this meeting obtain from the . manufacturer a written waterproofing specification and all applicable waterproofing details, submit to the architects for acceptance</p> <p>During the course of the works the manufacturer of the waterproofing material must inspect regularly, . and upon completion of tehinstallation must certify in writing that the application has been done in accordance with the manufacturers instructions</p> <p>Prior to installation of the waterproofing protection layer a 48hr flood test must be performed; provide test report on completion.</p> <p>Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-down</p>				
4,1							
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMA KGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS: SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
			DAMP PROOFING OF WALLS AND FLOORS				
			One layer of 375 micron black embossed polyolefin damp proof course complying with SANS952 type B.				
4.1.1			Laid horizontally in unjointed lengths and with full corner laps over full width of wall 150mm above external finished ground level, under copings, . stepped over lintels, under window sills and tucked in under window profiles	m ²	15		
			One layer 250 micron smooth green polyolefin membrane complying with SANS952 type C.				
4.1.2			Laid under surface beds in the largest practical sizes with 200mm laps, seal laps in accordance to manufacturers specification, fold membrane up against external walls	m ²	70		
			Two coats "Brixeal" bitumen emulsion waterproof coating				
4.1.3			On bag washed brick walls	m ²	35		
			JOINT SEALANTS, ETC.				
			Jaycothane' 673 polyurethane sealant compound including 15mm compressible filler with tear off slip, etc				
4.1.4			In 10 x 10mm Isolation joints	m	62		
			Two-part "Jaycothane" 673 sealant including 10mm closed cell polyethylene backing cord "sondor cordex", bond breaker, 'Jaycothane' primer, etc				
4.1.5			3 x 10mm In saw cut joints in floors	m	18		
			Silicone sealant				
4.1.6			Clear silicone to SANS1305 type B with fungicide to junctions between walls and sanitary fittings	m	26		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY

REFURBISHMENT OF NAMAKGALE STADIUM

CONTRACT No. 07/20/21

BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS

ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARDS				
4.1.7			Polyurathane sealant Sealant around door frames and windows to match colour of	m	57		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5			<p>BILL NO.5</p> <p>ROOF COVERINGS</p> <p>PREAMBLES</p> <p>NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing of roof sheeting</u></p> <p>The sheets shall be fixed to every purlin by means of patented fixing method which will securely hold the sheets in position and lock-in both the side lap and centre ribs. The clips shall be manufactured from Galvanised steel and shall be fixed to the steel purlins with two cadmium plated tek 3 no 10,24 x s. 16mm long self-drilling/tapping screws, or with NA2 annular nails to timber purlin</p> <p><u>0,8mm Thick flashings</u></p> <p>Flashings shall be approved and fixed to the sheeting with clips to obviate any direct fixing perforation. Prior to flashings being fixed, all troughs at the apex shall be stop ended to the full . depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip</p> <p>Flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surface in order to prevent steel spatter from penetrating colour coated areas</p> <p><u>Certificate for Roof Covering</u></p> <p>The contractor is to submit a certificate signed by themerchant, stating that the roof covering supplied, complies with the required thickness specified</p>				
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			<p>BALANCE BROUGHT FORWARDS</p> <p><u>Loads & Deflections</u></p> <p>Accommodate all wind loading and pressures safely during installation and after completion, without detriment to the performance of the works.</p> <p>Accommodate all tolerances and movements of the building structure without damage or reduction in the performance of the works</p> <p>Accommodate known impact loads, or transferred impact loads that occur during service life, as well as loads imposed during maintenance</p> <p><u>Quality Control</u></p> <p>Take special care and precautions at all times to prevent scratching and / or other damage to the finished surfaces. Scratched and / or damaged sheets will not be accepted.</p> <p>At all times roof boards shall be used as walking areas on the roof to avoid damage to the sheets</p> <p>All exposed fixings for roofing, fittings, accessories, atc, shall be with top speed stainless steel fixing . screws or fasteners with stainless steel bonded washers unless otherwise stated</p> <p><u>Gaurantee</u></p> <p>Provide 5 year material and workmanship gaurantee.</p> <p>Provide 10 year paint finish gaurantee.</p> <p><u>ROOF COVERINGS, WALL CALDDING AND ACCESSORIES</u></p> <p><u>0,5mm thick brownbuilt kliplock profile roof sheeting @ 5 degree pitch, complete with all necessary flashing and fittings as by manufacturers.</u></p>				
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5.1.1			BALANCE BROUGHT FORWARDS Roof covering with pitch not exceeding 5 degrees as specified on architectural drawings and in accordance to manufacturers recommendation	m ²	87		
5.1.2			ROOF INSULATION <u>4mm Alu-bubble double bubble roof insulation laid all in accordance with the manufacturer's recommendations.</u> Fixed to underside of roof sheeting in accordance with the manufacturer's recommendations.	m ²	87		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6			BILL NO.6 CARPENTRY AND JOINERY PREAMBLES NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill <u>SUPPLEMENTARY PREAMBLES</u> Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type <u>Descriptions</u> The term "planted on" shall mean the nailing of timber to timber The term "screwed on" shall mean the countersunk screwing timber to timber The term "screwed and pelleted on" shall mean the screwing of timber to timber with the heads of screwssunk and pelleted The term "screwed and pelleted on" shall mean the screwing of timber to timber with the heads of screwssunk and pelleted The term "plugged" shall mean the countersunk screwing of timber to brickwork or concrete including plastic plugs The term "plugged and pelleted" shall mean the screwing of timber to brickwork or concrete including plugs with heads of screws sunk and pelleted Descriptions of frames shall be deemed to include frames , transomes, mullions, rails, etc Descriptions of frames shall be deemed to include frames , transomes, mullions, rails, etc				
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			<p>BALANCE BROUGHT FORWARDS</p> <p><u>Joinery</u></p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Fixing</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p>Decorative laminate finish</p> <p>The sizes listed are Nominal sizes for solid SA pinemembers</p> <p><u>Quality Control - Doors</u></p> <p>Submit test certificate from door supplier / manufacturer that typical prototype type of door has been tested and meets the specified performance, exposure and fire classification</p> <p><u>Shop Drawings - Joinery Fittings</u></p> <p>Provide shop drawings of each typical type of joinery fitting for acceptance prior to execution of the works , provide samples as called for by the architects for acceptance.</p> <p><u>Prefabricated Roof Trusses</u></p> <p>Prefabricated trusses shall be fabricated in a factory by a truss fabricator who has been awarded a Certificate of Competence by the Institute of Timber Construction and is approved by the Principal Agent.</p> <p>All trusses shall be designed by a registered Professional Engineer in accordance with SABS Code of Practice for Design of Timber Structures</p>				
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BALANCE BROUGHT FORWARDS							
<u>PREFABRICATED ROOF TRUSSES, ETC.</u>							
Sawn softwood:							
6.1.1			50 x 76mm Purlins	m	94		
6.1.2			38 x 114mm Wall plate bedded level on and including cement Plate nailed timber roof truss construction The following is applicable in respect of roof trusses	m	27		
<u>Mono pitched prefabricated roof trusses bearing on wall plate on both sides</u>							
6.1.3			Mono pitched timber roof truss with 400mm overhang at the	no	18		
<u>NUTEC, FIBRE CEMENT, ETC</u>							
6.1.4			12 x 225mm Fascias and barge boards, including galvanised	m	34		
DOORS, ETC.							
<u>44mm Thick Semi-solid meranti doors</u>							
6.1.5			Semi-solid manual inward opening timber single door with 15mm horizontal panels in projection, size 914 x 2032. D3	No	1		
6.1.6			Solid interior timber single door size 762 x 2032. D1	No	6		
6.1.7			Solid interior timber single door size 813 x 2032. D2	No	4		
FITTINGS, E.T.C							
<u>Wrought meranti</u>							
6.1.8			Timber panel bench to Architects detail, size 1 500 x 500 x 500mm high	no.	1		
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BALANCE BROUGHT FORWARD							
<u>VANITY TOPS</u>							
<u>Granite</u>							
<u>Vanity top units comprising 600 x 30mm thick top, 300 x 20mm thick fascia and 100 x 20mm thick splashback skirting, complete with all necessary accessories, the whole plugged into brickwork as per architect's drawing</u>							
6.1.9			1 520mm Long overall with cuttings for 2No. wash hand basins elsewhere measured) including fixing in position to brackets with and including brass screws	no.	1		
6.1.10			3 060mm Long overall with cuttings for 4No. wash hand basins elsewhere measured) including fixing in position to brackets with and including brass screws	no.	1		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS								
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
7			BILL NO.7					
7,1			CEILINGS, PARTITIONS AND ACCESS FLOORING					
			PREAMBLES					
			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill					
			<u>SUPPLEMENTARY PREAMBLES</u>					
			<u>Accuracy</u>					
			Accuracy of ceiling finish shall comply with Grade I as described in SANS 10155 Accuracy of Building Works, refer to paragraph 5.8 of SANS 10155					
			<u>Descriptions</u>					
			Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete					
			Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere					
			GYPSUM FLUSH PLASTERED CEILINGS					
7.1.1			9,5mm thick skimmed rhino gypsum ceiling boards fixed on metal screws up grid system suspended from trusses	m ²	70			
7.1.2			Extra over ceiling for opening n.e. 100mm diameter downlighter (provisional)	No.	5			
7.1.3			Extra over ceiling for opening for lights (provisional)	No.	15			
7.1.4			Extra over for Trap door	No.	1			
			<u>Pre-painted or similar shadowline perimeter trims fixed to timber battens. Pre-painted shadowline wall angles, plugged</u>					
7.1.5			15mm shadowline cornice	m	110			
TOTAL CARRIED FORWARD								

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY

REFURBISHMENT OF NAMAKGALE STADIUM

CONTRACT No. 07/20/21

BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS

ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7.1.6			BALANCE BROUGHT FORWARD CEILING INSULATION 50mm thick non-combustible light weight fibreglass Glasswool	m ²	70		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
8			<p>BILL NO 8</p> <p>IRONMONGERY</p> <p>PREAMBLES</p> <p>NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>SUPPLEMENTARY PREAMBLES</p> <p><u>Ironmongery</u></p> <p>Arrange a meeting with the ironmongery specifier, the ironmongery specifier a written specification and all advance of the start of any ironmogery works, the ironmongery specifier a written specification and all discuss all aspects of the works. After this meeting obtain from the ironmongery specifier a written specification and all applicable, submit to the architects for acceptance</p> <p>During the course of the works the ironmongery specifier must inspect regularly, and upon completion of the installation must certify in writing that the installation is in accordance with the manufacturers instructions.</p> <p><u>Master Key Provision</u></p> <p>All cylinders and lever mechanism locks shall be deemed to be under either a master key plan or suited or a combination of both and shall be agreed in writing with the architect and manufacturer / supplier prior to order placement.</p> <p>Key Handover</p> <p>Before Practical Completion, account for and adequately label all keys. Provide the architect with an itemised schedule and retain a duplicate schedule as a receipt. The master keys to be issued by the cylinder/key supplier direct to the architect</p> <p>Gaurantee 5 year product gaurantee.</p>				
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMA KGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
			<p><u>Finishes</u></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:</p> <p>BS Satin bronze lacquered CH Chromium plated</p> <p>SC Satin chromium plated</p> <p>SE Silver enamelled</p> <p>GE Grey enamelled</p> <p>AS Anodised silver</p> <p>AB Anodised bronze</p> <p>AG Anodised gold</p> <p>ABL Anodised black</p> <p>PB Polished brass</p> <p>PL Polished and lacquered</p> <p>PT Epoxy coated</p> <p>SD Sanded</p> <p><u>Fixing</u></p> <p>Description of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories</p> <p>Description of proprietary items shall be deemed to include for fixing in position and all fixing accessories as specified by the manufacturer</p> <p>HINGES, BOLTS, ETC</p>				
8.1.1			Stainless steel Butt Hinge	No.	20		
8.1.2			Rebate Set	No.	8		
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BALANCE BROUGHT FORWARD							
8.1.3			WC Indicator Bolts	No.	6		
LOCKS							
8.1.4			Mortice Lockset	Each	5		
HANDLES							
8.1.5			Stainless steel 30mm Pull Handle flange fixed	No	5		
DOOR CLOSERS							
8.1.6			Door closer	No	5		
8.1.7			Floor door stop	No	5		
8.1.8			Dust proof strike	No	5		
8.1.9			Hat and coat hook with buffer	No	5		
BATHROOM FITTINGS							
8.1.10			Grade 304 (18/10) stainless steel satin finish wall mounted lockable 3 toilet roll holder, suitable to be mounted onto toilet side wall.	No	7		
8.1.11			Industrial push / pump type lockable wall mounted soap dispenser with a grade 304 (18/10) stainless steel satin finish and 1L liquid soap capacity	No	7		
8.1.12			Grade 304 (18/10) stainless steel satin finish wall mounted fully automated vandal proof hot air hand dryer, with minimum 2500W power and 30 m/s air speed	No	3		
8.1.13			32mm stainless steel side grab rail	No	1		
8.1.14			32mm stainless steel rear grab rail	No	1		
LOCKERS, ETC							
8.1.15			Powder coated steel 1800mm x 300mm x 450 double tier locker including hasp and staple for padlock facility to Architects details	No.	1		
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
			LETTERS, NAMEPLATES, ETC				
8.1.16			152 x 152 x 2mm aluminium, anodised silver engraved sign with male pictogram E10	No	1		
8.1.17			152 x 152 x 2mm aluminium, anodised silver engraved sign with female pictogram E11	No	1		
8.1.18			152 x 152 x 2mm aluminium, anodised silver engraved sign with paraplegic pictogram pictogram E14	No	1		
8.1.19			152 x 152 x 2mm aluminium, anodised silver engraved sign with words STORE	No	2		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
9			BILL NO.9				
9,1			METALWORK				
			PREAMBLES				
			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
			STEEL WINDOWS, DOORS, ETC				
			1,2mm Double rebated frames suitable for one . brick walls complete with crimped lugs for building in, 2 x 100mm galvanised and welded loose pin 29 hinges and adjustable chrome plated striking plate all to comply to SANS 11				
9.1.1			Frame for single door size, 813 x 2032mm. (D2)	No	4		
9.1.2			Frame for single door size, 914 x 2032mm. (D3)	No	1		
			1,2mm Double rebated frames suitable for half brick walls complete with crimped lugs for building in, 2 x 100mm galvanised and welded loose pin hinges and adjustable chrome plated striking plate all to comply to SANS 1129.				
9.1.3			Frame for single door size, 762 x 1882mm. (D1)	No	6		
			STEEL WINDOWS				
			<u>Standard profile steel windows as per Window schedule</u>				
9.1.4			Window W1 type NE1, size 533 x 654mm high including burglar bars	No	14		
			STEEL LOVRES				
9.1.5			Custom made steel louvres as per specialist W3 , size 1 513 x 406mm	No	2		
			METAL GATES, ETC				
9.1.6			Standard NTY combi door and frame with galvanised mild steel gate and cylinder lock, size 914 x 2032m	No	1		
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY

REFURBISHMENT OF NAMAKGALE STADIUM

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ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BALANCE BROUGHT FORWARD							
9.1.7			Purpose made gate made out of standard 76 x 38mm rectangular steel tubing, size 1 205 x 2 060mm, D7	No	1		
9.1.8			Purpose made gate made out of standard 76 x 38mm rectangular steel tubing, size 1 500 x 2 060mm, D8	No	1		
9.1.9			Purpose made gate made out of standard 76 x 38mm rectangular steel tubing, size 1 673 x 2 060mm, D9	No	1		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
10			BILL NO.10				
			PLASTERING				
			PREAMBLES				
			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
			SCREEDS				
			<u>Wood floated screeds on concrete:</u>				
10.1.1			30mm Thick on floors and landings.	m ²	68		
			GRANOLITHIC				
			<u>Untinted granolithic, on concrete finished with two coats of wax</u>				
10.1.2			30mm Thick on floors and landings.	m ²	5		
			INTERNAL PLASTER				
			<u>Cement plaster steel trowelled on brickwork on:</u>				
10.1.3			Internal walls	m ²	374		
10.1.4			Narrow widths	m ²	5		
			EXTERNAL PLASTER				
			<u>Cement plaster on brickwork on:</u>				
10.1.5			External walls	m ²	61		
10.1.6			Narrow widths	m ²	5		
			CORNER PROTECTORS, DIVIDING STRIPS, ETC				
10.1.7			25 x 3mm Flat section brass dividing strips between different floor finish cast into concrete	m	1		
10.1.8			40 x 3mm Flat section weather bar cast into concrete	m	1		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
11			BILL NO.11				
11,1			TILLING				
			PREAMBLES				
			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
			<u>SUPPLEMENTARY PREAMBLES</u>				
			<u>Accuracy</u>				
			Accuracy of tiling works shall comply with Grade II as described in SANS 10155 Accuracy of Building Works, refer to paragraph 5.8 of SANS 10155.				
11.1.1			Floor tiling	m ²	64		
11.1.2			300mm x 75 x 10mm thick ceramic tile skirting to match floor tile, installed with approved tile adhesive and dove grey tile grout, to cement plastered wall. Top of tile skirting to be neat and level and prepared for painting.	m	5		
			<u>WALL TILING</u>				
			Supply and install 330mm x 3300mm first grade glazed ceramic wall tile with tile wear rating 4, fixed to internal wall plaster backing with quality tile adhesive mixed with bonding liquid in lieu of water, with 3mm joints continuous in both directions, and grouted with dove grey tile grout.				
11.1.3			Wall tiling	m ²	94,5		
			SUNDRIES				
11.1.4			Soap dish	No	2		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
12			BILL NO. 12				
12,1			PLUMBING AND DRAINAGE (Provisional)				
			PREAMBLES				
			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
			All plumbing and drainage to comply to SANS 10252-1 and 0252-2 and 10400 part P.				
			RAINWATER DISPOSAL				
			Galvanised steel gutters				
12.1.1			150mm wide Gutter including fixing brackets	m	13		
12.1.2			Extra over 150mm girth eaves box gutter for stopped end	No	1		
12.1.3			Extra over 150mm girth eaves gutter for angle	No	3		
12.1.4			Extra over 150mm girth eaves gutter for outlet for 75mm diameter pipe	No	3		
12.1.5			75mm Diameter rainwater pipe including holderbolts etc	m	10		
12.1.6			Extra over 75mm diameter rainwater pipe for bend	No	3		
12.1.7			Extra over 75mm rainwater pipe for shoe	No	3		
12,18			Extra over 75mm diameter rainwater pipe for eaves or plinth offset 600mm projection	No	3		
			SANITARY FITTINGS				
			SANITARY FITTINGS, INCLUDING FIXING AND BUILDING IN, BEDDING SOLID IN POSITION, SEALING ALL ROUND AT ABUTMENT WITH WHITE SILICONE AND MAKING ALL COUPLINGS AND CONNECTIONS TO PIPES				
			WC's, URINALS, BASINS ETC				
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BALANCE BROUGHT FORWARD							
12.1.9			Approved Vaal Sanitaryware vitreous china 2 No "Loerie" close coupled 900 outlet open rim washdown pan (code 771300) and 711739) complete with lid and fitments; supplied with quality thermoset seat. Colour White	No	6		
12.1.10			Vaal Sanitaryware vitreous china "Protea Paraplegic" 900 pan (code 750200) and matching 9 litre cistern (code 710631) complete with lid, fitments, and purpose made C.P. side-flush level left or back inlet exposed flush valve. Bottom inlet water supply must be on same side as flush lever.	No	1		
12.1.11			Vaal Sanitaryware vitreous china 6 No 635x485mm rounded "Lotus" basin with one semi-punched taphole, intergrated overflow, and chainstay hole through the centre semipunched taphole. Colour White. To include: chrome fixations (Code: VAA-8448Z000), waste trap (Code: COB-303), overflow, (COB-309-32) and chrome bottle trap (Code: COB-345/50)	No	7		
12.1.12			415 x 275 x 315mm Vaal Sanitaryware white vitreous china wall mounted urinal including 38mm chromium plated domical grating, fixed on and including two hanger brackets. To include 115x50mm Junior flushmaster flushvalve (Code: COB-FJT6-000) and 215mm flush pipe (Code: COB-FJT5-5), and 70mm chrome waste trap (Code: COB-365/50)	No	4		
12.1.13			TAPS, SHOWERS, ETC Cobra Chrome-plated medical elbow action square - type pillar tap with 1/4 ceramic disc, blue indice and 1/2 BSP male inlet, and flanged backnut, ideal for medical, kitchen and industrial installations.	No	7		
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
12.1.14			115mm Chrome plated metering pillar tap. Includes self-closing, non-hold open, flow controller with flow cycle of 1 - 20 seconds, 1/2" male inlet, backnut, washer, and streamline outlet for flow aesthetics. (Code: COB-KM2-100) SANS 1808-9. To include cobra angle stop valve with braid flexi hose (Code: COB-832/350F)	No	7		
12.1.15			Cobra Star bib tap chrome plated. Includes hot & cold indicators, 1/2" BSP male inlet, extended bib tap, sliding wall flange and flow straightener for flow aesthetics. SANS 226	No	2		
12.1.16			Allow a budgetary allowance of R10 000 (Ten Thousand Rands) for sanitary plumbing fittings	No	1		
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
13			BILL NO. 13				
13,1			GLAZING				
			SUPPLEMENTARY PREAMBLES				
			For preambles see"Model Preambles for Trades (2008)"as well as the documents mentioned in R of the Model Preambles for Trades which shall take precedence where there are discrepancies.				
			Note: Glazing of laminated safety glass into steel frames:all edges to be sealed with 15mm selotape to prevent water absorption via the vinyl interlayer. Glass to be set on 25mm neoprene rubber setting blocks of 60 - 90 degree sure hardness				
			WINDOW GLAZING				
13.1.2			Obscure Glazing	m ²	5		
			TOPS, SHELVES, DOORS, MIRRORS, ETC				
			6mm Silvered float glass copper backed mirrors with 10 mm bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete				
13.1.2			Mirror 450 x 600mm with polished edges, fixed to wall with chromium plated dome head screws to administration bathrooms	No	1		
13.1.3			Mirror 1500 x 1200mm with polished edges, fixed to wall with chromium plated dome head screws to administration bathrooms	No	1		
13.1.4			Mirror 3500 x 1200mm with polished edges, fixed to wall with chromium plated dome head screws to administration bathrooms	No	1		
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
14			BILL NO. 14				
14,1			PAINTWORK				
			SUPPLEMENTARY PREAMBLES				
			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
			<u>Ironmongery</u>				
			Arrange a meeting with the paint specifier and the architect well in advance of the start of any painting works, discuss all aspects of the works. All paintwork to be in strict accordance to paint supplier's specifications. Paint specifier to inspect all works and substrates prior to and after painting in order to ensure valid guarantees to be issued.				
			<u>Gaurantee</u>				
			5 year product gaurantee.				
			ON FLOATED PLASTER				
			Clean and prepare surface, prime with one coat professional plaster primer with an over coating time of 16 hours and finish with three coats professional all-purpose matt eggshell enamel interior wall coating				
14.1.1			On internal plastered walls	m ²	280		
			Clean and prepare surface, prime with one coat professional plaster primer with an over coating time of 16 hours and finish with three coats professional all-purpose matt eggshell enamel exterior wall coating				
14.1.2			On external plastered walls	m ²	61		
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
			Clean, prepare surface and apply one coat alkali water resistant paint resistant primer and two coats				
			ON WOOD				
			Prepare surface, treat all knots and resinous areas, apply 3 coats wooden varnish				
14.1.3			On timber doors and frames	m ²	0		
14.1.4			On ceilings	m ²	70		
			ON METAL				
14.1.4			On ceilings	m ²	70		
			ON METAL				
			Clean, prepare surface and apply three coats gloss enamel paint				
14.1.5			Doors and frames	m ²	36		
14.1.6			Windows with burglar bars	m ²	13		
14.1.7			On gates (Measured over the full flat area of both sides)	m ²	11		
14.1.8			On gutters and down pipes	m	25		
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY

REFURBISHMENT OF NAMAKGALE STADIUM

CONTRACT No. 07/20/21

BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2: CHANGE ROOMS

	DESCRIPTION	AMOUNT
	SECTION SUMMARY FOR BUILDING WORKS	
1	EARTHWORKS (PROVISIONAL)	
2	CONCRETE,FORMWORK AND REINFORCEMENT	
3	MASONRY	
4	WATERPROOFING	
5	ROOF COVERING	
6	CARPENTRY AND JOINERY	
7	CEILINGS, PARTITION AND ACCESS FLOORING	
8	IRON MONGERY (PROVISIONAL)	
9	METALWORK	
10	PLASTERING	
11	TILING	
12	PLUMBING AND DRAINAGE (PROVISIONAL)	
13	GLAZING	
14	PAINTWORK	
TOTAL BUILDING WORKS CARRIED TO FINAL SUMMARY		

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1			BILL NO 1 EARTHWORKS (Provisional) PREAMBLES For preambles see, " Model Preambles for Trades (2008)" as well as the provisions of SANS1200D shall apply. SANS1200D shall take precedence where there are discrepancies <u>SUPPLEMENTARY PREAMBLES</u> <u>a) Nature of ground</u> Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth", and where conditions of a more difficult character are indicated, these are separately measured <u>b) Carting away of excavated material</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material into trucks directly from excavations or, alternatively, from stock piles situated on the building site Removal and cart away of all rubble shall be to the Employers' approved dumping site c) Filling Notwithstanding the reference to prescribed I multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material. <u>SITE CLEARANCE, ETC</u> <u>Site clearance</u> Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not				
1.1.1							
1.1.2				m ²			Rate Only
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
			exceeding 20mm girth				
			<u>EXCAVATIONS, FILLING, ETC.</u>				
			<u>Excavations</u>				
			Excavate in earth not exceeding 2m deep				
1.2			Trenches	m ³	100		
			Extra over trench and hole excavations in soft material for excavation in				
1.2.1			Soft rock	m ³	10		
1.2.2			Hard rock	m ³	10		
			Extra over excavation for carting away				
1.2.3			Surplus material from excavation to a dumping site to be located by the contractor	m ³	42		
			Risk of collapse of excavations				
1.2.4			Risk of collapse to sides of excavation for trenches and holes from natural, elevated or reduced ground level not exceeding 1,5m deep	m ²	287		
			Keeping excavations free of water				
1.2.5			Allow for keeping excavations free of water other than subterranean water	Item	1		
			FILLING, ETC.				
			Earth filling with selected material obtained from the excavation and/or stork piles on site compacted to 95% Mod AASHTO				
1.2.6			Backfilling to trenches, holes, etc	m ³	43		
			Earth filling G7 material supplied by the contractor compacted to 95% Mod AASHTO density				
1.2.7			Under floors, etc	m ³	0		
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BALANCE BROUGHT FORWARDS							
1.2.8			Earth filling with selected material obtained from the excavation and/or stork piles on site compacted to 89% Mod AASHTO Under floors etc including light compaction	m ³	54		
1.2.9			Compaction of surfaces Compaction of ground surfaces under floors , etc including scarifying for a depth of 300mm breaking down oversize material,adding suitable material where necessary and compacting in 150mm layers to 95% Mod AASHTO density	m ²	398		
1.2.10			Prescribed density tests on filling Modified AASHTO Density test	No.	8		
SOIL POISONING							
1.2.11			Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years Under floors etc including forming and poisoning shallow furrows against foundation walls etc,filling in fullows and raming	m ²	359		
1.2.12			To bottom and sides of trenches etc	m ²	431		
1.2.13			To bottom of concrete aprons	m ²	53		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2			BILL NO 2 CONCRETE, FORMWORK AND REINFORCEMENT (Provisional) PREAMBLES NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill <u>SUPPLEMENTARY PREAMBLES</u> <u>Accuracy</u> Accuracy of concrete works shall comply with Grade II as described in SANS10155 Accuracy of Building Works, refer to paragraph 5.3 and 5.4 of SANS10155. <u>Formwork</u> Formworks to soffits of solids etc shall be deemed to be slabs not exceeding 300mm thick unless otherwise described Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measure and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks" <u>H.D. Bolts and Miscellaneous Metal Work</u> All H.D bolts, washers and nuts to be supplied by the contractor Rates to include for sandblasting and galvanising all bolts and metal work to applicable specification				
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARDS				
			CONCRETE				
			(JBCC CPAP WORK GROUP No. 110)				
			UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
			15MPa/19mm concrete				
2.1.2			Surface blinding under blinding footings and bases	m ³	6		
			UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
			25MPa/19mm concrete				
2.1.3			Surface beds cast in panels	m ³	40		
2.1.4			Strip footings	m ³	36		
2.1.5			Beams	m ³	2		
2.1.6			Aprons	m ³	5		
			Test blocks				
2.1.7			Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No.	8		
			CONCRETE SUNDRIES				
			Finish top surfaces of concrete smooth with a wood float to:				
2.1.8			Surface beds cast in panels	m ²	398		
			FORMWORK				
			Rough formwork to sides:				
2.1.9			Edges, risers, ends and reveals not exceeding 300mm high	m ²	5		
			Soft formwork to sides and soffits:				
			Beams	m ²	12		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARDS				
			MOVEMENT JOINTS,ETC				
			10mm Thick isolation between concrete surface beds and wall				
2.1.10			Not exceeding 300mm high to edges of surface beds	m	256		
			Saw cut joints				
2.1.11			Machine cut open joint 3mm wide × 40mm deep in top of concrete surface bed including short length,etc	m	30 0		
			REINFORCEMENT				
			NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 114 for contract price adjustment purposes				
			Mild steel bar reinforcement to structural concrete work				
2.1.12			10mm Diameter bars	ton	1,50		
			High tensile steel reinforcement to structural concrete work				
2.1.13			12mm Diameter bars	ton	1,50		
			Fabric reinforcement				
2.1.14			Type 193 fabric reinforcement in concrete surface beds,slabs ,etc	m ²	359		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3			<p>BILL NO.3</p> <p>MASONRY</p> <p>PREAMBLES</p> <p>NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Sizes in Descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick.</p> <p><u>Hollow Walls</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p><u>Face Brick</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour.</p> <p>Pointing</p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to tinclude square recessed, hollow recessed, weathered pointing, etc</p> <p><u>Accuracy</u></p> <p>Accuracy of masonry works shall comply with Grade II as described in SANS 10155 Accuracy of Building Works, refer to paragraph 5.5 of SANS 10155</p>				
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARDS				
			BRICKWORK IN FOUNDATIONS (PROVISIONAL)				
			Brickwork of NFX clay bricks complying with SANS227 (14 Mpa nominal compressive strength) in Class II (1:3) mortar in:				
3.1.1			One brick walls	m ²	205		
			BRICK WORK IN SUPERSTRUCTURE				
			Brickwork of NFX clay bricks complying with SANS227 (14 Mpa nominal compressive strength) in Class II (1:3) mortar in:				
3.1.2			Half brick walls	m ²	193		
3.1.3			One brick walls.	m ²	618		
			BRICKWORK SUNDRIES				
			Bagging of 1:3 cement and sand mixture				
3.1.4			Bag outer face or inner skin of brick wall to receive bitumen paint (elsewhere measured)	m ²	167		
			Joint forming material in movement				
3.1.5			10mm thick brick impregnated softboard expansion joint filling, built in vertically as the proceeds, including all cutting and waste	m ²	1,5		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARDS				
			Brickwork reinforcement				
3.1.6			75mm wide reinforcement built in horizontally	m	759		
3.1.7			150mm wide reinforcement built in horizontally	m	2435		
			Turning pieces to lintels, etc.:				
3.1.8			230mm wide turning pieces.	m	8		
			Prestressed fabricated concrete lintels including necessary temporary supports				
3.1.9			110 x 75mm Lintels in lengths not exceeding 3m	m	124		
			Facebrick				
			FBS clay face bricks complying with SANS227 (14 Mpa nominal compressive strength) in class II (1:3) mortar with recessed horizontal and vertical joints				
3.1.10			Extra over brickwork for face brickwork	m ²	230		
			Brick-on-edge lintels, header course copings, sills, etc. of FBS clay face bricks complying nt with SANS227 (14 Mpa nominal compressive strength) in class II (1:3) mortar with recessed horizontal and vertical joints				
3.1.11			Extra over brickwork for face brick-on-edge cills	m	20		
			Galvanised wire ties etc				
3.1.12			6mm Diameter roof tie 2m girth bent double with one end fixed to timber and	m	38		
			Ventillation bricks				
3.1.13			Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	no	12		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4			<p>BILL NO. 4</p> <p>WATERPROOFING</p> <p>PREAMBLES</p> <p>NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Gaurantee</u> Provide an insuarance backed gaurantee from the manufacturer for the waterproofed area including flashings, skirtings, outlets, expansion joints, etc for a minimum period of 10 years. If any finish installed over the waterproofing is to be removed due to leaks it shall be replaced by the gaurantor at no charge.</p> <p><u>Waterproofing</u> Arrange a meeting with the waterproofing contractor, waterproofing manufacturer and the architect well in advance of the start of any waterproofing works, discuss all aspects of the waterproofing. After this meeting obtain from the manufacturer a written waterproofing specification and all applicable waterproofing details, submit to the architects for acceptance</p> <p>During the course of the works the manufacturer the waterproofing material must inspect regularly and upon completion of the installation must in writing that the application has been done in accordance with the manufacturers instructions</p> <p>Prior to installation of the waterproofing protection layer a 48hr flood test must be performed; provide test report on completion.</p> <p>Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-down</p>				
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARDS				
			DAMPROOFING OF WALLS AND FLOORS				
			One layer of 375 micron black embossed polyolefin damp proof course complying with SANS952 type B.				
4.2.1			Laid horizontally in unjointed lengths and with full corner laps over full width of wall 150mm above external finished ground level, under copings, . stepped over lintels, under window sills and tucked in under window profiles	m ²	62		
			One layer 250 micron smooth green polyolefin membrane complying with SANS952 type C.				
4.2.2			Laid under surface beds in the largest practical sizes with 200mm laps, seal laps in accordance manufacturers specification, fold membrane up against external walls	m ²	359		
			Two coats "Brixal" bitumen emulsion waterproof coating				
4.2.3			On bag washed brick walls	m ²	167		
			JOINT SEALANTS, ETC.				
			Jaycothane' 673 polyurethane sealant compound including 15mm compressible filler with tear off slip, etc				
4.2.4			In 10 x 10mm Isolation joints	m	256		
			Two-part "Jaycothane" 673 sealant including 10mm closed cell polyethylene backing cord "sondor cordex", bond breaker, 'Jaycothane' primer, etc				
4.2.5			3 x 10mm In saw cut joints in floors	m	30		
			Polyurathane sealant				
			Sealant around door frames and windows to match colour of window frames	m	204		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5			<p>BILL NO.5</p> <p>ROOF COVERINGS</p> <p>PREAMBLES</p> <p>NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing of roof sheeting</u></p> <p>The sheets shall be fixed to every purlin by mean of patented fixing method which will securelyhold the sheet in position and lockin both the sidelap and centre ribs. The clips shall be manufactured Galvanised steel and shall be fixed to the steel purlins with cadmium plated tek 3 no 10,24 x s. 16mm long self-drilling screws, or with NA2 annular nails to timber purlin</p> <p>0,8mm Thick flashings</p> <p>Flashings shall be approved and fixed to the sheeting with clips to obviate any direct fixing perforation. Prior to flashings being fixed, all troughs at the apex shall be stop ended to the depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip</p> <p>Flashing flanges shall be notched to the sheet profile where necessary. All these operations be performed with special tools. Care shall be taken to ensure that no sheeting or flashing will cut with abrasive disc on roof surface in order to prevent steel spatter from penetrating colour areas</p> <p>Certificate for Roof Covering</p> <p>The contractor is to submit a certificate signed by themerchant, stating that the roof covering supplied, complies with the required thickness specified</p>				
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			<p>BALANCE BROUGHT FORWARDS</p> <p><u>Loads & Deflections</u></p> <p>Accommodate all wind loading and pressures safely during installation and after completion, without detriment to the performance of the works.</p> <p>Accommodate all tolerances and movements of the building structure without damage or reduction in the performance of the works</p> <p>Accommodate known impact loads, or transferred impact loads that occur during service life, as well as loads imposed during maintenance</p> <p><u>Quality Control</u></p> <p>Take special care and precautions at all times to prevent scratching and / or other damage to the finished surfaces. Scratched and / or damaged sheets will not be accepted.</p> <p>At all times roof boards shall be used as walking areas on the roof to avoid damage to sheets</p> <p>All exposed fixings for roofing, fittings, atc, shall be with top speed stainless steel fixing screws or fasteners with stainless steel bonded washers unless otherwise stated</p> <p><u>Gaurantee</u></p> <p>Provide 5 year material and workmanship gaurantee. Provide 10 year paint finish gaurantee.</p> <p><u>ROOF COVERINGS, WALL CALDDING AND ACCESSORIES</u></p> <p><u>0.5mm thick brownbuilt kliplock profile roof sheeting @ 5 degree pitch, complete with all necessary flashing and fittings as by manufacturers.</u></p>				
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5.2			BALANCE BROUGHT FORWARDS Roof covering with pitch not exceeding 5 degrees as specified on architectural drawings and in accordance to manufacturers recommendation	m ²	210		
5.2.1			SHEET METAL FLASHINGS, LININGS, COPINGS, ETC Eaves flashing in continuous lengths as per manufacturers recommendations.	m	61		
5.2.2			Sidewall flashing and counter flashing chased into wall	m ²	8		
5.2.3			ROOF INSULATION <u>4mm Alu-bubble double bubble roof insulation laid all in accordance with the manufacturer's recommendations.</u> Fixed to underside of roof sheeting in accordance with the manufacturer's recommendations.	m ²	210		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6			BILL NO.6 CARPENTRY AND JOINERY PREAMBLES NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill <u>SUPPLEMENTARY PREAMBLES</u> Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type <u>Descriptions</u> The term "planted on" shall mean the nailing of timber to timber The term "screwed on" shall mean the countersunk screwing of timber to timber The term "screwed and pelleted on" shall mean the screwing of timber to timber with the heads of screwssunk and pelleted The term "screwed and pelleted on" shall mean thescrewing of timber to timber with the heads of screwssunk and pelleted The term "plugged" shall mean the countersunk screwing of timber to brickwork or concrete including plastic plugs The term "plugged and pelleted" shall mean the screwing of timber to brickwork or concrete including plugs with heads of screws sunk and pelleted Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc				
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			<p>BALANCE BROUGHT FORWARDS</p> <p><u>Joinery</u></p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p>Items described as "nailed" shall be deemed fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Fixing</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p>Decorative laminate finish</p> <p>The sizes listed are Nominal sizes for solid SA pinemembers</p> <p><u>Quality Control - Doors</u></p> <p>Submit test certificate from door supplier / manufacturer that typical prototype type of door has been tested and meets the specified performance, exposure and fire classification</p> <p><u>Shop Drawings - Joinery Fittings</u></p> <p>Provide shop drawings of each typical type of joinery fitting for acceptance prior to execution of the works, provide samples as called for by the architects for acceptance.</p> <p><u>Prefabricated Roof Trusses</u></p> <p>Prefabricated trusses shall be fabricated in a factory by a truss fabricator who has been awarded a Certificate of Competence by the Institute of Timber Construction and is approved by the Principal Agent.</p> <p>All trusses shall be designed by a registered Professional Engineer in accordance with SABS Code of Practice for Design of Timber Structures</p>				
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARDS				
			<u>PREFABRICATED ROOF TRUSSES. ETC.</u>				
			Sawn softwood:				
6.1.1			50 x 76mm Purlins	m	204		
6.1.2			38 x 114mm Wall plate bedded level on and including cement mortar	m	66		
			Plate nailed timber roof truss construction The following is applicable in respect of roof trusses				
			<u>Mono pitched prefabricated roof trusses bearing on wall plate on both sides</u>				
6.1.2			Mono pitched timber roof truss with 300mm overhang at the end, spanning 6 179mm	No	13		
6.1.3			Mono pitched timber roof truss with 300mm overhang at the end, spanning 5 533mm	No	4		
6.1.4			Mono pitched timber roof truss with 300mm overhang at the end, spanning 4 563mm	No	5		
6.1.5			Mono pitched timber roof truss with 300mm overhang at the end, spanning 2 030mm	No	2		
			<u>Sundries</u>				
6.1.6			Wrought faces on sawn timbers	m	113		
			Two coats creosote on sawn timbers	m	113		
			NUTEC FIBRE CEMENT fibre-cement				
6.1.7			Fascia board & Barge board	m	75		
			<u>DOORS, ETC.</u>				
			<u>44mm Thick Semi-solid meranti doors</u>				
6.1.8			Semi-solid manual inward opening timber single door with 15mm horizontal panels in projection, size 914 x 2032. D3	No	1		
			<u>44mm Thick Solid core doors</u>				
6.1.9			Solid core interior timber single door size 762 x 2032. D1	No	25		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

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BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
6.1.9			Solid core interior timber single door size 813 x 2032. D2	No	6		
			FITTINGS, E.T.C				
			<u>Wrought meranti</u>				
6.1.10			Timber panel bench to Architects detail, size 2 700 x 500 x 500mm high	no.	2		
6.1.11			Timber panel bench to Architects detail, size 2 000 x 500 x 500mm high	no.	2		
6.1.12			L-shaped Kitchen floor cupboard unit, overall size 4500 x 550 x 900mm high	no.	1		
			<u>VANITY TOPS</u>				
			<u>Granite</u>				
			<u>Vanity top units comprising 600 x 30mm thick top, 300 x 20mm thick fascia and 100 x 20mm thick splashback skirting, complete with all necessary accessories, the whole plugged into brickwork as per architect's drawing</u>				
6.1.13			1 520mm Long overall with cuttings for 2No. wash hand basins elsewhere measured) including fixing in position to brackets with and including brass screws	no.	2		
6.1.14			2 280mm Long overall with cuttings for 3No. wash hand basins elsewhere measured) including fixing in position to brackets with and including brass screws	no.	2		
6.1.15			3 800mm Long overall with cuttings for 5No. wash hand basins elsewhere measured) including fixing in position to brackets with and including brass screws	no.	2		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

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Employer

Witness 1

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BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7			BILL NO.7				
			CEILINGS, PARTITIONS AND ACCESS FLOORING				
7,1			PREAMBLES				
			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
			<u>SUPPLEMENTARY PREAMBLES</u>				
			<u>Accuracy</u>				
			Accuracy of ceiling finish shall comply with Grade I as described in SANS 10155 Accuracy of Building Works, refer to paragraph 5.8 of SANS 10155				
			<u>Descriptions</u>				
			Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete				
			Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere				
			GYPSUM FLUSH PLASTERED CEILINGS				
7.1.1			9,5mm thick skimmed rhino gypsum ceiling boards fixed on metal screws up grid system suspended from trusses	m ²	190		
7.1.2			Extra over ceiling for opening n.e. 100mm diameter downlighter (provisional)	No.	8		
7.1.3			Extra over ceiling for opening for lights (provisional)	No.	23		
7.1.4			Extra over for Trap door	No.	1		
			<u>Pre-painted or similar shadowline perimeter trims fixed to timber battens. Pre-painted shadowline wall angles, plugged</u>				
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS								
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
			BALANCE BROUGHT FORWARD					
7.1.5			75mm shadowline cornice	m	156			
			CEILING INSULATION					
7.1.6			50mm thick non-combustible light weight fibreglass Glasswool thermal ceiling insulation	m ²	190			
TOTAL CARRIED TO SUMMARY								

Contractor

Witness 1

Witness 2

Employer

Witness 1

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BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
8			<p>BILL NO 8: IRONMONGERY</p> <p>IRONMONGERY</p> <p>PREAMBLES</p> <p>NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>SUPPLEMENTARY PREAMBLES</p> <p><u>Ironmongery</u></p> <p>Arrange a meeting with the ironmongery specifier ironmongery merchant and the architect well in advance of the start of any ironmogery works, discuss all aspects of the works. After this meeting obtain from the ironmongery specifier a written specification and all applicable, submit to the architects for acceptance.</p> <p>During the course of the works the ironmongery specifier must inspect regularly, and upon completion of the installation must certify in writing that the installation is in accordance with the manufacturers instructions.</p> <p><u>Master Key Provision</u></p> <p>All cylinders and lever mechanism locks shall be deemed to be under either a master key plan or suited or a combination of both and shall be agreed in writing with the architect and manufacturer / supplier prior to order placement.</p> <p>Key Handover</p> <p>Before Practical Completion, account for and adequately label all keys. Provide the architect an itemised schedule and retain a duplicate schedule as a receipt. The master keys to be issued by the cylinder/key supplier direct to the architect</p> <p>Gaurantee 5 year product gaurantee.</p>				
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
			<u>Finishes</u>				
			Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:				
			BS Satin bronze lacquered CH Chromium plated				
			SC Satin chromium plated				
			SE Silver enamelled				
			GE Grey enamelled				
			AS Anodised silver				
			AB Anodised bronze				
			AG Anodised gold				
			ABL Anodised black				
			PB Polished brass				
			PL Polished and lacquered				
			PT Epoxy coated				
			SD Sanded				
			<u>Fixing</u>				
			Description of wall mounted and floor standing s ironmongery items shall be deemed to include for fixing in position and all fixing accessorie				
			Description of proprietary items shall be deemed to include for fixing in position and all fixing accessories as specified by the manufacturer				
			HINGES, BOLTS, ETC				
8.1.1			Stainless steel Butt Hinge	No.	66		
8.1.2			Rebate Set	No.	33		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY		
			BALANCE BROUGHT FORWARD				
8,13			WC Indicator Bolts	No.	25		
			LOCKS				
8.1.4			Mortice Lockset	Each	8		
			HANDLES				
8.1.5			Stainless steel 30mm Pull Handle flange fixed	No	3		
			DOOR CLOSERS				
8.1.6			Door closer	No	10		
8.1.7			Floor door stop	No	10		
8.1.8			Dust proof strike	No	10		
8.1.9			Hat and coat hook with buffer	No	35		
			BATHROOM FITTINGS				
8,2			Grade 304 (18/10) stainless steel satin finish wall mounted lockable 3 toilet roll holder, suitable to be mounted onto toilet side wall.	No	25		
8.2.1			Industrial push / pump type lockable wall mounted . soap dispenser with a grade 304 (18/10) stainless steel satin finish and 1L liquid soap capacity	No	16		
8.2.2			Grade 304 (18/10) stainless steel satin finish wall mounted fully automated vandal proof hot air hand dryer, with minimum 2500W power and 30 . m/s air speed	No	4		
8.2.3			32mm stainless steel side grab rail	No	1		
8.2.4			32mm stainless steel rear grab rail	No	1		
			LOCKERS, ETC				
8.2.5			Powder coated steel 2700mm x 300mm x 450 . double tier locker including hasp and staple for padlock facility to Architects details	No.	2		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
			LETTERS, NAMEPLATES, ETC				
8.2.6			152 x 152 x 2mm aluminium, anodised silver engraved sign with male/female/paraplegic pictogram	No	4		
8.2.7			152 x 152 x 2mm aluminium, anodised silver engraved sign with words/number	No	8		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
9			BILL NO.9				
			METALWORK				
9,1			PREAMBLES				
			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
			STEEL WINDOWS, DOORS, ETC				
			1,2mm Double rebated frames suitable for one . brick walls complete with crimped lugs for building in, 2 x 100mm galvanised and welded loose pin 29 hinges and adjustable chrome plated striking plate all to comply to SANS 1129				
9.1.1			Frame for single door size, 813 x 2032mm. (D2)	No	6		
9.1.2			Frame for single door size, 914 x 2032mm. (D3)	No	1		
			1,2mm Double rebated frames suitable for half brick walls complete with crimped lugs for building in, 2 x 100mm galvanised and welded loose pin hinges and adjustable chrome plated striking plate all to comply to SANS 1129.				
9.1.3			Frame for single door size, 762 x 1882mm. (D1)	No	25		
			STEEL WINDOWS				
			<u>Standard profile steel windows as per Window schedule attached</u>				
9.1.4			Window W1 type NE1, size 533 x 654mm high including burglar bars	No	40		
			METAL GATES, ETC				
9.1.5			Standard NTY combi door and frame with galvanised mild steel gate and cylinder lock, size 914 x 2032m (D4)	No	3		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
10			BILL NO.10				
10,1			PLASTERING				
			PREAMBLES				
			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
			SCREEDS				
			<u>Wood floated screeds on concrete:</u>				
10.1.1			30mm Thick on floors and landings.	m ²	190		
			GRANOLITHIC				
			<u>Untinted granolithic, on concrete finished with two coats of waxpolish</u>				
10.1.2			30mm Thick on floors and landings.	m ²	135		
			INTERNAL PLASTER				
			<u>Cement plaster steel trowelled on brickwork on:</u>				
10.1.3			Internal walls	m ²	1004		
10.1.4			Narrow widths	m ²	56		
			EXTERNAL PLASTER				
			<u>Cement plaster on brickwork on:</u>				
10.1.5			External walls	m ²	243		
10.1.6			Narrow widths	m ²	38		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
11			BILL NO.11				
			TILLING				
11,1			PREAMBLES				
			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
			<u>SUPPLEMENTARY PREAMBLES</u>				
			<u>Accuracy</u>				
			Accuracy of tiling works shall comply with Grade II as described in SANS 10155 Accuracy of Building Works, refer to paragraph 5.8 of SANS 10155.				
			330 x 330 x 10mm Full-bodied ceramic tiles as supplied by supplier or similar approved; laid with 3mm joints in tal gold star 6 rapid setting adhesive as per suppliers specifications and detail and dove grey colour				
11.1.1			Floor tiling	m ²	190		
11.1.2			300mm x 75 x 10mm thick ceramic tile skirting to match floor tile, installed with approved tile adhesive and dove grey tile grout, to cement plastered wall. Top of tile skirting to be neat and level and prepared for painting.	m	8		
			<u>WALL TILING</u>				
			Supply and install 330mm x 330mm first grade glazed ceramic wall tile with tile wear rating 4, fixed to internal wall plaster backing with quality tile adhesive mixed with bonding liquid in lieu of water, with 3mm joints continuous in both directions, and grouted with dove grey tile grout.				
11.1.3			Wall tiling	m ²	162		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
12			BILL NO.12				
12,1			PLUMBING AND DRAINAGE (Provisional)				
			PREAMBLES				
			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
			All plumbing and drainage to comply to SANS 10252-1 and 0252-2 and 10400 part P.				
			RAINWATER DISPOSAL				
			Galvanised steel gutters				
12.1.1			150mm wide Gutter including fixing brackets	m	33		
12.1.2			Extra over 150mm girth eaves box gutter for stopped end	No	4		
12.1.3			Extra over 150mm girth eaves gutter for angle	No	12		
12.1.4			Extra over 150mm girth eaves gutter for outlet for 75mm diameter pipe	No	12		
12.1.5			75mm Diameter rainwater pipe including holderbolts etc	m	38		
12.1.6			Extra over 75mm diameter rainwater pipe for bend	No	12		
12.1.7			Extra over 75mm rainwater pipe for shoe	No	12		
12.1.8			Extra over 75mm diameter rainwater pipe for eaves or plinth offset 600mm projection	No	12		
			SANITARY FITTINGS				
			SANITARY FITTINGS, INCLUDING FIXING AND BUILDING IN, BEDDING SOLID IN POSITION, SEALING ALL ROUND AT ABUTMENT WITH WHITE SILICONE AND MAKING ALL COUPLINGS AND CONNECTIONS TO PIPES				
			WC's, URINALS, BASINS ETC				
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
			Approved				
12.1.9			Vaal Sanitaryware vitreous china 2 No "Loerie" close coupled 900 outlet open rim washdown pan (code 771300) and matching 6 litre pushbutton top dual flush cistern (code 711739) complete with lid and fitments; supplied with quality thermostet seat. Colour White	No	25		
12.2			Vaal Sanitaryware vitreous china "Protea Paraplegic" 900 pan (code 750200) and matching 9 litre cistern (code 710631) complete with lid, fitments, and purpose made C.P. side-flush level left or back inlet exposed flush valve. Bottom inlet water supply must be on same side as flush lever.	No	1		
12.3			Vaal Sanitaryware vitreous china 6 No 635x485mm rounded "Lotus" basin with one semi-punched taphole, intergrated overflow, and chainstay hole through the centre semipunched taphole. Colour White. To include: chrome fixations (Code: VAA-8448Z000), waste trap (Code: COB-303), overflow, (COB-309-32) and chrome bottle trap (Code: COB-345/50)	No	18		
12.4			415 x 275 x 315mm Vaal Sanitaryware white vitreous china wall mounted urinal including 38mm chromium plated domical grating, fixed on and including two hanger brackets.To include 115x50mm Junior flushmaster flushvalve (Code: COB-FJT6-000) and 215mm flush pipe (Code: COB-FJT5-5), and 70mm chrome waste trap (Code: COB-365/50)	No	12		
12.5			Shower tray complete including shower doors, etc	No	5		
			TAPS, SHOWERS, ETC				
			Cobra				
12.6			Chrome-plated medical elbow action square - type pillar tap with 1/4 ceramic disc, blue indice and 1/2 BSP male inlet, and flanged backnut, ideal for medical, kitchen and industrial installations.	No	15		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
12,7			115mm Chrome plated metering pillar tap. Includes Cself-closing, non-hold open, flow controller with flow cycle of 1 - 20 seconds, 1/2" male inlet, backnut, washer, and streamline outlet for flow aesthetics. (Code: COB-KM2-100) SANS 1808-9. To include cobra angle stop valve with braid flexi hose (Code: COB-832/350F)	No	15		
12,8			Chrome plated Stella underwall stop tap and including 1/2 BSP female inlets, sliding wall flange, and extra indice with temperature indicator (Code: COB - 3328ST-15) SANS 226 Type 2, DZR brass	No	5		
12,9			Cobra Star bib tap chrome plated. Includes hot & cold indicates, 1/2" BSP male inlet, extended bib tap, sliding wall flange and flow straightener for flow aesthetics. SANS 226	No	5		
12,1			Allow a budgetary allowance of R10000 (Ten Thousand Rands) for sanitary plumbing and fittings	No	1		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
13			BILL NO. 13				
13,1			GLAZING				
			SUPPLEMENTARY PREAMBLES				
			For preambles see"Model Preambles for Trades (2008)"as well as the documents mentioned in R of the Model Preambles for Trades which shall take precedence where there are discrepancies.				
			Note: Glazing of laminated safety glass into steel frames:all edges to be sealed with 15mm selotape to prevent water absorption via the vinyl interlayer. Glass to be set on 25mm neoprene rubber setting blocks of 60 - 90 degree sure hardness				
			WINDOW GLAZING				
13,2			Obscure Glazing	m ²	15		
			TOPS, SHELVES, DOORS, MIRRORS, ETC				
			6mm Silvered float glass copper backed mirrors with 10 mm bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete				
13,3			Mirror 450 x 600mm with polished edges, fixed to wall with chromium plated dome head screws to administration bathrooms	No	1		
13,4			Mirror 2500 x 1200mm with polished edges, fixed to wall with chromium plated dome head screws to administration bathrooms	No	3		
13,5			Mirror 3500 x 1200mm with polished edges, fixed to wall with chromium plated dome head screws to administration bathrooms	No	1		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
14			BILL NO. 14				
14,1			PAINTWORK				
			SUPPLEMENTARY PREAMBLES				
			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
			<u>Ironmongery</u>				
			Arrange a meeting with the paint specifier and the architect well in advance of the start of any painting works, discuss all aspects of the works. All paintwork to be in strict accordance to paint supplier's specifications. Paint specifier to inspect all works and substrates prior to and after painting in order to ensure valid guarantees to be issued.				
			<u>Gaurantee</u>				
			5 year product gaurantee.				
			ON FLOATED PLASTER				
			Clean and prepare surface, prime with one coat professional plaster primer with an over coating time of 16 hours and finish with three coats professional all-purpose matt eggshell enamel interior wall coating				
14,2			On internal plastered walls	m ²	842		
			Clean and prepare surface, prime with one coat professional plaster primer with an over coating time of 16 hours and finish with three coats professional all-purpose matt eggshell enamel exterior wall coating				
14,3			On external plastered walls	m ²	243		
			ON FIBRE-CEMENT				
			Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint				
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
			On fascias and barge boards	m ²	37		
			ON WOOD				
			Prepare surface, treat all knots and resinous areas, apply 3 coats wooden varnish				
			On timber doors and frames	m ²	51		
			Clean, prepare surface and apply one coat alkali resistant primer and two coats water resistant paint				
			On ceilings	m ²	190		
			ON METAL				
			Clean, prepare surface and apply three coats gloss enamel paint				
			Doors and frames	m ²	56		
			Windows with burglar bars	m ²	26		
			On gates (Measured over the full flat area of both sides)	m ²	12		
			On gutters and down pipes	m	70		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY
 REFURBISHMENT OF NAMAKGALE STADIUM
 CONTRACT No. 07/20/21
 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GRAND STAND ABLUTIONS

ITEM NO	DESCRIPTION	AMOUNT
SECTION SUMMARY FOR BUILDING WORKS		
1	EARTHWORKS (PROVISIONAL)	
2	CONCRETE,FORMWORK AND REINFORCEMENT	
3	MASONRY	
4	WATERPROOFING	
5	ROOF COVERING	
6	CARPENTRY AND JOINERY	
7	CEILINGS, PARTITION AND ACCESS FLOORING	
8	IRON MONGERY (PROVISIONAL)	
9	METALWORK	
10	PLASTERING	
11	TILING	
12	PLUMBING AND DRAINAGE (PROVISIONAL)	
13	GLAZING	
14	PAINTWORK	
TOTAL BUILDING WORKS CARRIED TO FINAL SUMMARY		

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1								
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
1			BILL NO 1					
1,1			EARTHWORKS (Provisional)					
1.1.2			PREAMBLES For preambles see, " Model Preambles for Trades (2008)" as well as the provisions of SANS1200D shall apply. SANS1200D shall take precedence where there are discrepancies					
1.1.3			<u>SUPPLEMENTARY PREAMBLES</u>					
1.1.4			<u>a) Nature of ground</u> Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth", and where conditions of a more difficult character are indicated, these are separately measured					
1.1.5			<u>b) Carting away of excavated material</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material into trucks directly from excavations or, alternatively, from stock piles situated on the building site Removal and cart away of all rubble shall be to the Employers' approved dumping site					
1,2			<u>c) Filling</u> Notwithstanding the reference to prescribed I multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material. <u>SITE CLEARANCE, ETC</u> <u>Site clearance</u> Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 20mm girth	m ²			Rate Only	
TOTAL CARRIED FORWARD								

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
1,3			<u>EXCAVATIONS, FILLING, ETC.</u>				
1.3.1			<u>Excavations</u>				
			Excavate in earth not exceeding 2m deep				
1.3.2			Trenches	m ³	26		
1.3.4			Trenches circular on plan	m ³	8		
1,4			Extra over trench and hole excavations in soft material for excavation in				
1.4.1			Soft rock	m ³	3		
1.4.2			Hard rock	m ³	3		
1,5			Extra over excavation for carting away				
			Surplus meterial from excavation to a dumping site to be located by the contractor	m ³	14		
1,6			Risk of collapse of excavations				
			Risk of collapse to sides of excavation for trenches and holes from natural, elevated or reduced ground level not exceeding 1,5m deep	m ²	96		
1,7			Keeping excavations free of water				
			Allow for keeping excavations free of water other than subterranean water	Item	1		
1,8			FILLING, ETC.				
			Earth filling with selected meterial obtained from the excavation and/or stork piles on site compacted to 95% Mod AASHTO				
			Backfilling to trenches, holes, etc	m ³	10		
1,9			Earth filling G7 material supplied by the contractor compacted to 95% Mod AASHTO density				
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY

REFURBISHMENT OF NAMAKGALE STADIUM

CONTRACT No. 07/20/21

BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1

ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
1.10			Under floors, etc Earth filling with selected material obtained from the excavation and/or stork piles on site compacted to 89% Mod AASHTO	m ³	2		
1.11			Under floors etc including light compaction Compaction of surfaces	m ³	2		
1.12			Compaction of ground surfaces under floors , etc including scarifying for a depth of 300mm breaking down oversize material,adding suitable material where necessary and compacting in 150mm layers to 95% Mod AASHTO density Prescribed density tests on filling	m ²	15		
1.13			Modified AASHTO Density test SOIL POISONING Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years	No.	5		
			Under floors etc including forming and poisoning shallow furrows against foundation walls etc,filling in fullows and raming	m ²	15		
			To bottom and sides of trenches etc	m ²	48		
			To bottom of concrete aprons	m ²	16		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2			BILL NO 2				
2,1			CONCRETE, FORMWORK AND REINFORCEMENT (Provisional)				
2,2			PREAMBLES NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
2,3			<u>SUPPLEMENTARY PREAMBLES</u> <u>Accuracy</u> Accuracy of concrete works shall comply with Grade II as described in SANS10155 Accuracy of Building Works, refer to paragraph 5.3 and 5.4 of SANS10155.				
2,4			<u>Formwork</u> Formworks to soffits of solids etc shall be deemed to be slabs not exceeding 300mm thick unless otherwise described Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"				
			<u>H.D. Bolts and Miscellaneous Metal Work</u> All H.D bolts, washers and nuts to be supplied by the contractor Rates to include for sandblasting and galvanising all bolts and metal work to applicable specification				
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2,5			BALANCE BROUGHT FORWARD				
			<u>CONCRETE</u>				
			(JBCC CPAP WORK GROUP No. 110)				
2,6			UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
			15MPa/19mm concrete				
			Surface blinding under blinding footings and bases	m ³	2		
2,7			UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
			25MPa/19mm concrete				
			Surface beds cast in panels	m ²	2		
			Strip footings	m ³	9		
			Strip footings circular on plan	m ³	3		
			Suspended slab	m ³	3		
			Aprons	m ³	2		
2,8			Test blocks				
			Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No.	5		
2,9			CONCRETE SUNDRIES				
			Finish top surfaces of concrete smooth with a wood float to:				
			Surface beds cast in panels	m ²	15		
2,1			FORMWORK				
			Rough formwork to sides:				
			Edges, risers, ends and reveals not exceeding 300mm high	m ²	2		
			TOTAL CARRIED TO FORWARD				

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2,11			BALANCE BROUGHT FORWARD				
			MOVEMENT JOINTS,ETC				
			10mm Thick isolation between concrete surface beds and wall				
			Not exceeding 300mm high to edges of surface beds	m	16		
			Saw cut joints				
			Machine cut open joint 3mm wide × 40mm deep in top of concrete surface bed including short length,etc	m	5		
2,12			REINFORCEMENT				
			NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 114 for contract price adjustment purposes				
			Mild steel bar reinforcement to structural concrete work				
			10mm Diameter bars	ton	0,2		
			High tensile steel reinforcementn to structural concrete work				
			12mm Diameter bars	ton	0,3		
			Fabric reinforcement				
			Type 193 fabric reinforcement in concrete surface beds,slabs ,etc	m ²	15		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3			BILL NO.3				
3,1			MASONRY				
3.1.1			PREAMBLES NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
3.1.1			<u>SUPPLEMENTARY PREAMBLES</u>				
3.1.2			<u>BRICKWORK</u> Sizes in Descriptions Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick.				
3.1.2			Hollow Walls Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.				
3.1.3			Face Brick Bricks shall be ordered timeously to obtain uniformity in size and colour.				
3.1.4			Pointing Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
3.1.5			Accuracy Accuracy of masonry works shall comply with Grade II as described in SANS 10155 Accuracy of Building Works, refer to paragraph 5.5 of SANS 10155				
TOTAL CARRIED TO FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.1.6			BALANCE BROUGHT FORWARD				
			BRICKWORK IN FOUNDATIONS (PROVISIONAL)				
			Brickwork of NFX clay bricks complying with SANS227 (14 Mpa nominal compressive strength) in Class II (1:3) mortar in:				
			One brick walls circular on plan	m ²	16		
			460mm brick walls	m ²	52		
3.1.7			BRICK WORK IN SUPERSTRUCTURE				
			Brickwork of NFX clay bricks complying with SANS227 (14 Mpa nominal compressive strength) in Class II (1:3) mortar in:				
			Half brick walls	m ²	18		
			One brick walls.	m ²	55		
			460mm brick walls	m ²	184		
3.1.8			BRICKWORK SUNDRIES				
			Bagging of 1:3 cement and sand mixture				
			Bag outer face or inner skin of brick wall to receive bitumen paint (elsewhere measured)	m ²	16		
			Joint forming material in movement				
			10mm thick brick impregnated softboard expansion joint filling, built in vertically as the proceeds, including all cutting and waste	m ²	10		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.1.9			BALANCE BROUGHT FORWARD				
			Brickwork reinforcement				
			75mm wide reinforcement built in horizontally	m	69		
			150mm wide reinforcement built in horizontally	m	216		
			220mm wide reinforcement built in horizontally	m	724		
			Turning pieces to lintels, etc.:				
			230mm wide turning pieces.	m	10		
			Prestressed fabricated concrete lintels including including necessary temporary supports				
			110 x 75mm Lintels in lengths not exceeding 3m	m	22		
3,2			Facebrick				
			Brick-on-edge lintels, header course copings, sills, etc. of FBS clay face bricks complying nt with SANS227 (14 Mpa nominal compressive strength) in class II (1:3) mortar with recessed horizontal and vertical joints				
			Extra over brickwork for face brick-on-edge cills	m	9		
3,3			Ventillation bricks				
			Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	no	6		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4			BILL NO. 4 WATERPROOFING PREAMBLES NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill <u>SUPPLEMENTARY PREAMBLES</u> <u>Gaurantee</u> Provide an insuarance backed gaurantee from the manufacturer for the waterproofed area including flashings, skirtings, outlets, expansion joints, etc for a minimum period of 10 years. If any finish installed over the waterproofing is to be removed due to leaks it shall be replaced by the gaurantor at no charge. <u>Waterproofing</u> Arrange a meeting with the waterproofing contractor, waterproofing manufacturer and the architect well in advance of the start of any waterproofing works, discuss all aspects of the waterproofing. After this meeting obtain from the . manufacturer a written waterproofing specification and all applicable waterproofing details, submit to the architects for acceptance During the course of the works the manufacturer of the waterproofing material must inspect regularly, . and upon completion of tehinstallation must certify in writing that the application has been done in accordance with the manufacturers instructions Prior to installation of the waterproofing protection layer a 48hr flood test must be performed; provide test report on completion. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-down				
4.1							
4.1.1							
4.1.2							
4.1.3							
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4.2			BALANCE BROUGHT FORWARD				
			DAMPROOFING OF WALLS AND FLOORS				
			One layer of 375 micron black embossed polyolefin damp proof course complying with SANS952 type B.				
4.2.1			Laid horizontally in unjointed lengths and with full corner laps over full width of wall 150mm above external finished ground level, under copings, . stepped over lintels, under window sills and tucked in under window profiles	m ²	16		
4.2.2			Laid horizontally in unjointed lengths and with full corner laps over full width of wall 150mm above external finished ground level, under copings, stepped over lintels, under window sills and tucked in under window profiles circular on plan	m ²	3		
			One layer 250 micron smooth green polyolefin membrane complying with SANS952 type C.				
4.2.3			Laid under surface beds in the largest practical sizes with 200mm laps, seal laps in accordance to manufacturers specification, fold membrane up against external walls	m ²	15		
			Two coats "Brixéal" bitumen emulsion waterproof coating				
4.2.4			On bag washed brick walls	m ²	16		
			JOINT SEALANTS, ETC.				
			Jaycothane' 673 polyurethane sealant compound including 15mm compressible filler with tear off slip, etc				
4.2.5			In 10 x 10mm Isolation joints	m	16		
			Two-part "Jaycothane" 673 sealant including 10mm closed cell polyethylene backing cord "sondor cordex", bond breaker, 'Jaycothane' primer, etc				
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
4.2.6			3 x 10mm In saw cut joints in floors	m	5		
			Polyurathane sealant				
4.2.7			Sealant around door frames and windows to match colour of	m	114		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5			BILL NO.5				
5,1			ROOF COVERINGS				
5.1.1			PREAMBLES				
5.1.2			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
5.1.3			<u>SUPPLEMENTARY PREAMBLES</u>				
5.1.4			<u>Fixing of roof sheeting</u>				
			The sheets shall be fixed to every purlin by means of patented fixing method which will securely hold the sheets in position and lock-in both the side lap and centre ribs. The clips shall be manufactured from Galvanised steel and shall be fixed to the steel purlins with two cadmium plated tek 3 no 10,24 x s. 16mm long self-drilling/tapping screws, or with NA2 annular nails to timber purlin				
			0,8mm Thick flashings				
			Flashings shall be approved and fixed to the sheeting with clips to obviate any direct fixing perforation. Prior to flashings being fixed, all troughs at the apex shall be stop ended to the full . depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip				
			Flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surface in order to prevent steel spatter from penetrating colour coated areas				
			Certificate for Roof Covering				
			The contractor is to submit a certificate signed by themerchant, stating that the roof covering supplied, complies with the required thickness specified				
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5.1.5			<p>BALANCE BROUGHT FORWARDS</p> <p><u>Loads & Deflections</u></p> <p>Accommodate all wind loading and pressures safely during installation and after completion, without detriment to the performance of the works.</p> <p>Accommodate all tolerances and movements of the building structure without damage or reduction in the performance of the works</p> <p>Accommodate known impact loads, or transferred impact loads that occur during service life, as well as loads imposed during maintenance</p>				
5.1.6			<p><u>Quality Control</u></p> <p>Take special care and precautions at all times to prevent scratching and / or other damage to the finished surfaces. Scratched and / or damaged sheets will not be accepted.</p> <p>At all times roof boards shall be used as walking areas on the roof to avoid damage to the sheets</p> <p>All exposed fixings for roofing, fittings, accessories, atc, shall be with top speed stainless steel fixing . screws or fasteners with stainless steel bonded washers unless otherwise stated</p>				
5.1.7			<p><u>Gaurantee</u></p> <p>Provide 5 year material and workmanship gaurantee.</p> <p>Provide 10 year paint finish gaurantee.</p>				
5.2			<p><u>ROOF COVERINGS, WALL CALDDING AND ACCESSORIES</u></p> <p><u>0.5mm thick brownbuilt kliplock profile roof sheeting @ 5 degree pitch, complete with all necessary flashing and fittings as by manufacturers.</u></p>				
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5.2.1			BALANCE BROUGHT FORWARD Roof covering with pitch not exceeding 5 degrees as specified on architectural drawings and in accordance to manufacturers reccomendation	m ²	114		
5.2.2			ROOF INSULATION <u>4mm Alu-bubble double bubble roof insulation laid all in accordance with the manufacturer's recommendations.</u> Fixed to underside of roof sheeting in accordance with the manufacturer's recomendations.	m ²	114		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1								
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
6			BILL NO.6					
6,1			CARPENTRY AND JOINERY					
6.1.1			PREAMBLES NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill					
6.1.2			<u>SUPPLEMENTARY PREAMBLES</u> Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type <u>Descriptions</u> The term "planted on" shall mean the nailing of timber to timber The term "screwed on" shall mean the countersunk screwing of timber to timber The term "screwed and pelleted on" shall mean the and pelleted The term "screwed and pelleted on" shall mean the screwing of timber to timber with the heads of screwssunk and pelleted The term "plugged" shall mean the countersunk screwing of timber to brickwork or concrete including plastic plugs The term "plugged and pelleted" shall mean the screwing of timber to brickwork or concrete including plugs with heads of screws sunk and pelleted Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc					
TOTAL CARRIED TO SUMMARY							R	-

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARDS				R -
6.1.3			<p><u>Joinery</u></p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p>				
6.1.4			<p><u>Fixing</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p>Decorative laminate finish</p> <p>The sizes listed are Nominal sizes for solid SA</p>				
6.1.5			<p><u>Quality Control - Doors</u></p> <p>Submit test certificate from door supplier / manufacturer that typical prototype type of door has been tested and meets the specified performance, exposure and fire classification</p>				
6.1.6			<p><u>Shop Drawings - Joinery Fittings</u></p> <p>Provide shop drawings of each typical type of joinery fitting for acceptance prior to execution of the works, provide samples as called for by the architects for acceptance.</p>				
6.1.7			<p><u>Prefabricated Roof Trusses</u></p> <p>Prefabricated trusses shall be fabricated in a factory by a truss fabricator who has been awarded a Certificate of Competence by the Institute of Timber Construction and is approved by the Principal Agent.</p> <p>All trusses shall be designed by a registered Professional Engineer in accordance with SABS Code of Practice for Design of Timber Structures</p>				
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6.1.8			BALANCE BROUGHT FORWARDS <u>44mm Thick Semi-solid meranti doors</u> Semi-solid manual inward opening timber single door with 15mm horizontal panels in projection, size 914 x 2032. D3	No	2		
6.1.9			<u>VANITY TOPS</u> <u>Vanity top units comprising 600 x 30mm thick top, 300 x 20mm thick fascia and 100 x 20mm thick splashback skirting, complete with all necessary accessories, the whole plugged into brickwork as per architect's drawing</u> 780mm Long overall with cuttings for 1No. Wash hand basins elsewhere measured) including fixing in position to brackets with and including brass screws	no.	1		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
6.2			<u>VANITY TOPS</u>				
6.2.1			<u>Granite</u>				
6.2.3			<u>Vanity top units comprising 600 x 30mm thick top, 300 x 20mm thick fascia and 100 x 20mm thick splashback skirting, complete with all necessary accessories, the whole plugged into brickwork as per architect's drawing</u>				
6.2.4			1 520mm Long overall with cuttings for 2No. wash hand basins elsewhere measured) including fixing in position to brackets with and including brass screws	no.	2		
6.2.5			3 060mm Long overall with cuttings for 4No. wash hand basins elsewhere measured) including fixing in position to brackets with and including brass screws	no.	2		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7			BILL NO.7				
			CEILINGS, PARTITIONS AND ACCESS FLOORING				
7,1			PREAMBLES				
			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
7.1.1			<u>SUPPLEMENTARY PREAMBLES</u>				
			<u>Accuracy</u>				
			Accuracy of ceiling finish shall comply with Grade I as described in SANS 10155 Accuracy of Building Works, refer to paragraph 5.8 of SANS 10155				
			<u>Descriptions</u>				
			Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete				
			Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere				
7.1.2			GYPHUM FLUSH PLASTERED CEILINGS				
7.1.3			9,5mm thick skimmed rhino gypsum ceiling boards fixed on metal screws up grid system suspended from trusses	m ²	15		
7.1.4			Extra over ceiling for opening n.e. 100mm diameter downlighter (provisional)	No.	16		
7.1.5			Extra over ceiling for opening for lights (provisional)	No.	5		
7.1.6			Extra over for Trap door	No.	1		
			<u>Pre-painted or similar shadowline perimeter trims fixed to timber battens. Pre-painted shadowline wall angles, plugged</u>				
7.1.7			15mm shadowline cornice	m	16		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY
 REFURBISHMENT OF NAMAKGALE STADIUM
 CONTRACT No. 07/20/21
 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1

ITEM NO	PAYMENT REFERENC	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7.2			BALANCE BROUGHT FORWARD				
7.2.1			CEILING INSULATION 50mm thick non-combustible light weight fibreglass	m ²	15		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
8			BILL NO 8				
8.1.1			IRONMONGERY				
8.1.2			PREAMBLES				
8.1.3			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
8.1.4			SUPPLEMENTARY PREAMBLES				
8.1.5			<u>Ironmongery</u>				
8.1.6			Arrange a meeting with the ironmongery specifier, from the ironmongery specifier a written specification and all advance of the start of any ironmogery works, from the ironmongery specifier a written specification and all discuss all aspects of the works. After this meeting obtain from the ironmongery specifier a written specification and all applicable, submit to the architects for acceptance				
8.1.7			During the course of the works the ironmongery specifier must inspect regularly, and upon completion of the installation must certify in writing that the installation is in accordance with the manufacturers instructions.				
8.1.8			<u>Master Key Provision</u>				
8.1.9			All cylinders and lever mechanism locks shall be deemed to be under either a master key plan or suited or a combination of both and shall be agreed in writing with the architect and manufacturer / supplier prior to order placement.				
8.1.10			<u>Key Handover</u>				
8.1.11			Before Practical Completion, account for and adequately label all keys. Provide the architect with an itemised schedule and retain a duplicate schedule as a receipt. The master keys to be issued by the cylinder/key supplier direct to the architect				
8.1.12			<u>Gaurantee</u>				
8.1.13			5 year product gaurantee.				
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMA KGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1									
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
8,2			<p>BALANCE BROUGHT FORWARD</p> <p><u>Finishes</u></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:</p> <p>BS Satin bronze lacquered CH Chromium plated</p> <p>SC Satin chromium plated</p> <p>SE Silver enamelled</p> <p>GE Grey enamelled</p> <p>AS Anodised silver</p> <p>AB Anodised bronze</p> <p>AG Anodised gold</p> <p>ABL Anodised black</p> <p>PB Polished brass</p> <p>PL Polished and lacquered</p> <p>PT Epoxy coated</p> <p>SD Sanded</p>						
8,3			<p><u>Fixing</u></p> <p>Description of wall mounted and floor standing s ironmongery items shall be deemed to include for fixing in position and all fixing accessorie</p> <p>Description of proprietary items shall be deemed to include for fixing in position and all fixing accessories as specified by the manufacturer</p>						
8,4			<p>HINGES, BOLTS, ETC</p> <p>Stainless steel Butt Hinge</p> <p>Rebate Set</p>	No.	9				
				No.	3				
TOTAL CARRIED TO SUMMARY									

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMA KGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
8,5			WC Indicator Bolts	No.	1		
			LOCKS				
8,6			Mortice Lockset	Each	3		
			HANDLES				
8,7			Stainless steel 30mm Pull Handle flange fixed	No	2		
			DOOR CLOSERS				
			Door closer	No	3		
			Floor door stop	No	2		
			Dust proof strike	No	2		
			Hat and coat hook with buffer	No	3		
8,8			BATHROOM FITTINGS				
			Grade 304 (18/10) stainless steel satin finish wall mounted lockable 3 toilet roll holder, suitable to be mounted onto toilet side wall.	No	1		
			Industrial push / pump type lockable wall mounted . soap dispenser with a grade 304 (18/10) stainless steel satin finish and 1L liquid soap capacity	No	1		
			Grade 304 (18/10) stainless steel satin finish wall mounted fully automated vandal proof hot air hand dryer, with minimum 2500W power and 30 . m/s air speed	No	1		
			32mm stainless steel side grab rail	No	1		
			32mm stainless steel rear grab rail	No	1		
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
8,9			BALANCE BROUGHT FORWARD LETTERS, NAMEPLATES, ETC 152 x 152 x 2mm aluminium, anodised silver engraved sign with male/female/paraplegic pictogram 152 x 152 x 2mm aluminium, anodised silver engraved sign with words/number	No No	1 2		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
9			BILL NO.9				
			METALWORK				
9,1			PREAMBLES				
			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
9,2			STEEL WINDOWS, DOORS, ETC				
			1,2mm Double rebated frames suitable for one . brick walls complete with crimped lugs for building in, 2 x 100mm galvanised and welded loose pin 29 hinges and adjustable chrome plated striking plate all to comply to SANS 11				
9.2.1			Frame for single door size, 813 x 2032mm. (D2)	No	8		
9.2.2			Frame for single door size, 914 x 2032mm. (D3)	No	2		
9.2.3			1,2mm Double rebated frames suitable for half brick walls complete with crimped lugs for building in, 2 x 100mm galvanised and welded loose pin hinges and adjustable chrome plated striking plate all to comply to SANS 1129.				
9.2.4			Frame for single door size, 762 x 1882mm. (D1)	No	12		
9,3			STEEL WINDOWS				
			<u>Standard profile steel windows as per Window</u>				
9.3.1			Window W1 type NE1, size 533 x 654mm high including burglar bars	No	28		
9,4			STEEL LOVRES				
9.4.1			Custom made steel louvres as per specialist W3 , size 1 513 x 406mm	No	4		
9,5			METAL GATES, ETC				
9.5.1			Standard NTY combi door and frame with galvanised mild steel gate and cylinder lock, size 914 x 2032m	No	2		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE BROUGHT FORWARD				
9.5.2			Purpose made gate made out of standard 76 x 38mm rectangular steel tubing, size 1 205 x 2 060mm, D7	No	1		
9.5.3			Purpose made gate made out of standard 76 x 38mm rectangular steel tubing, size 1 500 x 2 060mm, D8	No	1		
9.5.4			Purpose made gate made out of standard 76 x 38mm rectangular steel tubing, size 1 673 x 2 060mm, D9	No	1		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
11			BILL NO.11				
			METALWORK				
11,1			PREAMBLES				
			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
11,2			STEEL WINDOWS, DOORS, ETC				
			1,2mm Double rebated frames suitable for one brick walls complete with crimped lugs for building in, 2 x 100mm galvanised and welded loose pin hinges and adjustable chrome plated striking plate all to comply to SANS 1129.				
11.2.1			Frame for single door size, 914 x 2032mm. (D3) circular on plan	No	3		
11,3			ALUMINUM WINDOWS				
			<u>Powder Coated aluminium windows tinted double with low E-glazing as per Window Schedule attached</u>				
11.3.1			Window W1 type NE1, size 533 x 654mm high including burglar bars	No	1		
11.3.2			Purpose made circular window W7, overall size 1200 x 1206 mm high including burglar bars	No	2		
11.3.3			Purpose made circular window W8, overall size 1200 x 1206 mm high including burglar bars	No	2		
11,4			METAL GATES, ETC				
11.4.1			Standard NTY combi door and frame with galvanised mild steel gate and cylinder lock, overall size 1 613 x 2032m (D3)	No	2		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
12			BILL NO.12				
12,1			PLASTERING				
			PREAMBLES				
			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
			<u>Wood floated screeds on concrete:</u>				
12,2			30mm Thick on floors and landings.	m ²	15		
			INTERNAL PLASTER				
			<u>Cement plaster steel trowelled on brickwork on:</u>				
12,2.1			Internal walls	m ²	35		
12,2.2			Narrow widths	m ²	56		
12,2.3			Narrow widths	m ²	5		
12,3			EXTERNAL PLASTER				
			<u>Cement plaster on brickwork on:</u>				
12,3.1			External walls	m ²	56		
12,3.2			Narrow widths	m ²	5		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
13			BILL NO.13				
13,1			TILLING				
13.1.1			PREAMBLES				
			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
			<u>SUPPLEMENTARY PREAMBLES</u>				
			<u>Accuracy</u>				
			Accuracy of tiling works shall comply with Grade II as described in SANS 10155 Accuracy of Building Works, refer to paragraph 5.8 of SANS 10155.				
13.1.2			Floor tiling	m ²	15		
13.1.2			300mm x 75 x 10mm thick ceramic tile skirting to match floor tile, installed with approved tile adhesive and dove grey tile grout, to cement plastered wall. Top of tile skirting to be neat and level and prepared for painting.	m	12		
13,3			<u>WALL TILING</u>				
			Supply and install 330mm x 3300mm first grade glazed ceramic wall tile with tile wear rating 4, fixed to internal wall plaster backing with quality tile adhesive mixed with bonding liquid in lieu of water, with 3mm joints continuous in both directions, and grouted with dove grey tile grout.				
13.3.1			Wall tiling	m ²	18		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
13			BILL NO.13:				
			PLUMBING AND DRAINAGE (Provisional)				
13,1			PREAMBLES				
			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
			All plumbing and drainage to comply to SANS 10252-1 and 0252-2 and 10400 part P.				
13.1.1			RAINWATER DISPOSAL				
			Galvanised steel gutters				
13.1.1			150mm wide Gutter including fixing brackets	m	40		
13.1.2			Extra over 150mm girth eaves box gutter for stopped end	No	6		
13.1.3			Extra over 150mm girth eaves gutter for angle	No	6		
13.1.4			Extra over 150mm girth eaves gutter for outlet for 75mm diameter pipe	No	6		
13.1.5			75mm Diameter rainwater pipe including holderbolts etc	m	42		
13.1.6			Extra over 75mm diameter rainwater pipe for bend	No	6		
13.1.7			Extra over 75mm rainwater pipe for shoe	No	6		
13.1.8			Extra over 75mm diameter rainwater pipe for eaves or plinth offset 600mm projection	No	6		
13.2			SANITARY FITTINGS				
			SANITARY FITTINGS, INCLUDING FIXING AND BUILDING IN, BEDDING SOLID IN POSITION, SEALING ALL ROUND AT ABUTMENT WITH WHITE SILICONE AND MAKING ALL COUPLINGS AND CONNECTIONS TO PIPES				
			WC's, URINALS, BASINS ETC				
			TOTAL CARRIED TO SUMMARY				

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BALANCE BROUGHT FORWARD							
Approved							
13.2.1			Vaal Sanitaryware vitreous china 2 No "Loerie" close coupled 900 outlet open rim washdown pan (code 771300) and matching 6 litre pushbutton top dual flush cistern (code 711739) complete with lid and fitments; supplied with quality thermoset seat. Colour White	No	1		
13.2.2			Vaal Sanitaryware vitreous china 6 No 635x485mm rounded "Lotus" basin with one semi-punched taphole, intergrated overflow, and chainstay hole through the centre semipunched taphole. Colour White. To include:	No	1		
TAPS, SHOWERS, ETC							
Cobra							
13.3.1			Chrome-plated medical elbow action square - type pillar tap with 1/4 ceramic disc, blue indice and 1/2 BSP male inlet, and flanged backnut, ideal for medical, kitchen and industrial installations.	No	1		
13.3.2			115mm Chrome plated metering pillar tap. IncludesCself-closing, non-hold open, flow controller with flow cycle of 1 - 20 seconds, 1/2" male inlet, backnut, washer, and streamline outlet for flow aeshtetics. (Code: COB-KM2-100) SANS 1808-9. .To include cobra angle stop valve with braid flexi hose (Code: COB-832/350F)	No	1		
13.3.3			Cobra Star bib tap chrome plated. Includes hot & cold indicates, 1/2" BSP male inlet, extended bib tap, sliding wall flange and flow straightener for flow aesthetics. SANS 226	No	1		
13.3.4			Allow a budgetary allowance of R2 000 (Two Thousand Rands) for sanitary plumbing fittings	No	1		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
14			BILL NO. 14				
14,1			GLAZING				
14.1.1			SUPPLEMENTARY PREAMBLES				
14.1.1			For preambles see"Model Preambles for Trades (2008)"as well as the documents mentioned in R of the Model Preambles for Trades which shall take precedence where there are discrepancies.				
14.1.2			Note: Glazing of laminated safety glass into steel frames:all edges to be sealed with 15mm selotape to prevent water absorption via the vinyl interlayer. Glass to be set on 25mm neoprene rubber setting blocks of 60 - 90 degree sure hardness				
14,2			TOPS, SHELVES, DOORS, MIRRORS, ETC				
14.2.1			6mm Silvered float glass copper backed mirrors with 10 mm bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete				
14.2.2			Mirror 450 x 600mm with polished edges, fixed to wall with chromium plated dome head screws to administration bathrooms	No	1		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	REF	LIC					
15			BILL NO. 15				
			PAINTWORK				
15,1			SUPPLEMENTARY PREAMBLES				
			NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
15,2			<u>Ironmongery</u>				
			Arrange a meeting with the paint specifier and the architect well in advance of the start of any painting works, discuss all aspects of the works. All paintwork to be in strict accordance to paint supplier's specifications. Paint specifier to inspect all works and substrates prior to and after painting in order to ensure valid guarantees to be issued.				
15,3			<u>Gaurantee</u>				
			5 year product gaurantee.				
15,4			ON FLOATED PLASTER				
			Clean and prepare surface, prime with one coat professional plaster primer with an over coating time of 16 hours and finish with three coats professional all-purpose matt eggshell enamel interior wall coating				
15.4.1			On internal plastered walls	m ²	35		
			Clean and prepare surface, prime with one coat professional plaster primer with an over coating time of 16 hours and finish with three coats professional all-purpose matt eggshell enamel exterior wall coating				
15.4.2			On external plastered walls	m ²	57		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
15.5			<u>BALANCE BROUGHT FORWARD</u>				
			ON WOOD				
			Prepare surface, treat all knots and resinous areas, apply 3 coats wooden varnish				
15.5.1			On timber doors and frames	m ²	12		
			Clean, prepare surface and apply one coat alkali resistant primer and two coats water resistant paint				
15.5.2			On ceilings	m ²	15		
			ON METAL				
			Clean, prepare surface and apply three coats gloss enamel paint				
15.5.3			Doors and frames	m ²	7		
15.5.4			Windows with burglar bars	m ²	45		
15.5.5			On gates (Measured over the full flat area of both sides)	m ²	8		
15.5.6			On gutters and down pipes	m	82		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 BUILDINGS:SCHEDULE OF QUANTITIES SECTION 2:GATE 1		
ITEM NO	DESCRIPTION	AMOUNT
	SECTION SUMMARY FOR BUILDING WORKS	
1	EARTHWORKS (PROVISIONAL)	
2	CONCRETE,FORMWORK AND REINFORCEMENT	
3	MASONRY	
4	WATERPROOFING	
5	ROOF COVERING	
6	CARPENTRY AND JOINERY	
7	CEILINGS, PARTITION AND ACCESS FLOORING	
8	IRON MONGERY (PROVISIONAL)	
9	METALWORK	
10	PLASTERING	
11	TILING	
12	PLUMBING AND DRAINAGE (PROVISIONAL)	
13	GLAZING	
14	PAINTWORK	
TOTAL BUILDING WORKS CARRIED TO FINAL SUMMARY		

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

<u>BUILDINGS SUMMARY SUMMARY</u>	
Section No.	Amount
1	PROVISIONAL SUMS
2	CHANGE ROOMS
3	GRAND STAND ABLUTIONS
4	GATE 1
	Total

	=====

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BILLS OF QUANTITIES

FOR

**REFURBISHMENT OF
NAMA KGALE STADIUM**

**C - ELECTRICAL AND
MECHANICAL WORKS**

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 ELECTRICAL & MECHANICAL: SCHEDULE OF QUANTITIES SECTION 1 : PROVISIONAL SUMS							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1	PW 354& SAN 1042		<u>PROVISIONAL SUMS</u> <u>BULK POWER CONNECTION</u>				
1.1			Provide the provisional amount as indicated for 200kVA bulk power connection to be executed by a subcontractor	Item			R 500 000,00
			Percentage adjustment to item 1.1 above to cover Contractor's expenses with regard to items (max 10%)	%			
1.2			<u>LIGHTNING & EARTHING PROTECTION</u>				
1.2.1			Provide the provisional amount as indicated for Lightning & Earthing Protection to be executed by a sub-contractor	Item			R 150 000,00
			Percentage adjustment to item 1.2 above to cover Contractor's expenses with regard to items (max 10%)	%			
1.3			<u>ACCESS CONTROL SYSTEM FOR SECURITY CONTROL GATES</u>				
1.3.1			Provide the provisional amount as indicated for construction of Access Control	Item			R 100 000,00
			Percentage adjustment to item 1.3.1 above to cover Contractor's expenses with regard to items (max 10%)	%			
1.4			<u>FIRE DETECTION SYSTEM</u>				
1.4.1			Provide the provisional amount as indicated for Detection System to be executed by a Specialist Fire Services Sub-Contractor	Item			R 250 000,00
			Percentage adjustment to item 1.4 above to cover Contractor's expenses with regard to items (max 10%)	%			
TOTAL CARRIED TO SUMMARY							

 Contractor

 Witness 1

 Witness 2

 Employer

 Witness 1

 Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
ELECTRICAL & MECHANICAL:SCHEDULE OF QUANTITIES SECTION 2 : PERIMETER LIGHTNING AND PITCH LIGHTNING							
ITEM NO	PAYMENT REF	(LI)	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2.1	PW 354 & SAN 1042		<u>PERIMETER LIGHTING & PITCH LIGHTING</u>				
2.1.			For the Supply, Delivery to Site and Installation of the following Perimeter Lights Units complete as per Specification:Galvanised Steel Stepped poles complete with Spigot, Glandplate & 5A breaker.				
2.1.1			Galvanised Steel Stepped poles 9,5m (Total Height) & 8.0 m mounting height complete with Spigot, Glandplate & 5A breaker	e.a	6		
2.1.2			Beka Schreder Ledlume-Midi -64LED/138W (Complete with all accessories) OR Equivalent As Approved by the Engineer	e.a	6		
2.1.3			Galvanised steel stepped poles 10m mounting height complete with Spigot, Glandplate, 1 cubic meter Grade 30Mpa Steel reinforced Concrete Plinth &5A breaker	e.a	10		
2.1.4			Beka Schreder Ledflood-MAXI -128LED/276W (complete with all accessories)OR Equivalent As Approved by the Engineer	e.a	18		
2.1.5			Beka Zela 37W LED Type Post top Light Complete with the Pole OR Equivalent As Approved by the Engineer	e.a	3		
2.1.6			Beka Schreder Omniblast-2-E 288LED/990W ENB Floodlight (Complete with all accessories) OR Equivalent as Approved by the Engineer and Allow for Modification of existing Mast mounting structures to accommodate the new Lighting fittings.	e.a	16		
2.1.7			Beka Schreder Omniblast-2-E 288LED/990W ENB Floodlight (Complete with all accessories) OR Equivalent as Approved by the Engineer and Allow for Modification of existing Mast mounting structures to accommodate the new Lighting fittings.	e.a	8		
2.1.8			Allow for Testing of Existing Masts to confirm Intergrity of the Steel Structures and Foundations	e.a	4		
			Allow for Overheads and Profit	%			
BALANCE BROUGHT FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
ELECTRICAL & MECHANICAL:SCHEDULE OF QUANTITIES SECTION 2 : PERIMETER LIGHTNING AND PITCH LIGHTNING							
ITEM NO	PAYMENT REF	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE CARRIED FORWARD				
2.2			WIRING ON THE POLE				
2.2.1			600/1000V grade PVC insulated stranded copper conductors compete with terminations and accessories				
2.2.2			2,5mm ² PVC insulated stranded copper conductors	m	1 238		
2.2.3			1.5mm ² Stranded bare copper earth wire	m	619		
2.3			TESTING AND COMMISSIONING				
2.3.1			Supply all Test equipment and Labour for Testing, Commissioning and Adjustment at Completion, as well las being in attendance for any Inspections and Tests that the Engineer may call for.	sum	1		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY								
REFURBISHMENT OF NAMAKGALE STADIUM								
CONTRACT No. 07/20/21								
ELECTRICAL & MECHANICAL: SCHEDULE OF QUANTITIES SECTION 3 : ELECTRICAL SITE RETICULATION								
ITEM NO	PAYMENT REF	(LI)	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
3	PW 354 & SAN 1042		LOW VOLTAGE CABLE					
3.1			For the Supply, delivery to Site and installation of the following Low Voltage Cable: (600/1000V PVC PVC SWA Copper)					
3.1.1			6mm ² x 2 core	m	1800			
3.1.2			10mm ² x 4 core	m	500			
3.1.3			25mm ² x 4 core	m	700			
3.1.4			35mm ² sq x 4 core	m	400			
3.1.5			50mm ² sq x 4 core	m	100			
3.1.6			70mm ² sq x 4 core	m	650			
3.1.7			95mm ² sq x 4 core	m	100			
3.2				BARE COPPER EARTH WIRE (STRANDED) For the Supply and Installation of the following BCE Wire to run with LV Cables:				
3.2.1				50mm ² (With 95mm ² Cable)	m	100		
3.2.2				35mm ² (With 70mm ² Cable)	m	100		
3.2.3				25mm ² (With 50mm ² Cable)	m	100		
3.2.4				16mm ² (With 35mm ² Cable)	m	100		
3.2.5				10mm ² (With 10 - 25mm ² Cable)	m	100		
3.2.6				6mm ² (With 6mm ² Cable)	m	0		
3.3				LOW VOLTAGE CABLE TERMINATIONS For the supply of Indoor terminations including suitable Lugs and Glands for the Low Voltage Cable and BCE Wire:				
3.3.1				95mm ² x 4 core	e.a	4		
3.3.2				70mm ² x 4 core	e.a	4		
3.3.3				50mm ² x 4 core	e.a	2		
TOTAL CARRIED FORWARD								

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
ELECTRICAL & MECHANICAL:SCHEDULE OF QUANTITIES SECTION 3 : ELECTRICAL SITE RETICULATION							
ITEM NO	PAYMENT REF	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE CARRIED FORWARD				
3.3.4			35mm ² x 4 core	e.a	4		
3.3.5			25mm ² x 4 core	e.a	8		
3.3.6			10mm ² x 4 core	e.a	2		
3.3.7			6mm ² x 2 core	e.a	50		
3.4			LOW VOLTAGE DISTRIBUTION KIOSKS				
			Supply , delivery & Installation of 3CR12, Powder coated, plinth mounted, complete with equipment as specified				
3.4.1			Main Kiosk	e.a	1		
3.4.2			Sub Kiosks	e.a	2		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
ELECTRICAL & MECHANICAL:SCHEDULE OF QUANTITIES SECTION 5: GRAND STAND LIGHTNING & POWER							
ITEM NO	PAYMENT REF	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5	PW354&1042		GRANDSTAND LIGHTING & POWER The Contractor shall price for supply, delivery and installation as per the specifications & drawings.				
5.1			Excavation and Trenching General trenching workfor sleeves along the routes as pegged out on site after co-ordination with other services Allowance must be made for the sifting of soil when required, removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried out as specified for overall siteworks.				
5.1.1			Trenching through floor for sleeves	m ³			rate only
5.1.2			Excavation and backfilling in soft soil	m ³			rate only
5.2.3			Excavation and backfilling in hard rock	m ³			rate only
5.2			Cable and Data Sleeves Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
5.2.1			75mm Diameter for Data	m			rate only
5.2.2			110mm Diameter for power cable	m	50		
			Radius bends:				
5.2.3			75mm Diameter	No			rate only
5.2.4			110mm Diameter	No	5		
BALANCE BROUGHT FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
ELECTRICAL & MECHANICAL:SCHEDULE OF QUANTITIES SECTION 5: GRAND STAND LIGHTNING & POWER							
ITEM NO	PAYMENT REF	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BALANCE CARRIED FORWARD							
5.3			Draw Wires Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	1150		
5.4			Distribution Boards				
5.4.1			Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal, using DIN Circuit breakers correctly sized internal, using DIN Circuit breakers. The Distribution board shall allow for 20% Spare Capacity	No	1		
5.4.2			125A Triple pole MCB 6kA Curve 3 (Standard)	No	1		
5.4.3			125A Triple pole isolator (6kA)	No	1		
5.4.4			63A Double pole earth leakage unit (30mA) without overload protection 6kA	No	2		
5.4.5			20A Single Pole MCB 6kA Curve 3 (Standard)		13		
5.4.6			15A Single Pole MCB 6kA Curve 3 (Standard)	No	7		
5.4.7			By-pass switch for photo-electric cell	No	1		
5.4.8			Class 2 double pole surge arrestor	No	1		
5.5			Conduit Work Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
Built or Chase into brick or concrete work:							
5.5.1			20mm PVC Conduit	m	600		
5.5.2			25mm PVC Conduit	m	150		
In Ceiling space and Timber work:							
5.5.3			20mm PVC Conduit	m	200		
5.5.4			25mm PVC Conduit	m	200		
BALANCE BROUGHT FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
ELECTRICAL & MECHANICAL:SCHEDULE OF QUANTITIES SECTION 5: GRAND STAND LIGHTNING & POWER							
ITEM NO	PAYMENT REF	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BALANCE CARRIED FORWARD							
5.6			Conduit Boxes Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
5.6.1			20mm diameter 4 way type(round box)	No	50		
5.6.2			450 x 450mm Bonding tray in roof space	No	200		
5.7			Wall Boxes Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
Flush mounted type:							
5.7.1			100 x 50 x 50mm	No	24		
5.7.2			100 x 100 x 50mm	No	10		
5.8			PVC Wiring in conduits:				
5.8.1			2.5mm ² for lights circuits	m	1500		
5.8.2			4mm ² for plug sockets & Isolators circuits	m	400		
5.8.3			6mm ² for plug stove circuits	m	0		
Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage							
5.8.4			1.5mm ²	m	750		
5.8.5			2.5mm ²	m	200		
5.8.6			4.0mm ²	m	0		
5.9			Light Switches				
BALANCE BROUGHT FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
ELECTRICAL & MECHANICAL:SCHEDULE OF QUANTITIES SECTION 5: GRAND STAND LIGHTNING & POWER							
ITEM NO	PAYMENT REF	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE CARRIED FORWARD				
			Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general speification. All boxes for flush mounting meas				
5.9.1			1 Lever 1 way	No	15		
5.9.2			2 Lever 1 way	No	2		
5.9.3			1 Lever 2 way	No	2		
5.9.4			Occupancy Sensor	No	0		
5.9.5			Photo cell	No	1		
5.10			Socket Outlets				
			Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.				
			The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.				
5.10.1			Flush switched sockets type:				
			16A 3 pin double socket outlets	No	10		
5.11			Light Fittings				
			Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.	No	0		
5.11.1			104W Floodlight LED Type Recess Mounted , Lumen output >= 15500, IP66 in compliance with SANS 60598-2-1				
5.11.2			Circular LED Downlighters 19W , Lumen output >= 2000 fitted with an emergency battrey pack. The light	No	0		
BALANCE BROUGHT FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
ELECTRICAL & MECHANICAL:SCHEDULE OF QUANTITIES SECTION 5: GRAND STAND LIGHTNING & POWER							
ITEM NO	PAYMENT REF	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE CARRIED FORWARD				
			shall consists of a pressed metal ceiling flushed trim, reflector, ceiling brackets and reinforced luminaire frame.				
5.11.3			46W LED Tubes Type with vapour proof cover, Lumen output >= 7760lm in compliance with SANS 60598-2-1	No	24		
5.11.4			Round LED Bulkhead Luminaire 21W Lumen output >= 2500. The Luminaire shall consisting of high protection and non-discolouring diffuser compartment permanently to IP65 and also eliminates tampering with the LED's.	No	16		
5.12			Telephone				
5.12.1			Supply and Installation of a 300 x 300mm - Telephone System DB	No	1		
5.13			Electrical Tests				
			Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
5.13.1			Building installation	Sum	1		
5.14			Other Items				
5.14.1			1 Lever 30A Isolators complete with galvanised steel wall box	No	1		
5.14.2			1 Lever 20A Isolators complete with galvanised steel wall box	No	10		
5.14.3			2300W /220-240V Automatic Stainless Steel hot air Hand dryer	No	10		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
ELECTRICAL & MECHANICAL: SCHEDULE OF QUANTITIES SECTION 6: CHANGE ROOMS & PUBLIC TOILETS LIGHTING & POWER							
ITEM NO	PAYMENT REF	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6	PW 354 & SAN 1042		<u>CHANGE ROOMS & PUBLIC TOILETS LIGHTING & POWER</u> The Contractor shall price for supply, delivery and installation as per the specifications and drawings.				
6.1			Excavation and Trenching General trenching work for sleeves along the routes as pegged out on site after co-ordination with other services Allowance must be made for the sifting of soil when required, removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried out as specified for overall site works.				
6.1.1			Trenching through floor for sleeves	m ³			rate only
			Excavation and backfilling in soft soil	m ³			rate only
			Excavation and backfilling in hard rock	m ³			rate only
6.2			Cable and Data Sleeves Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
6.2.1			75mm Diameter for Data	m			rate only
6.2.2			110mm Diameter for power cable	m	50		
			Radius bends:				
6.2.3			75mm Diameter	No			rate only
6.2.4			110mm Diameter	No	5		
6.3			Draw Wires Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	950		
BALANCE BROUGHT FORWARD							

 Contractor

 Witness 1

 Witness 2

 Employer

 Witness 1

 Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 ELECTRICAL & MECHANICAL: SCHEDULE OF QUANTITIES SECTION 4: CHANGE ROOMS & PUBLIC TOILETS LIGHTING & POWER							
ITEM NO	PAYMENT REF	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BALANCE CARRIED FORWARD							
6.4 Distribution Boards							
6.4.1			Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busters, neutral and earth bars, correctly sized internal, using DIN Circuit breakers. The Distribution board shall allow for 20% spare Spare Capacity	No	1		
6.4.2			60A Single pole MCB 6kA Curve 3(standard)	No	1		
6.4.3			63A Double pole earth leakage unit (30mA) without overload protection 6kA	No	1		
6.4.4			20A Single Pole MCB 6kA Curve 3 (Standard)		7		
6.4.5			15A Single Pole MCB 6kA Curve 3 (Standard)	No	5		
6.4.6			By-pass switch for photo-electric cell	No	1		
6.4.7			Class 2 double pole surge arrestor	No	1		
6.5 Conduit Work							
Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.							
6.5.1			20mm PVC Conduit	m	400		
6.5.2			25mm PVC Conduit	m	150		
BALANCE BROUGHT FORWARD							

 Contractor

 Witness 1

 Witness 2

 Employer

 Witness 1

 Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
ELECTRICAL & MECHANICAL: SCHEDULE OF QUANTITIES SECTION 4: CHANGE ROOMS & PUBLIC TOILETS LIGHTING & POWER							
ITEM NO	PAYMENT REF	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE CARRIED FORWARD				
			<u>In Ceiling space and Timber work:</u>				
6.5.3			20mm PVC Conduit	m	200		
6.5.4			25mm PVC Conduit	m	200		
6.6			Conduit Boxes				
			Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
6.6.1			20mm diameter 4 way type(round box)	No	50		
6.6.2			450 x 450mm Bonding tray in roof space	No	200		
6.7			Wall Boxes				
			Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
6.8			Flush mounted type:				
6.8.1			100 x 50 x 50mm	No	17		
6.8.2			100 x 100 x 50mm	No	3		
6.9			PVC Wiring in conduits:				
6.9.1			2.5mm ² for lights circuits	m	800		
6.9.2			4mm ² for plug sockets & Isolators circuits	m	400		
6.9.3			6mm ² for plug stove circuits	m	0		
			Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
6.9.4			1.5mm ²	m	400		
BALANCE BROUGHT FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
ELECTRICAL & MECHANICAL: SCHEDULE OF QUANTITIES SECTION 4: CHANGE ROOMS & PUBLIC TOILETS LIGHTING & POWER							
ITEM NO	PAYMENT REF	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE CARRIED FORWARD				
6.9.5			2.5mm ²	m	200		
6.9.6			4.0mm ²	m	0		
6.10			Light Switches				
			Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas				
6.10.1			1 Lever 1 way	No	10		
6.10.2			1 Lever 3way	No	0		
6.10.3			1 Lever 2 way	No	2		
6.10.4			Occupancy Sensor	No	0		
6.10.5			Photo cell	No	1		
6.11			Socket Outlets				
			Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.				
			The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.				
			Flush switched sockets type:				
6.11.1			16A 3 pin double socket outlets	No	3		
6.12			Light Fittings				
			Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes.				
BALANCE BROUGHT FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
ELECTRICAL & MECHANICAL: SCHEDULE OF QUANTITIES SECTION 6: CHANGE ROOMS & PUBLIC TOILETS LIGHTING & POWER							
ITEM NO	PAYMENT REF	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE CARRIED FORWARD				
			Allowance must be made in the rates for all the required fixing materials and accessories.				
6.11.1			104W Floodlight LED Type Recess Mounted , Lumen output >= 15500, IP66 in compliance with SANS 60598-2-1	No	0		
6.11.2			Circular LED Down lighters 19W , Lumen output >= 2000 fitted with an emergency battery pack The light shall consists of a pressed metal ceiling flushed trim, reflector, ceiling brackets and reinforced luminaire frame.	No	0		
6.11.3			LED PANEL Luminaire 600X600 30W/4000K, consisting of aluminium body and opal diffuser. IP20 in compliance with SANS 60598-2-1	No	0		
6.11.4			Round LED Bulkhead Luminaire 21W Lumen output >= 2500. The Luminaire shall consisting of high ingress protection and non-discolouring diffuser compartment permanently to IP65 and also eliminates tampering with the LED's.	No	6		
6.11.5			Round LED Bulkhead Luminaire 21W Lumen output >= 2500.The Luminare shall consisting of high ingress protection and non-discolouring diffuser compartment permanently to IP65 and also eliminates tampering with the LED's.	No	6		
6.11.5			Circular LED Downlighters 19W, Lumen output >= 2000. The Light shall consists of a pressed metal ceiling flushed trim, reflector, ceiling brackets and reinforced luminaire frame	No	35		
6.12			Telephone				
6.12.1			Supply and Installation of a 300 x 300mm - Telephone System DB	No	1		
6.13			Electrical Tests				
			Making provision for the required inspection, test and the commissioning of the complete installation and issuing of the required certificate.				
BALANCE BROUGHT FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY

REFURBISHMENT OF NAMAKGALE STADIUM

CONTRACT No. 07/20/21

ELECTRICAL & MECHANICAL: SCHEDULE OF QUANTITIES SECTION 6: CHANGE ROOMS & PUBLIC TOILETS LIGHTING & POWER

ITEM NO	PAYMENT REF	(LI)	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE CARRIED FORWARD				
6.13.1			Building installation	Sum	1		
6.14			Other Items				
6.14.1			1 Lever 30A Isolators complete with galvanised steel wall box	No	1		
6.14.2			1 Lever 20A Isolators complete with galvanised steel wall box	No	10		
6.14.3			2300W /220-240V Automatic Stainless Steel hot air hand dryer	No	6		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
ELECTRICAL & MECHANICAL: SCHEDULE OF QUANTITIES SECTION 7: SECURITY CONTROL GATE 1 LIGHTING & POWER							
ITEM NO	PAYMENT REF	(LI)	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7	PW 354& SAN 1042		<u>SECURITY CONTROL GATE 1</u> <u>LIGHTING & POWER</u> The Contractor shall price for supply, delivery and installation as per the specifications & drawings.				
7.1			Excavation and Trenching General trenching work for sleeves along the routes as pegged out on site after co-ordination with other services. Allowance must be made for the sifting of soil when required, removal and carting away of all stones and rocks including dumping off site. Specified for overall siteworks.				
7.1.1			Trenching through floor for sleeves	m ³			rate only
7.1.2			Excavation and backfilling in soft soil	m ³			rate only
7.1.3			Excavation and backfilling in hard rock	m ³			rate only
7.2			Cable and Data Sleeves Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends.				
7.2.1			75mm Diameter for Data	m			rate only
7.2.3			110mm Diameter for power cable	m	10		
			Radius bends:				
7.2.3			75mm Diameter	No			rate only
7.2.4			110mm Diameter	No	1		
7.3			Draw Wires				
7.3.1			Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	250		
BALANCE BROUGHT FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
ELECTRICAL & MECHANICAL:SCHEDULE OF QUANTITIES SECTION 7: SECURITY CONTROL GATE 1 LIGHTING & POWER							
ITEM NO	PAYMENT REF	(LI)	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE CARRIED FORWARD				
7.4			Distribution Boards Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal, using DIN Circuit breakers.The Distribution board shall allow for 20% Spare Capacity	No	1		
7.4.1			60A Single pole MCB 6kA Curve 3 (Standard)	No	1		
7.4.2			60A Single pole isolator (6kA)	No	1		
7.4.3			63A Double pole earth leakage unit (30mA) without overload protection 6kA	No	1		
7.4.4			20A Single Pole MCB 6kA Curve 3 (Standard)		2		
7.4.5			15A Single Pole MCB 6kA Curve 3 (Standard)	No	5		
7.4.6			By-pass switch for photo-electric cell	No	1		
7.4.7			Class 2 double pole surge arrestor	No	1		
7.5			Conduit Work Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
7.5.1			20mm PVC Conduit	m	100		
7.5.2			25mm PVC Conduit	m	50		
			In Ceiling space and Timber work:				
7.5.3			20mm PVC Conduit	m	50		
7.5.4			25mm PVC Conduit	m	50		
			Conduit Boxes				
7.6			Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false				
BALANCE BROUGHT FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
ELECTRICAL & MECHANICAL:SCHEDULE OF QUANTITIES SECTION 7: SECURITY CONTROL GATE 1 LIGHTING & POWER							
ITEM NO	PAYMENT REF	(LI)	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE CARRIED FORWARD				
			ceiling spaces, complete with all required conduit termination accessories.				
7.6.1			20mm diameter 4 way type(round box)	No	10		
7.6.2			450 x 450mm Bonding tray in roof space	No	0		
7.7			Wall Boxes				
			Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
			Flush mounted type:				
7.7.1			100 x 50 x 50mm	No	8		
7.7.2			100 x 100 x 50mm	No	2		
7.8			PVC Wiring in conduits:				
7.8.1			2.5mm ² for lights circuits	m	200		
7.8.2			4mm ² for plug sockets & Isolators circuits	m	200		
7.8.3			6mm ² for plug stove circuits	m	0		
			Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7.8.4			1.5mm ²	m	100		
7.8.5			2.5mm ²	m	100		
7.8.6			4.0mm ²	m	0		
7.9			Light Switches				
			Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, Allowance shall however be made as specified in the				
BALANCE BROUGHT FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
ELECTRICAL & MECHANICAL:SCHEDULE OF QUANTITIES SECTION 7: SECURITY CONTROL GATE 1 LIGHTING & POWER							
ITEM NO	PAYMENT REF	(LI)	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE CARRIED FORWARD				
7.9.1			1 Lever 1 way	No	3		
7.9.2			1 Lever 3way	No	0		
7.9.3			1 Lever 2 way	No	0		
7.9.4			Occupancy Sensor	No	0		
7.9.5			Photo cell	No	1		
7.10			Socket Outlets				
			Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.				
			The final colour of the paint finish shall be confirmed at a stage, allowance shall be made as specified in the specification.				
7.10.1			Flush switched sockets type:				
			16A 3 pin double socket outlets	No	2		
7.11			Light Fittings				
			Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes.				
			Allowance must be made in the rates for all the required fixing materials and accessories.				
7.11.1			104W Floodlight LED Type Recess Mounted , Lumen output >= 15500, IP66 in compliance with SANS 60598-2-1	No	0		
7.11.2			Circular LED Downlighters 19W , Lumen output >= 2000 fitted with an emergency battery pack. The light shall consist of a pressed metal ceiling flushed trim, reflector, ceiling brackets and reinforced luminaire frame.	No	0		
BALANCE BROUGHT FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
ELECTRICAL & MECHANICAL:SCHEDULE OF QUANTITIES SECTION 7: SECURITY CONTROL GATE 1 LIGHTING & POWER							
ITEM NO	PAYMENT REF	(LI)	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			BALANCE CARRIED FORWARD				
7.11.3			46W LED Tubes Type with vapour proof cover, Lumen output >= 7760lm in compliance with SANS 60598-2-1	No	4		
7.11.4			Round LED Bulkhead Luminaire 21W Lumen output >= 2500. The Luminaire shall consist of high ingress protection and non-discolouring diffuser compartment permanently to IP65 and also eliminates tampering with the LED's.	No	3		
7.11.5			Circular LED Downlighters 19W, Lumen output >= 2000. The Light shall consist of a pressed metal ceiling flushed trim, reflector, ceiling brackets and reinforced luminaire frame.	No	3		
7.12			Telephone				
7.12.1			Supply and Installation of a 300 x 300mm - Telephone System DB	No	1		
7.13			Electrical Tests				
			Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
7.13.1			Building installation	Sum	1		
7.14			Other Items				
7.14.1			1 Lever 30A Isolators complete with galvanised steel wall box	No	0		
7.14.2			1 Lever 20A Isolators complete with galvanise steel wall box	No	3		
7.14.3			2300W /220-240V Automatic Stainless Steel hot air Hand	No	1		
TOTAL CARRIED TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
MECHNICAL:SCHEDULE OF QUANTITIES SECTION 8: SITE FIRE PROTECTION							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
8			<p>SITE AND BUILDING</p> <p>FIRE PROTECTION, BULK WATER STORAGE AND PUMP SETS</p> <p>Supply and install Fire fighting equipment complete with all piping, supports, hangers, couplings etc. Supply install, test, commission and hand over of complete Hydrant and Hose Reel System as shown on the relevant drawings. Supply and Install Portable Fire Extinguishers c/w mounting brackets fixed inside cabinets, signage and surface mounted where required mounted inside cabinets. Supply and install all statutory signs on chromadek or similar complete with hangers, supports etc. Supply & Install Fire Hose Reels (30m long) c/w chromium plated 25mm valve, pressure gauge & cock, fittings, fixings, etc. Supply and Install Portable Fire mounting brackets fixed inside cabinets, signage and surface mounted where required mounted inside cabinets. Supply and install all statutory signs on chromadek or similar complete with hangers, supports etc</p>				
8.1			<p>Fire Hydrants</p>				
8.1.1			<p>Tamper Proof Fire Hydrant with Pressure Gauge Thread: 80mm Male Bras Coupling: 65mm Light Alloy Opening Mechanism: Key Ground Height: 242mm</p>	No	6		
8.1.2			<p>Tamper Proof Double Booster Fire Hydrant with Pressure Gauge Thread: 80mm Male Brass Coupling: 65mm Light Alloy Opening Mechanism: Key Ground Height: 242mm</p>	No	1		
8.1.3			<p>Concrete Base Mount for Fire Hydrant Height: 1.2m (above ground), 0.3m Below Ground Length and Width: 0.25m Concrete Volume: 0.10m³</p>	No	7		
8.1.4	SABS 1456		<p>76mm Diameter Fire Hose Type: 76mm with 80mm Diameter Valve Hose Dimension: 30m Pressure Gauge of up to 15 Bar Complete with Steel Connections and Nozzle</p>	No	5		
TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
MECHANICAL:SCHEDULE OF QUANTITIES SECTION 8: SITE FIRE PROTECTION							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
8.1.5			BALANCE BROUGHT FORWARD Fire Hose Cabinet Ground Mounted Powder Coated Steel, Complete with Steel Footings (up to 1.2m above ground) With Break Glass to access Key Dimensions: 670 x 210 x 520mm(H)	No	5		
8.2			Fire Hose Reels				
8.2.1			Fire Hose Reel with Hose and Pressure Gauge Type: 580mm with 750mm Valve Hose Dimension: 30m Pressure Gauge of up to 15 Bar Valve (Stop Cock): Chromium Plated Double 25mm Discharge Rate: 30L/min @ 300kPa	No	7		
8.2.2			Double Door Fire Hose Reel Cabinet Wall Mounted Powder Coated Steel, With Break Glass to access Key Dimensions: 850 x 295 x 850mm(H)	No	7		
8.3			Fire Extinguisher				
8.3.1			Fire Extinguishers Type: Dry Chemical Powder Class: ABC Fires Size: 9.0kg	No	12		
8.3.2			Fire Extinguisher Cabinet Wall Mounted Powder Coated Steel, With Break Glass to access Key Dimensions: 350 x 220 x 685mm(H)	No	12		
TOTAL CARRIED FORWARD							

 Contractor

 Witness 1

 Witness 2

 Employer

 Witness 1

 Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 MECHANICAL :SCHEDULE OF QUANTITIES SECTION 9 : GRAND STAND PLUMBING, WATER HEATING & STORAGE AND VENTILATION								
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
9			PLUMBING, WATER HEATING & STORAGE AND VENTILATION					
9.1			PLUMBING					
9.1.1			Water Supply System Water Supply Piping and Equipment - Supply, Installation,testing & commissioning including all necessary sundries,galvanized hangers and support complete, in accordance with specification drawings.					
			1. Isolating valve diameter 40 mm	No	2			
			2. Isolating valve diameter 32 mm	No	5			
			3. Isolating valve diameter 25 mm	No	6			
			4. Isolating valve diameter 20 mm	No	10			
			(b)Stainless Steel Braided Flexible Connector					
			1. Diameter 15 mm	No	14			
			2. Diameter 20 mm	No	6			
			3. Diameter 25 mm	No	5			
			(c)CopperClass 1(Uninsulated)Water Supply Piping					
			1. Diameter 15 mm	m	74			
			2. Diameter 20 mm	m	58			
			3. Diameter 25 mm	m	20			
			4. Diameter 32 mm	m	12			
			(d)Copper Class 1(Insulated) Water Supply Piping					
			1. Diameter 15 mm	m	15			
			2. Diameter 20 mm	m	12			
			3. Diameter 25 mm	m	10			
TOTAL CARRIED FORWARD								

 Contractor

 Witness 1

 Witness 2

 Employer

 Witness 1

 Witness 2

BA-PHALABORWA MUNICIPALITY										
REFURBISHMENT OF NAMAKGALE STADIUM										
CONTRACT No. 07/20/21										
MECHANICAL :SCHEDULE OF QUANTITIES SECTION 9 : GRAND STAND PLUMBING, WATER HEATING & STORAGE AND VENTILATION										
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT			
9.1.2			TOTAL BROUGHT FORWARD							
			4. Diameter 32 mm	m	10					
			(e)Copper Class 1Fittings for Water Supply Piping							
			1. Diameter 15 mm	No	20					
			2. Diameter 20 mm	No	12					
			3. Diameter 25 mm	No	17					
			4. Diameter 32 mm	No	4					
			Water Drainage System							
			Water Supply Piping and Equipment - Supply, Installation,testing & commissioning including all necessary trenching and backfilling (up to a a depth of 1m and width of 0.6m), sundries, galvanized mountings and support complete, in accordance with specifications and associated drawings.							
			a) uPVC Drainage Piping							
			1. Diameter 32 mm	m	20					
			2. Diameter 40 mm	m	70					
			3. Diameter 50 mm	m	40					
			4. Diameter 80 mm	m	15					
			5. Diameter 110mm	m	112					
			6.Diameter 150 mm	m	35					
			b) uPVC Drainage Piping Fittings, Bends, Rodding Eyes etc...							
			1. Diameter 32 mm	m	8					
			2. Diameter 40 mm	m	20					
			3. Diameter 50 mm	m	12					
			TOTAL CARRIED FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
MECHANICAL :SCHEDULE OF QUANTITIES SECTION 9 : GRAND STAND PLUMBING, WATER HEATING & STORAGE AND VENTILATION							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			TOTAL BROUGHT FORWARD				
			4. Diameter 80 mm	m	6		
			5. Diameter 110mm	m	90		
			6. Diameter 150 mm	m	25		
9.2			WATER HEATING AND STORAGE Supply, delivery, installation, commissioning equipment and testing of hot water generating and storage equipment complete with fixtures and fittings as well as commissioning as specified and shown on the drawing. The equipment supplied should be Stainless Steel according to unless stated otherwise below.				
9.2.1			2000 Lt Storage Water Heater Style: Vertical Working/Test Pressure: 400kPa/600kPa Std Connections : Heavy Duty Sockets 1*Inlet 1*Outlet 1* Return 1*T/p 1* T/stat Manhole: 380 Elliptical Manhole Included Electrical Elements: 2 x 12Kw Element Control Panel: 24Kw 1 step Control panel with door lock isolator Included Dimensions: 1200mm Dia x 2720mm Length, 467kg Power Consumption: 24kW, 3Ph, 380-400V @ 50Hz	No	1		
9.3			VENTILATION Supply, delivery, installation, commissioning and testing of Ventilation equipment complete with fixtures and fittings as well as commissioning as specified and shown on the drawing. Ducting supplied should be not less than 1mm thick Galvanized Steel unless stated otherwise below.				
	EAG		1. 150 x 150mm Extraction Air Grille	No	10		
	WLG		2. 300 x 300mm Weather Louver with Reducer to Ø200mm	No	2		
	SWF		3. Wall Mounted Extraction Fan Diamter: Ø250mm Extraction Pressure: 150Pa Air Flowrate: 600L/s	No	2		
TOTAL CARRIED TO FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
MECHANICAL : SCHEDULE OF QUANTITIES SECTION 9 : GRAND STAND PLUMBING, WATER HEATING & STORAGE AND VENTILATION							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			TOTAL BROUGHT FORWARD				
	EXF 1		4. In-Line Extraction Fan Diamter: Ø450mm Extraction Pressure: 600Pa Air Flowrate: 1200L/s	No	1		
	D1		5. 150mm Diameter GS Ducting @ 0.8mm Thick	m	25		
	D2		6. 250mm Diameter GS Ducting @ 0.8mm Thick	m	10		
	D3		7. 300mm Diameter GS Ducting @ 0.8mm Thick	m	10		
	D4		8. 350mm Diameter GS Ducting @ 0.8mm Thick	m	10		
	D5		9. 400mm Diameter GS Ducting @ 0.8mm Thick	m	10		
	DCF		10. Ducting transformers fixtures, fittings, hangers , couplers and clamps	Sum	1		
9.4			WORKSHOP DRAWINGS, TESTING, COMMISSIONING AND COCs				
9.4.1			Plumbing Systems				
			1. Pressure Testing of All Plumbing Systems	Sum	1		
			2. Provision for Final Drawings for Plumbing Systems	Sum	1		
			3. Issuing of COC for Pluming System by Registered Plumber(s)	Sum	1		
9.4.2			Water Heating System				
			1. Provision for Final Drawings for Water Heating System	Sum	1		
			2. Issuing of COCs for Water Heating System (Electrical and Plumbing)	Sum	1		
TOTAL CARRIED TO FORWARD							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
MECHANICAL :SCHEDULE OF QUANTITIES SECTION 9 : GRAND STAND PLUMBING, WATER HEATING & STORAGE AND VENTILATION							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
9.4.3			<p style="text-align: center;">BALANCE BROUGHT FORWARDS</p> <p>Ventilation System</p> <p>1. Provision for Workshop Drawings for All Ventilation Systems</p> <p>2. Issuing of COC for All Ventilation Systems</p>	Sum	5		
				Sum	1		
			TOTAL CARRIED TO SUMMARY				

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY REFURBISHMENT OF NAMAKGALE STADIUM CONTRACT No. 07/20/21 MECHANICAL: SCHEDULE OF QUANTITIES SECTION 11:CHANGE ROOM PLUMBING, WATER HEATING & STORAGE AND VENTILATION							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
11			PLUMBING, WATER HEATING & STORAGE AND VENTILATION				
11.1			PLUMBING				
11.1.1			Water Supply System				
			Water Supply Piping and Equipment - Supply, Installation,testing & commissioning including all necessary sundries,galvanized hangers and support complete, in accordance with specification drawings.				
			1. Isolating valve diameter 40 mm	No	2		
			2. Isolating valve diameter 32 mm	No	8		
			3. Isolating valve diameter 25 mm	No	4		
			4. Isolating valve diameter 20 mm	No	15		
			(b)Stainless Steel Braided Flexible Connector				
			1. Diameter 15 mm	No	20		
			2. Diameter 20 mm	No	13		
			3. Diameter 25 mm	No	5		
			(c)CopperClass 1(Uninsulated)Water Supply Piping				
			1. Diameter 15 mm	m	90		
			2. Diameter 20 mm	m	71		
			3. Diameter 25 mm	m	35		
			4. Diameter 32 mm	m	15		
			(d)Copper Class 1(Insulated) Water Supply Piping				
			1. Diameter 15 mm	m	25		
			2. Diameter 20 mm	m	22		
			3. Diameter 25 mm	m	12		
			TOTAL CARRIED FORWARD				

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
MECHANICAL: SCHEDULE OF QUANTITIES SECTION 11:CHANGE ROOM PLUMBING, WATER HEATING & STORAGE AND VENTILATION							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
11.1.2			TOTAL BROUGHT FORWARD				
			4. Diameter 32 mm	m	16		
			(e)Copper Class 1Fittings for Water Supply Piping				
			1. Diameter 15 mm	No	25		
			2. Diameter 20 mm	No	18		
			3. Diameter 25 mm	No	12		
			4. Diameter 32 mm	No	5		
			Water Drainage System				
			Water Supply Piping and Equipment - Supply, Installation,testing & commissioning including all necessary trenching and backfilling (up to a a depth of 1m and width of 0.6m), sundries, galvanized mountings and support complete, in accordance with specifications and associated drawings.				
			a) uPVC Drainage Piping				
			1. Diameter 32 mm	m	50		
			2. Diameter 40 mm	m	80		
			3. Diameter 50 mm	m	65		
			4. Diameter 80 mm	m	35		
			5. Diameter 110mm	m	150		
			6.Diameter 150 mm	m	50		
			b) uPVC Drainage Piping Fittings, Bends, Rodding Eyes etc...				
			1. Diameter 32 mm	m	15		
			2. Diameter 40 mm	m	25		
			3. Diameter 50 mm	m	16		
			TOTAL CARRIED FORWARD				

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
MECHANICAL: SCHEDULE OF QUANTITIES SECTION 11:CHANGE ROOM PLUMBING, WATER HEATING & STORAGE AND VENTILATION							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			TOTAL BROUGHT FORWARD				
			4. Diameter 80 mm	m	10		
			5. Diameter 110mm	m	80		
			6. Diameter 150 mm	m	20		
11.2			WATER HEATING AND STORAGE Supply, delivery, installation, commissioning equipment and testing of hot water generating and storage equipment complete with fixtures and fittings as well as commissioning as specified and shown on the drawing. The equipment supplied should be Stainless Steel according to unless stated otherwise below.				
11.2.1			300 Lt Storage Water Heater Style: Vertical Working/Test Pressure: 400kPa/600kPa Std Connections : Heavy Duty Sockets 1*Inlet 1*Outlet 1* Return 1*T/p 1* T/stat Electrical Elements: 1 x 1.2Kw Element Power Consumption: 2.4kW, 1Ph 220-240V @ 50Hz	No	2		
11.3			VENTILATION Supply, delivery, installation, commissioning and testing of Ventilation equipment complete with fixtures and fittings as well as commissioning as specified and shown on the drawing.Ducting supplied should be not less than 1mm thick Galvanized Steel unless stated otherwise below.				
	EAG		1. 150 x 150mm Extraction Air Grille	No	8		
	WLG		2. 300 x 300mm Weather Louver with Reducer to Ø200mm	No	2		
	SWF		3. Wall Mounted Extraction Fan Diamter: Ø250mm Extraction Pressure: 150Pa Air Flowrate: 600L/s	No	2		
			TOTAL CARRIED TO SUMMARY				

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY							
REFURBISHMENT OF NAMAKGALE STADIUM							
CONTRACT No. 07/20/21							
MECHANICAL: SCHEDULE OF QUANTITIES SECTION 11:CHANGE ROOM PLUMBING, WATER HEATING & STORAGE AND VENTILATION							
ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			TOTAL BROUGHT FORWARD				
	EXF 1		4. In-Line Extraction Fan Diamter: Ø450mm Extraction Pressure: 600Pa Air Flowrate: 1200L/s	No	1		
	D1		5. 150mm Diameter GS Ducting @ 0.8mm Thick	m	25		
	D2		6. 250mm Diameter GS Ducting @ 0.8mm Thick	m	11		
	D3		7. 300mm Diameter GS Ducting @ 0.8mm Thick	m	8		
	D4		8. 350mm Diameter GS Ducting @ 0.8mm Thick	m	12		
	D5		9. 400mm Diameter GS Ducting @ 0.8mm Thick	m	15		
	DCF		10. Ducting transformers fixtures, fittings, hangers , couplers and clamps	Sum	1		
11.4			WORKSHOP DRAWINGS, TESTING, COMMISSIONING AND COCs				
11.4.1			Plumbing Systems				
			1. Pressure Testing of All Plumbing Systems	Sum	1		
			2. Provision for Final Drawings for Plumbing Systems	Sum	1		
			3. Issuing of COC for Pluming System by Registered Plumber(s)	Sum	1		
11.4.2			Water Heating System				
			1. Provision for Final Drawings for Water Heating System	Sum	1		
			2. Issuing of COCs for Water Heating System (Electrical and Plumbing)	Sum	1		
			TOTAL CARRIED TO FORWARD				

 Contractor

 Witness 1

 Witness 2

 Employer

 Witness 1

 Witness 2

BA-PHALABORWA MUNICIPALITY
 REFURBISHMENT OF NAMAKGALE STADIUM
 CONTRACT No. 07/20/21
 MECHANICAL: SCHEDULE OF QUANTITIES SECTION 11:CHANGE ROOM PLUMBING, WATER HEATING & STORAGE AND VENTILATION

ITEM NO	PAYMENT REF	LIC	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
11.4.3			BALANCE BROUGHT FORWARDS Ventilation System 1. Provision for Workshop Drawings for All Ventilation Systems 2. Issuing of COC for All Ventilation Systems	Sum	5		
				Sum	1		
TOTAL CARRIED SUMMARY							

<i>Contractor</i>	<i>Witness 1</i>	<i>Witness 2</i>	<i>Employer</i>	<i>Witness 1</i>	<i>Witness 2</i>

Section No.	<u>ELECTRICAL AND MECHANICAL ENGINEERING SUMMARY</u>	
		Amount
1	ELECTRICAL & MECHANICAL PROVISIONAL SUMS	
2	PERIMETER & PITCH LIGHTING	
3	ELECTRICAL SITE RETICULATION	
4	GRAND STAND- LIGHTING & POWER	
5	CHANGE ROOMS & PUBLIC TOILETS LIGHTING & POWER	
6	SECURITY CONTROL GATE- 1 LIGHTING & POWER	
7	SITE FIRE PROTECTION	
8	GRAND STAND - PLUMBING, WATER HEATING & STORAGE AND VENTILATION	
9	CHANGE ROOMS - PLUMBING, WATER HEATING & STORAGE AND VENTILATION	
		<hr/> <hr/>

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA MUNICIPALITY
REFURBISHMENT OF NAMAKGALE STADIUM
CONTRACT No. 07/20/21
SCHEDULE : PROVISIONAL SUMS
SUMMARY OF SCHEDULE

<u>SUMMARY OF SCHEDULE</u>		<u>TENDERED AMOUNT</u>
SECTION 1	PRELIMINARY AND GENERAL	_____
SECTION 2	CIVILS	_____
SECTION 3	BUILDINGS	_____
SECTION 3	ELECTRICAL AND MECHANICAL	_____
SUB-TOTAL 1		_____
CONTIGENCIES		
<p>The sum provided here is under the sole control of the Employer and may be deducted in whole or in part. The tenderer shall add 10% of the tender sum.</p>		_____
CPA		
<p>The tenderer shall add 3% of the tender sum.</p>		_____
SUB-TOTAL 2		_____
VALUE ADDED TAX (VAT) 15% :		_____
VALUE TO BE ADDED TO THE FORM OF OFFER		_____

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA LOCAL MUNICIPALITY



CONTRACT NO. 07/20/21

REFURBISHMENT OF NAMAKGALE STADIUM

C3 SCOPE OF WORK

STATUS

In the event of any discrepancy between the Scope of Works and a part or parts of the COLTO 1998, SANS 1200 Standardized Specifications, the Bill of Quantities and the Drawings, the Project Specifications, shall take precedence and prevail in the Contract.

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

C3.1 DESCRIPTION OF THE WORKS

Refurbishment of a sports facility.

C3.1.1 EMPLOYER'S OBJECTIVES

The Clients objective is to address the backlog of amenities and sports facilities in previously disadvantaged communities and rural areas.

The project objectives are in-line with Ba-Phalaborwa Local Municipality's objectives of service delivery, job creation, poverty alleviation and social upliftment.

Labour-intensive works

Labour-intensive works shall be constructed/maintained using local workers who are temporarily employed in terms of this Scope of Work.

C3.1

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Labour-intensive competencies of supervisory and management 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 5 “Manage labour-intensive Construction Processes” or equivalent QCTO qualifications..

The main objective of this project is to ensure that the community of Namakgale has a stadium. The scope of service covers the design and adherence to the given specifications including any by-laws governing all civil, structural, electrical and mechanical aspects.

The objective will be to utilise the envisaged funds to an optimum in order to create a facility that will be to the benefit of the total community in the Ba-Phalaborwa Local Municipality.

C3.1.2 OVERVIEW OF THE WORKS

The BA-PHALABORWA Local Municipality wishes to implement the project; “**REFURBISHMENT OF NAMAKGALE STADIUM**”. The project entails Refurbishment of Namakgale Stadium.

The work will be carried using Labour- Intensive approach as much as possible. Labour-intensive works comprise the activities described in SANS 1921-5, Earthworks activities which are to be performed by hand, and its associated specification data. Such works shall be Constructed using local workers who are temporarily employed in terms of this Scope of Work..

C3.1.3 EXTENT OF WORKS

The design for “**REFURBISHMENT OF NAMAKGALE STADIUM**” involves the following items;

PHASE 1

- a. Site establishment**
- b. Demolition of existing infrastructure**
 - i. Grand Stand including change rooms.
 - ii. Specified perimeter wall
- c. Refurbishment of existing works**
 - i. Specified perimeter wall.
 - ii. Soccer/ rugby fields construction
 - iii. Top Soil and Grassing
- d. Construction of new works**
 - i. Steel palisade fencing.

PHASE 2

- a. Refurbishment of existing works**
 - i. Refurbishment of soccer retaining wall
 - ii. Security fence

C3.2



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

b. Construction of new works

- i. Grand stand covering 680 square meters and sitting +/- 600 people
- ii. Grand Stand ablution facilities covering 257 m2
- iii. Change rooms
- iv. Athletics track
- v. Sewer water and stormwater systems

PHASE 3

a. Construction of new works

- i. Bulk earth works
- ii. Paved access road, walkways and parking to cater for +/- 50 vehicles Change rooms.
- iii. 1 No. x Gates with ticketing booths covering 14.3 m2
- iv. 1 No. x Tennis/ Volleyball multipurpose court with terraced seating benches.
- v. 1 No. x Basketball/ Netball multipurpose court with terraced seating benches.
- vi. Equipment for the Soccer/Rugby/Netball/Basketball/Tennis/Volleyball.
- vii. Electrical and Mechanical works

This description of the Works is not necessarily complete and shall not limit the work to be carried out by the Contractor under this Contract.

Approximate quantities of each type of work are given in the Schedule of Quantities.

C3.1.4 LOCATION OF THE WORKS

The project for the refurbishment of Namakgale Stadium is located in the Mopani District of Limpopo Province within the jurisdiction of the Ba-Phalaborwa Local Municipality' and the co-ordinates of the project are as follows:

23° 56' 10.90" S
31° 01' 58.80" E

C3.1.5 TEMPORARY WORKS

Temporary works will include, but not limited to temporary traffic diversion.

C3.3

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C3.1.6 LABOUR-INTENSIVE WORKS

All the relevant tasks/works shall be constructed using Labour-Intensive Construction Methods only.

C3.1.7 CONSTRUCTION PROGRAM

It is specifically brought to the notice of the Contractor that time is critical on this project, and the construction period will be a major factor in the award of the tender.

Tenderers shall submit with their tender their preliminary weekly programme for the construction of the Works under this contract to suit their proposed method of executing the Works. The programme shall be sufficiently detailed to differentiate between the various activities so that the contract may be properly evaluated.

N.B. The project will be implemented in three phases spread out within three Municipal financial years.

C3.1.8 CHANGE IN WORKS

The Engineer may, from time to time by order in writing without in any way vitiating the Contract or giving to the Contractor any claim for additional payment, require the Contractor to proceed with the execution of the works in such order as in his opinion may be necessary, and may alter the order of or suspend any part of the Works at such time and times as he may deem desirable and the Contractor shall not, after receiving such written order, proceed with work ordered to be suspended until he shall receive a written order to do so from the Engineer. Where the work must of necessity be carried out in conjunction with work of other Contractors, or with that of the Employer, it shall be co-ordinated and arranged in such a manner as to interfere as little as possible with the progress of such other work so as to offer every reasonable facility to other Contractors or to employees of the Employer.

C3.1.9 GENERAL INFORMATION

C3.1.9.1 DRAWINGS

The reduced drawings contained in the annexures that form part of the tender document shall be used for tender purposes only. Further drawings are to be provided on an ongoing basis by the engineer. The contractor shall programme his activities to be suitable in terms of his resources to complete the contract inside the stipulated time period.

C3.1.9.2 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 the 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, irrespective of the method used to achieve these cross sections and dimensions, and that the rates and the amounts tendered will be deemed to include full compensation for any special equipment or construction methods for

C3.4

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

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.

C3.5

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C3.2 ENGINEERING

C3.2.1 Design services and activity matrix

- a) The Employer is responsible for the design of permanent Works as reflected in these contract documents unless otherwise stated.
- b) The Contractor is responsible for the design of the temporary Works and 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

Description	Responsibility
Design of Works	Engineer
Concept, feasibility and overall process	Client
Basic Engineering and detail layouts to tender stage	Engineer
Final Design of Works	Engineer
Final Design to approved for construction stage	Client
Preparation of tender documentation & adverts	Engineer
Appointment of soil test / topographical surveyors	Client
Appointment of sub-contractors	Contractor
Supervision	Engineer
Preparation of as-built drawings	Contractor / Engineer
Completion certificate	Engineer / Client / Contractor

C3.2.2 DRAWINGS

The Engineer will provide the Contractor with one full set of drawings, which will be used exclusively for the recording of as built information by the Contractor. Only dimensions, positions, levels, co-ordinates etc. that change from the original values, will be required to be entered on these drawings. These drawings, fully marked up, will be handed to the Engineer at the issue of the Certificate of completion, which will not be issued until the as-built information has been received. The following drawings are applicable to this contract:

LIST OF DRAWINGS	
REFURBISHMENT OF NAMAKGALE STADIUM	
DRAWING NUMBER	DESCRIPTION
IPA/BPLM/NS/LM/DR01	LOCALITY MAP
IPA/BPLM/NS/ELP/DR02	EXISTING LAYOUT PLAN
IPA/BPLM/NS/GLP/DR03	GENERAL LAYOUT PLAN & FENCING DETAILS
IPA/BPLM/NS/SP/DR04	SOCCER PITCH AND ATHLETIC TRACK LAYOUT
IPA/BPLM/NS/WAT/DR05	SOCCER PITCH AND ATHLETIC TRACK SUB SURFACE DRAINAGE
IPA/BPLM/NS/WAT/DR06	SOCCER PITCH IRRIGATION SYSTEM LAYOUT
IPA/BPLM/NS/DL/DR07	RUNNING TRACK DRAINAGE LAYOUT
IPA/BPLM/NS/AF/DR09	DETAILS OF ATHLETIC FACILITIES
IPA/BPLM/NS/STR/DR10	ELEVATED WATER TANK LAYOUT, ELEVATIONS, SECTIONS & DETAILS
IPA/BPLM/NS/RD/DR11	TYPICAL CROSS SECTIONS OF PARKING AREA, WALKWAY AND

C3.6



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

	ACCESS ROAD
IPA/BPLM/NS/SM/DR12	STANDARD SEWER MANHOLE AND PIPE BEDDIN DETAILS
IPA/BPLM/NS/TB/DR13	WATER BEDDING AND THRUST BLOCK DATAILS
IPA/BPLM/NS/STR/DR14	STEEL PALLISADE LAYOUT SECTIONS AND DETAILS
IPA/BPLM/NS/NB/DR15	NAME BOARD ERECTIONS DETAILS
IPA/BPLM/NS/GSFL/DR/26	GRAND STAND FOUNDATION LAYOUT
IPA/BPLM/NS/GSRL/DR27	GRAND STAND REINFORCEMENT LAYOUT
IPA/BPLM/NS/CRFRL/DR33	CHANGE ROOM FOUNDATION AND REINFORCEMENT LAYOUT
IPA/BPLM/NS/GOFL/DR34	GATE ONE FOUNDATION LAYOUT
IPA/BPLM/NS/GORL/DR35	GATE ONE REINFORCEMENT LAYOUT
IPA/BPLM/NS/GTRRL/DR36	GATE ONE FOUNDATION AND REINFORCEMENT LAYOUT
IPA/BPLM/NS/PV/DR38	PAVILLION VENTILATION
IPA/BPLM/NS/ABV/DR39	ABLUTION BLOCK VENTILATION
IPA/BPLM/NS/GSCLL/DR42	GRAND STAND CANOPY LIGHTING LAYOUT
IPA/BPLM/NS/CRPTL/DR43	CHANGE ROOMS AND PUBLIC TOILETS DISTRIBUTION BOARD LAYOUT
IPA/BPLM/NS/GSDBL/DR44	GRAND STAND DISTRIBUTION BOARD LAYOUT
IPA/BPLM/NS/CRPTSPL/DR47	CHANGE ROOM AND PUBPLIC TOILETS SMALL POWER LAYOUT
IPA/BPLM/NS/CRPTLL/DR48	CHANGE ROOM AND PUBLIC TOILETS LIGHTING LAYOUT
IPA/BPLM/NS/SL/DR22	SEWER LONG SECTIONS
IPA/BPLM/NS/SWL/DR23	STORMWATER LONG SECTIONS
19-001-100-MS-00	GRANDSTAND 01
19-001-200-MS-00	GRAND STAND 02
19-001-210-MS-00	GRAND STAND CEILING LAYOUT
19-001-300-MS-00	CHANGE ROOMS, GATE TWO, SCHEDULES
19-001-500-MS-00	GATE ONE
19-001-900-MS-00	FINISHES AND SIGNAGE SCHEDULES
19-001-910-MS-00	SANITARY SCHEDULES
19-001-000-MS-00	SITE PLAN
IPA/BPLM/NS/ESRL/DR08	ELECTRICAL SITE PLAN
IPA/BPLM/NS/PF/DR20	DESIGN PLATFORM
IPA/BPLM/NS/SWC/DR24	STORMWATER CATCHMENTS
IPA/BPLM/NS/SKP/DR25	SERVICES KEY PLAN

C3.7

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C3.3 PROCUREMENT

The Tenderers notice is drawn to the fact that the awarding of this tender will be in terms of the Supply Chain Management Policy of the Ba-Phalaborwa Local Municipality and The Standard Conditions of Tender as contained in Annexure F of the September 2005 edition of the CIDB Standard for Uniformity in Construction Procurement.

C3.3.1 PREFERENTIAL PROCUREMENT PROCEDURES

The works shall be executed in accordance with the Preferential Procurement Policy Framework Act and Preferential Procurement Regulation 2011.

C3.3.2 SUB-CONTRACTING

No work may be sub-contracted to another party unless approval is given by the Engineer in writing. The Contractor is to submit to the Engineer in writing a request for appointment of a particular sub-contractor. Accompanying this request is to be the full detail of the sub-contractor, including:

- Previous experience
- Work which will be sub-contracted to him/her
- Approximate value of the work to be sub-contracted

Before the Engineer in terms of Clause 49 hereof issues any certificate that includes any payment in respect of work done or goods supplied by any sub-contractor appointed in accordance with the provisions of Clause 6.3 of the General Conditions of Contract for Construction works (2010), he shall be entitled to call upon the Contractor to furnish reasonable proof that all payments (less retention moneys) included in previous certificates in respect of the work or goods of such sub-contractors have been made or discharged by the Contractor, in default of which, unless the Contractor:

- Informs the Engineer in writing that he has reasonable cause for withholding or refusing such payment; and
- Submits to the Engineer reasonable proof that he has so informed such sub-contractor in writing.

C3.8

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Contractor

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Witness 1

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Witness 2

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Employer

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Witness 1

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Witness 2

C3.4 CONSTRUCTION

C3.4.1 APPLICABLE NATIONAL AND INTERNATIONAL STANDARDS

Applicable SABS 1200 standardised specifications

The following SABS 1200 standardised specifications for civil engineering construction are applicable:

SABS 1200 A	GENERAL
SABS 1200AB	ENGINEERS OFFICE
SABS 1200 C	SITE CLEARANCE
SABS 1200 D	EARTHWORKS
SABS 1200 DB	EARTHWORKS (PIPE TRENCHES)
SABS 1200DM	EARTHWORKS (ROADS, SUBGRADE)
SABS 1200 G	CONCRETE
SABS 1200 GA	CONCRETE (SMALL WORKS)
SABS 1200 H	STRUCTURAL STEELWORK
SABS 1200 HA	STRUCTURAL STEELWORK (SUNDRY)
SABS 1200 L	MEDIUM-PRESSURE PIPELINES
SABS 1200 LB	BEDDING (PIPES)
SABS 1200 LD	SEWERS
SABS 1200 LE	STORMWATER
SABS 1200 M	ROADS
SABS 1200 ME	SUB-BASE
SABS 1200 MF	BASE
SABS 1200 MG	BITUMINOUS SURFACE TREATMENT
SABS 1200 MK	KERBING AND CHANNELLING
COLTO 2100	DRAINS
COLTO 5200	GABIONS
COLTO 5800	LANDSCAPING

The following variations to standardised 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
PSDM	Earthworks (Roads, Subgrade)
PSDME	Subbase

Copies of SABS 1200 Standardized Specifications are available from the Standards South Africa. The

Particular Specifications together with the Drawings and Bill of Quantities clearly indicate the sections of the Standard Specifications which apply to this contract.

Model Preambles for Trades - 2008

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and the Supplementary Preambles hereunder that is applicable to all Building Works, ie. Sections 5-7 of the bills of quantities.

C3.9

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

These Model Preambles for Trades, and any Supplementary Preambles, shall be read in conjunction with and shall form part of the descriptions of items in the bills of quantities, applicable to building works, Sections 5-7.

Where descriptions or Supplementary Preambles in the bills of quantities differ from these Model Preambles for Trades, the descriptions or Supplementary Preambles provided herein shall take precedence. Where supplementary preambles differ from descriptions in the bills of quantities, the descriptions in the bills of quantities shall take precedence

Except where otherwise stated, all preambles contained in any individual Trade Preamble shall apply equally to any work of a similar nature in all other trades. The 'Model Preamble for Trades' is published by and is available from the Association of South African Quantity Surveyors, P.O. Box 3527, Halfway House, 1685. Telephone (011) 315 4140. E-mail: administration@asaqs.co.za.

C3.10

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C3.5 VARIATIONS AND ADDITIONS TO THE STANDARD AND STANDARDISED SPECIFICATIONS

In certain clauses the standard, standardised and particular specifications allow a choice to be specified in the project specifications between alternative materials or methods of construction and for additional requirements to be specified to suit a particular contract. Details of such alternative or additional requirements applicable to this contract are contained in this part of the project specifications. It also contains additional specifications required for this particular contract.

The number of each clause and each payment item in this part of the project specifications consists of the prefix PS followed by a number corresponding to the number of the relevant clause or payment item in the standard specifications. The number of a new clause or payment item, which does not form part of a clause or a payment item in the standard specifications and is included here, is also prefixed by PS followed by a new number. The new numbers follow on the last clause or item number used in the relevant section of the standard specifications.

PSA	General
PSAB	Engineer's Office
PSC	Site Clearance
PSD	Earthworks
PSDB	Earthworks (Pipe Trenches)
PSGA	Concrete (Small Works)
PSH	Structural Steelwork
PSHA	Structural Steelwork (Sundry items)
PSL	Medium Pressure Pipelines
PSLB	Bedding (Pipes)
PSPCB	Fencing

C3.11

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

SCOPE OF WORK

SPECIFICATIONS

INDEX

Description

Page No.

Variation to Standardised Specification and Additional Clauses

PSA	General
PSAB	Engineer's Office
PSC	Site Clearance
PSD	Earthworks
PSDB	Earthworks (Pipe Trenches)
PSDM	Earthworks (Roads, Subgrade)
PSME	Subbase
PSMF	Base
PSMG	Bituminous Surface Treatment
PSMH	Asphalt Base Treatment
PSMJ	Segment Paving
PSMK	Kerbing and Channelling
2100	Drains
5200	Gabions
5800	Landscaping and Planting
PSH	Structural Steelwork
PSHA	Structural Steelwork (Sundry items)
PSL	Medium Pressure Pipelines
PSLB	Bedding (Pipes)
PSPCB	Fencing

Particular Specifications

PA	Fencing
PC	Building
PD	Environmental Protection and Control Specifications
PE	Dealing with ESKOM Services
PF	Occupational Health and Safety
PH	Submersible Progressive Pumps
PV	Synthetic Multi-Purpose Sports Field

C3.12

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PSA GENERAL

PSA1 SCOPE

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

“1.1 This specification covers requirements, 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

“1.1 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 Standardised Specifications, the drawings or the Project Specifications. ‘Specifications’ shall have the corresponding meaning”.

(b) Measurement and Payment

“REPLACE THE DEFINITIONS FOR “Fixed charge”, “Time related charge” AND Value related charge” WITH THE FOLLOWING:

“ ‘Fixed Charge’: A charge that is not subject to adjustment on account of variations in the value of the Contract Price or the time allowed in the Contract for the completion of the work.

“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 provision 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’.

C3.13

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PSA **ABBREVIATIONS**

(a) Abbreviations relating to standard documents

ADD THE FOLLOWING ABBREVIATION:

“CKS: SANS Co-ordinating Specification

PSA 3 **MATERIALS**

PSA 3.1 **Quality**

Where there is a standardization mark programme for any material, all such material supplied shall bear the official standardization mark.

Alternative materials or equipment proposed by the Contractor shall be tested. The test, as well as the materials or equipment, shall be approved by the Engineer prior to any such materials or equipment being built into the Works and all costs involved in testing shall be deemed to be included in the rates tendered.

PSA- 3.2 **Materials supplied by the Employer**

Materials as supplied by the Employer will be kept at the stores of the Employer and the Contractor will be requested from time to time to incorporate material into the Works, on instruction of the Engineer. These material quantities must not be seen as a certainty as materials to be incorporated into the Works, but the Contractor must take note of this Clause should the Engineer instruct him to do so.

Incorporation of these materials into the Works, should it be so instructed by the Engineer, will have a direct effect on the quantities of similar materials being omitted from the Schedule of Quantities requested to be supplied by the Contractor. A list of the materials to be supplied by the Employer will be fixed within 14 days after the issue of the Letter of Acceptance.

PSA- 3.3 **Ordering of Materials**

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

C3.14

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

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 19930 as amended”.

ADD THE FOLLOWING AFTER THE SECOND SENTENCE OF SUBCLAUSE 5.1.2

“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 CONTENTS OF SUB-CLAUSE 5.1.2 WITH THE FOLLOWING:

At the end 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 precedence 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 established in their original positions by reason of the finished dimensions of 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-4.2 Contractor’s Office, Stores and Services

It is not a requirement of this Contract that the Contractor provide an approved field laboratory on Site, although he may elect to do so. If no laboratory is provided, the Contractor shall nevertheless arrange to have the required quality control tests (e.g. density, concrete strength and pressure testing of pipelines) performed by an approved commercial laboratory, and his tendered rates shall include full compensation for such tests.

Before commencing any establishment on Site, the proposed layout of the Contractor's offices, stores and services shall be approved by the Engineer. The Engineer will approve the layout or otherwise request modifications within five working days after receipt of the Contractor's written proposal.

C3.15



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

The Contractor's camp shall be kept neat and clean at all times and all surplus or rejected material shall be removed from the site.

PSA-4.3 Restriction on Employee Accommodation (Additional sub-clause)

No housing is available for the Contractor's employees and the Contractor shall make his own arrangements to house his employees and to transport them to site. With the exception of a night-watchman no employees may be housed or accommodated or allowed to sleep over on the site of the works.

The Contractor shall provide the necessary ablution facilities at his campsite and on the site of the works for the use of his employees. Chemical toilets only will be allowed.

PSA-4.4 Restriction on the use of plant (Additional sub-clause)

Except for the type of plant, and to the extent permitted in terms of the project specification or approved by the Engineer, the Contractor shall use only hand tools and hand equipment in the construction of the Works or portions of the Works that are required in terms of the project specification to be constructed using labour-intensive methods.

PSA-5 CONSTRUCTION

PSA-5.1 Survey

Co-ordinated reference pegs shall be preserved as specified in sub-clause 5.1.2.

PSA-5.1.1 Setting out of the Works

The Contractor shall verify at his own cost the accuracy of the pegs or benchmarks pointed out as being available for use to set out the works. Any discrepancies must be reported to the Engineer in writing.

All pegs or benchmarks which are damaged during the Contract which were not in the direct way of the construction of the works shall be replaced by a competent Surveyor (or Land Surveyor if the positions were determined by a Land Surveyor in the first place) at the Contractors own cost.

For any new work the Contractor shall establish his own reference lines from which the work can be set out.

Where labour-intensive work is specified, the Contractor shall also be responsible for the setting out of the daily tasks.

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".

C3.16

Empty rectangular box for Contractor signature.

Contractor

Empty rectangular box for Witness 1 signature.

Witness 1

Empty rectangular box for Witness 2 signature.

Witness 2

Empty rectangular box for Employer signature.

Employer

Empty rectangular box for Witness 1 signature.

Witness 1

Empty rectangular box for Witness 2 signature.

Witness 2

PSA 5.4 Protection of Overhead and Underground Services

REPLACE THE HEADING AND THE CONTENTS OF SUB-BASE 5.4 WITH THE FOLLOWING:

(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 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 utilising the said detecting and testing equipment, nor for any costs incurred in preparing and submitting to the Engineer the drawings 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 payment items (if any) as may be provided for in the respective sections of the specifications pertaining to the type of work involved.

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 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 1200DB should be observed. In other areas compaction is to be 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 make appropriate steps.

C3.17



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

PSA-5.5 Dealing with Water on the Works

• **Add the following paragraph:**

“It shall be noted that any claim for extension of time or for additional compensation dealing with water on the Works will not be considered, as this payment item shall be deemed to take in account of all additional resources or costs that may be required or incurred. The Contractor shall be deemed to have acquainted himself with the site conditions during tender stage. This will include the diversion of rivers to accommodate the laying of pipes through rivers.”

PSA-5.6 Training (Additional Sub-clause)

It is a condition of this contract that on-the-job training be provided for local labour. Accredited training in accordance with Particular Specification 4.1.3 EPWP LABOUR INTENSIVE SPECIFICATION (1.2.2.2.5) will be paid for separately as specified.

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 necessary required by the engineer. Unless otherwise indicated in the contract or instructed by the engineer, such meetings shall be held at the contractor’s offices on the site. At such monthly meetings, matters such as general progress on the works, quality of work, problems, claims, payments and safety shall be discussed, but not matters concerning the day to day running of the contract.

PSA-6 PROVISIONAL SUMS

Provisional Sums are allowed in the Schedule of Quantities for execution on instruction by the Engineer only, and include:

PSA-6.1 Additional Tests

Any additional tests required by the Engineer on soil, concrete, any other material or workmanship by independent laboratories or specialist service providers

PSA-6.2 Training

As detailed in PSA 5.6

PSA-6.4 Soccer field artificial surface

The sum shall include for the construction of the sub-base, final surfacing and drainage by a nominated sub-contractor (or approved installer). The main Contractor shall prepare/construct the terrace/platform and sub-grade. The nominated subcontractor shall construct the sub-base, and final surface finishing’s including all necessary surface/sub-surface drainage system, markings, kerbing and fencing/railings.

C3.18

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PSA-6.5 Combi-courts (Netball, Basket Ball, Volleyball and Netball)

The sum shall include for the construction of the sub-base, final surfacing and drainage by a nominated sub-contractor (or approved installer). The main Contractor shall prepare/construct the terrace/platform and sub-grade. The nominated subcontractor shall construct the sub-base, and final surface finishing's including all necessary surface/sub-surface drainage system, markings, kerbing and fencing/railings.

PSA-6.6 Equipment for the Soccer/Rugby/Netball/ Basketball/Tennis/Volleyball

The sum shall include for the sporting equipment for Soccer, Rugby Netball, Basketball, Tennis and Volleyball, as approved by the Engineer.

PSA-6.7 Palisade Fence

The sum shall include for the supply installation of a palisade fence around the boundary of the stadium as approved by engineer.

PSA-6.8 Signage

The sum shall include for the supply and installation for the permanent facility signage, which shall include, but not limited to: traffic (vehicle and pedestrian), fire, services and utilities.

PSA-6.9 Identification, Removal and Relocation of Existing Services

The sum shall provide as indicated for the identification, relocation and removal of existing services by specialist subcontractor.

PSA-6.10 Vending Stalls

The sum shall provide as indicated for construction of vending stalls equipped with water, sewer, lighting and power connection as approved by Engineer.

PSA-6.11 Refurbishment of Soccer Pitch Retaining Wall

The sum shall provide as indicated for the refurbishment of the soccer embankment retaining wall as approved by Engineer.

PSA-6.12 Refurbishment of Perimeter Wall

The sum shall provide as indicated for the refurbishment of perimeter wall as approved by Engineer.

PSA-6.13 Borehole Development

Provision for the siting, drilling, test pumping, water quality analysis by Geohydrologist and equipping of submersible borehole pump and pump house, inclusive of all investigations,

C3.19

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

assessments, reporting, supply of equipment and installation by specialist Sub-Contractor in accordance with Project Specification PB and PMD.

PSA-6.14 All Weather Seal Layers

The sum shall provide as indicated for surfacing and painting by specialist subcontractor.

PSA-6.15 Pipe Jacking

The sum shall provide as indicated for jacking establishment and grouting injection of cement/sand grout, where ordered.

PSA-6.16 Top Soiling

The sum shall provide as indicated for watering the grass from existing reticulation.

PSA-6.17 Gate 1 (Structural and Architectural Steelwork and Art Work)

The sum shall provide as indicated for structural and architectural steel work and artwork for Gate 1 as per drawings to be executed by a sub-contractor

PSA-6.18 Grand Stand

Provide the provisional amount as indicated for the 600 seater grand stand as per drawings to be executed by a sub-contractor

PSA-6.19 Demolition

Provide the provisional amount as indicated for the demolition of existing infrastructure (grand stand, perimeter wall, ablution facilities) and the removal of rubble to specified dumping site.

PSA-6.20 Bulk Power Connection

Provide the provisional amount as indicated for 200kVA bulk power connection to be executed by a subcontractor.

PSA-6.21 Lightning & Earthing Protection

Provide the provisional amount as indicated for Lightning & Earthing Protection to be executed by a sub-contractor.

PSA-6.22 Access Control System for Security Control Gates

Provide the provisional amount as indicated for construction of Access Control.

PSA-6.23 Telkom Connection

Provide the provisional amount as indicated for Telkom Connection

C3.20

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PSA-6.24 Student

The sum shall include allowances for a student elected by the Municipality to undergo experiential training.

PSA-6.25 PSC Member Allowances

The sum shall make provisions for six project steering committee members (excluding CLOs and Councillors), for their attendance at meetings, in compensation as follows: R200 per person per meeting.

PSA-6.26 CLO

The sum shall make provision for the monthly salary of R5000.00 for two community liaison officers as elected/appointed by the Municipality.

PSA-6.27 Provision of PPE

Allowance shall be made for the procurement of personal protective equipment (PPE) for the use of local labour.

PSA-6.28 Provision for air conditioning and ventilation

Allowance shall be made for the design (by mechanical engineer) and installation of air conditioning and ventilation system.

PSAB ENGINEER'S OFFICE

PSAB-3 MATERIALS

PSAB-3.1 Contract Sign Boards

Two (2) Contract signboards, two sides per signboard, are to be erected in the position indicated by the Engineer. A signboard shall comprise of two information boards and stand according to Drawing IPA/BPLM/NS/NB/DR15.

PSAB-3.2 Engineers Office

The Contractor shall provide, furnish and equip one or more offices (as scheduled) for the use of the Engineer.

Buildings for offices shall be constructed of timber, asbestos or other approved materials. The buildings shall have double walls filled with insulating material and lined on the inside with timber or other approved material. Ceilings shall be provided and offices shall have timber or concrete floors with edge to edge carpeting with foam backed needle punch carpeting.

Office buildings shall be painted with an approved paint after erection and the paintwork shall be maintained during the contract period.

C3.21



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

Each door shall be provided with a lock and two keys.

The siting of all offices shall be to the Engineer's satisfaction and shall be decided upon in consultation with him and confirmed in writing before erection. All accommodation shall include the provision of a constant 220 volt A.C. electrical supply, access roads where required, fresh clean potable water and sewerage, including septic tanks which will be considered as part and parcel of the accommodation provided and will not be paid for separately.

All accommodation shall meet with the approval of the Engineer.

The offices shall comply with the following requirements:

Dimensions	Type 1 Office	Type 2 Office
Minimum floor area	40,0m ²	16,0m ²
Minimum window area	6,0m ²	2,4m
Minimum window area Opening	3,6m ²	1,5m ²
Minimum clear height	2,4m	2,4m

Furniture and equipment:

Each office shall be equipped with the following:

- (i) Office desk with a surface area of at least 1,5 m2 with at least 3 drawers, one of which can be locked.
- (ii) General purpose steel cabinet with doors, lock and two keys with at least 1,5 m2 shelf area and a volume of 0,7 m3.
- (iii) Two office chairs.
- (iv) Double 80 watt fluorescent light fittings complete with ballast and tubes (3 per Type 1 office, 1 per Type 2 office).
- (v) A table with a smooth flat top having an area of at least 3m2
- (vi) 220/250 volt 15 amp power points (4 per Type 1 office, 2 per Type 2 office).
- (vii) Windows shall be fitted with Venetian or opaque roller blinds.

In addition to the above the Type 1 office shall be equipped with the following:

- (viii) A table large enough to accommodate ten people and have an area of at least 3 m2. This table may be the table referred to in (v), above.
- (ix) Ten chairs suitable for meetings chairs.

The Contractor shall also provide a toilet for the exclusive use of the Engineer. The toilet shall be a chemical toilet. Provision shall be made for the washing of hands at a suitable location adjacent to the toilet.

C3.22

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PSAB-3.3 **Carports (Additional Clause)**

The carport shall be so constructed that the vehicle parked under it will at all times be protected against the direct rays of the sun. A carport shall be at least 20 m² in area and the floor shall consist of a layer of crushed stone to alleviate dusty and muddy conditions.

PSAB-4 **PLANT**
PSAB-4.1 **Telephone**

The telephone shall be a cell phone similar to an ASHA 300 with all costs (R1000/month airtime, R500/month data bundle) paid by the Contractor. At the end of the Contract the phone shall revert back to the Contractor.

PSAB-4.2 **Survey Equipment (Additional Clause)**

The Contractor shall provide the following survey equipment on site for the full duration of the Contract:

- (a) 1 tachometer capable of reading to 20 seconds of arc;
- (b) 2 tachometer staves graduated metrically;
- (c) 1 automatic level and levelling staff;
- (b) 1 steel tape of length 30 m;
- (c) 1 measuring wheel.

All equipment may be shared by arrangement between the Contractor and the Engineer's representative. The Contractor shall insure the equipment against any loss, damage or theft and he shall indemnify the Engineer against any claims in this regard.

The Contractor shall maintain the equipment in good working order and keep it clean throughout the contract period.

Payment for survey equipment will be on a monthly basis as a time-related item under item 8.4 of SABS 1200 A.

PSAB-5 **Rented Accommodation for Engineer**

The Contractor shall maintain a furnished two bedroomed Flat or similar approved accommodation for the use of the engineer's representative for the duration of the contract.

PSAB-6 **Survey Assistants**

One suitably educated Survey assistant shall be made available for the sole use of the Engineer's Representative for the duration of the contract. The assistant may also be required to fulfil the function of Community Liaison Officer during the contract should the Engineer consider this arrangement to be in the interests of the Employer. The Survey Assistants may therefore have to be appointed from local communities. Transport shall be made available for the Survey Assistant/ Community Liaison Officer by the contractor for the duration of the contract should he be requested to do so. In such event payment will be made scheduled day works rates

C3.23

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PSC SITE CLEARANCE

PSC-4 PLANT

• *Replace the contents of this Clause with the following:*

PSC-4.1 Labour Intensive Construction

The following provisions shall apply in respect of those portions of the Works covered by the specifications which are required in terms of the Contract, to be executed utilizing Labour Intensive Construction Methods:

- (a) The Contractor shall utilise only hand tools such as saws, picks, shovels, rakes, tampers, sledgehammers etc.
- (b) The use of trucks and other motor vehicles in the disposal of the cleared materials will only be permissible in cases where the distance over which the materials are to be transported exceeds 200 meters, provided that no mechanical plant or equipment shall be utilised in the loading of such vehicles.

PSC-5 CONSTRUCTION

PSC-5.2.3.2 Individual trees

The Contractor shall pay a penalty of R 3 000-00 for each designated tree removed or damaged by him. Trees so designated will be marked with danger tape to be supplied by the Contractor. Upon completion of the Works, the tape shall be removed.

PSC-5.3 After completion of this Contract the site shall be completely cleared of all building rubble and all loose boulders, tree stumps etc. unearthed during the construction operations on that portion of the whole of the site which was handed over to the Contractor for the purpose of execution of this Contract.

PSD EARTHWORKS

PSD-3 MATERIALS

PSD-3.1.2 Classes of excavation

For this contract classes of excavation will be subdivided as follows:

- (a) Excavation by labour-intensive method

For the purpose of the labour-intensive contract the excavation material will generally be classified as follows for purposes of measurement and payment:

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Witness 1

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Witness 2

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Employer

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Witness 1

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Witness 2

(i) Soft excavation

Soft excavation shall be excavation in material that can be efficiently removed and loaded with picks, shovels and other hand tools. Soft excavation shall include all boulders with a volume of less than 0,125 m³ and a maximum dimension of 500 mm, which can still be removed by hand methods.

(ii) Hard excavation

Hard excavation shall be excavation in material which can only be removed efficiently with mechanical equipment such as jackhammers, drilling and blasting, etc. Hard excavation shall also include boulders with a volume exceeding 0,125 m³ and the maximum dimension exceeding 500 mm, which cannot be broken down and removed by hand methods.

(b) Normal excavation

In cases where heavy excavation equipment are allowed only two classes of excavation will be applicable, i.e. hard rock excavation and soft excavation. Hard rock excavation shall be as specified in sub clause 3.1.2 (a) (ii) and excavation in all other material will be taken as soft excavation. Boulders which require individual drilling and blasting in order to be loaded by a track-type front-end loaders or back-acting excavator, shall be classified as hard rock and will be measured individually as they are removed.

SD-5 **CONSTRUCTION**

PSD-5.2 **Methods and Procedures**

PSD-5.2.1.2 Conservation of topsoil

During excavations for the structures all topsoil and other suitable material required for later use as backfilling around the structure and reinstatement of the site after completion of the works shall be stockpiled on site at a position to be approved by the Engineer.

PSD-5.2.2.3 Disposal

All excess excavated material not used for backfilling shall be disposed of at a site to be found by the Contractor and approved by the Engineer. The spoil site shall be finished off at the completion of the works to the satisfaction of the Engineer.

PSD-5.2.5 Transport for Earthworks

PSD-5.2.5.2 Overhaul

No overhaul will be deemed payable on this Contract but a provision has been put in place.

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Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

PSD-5.2.6 Inspection of excavations (new clause after clause 5.2.5)

All foundations for structures shall be inspected by the Engineer and/or an Engineering Geologist or Geotechnical Engineer before any backfilling with material or concrete of any kind is commenced. The Engineer shall be given at least two days' notice by the Contractor for the necessary arrangements to be made.

PSD-6 **TOLERANCES**

PSD-6.1 **Position, dimensions, levels, etc.**

Degree of Accuracy II shall apply. Over-breaks where applicable shall be filled in with 15 MPa concrete at Contractor's cost.

PSD-7 **TESTING**

PSD-7.2 **Taking and Testing of Samples**

The Contractor is responsible for his own quality control and shall therefore take and adequate number of samples and carry out tests to ensure that the material conform to the requirements in respect of quality, density, etc. (quality or process control).

Such test results and the positions where samples were taken must be submitted to the Engineer. The number and positions of tests shall be adequate to prove to the Engineer that the work as a whole complies with the requirements.

The Engineer may have additional or control tests carried out by an independent commercial laboratory at the Employer's cost and he will make the results available to the Contractor (acceptance control). Should these test results show that the work or the material does not comply with the specifications the Contractor shall take the necessary steps to rectify same and he will also be responsible for the cost of such testing. Payment for additional testing will be made under PSA-6.1.

PSDB **EARTHWORKS (Pipe trenches)**

PSDB-3 **MATERIALS**

PSDB-3.1 **Classes of Excavation**

Add the following new sub-clause:

Classes of excavation where Labour Intensive Construction Methods are specified

The excavation of material will, in the case of work which is required in terms of the Contract to be executed utilising Labour Intensive Construction Methods, be classified as follows for purposes of measurement and payment:

C3.26

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

(a) Soft – (Hand excavations)

Excavation of boulders not exceeding 0,04 m³, in material that can be excavated and removed from the excavation by an average able bodies labourer or group of such labourers, at a rate of not less than 2,4 m³ per 9,25 hour working day per labourer, using only picks, shovels and similar hand tools.

(b) Soft – (machine excavation)

Excavation in trenches with the use of machines where hand excavation is not possible, but material is still classified as soft excavation.

(c) Intermediate

Intermediate excavations shall be excavations in material which requires ripping or loosening by mechanical means prior to removal of the loosened material utilising the methods as described in (a).

(d) Hard rock Excavation

Hard rock excavation shall be excavation of under composed boulders exceeding 0,04 m³ and excavations in solid rock occurring in bulk or in banks or ledges, which requires loosening or breaking up by drilling, wedging, splitting or blasting or by other approved quarrying methods.

Class of excavation for each portion of the works is subjected to approval by the Engineers' Representative. Places where ripping is required prior to excavation in soft or intermediate material will be indicated by the Engineers' Representative.

PSDB-5 **CONSTRUCTION**

PSDB-5.3 **Site clearance**

X Add the following to the clause:

"The Contractor shall dispose of all surplus and unsuitable material on a site to be found by him and approved by the Engineer. All costs related to the disposal of surplus material shall be deemed to be included in the tendered rates.

Where pipes are to be laid the Contractor will be allowed to clear and grub a strip 2,5 m wide along the centre-line of the trench. No vegetation outside this strip may be damaged without the written approval of the Engineer. All trees with a girth of 250 mm or a height of 2,5 m within this strip, shall be protected and may only be trimmed or removed after a written order by the Engineer."

SDB-5.6.4 Disposal of intermediate and hard rock material

Surplus and/or unsuitable excavated material must be disposed of at a site found by the Contractor and approved by the Engineer.

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PSDB-5.6.5 Deficiency in backfill material

Any deficiency in backfill material from trench excavations because of removal of excessive quantities of organic material, unsuitable parts of the trench bottom, intermediate or hard rock, shall be made up from suitable surplus material from other excavations on the site.

PSDB-5.6.8 Transport for Earthworks for Trenches

For this contract all haul will be regarded as free haul and the cost of transportation of all materials will be deemed to be included in the rates and prices tendered in the schedule of quantities.

No overhaul will be payable on this Contract.

PSDB-7 **TESTING**

PSDB-7.1 Not with standing the contents of Clause 7.1, the Contractor shall bear the cost of all quality control tests regardless of whether the tests indicate acceptable compaction or not.

The following are the minimum frequencies for the process control tests to be executed by the Contractor:

- (a) Normal trench backfilling: one density test on every second layer for every 200 m of pipe trench.
- (b) Backfilling in areas subject to vehicle loads: one test on each layer of 150 mm at each road or railway crossing.

The positions of these minimum number of density tests shall be determined randomly by the Contractor and shall be clearly documented with the results. The results of the tests shall be submitted to the Engineer and shall prove to the Engineer that the work as a whole was done satisfactorily. Additional tests, over and above the minimum tests could be ordered by the Engineer. Payment for these tests will be made under Item PSA-6.1 if the tests indicate that the density is as specified. If any tests fail, the cost of such tests shall be for the account of the Contractor.

PSDB-8 **MEASUREMENT AND PAYMENT**

PSDB-8.3 **Scheduled Items**

PSDB-8.3.2 **Excavation**

-Payment for pipeline excavation will be made in three instalments as follows:

50 % at completion of excavation, 40 % at completion of backfilling and the final 10 % after final approval which will take account of surface finishing, disposal of all unused material and approval and acceptance of all test results as specified.

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Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

PSGA CONCRETE (SMALL WORKS)

PSGA-3 MATERIALS

PSGA-3.2 Cement

PSGA-3.2.1 Applicable specifications

The standard cement specifications:

SABS 471: Portland cement (ordinary, rapid-hardening and sulphate-resisting);

SABS 626: Portland blastfurnace cement;

SABS 831: Portland cement 15, and rapid-hardening portland cement 15;

SABS 1466: Portland fly-ash cement; and

SABS 1491: Portland cement extenders (Part 1: Ground granulated blastfurnace slag, Part 2: Fly ash, and Part 3: Condensed silica fume), have been withdrawn and are replaced by the new specifications SABS ENV-197-1: Common cements, and SABS EENV 413-1: Masonry cement. These specifications will be applicable to this contract and the descriptions and types of cements specified will be based on the designations as defined in these specifications.

PSGA-5.2 Formwork finishes shall be as shown on the Drawings or stated in the Bill of Quantities. All corners shall have 25 mm corner fillets.

PSGA-5.47 After removal of formwork all concrete shall be protected by an approved curing compound or any other approved method of curing.

PSHA STRUCTURAL STEELWORK (SUNDRY ITEMS)

PSHA-5 CONSTRUCTION

PSHA-5.2 Fabrication and assembly

PSHA-5.2.10 Protective Treatment

Structural steel shall be treated in accordance with the requirements of SABS 1200 HC.

PSHA-6 TOLERANCES

PSHA-6.1 Fabrication and assembly tolerance

Degree II accuracy shall be applicable.

C3.29



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

PSHA-7 **TESTING**

PSHA-7.3 **Inspection and testing of welds**

Welding must be inspected visually. The Engineer may however order to have some of the welds tested by means of ultra-sonic methods. The costs for such tests will be covered under item PSA-6.1 unless the welds fail to pass the tests. The cost of such failed tests will be for the account of the Contractor.

PSL **MEDIUM PRESSURE PIPELINES**

PSL-1 **MATERIALS – WATER SUPPLY PIPELINES**

Pipes and fittings will be of the types specified in the Schedule of Quantities or the Project Specifications, unless otherwise required in terms of the Project Specifications. All pipes and fittings shall be supplied complete with couplings and jointing material.

Pipeline materials shall be so transported, stored and handled that pipes are not over stressed or the fittings not damaged at any time. All pipes, fittings and specials delivered to Site will be thoroughly inspected by the Engineer's Representative. Materials rejected by the Engineer shall be removed from the site within 14 days and shall be replaced by other approved materials by the Contractor at his own expense.

Pipes as specified under this clause will be provided to the Contractor by the Employer and the Contractor will be requested to use these material on instruction from the Engineer. The rate tendered for the supply of this material to site by the Contractor, must include all handling costs, transport and profits as deemed necessary by the Contractor.

PSL-2 **MATERIALS – VALVES**

(a) All valves and appurtenant fittings shall be for the use in Medium Pressure Pipeline with a designed useful life of 45 years under operating conditions. Valves shall be guaranteed for a period of 5 years from the date of delivery.

All valves shall be supplied complete with flanged adaptors, bolts, nuts, gaskets, rubber rings and all fittings as indicated on the drawings for joining. Valve bodies shall be subjected to a closed-end test pressure of 1.5 times the design pressure. Test pressure shall be maintained for 5 minutes and the valve bodies shall be watertight in all respect.

(b) Valves and scour valves 300 mm and smaller shall be the diameter and class indicated and shall be manufactured in accordance with SABS 664. Valves 300 mm and smaller shall be Resilient Seal Waterworks pattern of the classes indicated on the drawings and shall have non-rising spindles, clockwise closing. All valves shall be of the pattern specified to connect with AC, PVC or steel piping as applicable or flanged in accordance with the schedule of fittings.

(c) All valves shall be supplied complete with hand wheels, except for scour valves.

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Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

T-keys to be handed over to the Operating Authority or as otherwise specified.

- (d) Water meters shall be cast iron, dry-gear type with removable measuring mechanism complying with the specifications as given on the drawings and in the Schedule of Quantities.
- (e) The size of Air Valves required shall be specified in the Schedule of Quantities, or on the Drawings by the diameter of the inlet branch. Valve bodies shall be of stainless steel.
Valves shall be of the following type:

Double orifice air valves

These are required to be the double orifice type approved by the Engineer, have a large controlled orifice for the release and admission of air at low pressure during filling or emptying the pipeline and a smaller lever controlled orifice for the release or air under high pressure.

- (f) Valves shall be classed according to type, size and pressure requirements and shall be paid for per Item installed, including all relevant fittings.

PSL-3 **MATERIALS**

PSL-3.4 **uPVC pipes, fittings and specials**

PSL-3.4.1 General

- **Add the following:**

Before leaving the manufacturer's workshops the pipes shall be tested hydraulically in accordance with SABS 719, and the test certificates shall be submitted to the Engineer.

PSL-3.8 **Jointing Materials**

PSL-3.8.2 **Flexible couplings**

PSL-3.8.2.1 All unflanged steel pipes used above ground shall be provided with flexible couplings as shown on the drawings.

All flexible couplings shall be "Viking Johnson" couplings without centre register, or approved similar.

Rubber rings shall be of the wedge-type and shall be manufactured from natural or synthetic rubber only. Reclaimed rubber shall not be used in the manufacture of the rubber rings.

PSL-3.8.3 **Flanges and accessories**

All flanges, not jointing to existing flanges, shall be drilled in accordance with

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Witness 2

SABS 1123 Table 1000/3; 1600/3 or 2500/3. The type, drilling pattern and sizes of flanges jointing to existing flanges shall match those of the existing flanges and shall be determined on Site.

PSL-3.8.4 **Loose flanges**

All bolts and nuts shall comply with the requirements of SABS 135. Only stainless steel bolts and nuts shall be used for stainless steel pipes and fittings. All other bolts and nuts shall be cadmium-coated.

PSL-3.9 **Corrosion Protection**

PSL-3.9.2 **Steel pipes**

The coating of steel pipes other than Galvanised Mild steel shall be according to paragraph b(1) and the coating shall be Carboline 891 or equivalent, applied as described in paragraph b(1) to a minimum thickness of 300 microns.

PSL-3.9.5 **Joints, Nuts, Bolts and Washers**

Only stainless steel bolts, nuts and washers shall be used for all stainless steel pipes and fittings. All other nuts, bolts and washers shall be cadmium-coated.

PSL-3.9.6 **Corrosive soil**

In this contract all steel pipes, pipe fittings and steel flanges in contact with soil shall over and above the protection as described above be protected as specified in Clause 3.9.6 with "DENSO" tape and/or mastic or approved similar. Application shall be strictly in accordance with the manufacturer's instructions. A polyethylene tape of 300 microns minimum shall be spirally wrapped over the petrolatum tape and fixed to the clean pipe ends with pressure sensitive tape.

PSL-3.9.7 **Painting of pipes and fittings (Additional clause)**

In addition to the corrosion protection as specified above, the valves and pipes inside the borehole pump houses shall be painted as follows:

- | | | |
|---------------------|---|-------------------------------|
| - Steel water pipes | : | Calypso Orange – Plascon G127 |
| - Valves | : | PWD Brown – Plascon G18 |

PSL-3.10 **Valves**

Valves shall comply with Particular Specification PDE.

PSL-5 **CONSTRUCTION**

PSL-5.1 **Laying**

PSL-5.1.3 **Keeping Pipelines Clean**

The interior surfaces of all pipes, specials, valves and fittings shall at all times be kept free from dust, silt, foreign matter and access by rodents, animals and birds shall be prevented. Pipes and specials shall not be used as shelters by staff or for the storage of garment tools, materials, food containers or similar goods. Particular care shall be exercised at all times to prevent faecal contamination of pipe interiors by staff, casual visitors or passers-by.

C3.32



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

Metal night-caps approved by the Engineer shall be used to close off the ends of each laid section of pipeline when work is stopped at the end of the day or for longer periods and shall be left on the ends of sections of completed pipework until such sections are tied-in with the remainder of the completed pipeline.

Notwithstanding the use of night-caps the Contractor shall at his own expense make good all damage to pipe linings and fittings caused by the ingress of dirty water, silt, sand, debris, vermin, insects and other foreign matter. The Contractor shall at his own expense and to the satisfaction of the Engineer clean the interior of the pipeline of such contaminants, failing which the Engineer may order the Contractor to remove the pipes from the trench and replace them with clean pipes.

PSL-5.2 **Jointing Methods**

PSL-5.2.2 **Flanges (Steel pipelines)**

All flanges shall be installed with bolt holes off-centre and symmetrically off-set from the vertical centre line of the flange. Flanges shall be installed truly square to the axis of the pipe.

The Contractor shall ensure that the correct jointing materials, i.e. gaskets, bolts and nuts are available when required. Only correct diameters and lengths of bolts and studs shall be used. Flat washers shall be used under all nuts. The length of bolts and studs shall be such that at least two threads protrude from the nut when fully tightened. The threads of bolts, studs and nuts shall be thoroughly cleaned and then coated with a graphite/grease compound immediately prior to assembly.

Flanged fittings shall be so installed that there are no stresses induced into the pipework, specials or fittings by forcing ill-fitting units into position or by bolting up flanges with faces not uniformly in contact with their gaskets over their whole faces.

PSL-5.2.3 **Welding**

Welding on site shall not be allowed without the approval of the Engineer.

PSL-7 **TESTING**

PSL-7.3 **Standard Hydraulic Pipe Test**

PSL-7.3.1 **Test pressure and time of test**

The hydraulic tests shall be carried out within 7 to 14 days after the last anchor block in the section to be tested has been cast. The field test pressure shall be 1,5 times the working pressure of the pipes in the section to be tested. The pressure is applicable to the lowest point of the section to be tested.

The pressure will be retained for a period of one hour during which period, inspections to all joints, bends, tee-off sections, anchor blades and connections will be done.

C3.33



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

PSL-9 **DISINFECTION OF PIPELINES**

All pipes shall be disinfected prior to being put to use. The cost will be included in the supply and laying of the pipes.

PSLB BEDDING (pipes)

PSLB-3 **MATERIALS**

PSLB-3.2 **Selected fill material**

Granular material shall be selected from excavations and shall be to the satisfaction of the Engineer.

PSLB-3.3 **Bedding**

Bedding for pipes shall be according to Class C as shown on Drawing LB-1 of SABS 1200 LB for rigid pipes and Drawing LB-2 for flexible pipes.

PSLB-3.4 **Selection**

Suitable selected bedding material will generally be available from trench excavations along the route and it is a requirement of this Contract that the Contractor use selective methods of excavating as described in Clause 3.7 of SABS 1200 DB and Clause 3.4.1 of SABS 1200 LB.

C3.34

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PSLB-5 **CONSTRUCTION**

PSLB.5-2 **Compaction**

Compaction of bedding material shall take place at optimum density. The finished layers shall be the same density as the in-situ undisturbed surrounding material or 90 % mod AASHTO, whichever is the higher.

PSLB-6 **TOLERANCES**

PSLB-6.1 **Moisture content and density**

Degree II accuracy shall be applicable.

PSPCB FENCING

PSPCB-4 **MEASUREMENT AND PAYMENT**

Add the following item:

PSPCB-4.8 Supply and erection of fence complete with straining posts, stays
and gates as detailed on the drawingsUnit : m

The tendered rate shall include full compensation for the erection of the fence complete with straining posts, stays and gates as detailed on the drawings.

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C3.6 PARTICULAR SPECIFICATIONS

PCB FENCING
PBA ROOF COVERINGS
PSFS FOUNDATIONS AND STANDS
PB EQUIPPING OF BOREHOLES
PE ELECTRICAL

PCB FENCING

PCB-1 SCOPE

This Specification covers the moving of existing fences where necessary, the erection of new fences, the dismantling of existing fences and the stacking of the fencing material, and the replacing or repair of existing fences where so indicated on the drawings or as directed by the Engineer. Any deviation from this Specification will be included in the Project Specifications.

PCB-2 MATERIALS

PCB-2.1 Posts

Posts, stays, standards and droppers shall comply with the requirements of CKS 82, SABS 280, SABS 457 and SABS 1372 as applicable, and shall be of the types and sizes as indicated on the drawings. Posts shall include gate posts, straining posts, corner posts and end posts.

Lengths and sizes of posts, standards and droppers as well as spacing of holes shall be as shown on the drawings.

PCB-2.2 Bolts for stays

All exposed steel shall be hot-dip galvanised. Bolts shall be galvanised steel bolts of the required length and shall be at least 12mm dia. All the necessary bolts and washers shall be supplied with each post.

PCB-2.3 Wire

All wire shall be hot-dip galvanised (Class C) with a first-class zinc coating and shall comply with the requirements of SABS 675.

- (a) Barbed wire shall be one of the following:
- (i) High tensile grade, 2,80 mm average dia. oval, single-strand wire for use at a height of less than 500 mm above the ground.
 - (ii) High tensile grade, 2,36 mm average dia. oval, single-strand wire for use at a height of more than 500 mm above the ground.
 - (iii) Mild steel grade, 2 x 2,50 mm dia. double-strand, unidirectional twist wire for use at any height above the ground.

C3.36



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

Barbs shall be manufactured from 2,0 mm wire, spaced at a maximum spacing of 150 mm.

(b) Smooth wire shall be as for equivalent thickness of the wire specified below:

(i) Fencing wire shall be high-tensile steel wire with a minimum diameter of 2,24 mm.

(ii) Straining wire shall be mild-steel wire with a minimum diameter of 4,00 mm.

(iii) Tying wire shall be mild-steel wire with a minimum diameter of 2,50 mm for tying fencing wire to standards and droppers and 1,6 mm for tying netting and mesh wire to fencing wire.

PCB-2.4 Razor Wire

(a) Welded razor mesh

Razor mesh is made of barbed tape razor wire welded into diamond-patterned apertures. The razor mesh is supplied in 6 m lengths with heights of 1,23 m to 2,4 m as specified in the schedule of quantities.

The aperture size shall be 150 mm wide and 300 mm high.

The wires, blades and clips shall be as specified above for razor wire concertinas.

PCB-2.5 Gates

Gates shall be manufactured to the dimensions shown on the drawings.

Gates shall be complete in every respect including hinges, washers, bolts and locking chain to make it operative and shall be hot-dip galvanised.

PCB-3 CONSTRUCTION

PCB-3.1 Clearing fence line

The fence line shall be cleared over a width of at least 1 m on each side of the centre line of the fence as agreed with the Engineer prior to clearing, and surface irregularities shall be graded so that the fence will follow the general contour of the ground. Clearing shall include the removal of all scrub, stumps, trees, rock and other obstructions, which will interfere with proper construction of the fence.

Stumps within the cleared space shall be grubbed. No trees may be removed without the written instruction of the Engineer. The bottom of the fence shall be located a uniform distance above the ground line in accordance with the requirements shown on the drawings. All material resulting from clearing operations shall be removed from the site to authorised dumping areas.

C3.37



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

PCB-3.2 **Installing razor wire**

Welded razor mesh

The welded razor mesh shall be erected as a fence on its own as in the case of weld-mesh and diamond mesh fencing. The welded razor mesh shall be secured to the fencing wire by means of 1,6 mm soft galvanised binding wire at 1,2 m centres along the top and bottom wires and at 2,4 m centres along each of the other fencing wires.

PCB-3.3 **Installing gates**

Gates shall be installed at the places indicated by the Engineer or as per drawing. The gates shall be hung on gate fittings in accordance with the requirements shown on the drawings. At pedestrian and security fences the double swing gates shall not leave a gap of more than 40 mm between them when closed and other gates shall not be further than 100 mm from the gate post when closed.

PCB-3.4 **General requirements**

The completed fence shall be plumb, taut, true to line and ground contour, with all posts, standards and stays firmly set. The height of the lower fencing wire above the ground at posts and standards shall not vary from that shown on the drawings by more than 25 mm. Other fencing wires shall not vary by more than 10 mm from their prescribed relative vertical positions.

The following additional requirements apply to security fencing:

- (a) The wire mesh shall be 2,5 mm dia. with openings as detailed on the Drawings.
- (b) The straining wire shall be the high-tension wire equivalent or ordinary 4 mm straining wire.
- (c) After the straining wires have been tensioned, the excess piece of the tension bolts at the gates shall be sawn off and riveted against the nut.
- (d) Straining wire shall be fixed to all posts and the mesh fence shall be fixed to all straining wires at intervals of less than one metre.
- (e) All steel posts shall be sealed at the top.
- (f) The mesh shall be fixed to the outside of the security area.
- (g) All damaged galvanising shall be repaired in accordance with the requirements of SABS 763 at the cost of the Contractor.
- (h) The following minimum applications of zinc galvanising shall apply:
 - (i) Weld mesh and diamond mesh - SABS 675 of 1971 - 75 gm/m²
 - (ii) Straining wire - SABS 935 of 1969 - 140 gm/m²
 - (iii) Binding wire - SABS 935 of 1969 - 120 gm/m²
 - (vi) Posts, standards and struts - SABS 763 of 1971 - 305 gm/m² (type B2)
 - (v) Tension bolts - SABS 763 of 1971 - 380 gm/m² (type C1)

C3.38



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

BA ROOF COVERINGS

CONTENTS

BA 01 SCOPE
BA 02 STANDARD SPECIFICATIONS
BA 03 VARIATIONS AND ADDITIONS TO STANDARD SPECIFICATIONS
BA 04 DETAIL OF REPAIR WORK
BA 05 MAINTENANCE
BA 06 MEASUREMENT AND PAYMENT

BA 01 SCOPE

This specification covers the installation of new roof coverings. This specification also covers the supply, delivery, installation and maintenance of new roof coverings for various types of buildings.

Roof coverings shall mean the installation of new roof sheeting and side wall cladding, roofing screws, purlins, flashings, rainwater goods, fascias and barge boards. This specification does not include work related to trusses, ceilings and paintwork specified elsewhere.

BA 2 STANDARD SPECIFICATIONS

BA 2.1 GENERAL STANDARD SPECIFICATIONS

The latest edition, including all amendments up to date of tender, of the following specifications, publications and codes of practice shall be read in conjunction with this specification and shall be deemed to form part thereof:

SABS 1200 HB	- Cladding and sheeting
SABS 653	- Softwood brandering and battens
SABS ISO 1461	- Hot-dip galvanised coatings on fabricated iron and steel articles
SABS 1273	- Fasteners for sheet roof and wall coverings

BA 3.1 ADDITIONAL REQUIREMENTS FOR INSTALLATION OF PROFILED ROOF SHEETING (NON-CONCEALED AND CONCEALED FIXING)

BA 3.1.1 Roof cladding

The new roof sheeting shall be 0,6 mm thick galvanised (or Chromadek) IBR or approved equivalent for roof slopes exceeding 15 °. Concealed fixed type Chromadek roof sheeting will generally be used to cover roofs with slopes not exceeding 15 °. The sheeting must be laid in long lengths without end overlaps. The broad flutes must be turned up at the apex to form a dam, and turned down at the eaves and valley gutters to form a drip. Metal closers 0,8 mm thick galvanised (or Chromadek), complete with polyclosers set in one run of silicone sealant, are required at apexes, ridges, side and head walls, etc. All holes for fasteners shall be drilled. Punching of holes and nailing of cladding and flashings will not be permitted. Cutting of cladding and flashings with an angle grinder may only be done by using a tungsten steel blade.

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Contractor

Witness 1

Witness 2

Employer

Witness 1

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The Contractor shall take all necessary measurements and dimensions on site prior to manufacturing and installation. Z275 galvanising spelter shall be used and the Contractor shall provide SABS certificates of compliance to the Project Manager. Various standard dark colours shall be used for Chromadek-finished roof sheeting, flashings, gutters and down pipes. To prevent unnecessary damage to galvanised or colour-coated sheets, proper measures must be taken to prevent contamination by moisture while material is still bundled or nested in stacks. Only stages 1 and 2 "white rust" on sheets will be permitted, provided that the white rust is successfully removed in accordance with ISCOR recommendation. The Contractor shall provide a guarantee for the Chromadek materials obtained from the manufacturer. In all cases the roof sheeting must be laid strictly in accordance with the manufacturer's specifications.

BA 3.1.2 Main fasteners to timber purlins: Galvanised/Chromadek IBR sheeting (or approved equivalent)

No. 12 (5,5 mm) x 90 mm type 17 hexagon head (H/H) carbon steel (C/S) zinc-plated self-drilling roofing screws shall be used for timber. The roofing screws with no.12 x 25 mm diameter x 1,0 mm thick low carbon EPDM/galvanised bonded washers are used as main fixing for the roof sheeting to timber purlins. 65 mm long x no 14 H/H C/S Topspeed or Posidriv main fasteners for steel purlins with the same washers are to be used. Fasteners shall be provided at alternating ribs, excluding side lap ribs.

BA 3.1.3 Side lap fasteners: Galvanised/Chromadek IBR sheeting (or equivalent approved)

Stitching shall be done with Leak King plugs for IBR roof sheeting @ 600 c/c maximum. Provide an approved 8 x 3 mm thick butyl rubber sealer strip (PG Sealer Strip or approved equivalent) with nylon cord between sheets.

BA 3.1.4 Flashings

Flashings must be 0,8 mm thick Chromadek/galvanised flashings at ridge caps, side and head walls, drips, corners, etc, as described elsewhere. The minimum length of and overlap between flashings is 150 mm. Apply two runs of silicone sealant between flashings. Flashings are to be stitched together with no. 10 (4,8 mm) x 16 mm x H/H C/S zinc-plated self-drilling stitching screws. The stitching screws with no. 12 x 19 mm diameter x 1,0 mm thick low carbon EPDM/galvanised bonded washers are to be used at end laps and longitudinally @ 400 c/c maximum at ribs, etc. The Contractor shall take all necessary measurements and dimensions on site prior to manufacturing and installation.

BA 3.1.5 Sealant

Silicone sealant with an amine cure system with primer shall be used to waterproof all flashings and rainwater goods, viz gutters and down pipes. Two runs of silicone shall be provided at end overlaps.

BA 3.1.6 Pipe flashings

Dektite or equivalent approved pipe flashings shall be used to waterproof pipe protrusions through the roof sheeting. Installation shall be done strictly in accordance with the

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Employer



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Witness 2

manufacturer's specification and shall include the application of Dektite silicone sealant and fastening of flashing to the surface with TEKS or approved equivalent selfdrilling fasteners.

BA 3.1.7 **Insulation**

(a) Specification for non-visible roof insulation material:

Super Sisalation 420 RSA or equivalent approved reinforced reflective aluminium foil (heavy grade) laid on 1,6 mm diameter galvanised (unless noted otherwise) straining wires 300 mm centres to the manufacturer's specification. The insulation shall be laid longitudinally over the purlins and lapped 150 mm at joints.

(b) Specification for visible roof insulation material:

White Alucushion (code 2906) or equivalent approved white bubble foil on aluminium foil backing laid on 1,6 mm diameter white plastic (PVC) coated straining wires at 383 mm centres to the manufacturer's specification. The insulation shall be laid longitudinally over the purlins and lapped at joints.

BA 3.2 **ADDITIONAL REQUIREMENTS FOR INSTALLATION OF PROFILED SIDE WALL CLADDING (NON-CONCEALED AND CONCEALED FIXING)**

BA 3.2.1 **Side wall cladding**

The new side wall cladding shall be 0,6 mm thick galvanised (or Chromadek) IBR or approved equivalent. The sheeting must be laid in long lengths without end overlaps. Metal closers 0,8 mm thick galvanised (or Chromadek), complete with polyclosers set in one run of silicone sealant, are required at apexes, gables, side and head walls, etc.

The Contractor shall take all necessary measurements and dimensions on site prior to manufacturing and installation. Z275 galvanising spelter shall be used and the Contractor shall provide SABS certificates of compliance to the Project Manager. Heavy-duty profiled polycarbonate sheets shall be used for translucent sheeting. Various standard dark colours for Chromadek finished sidewall cladding, flashings, and gutters and down pipes shall be used. In all cases the cladding must be laid strictly in accordance with the manufacturer's specifications.

BA 3.2.2 **Main fasteners to timber girt: Galvanised/Chromadek IBR (or approved equivalent) and profiled translucent sheeting**

No. 12 (5,5 mm) x 90 mm type 17 hexagon head (H/H) carbon steel (C/S) zinc-plated self-drilling roofing screws for timber. The roofing screws with no.12 x 25 mm diameter x 1,0 mm thick low carbon EPDM/galvanised bonded washers are used as main fixing for the roof sheeting to timber girts. 65 mm long x no 14 H/H C/S Topspeed or Posidriv main fasteners for steel girts with the same washers are to be used. Fasteners shall be provided at alternating ribs, excluding side lap ribs. Correct installation procedures must be followed, especially in respect of the drilling speed and torque settings of the drill for various materials.

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Employer

Witness 1

Witness 2

BA 3.2.3 Side lap fasteners: Galvanised/Chromadek IBR (or approved equivalent) sheeting

Stitching shall be done with Leak King plugs for IBR roof sheeting @ 600 c/c maximum. Provide an approved 8 x 3 mm thick butyl rubber sealer strip (PG Sealer Strip or approved equivalent) with nylon cord between sheets.

BA 3.2.4 End overlaps

If unavoidable, the end overlap shall be 300 mm minimum between sheeting and sealed with two rows of silicone sealant between the sheeting. Bolt the ribs in the overlap region with the (polycarbonate) translucent sheeting with galvanised no. 14 gutter bolts, bonded washers and nuts through every alternative rib.

BA 3.2.5 Side overlaps: Vertical profiled translucent sheeting

Stitching shall be done with 6 mm cadmium-plated cladding bolts and nuts x 25 mm long @ ± 300 c/c with no. 12 x 19 mm diameter x 1,0 mm thick low-carbon EPDM/galvanised bonded washers.

BA 3.3 RAINWATER GOODS

BA 3.3.1 Gutters

(a) Standard size for houses:

Gutters shall be 100 x 75 x 0,6 thick standard Chromadek/galvanised nonsupporting beaded gutter.

Galvanised brackets are to be provided at every second truss. Brackets shall be painted with water-based pure acrylic emulsion paint to Technical Specification BJ 03.01.03(g).

Alternatively, standard 140 x 127 x 83 x 0,6 mm thick Brownbuilt or similar continuous rolled approved Chromadek fascia gutter with galvanised gutter clips can be used.

(b) Typical size for other buildings:

125 x 100 x 0,8 thick standard Chromadek self-supporting beaded gutter to detail.

Dark colours shall be used where indicated by the Project Manager.

The Contractor shall take all necessary measurements and dimensions on site prior to manufacturing and installation.

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Witness 2



Employer



Witness 1



Witness 2

BA 3.3.2 Joints in gutters, valleys, etc

150 mm overlap sealed with an approved silicone and riveted together with two rows of sealed pop rivets.

Linings to valleys and secret gutters, etc, shall have an overlap of 225 mm.

BA 3.3.3 Accessories and ancillary items

(a) End stops:

0,6 mm thick Chromadek/galvanised finished end stop shall be joined to gutter on site and sealed as for joints in gutters. Thickness to be the same as for gutter.

(b) Outlets:

0,6 mm thick Chromadek/galvanised finished outlets shall be fixed to gutter with pop rivets and sealed with an approved silicone. Outlet to slip into down pipe.

Thickness shall be the same as for gutter.

(c) Fascia straps:

25 mm wide x 1,0 mm thick galvanised straps at +/- 686 mm c/c.

(d) Corner joints:

Overlaps are to be neatly mitred, pop riveted together and sealed with an approved silicone.

(e) Sealant:

Clear silicone sealant with amine cured system and primer shall be used to waterproof gutters and down pipes.

BA 3.3.4 Down pipes

Standard sizes:

100 x 75 x 0,6 thick Chromadek/galvanised down pipes

100 x 100 x 0,8 thick Chromadek/galvanised down pipes

Dark colours shall be used where indicated by the Project Manager.

Down pipes are to have double-seamed joints. Down pipes, shoes, offsets, etc, shall be joined together by means of 100 mm slip joints and pop riveted together.

The Contractor shall take all necessary measurements and dimensions on site prior to manufacturing and installation.

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Witness 2



Employer



Witness 1



Witness 2

BA 3.3.5 Down pipe accessories

(a) Brackets:

Standard galvanised brackets shall be spaced at centres not exceeding 2,4 metres.

Brackets shall be primed and painted with water-based pure acrylic emulsion paint as specified in Technical Specification BJ 03.01.03(g).

(b) Shoes, offsets and spreaders:

Shoes, offsets and spreaders must be manufactured from 0,8 mm thick Chromadek /galvanised material, cut and mitred to suit. All joints are to be sealed with an approved silicone sealant.

BA 3.4 GENERAL

The Contractor shall be responsible to ensure the stability of the supporting structure during and after the removal of existing roof cladding and sheeting. SABS 1200 HB: Cladding and Sheeting shall be applicable for the erection of all new roofs.

The Contractor shall submit a 3-year guarantee for the water tightness of the roofs and for workmanship.

The Contractor shall make arrangements with the manufacturer to inspect the workmanship at regular intervals during the construction period. On completion of the work the manufacturer shall issue a certificate of acceptance and compliance with specifications to the Employer.

BA 4 DETAIL OF REPAIR WORK

The detail of the work is described in the Schedule of Quantities.

BA 5 MAINTENANCE

[Note: No maintenance work beyond defects liability period for roof coverings will be required on this Contract.]

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Contractor

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Employer

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BA 6 MEASUREMENT AND PAYMENT

BA 6.1 MEASUREMENT AND RATES

BA 6.1.1 General inclusion of costs and specific specifications

Notes:

Where applicable, standard SABS 1200 measurement and payment items shall be used for Structural Steelwork (1200 H) and Cladding and Sheeting (1200 HB).

All sheeting, cladding and accessories are to be supplied by a South African based manufacturer and the work carried out is subject to a three year written guarantee for water tightness and workmanship.

All new material used in construction work shall be of approved equal quality, colours, profiles, thickness, etc. and shall in all cases match the existing materials and shall be fixed to new material or surfaces.

All construction work shall be done carefully as to not damage any adjacent or other material or work. Any damage to other or adjacent materials or areas caused by the negligence of the Contractor shall be repaired by him free of charge.

Installation work shall also include all cutting, grinding, cutting into, welding, bending, strengthening, drilling, etc., necessary to complete the installation.

All new work is measured net and shall include all cutting, lapping, waste, bending, fixing, corners, mitres, fixing screws, pop rivets, nails, adhesive, grout, putty, etc., as well as cleaning and preparation of surfaces not already prepared as part of removed items, etc.

BA 6.2 DETAILS OF MATERIAL TO BE USED

For detail descriptions of materials, thicknesses, dimensions and ancillary items to be used, as specified in the various payment items of roof sheeting, cladding, flashings, etc., refer to the scheduled list below:

BA 6.3 SCHEDULED ITEMS

Standard measurement and payment items shall be used for Structural Steelwork (1200 H) and Cladding and Sheeting (1200 HB)

Rainwater goods

- BA.01 Supply and install rainwater goods:
- BA.01.01 Description of material to be used:
- BA.01.01.01 Description of item Unit: m, No

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Employer

Witness 1

Witness 2

The unit of measurement for rainwater goods installed shall be metre or number.

Sundry items such as stop-ends, bends, shoes, etc., are deemed to be included in the tendered rates per metre.

Separate items will be scheduled for each type, finish, shape, and when relevant, profile of rainwater goods. The rates shall cover the cost of supplying, delivery, storing on Site, handling, moving installing and fixing the goods complete with all necessary fasteners, etc. as specified in BA.03.03 (all complete and subject to a three year written guarantee on water tightness and workmanship). The rates shall also cover the cost of cutting, notching and waste, and of all scaffolding, temporary supports, hoisting facilities and safety precautions (see Sub clause 8.1.1 of SABS 1200 HB).

Alteration work

BA.2 Alterations and repairs to existing structures:

BA.2.1 Indication of repairs, alterations, removal or sealing, etc:

BA.2.1.0 Description of work to be repaired, altered, removed, sealed, etc

..... Unit: As scheduled

The unit of measurement for alteration or repair work shall be as scheduled.

The tendered rates shall include full compensation for providing all labour, material and equipment required to carry out the work, for all preparatory work, for all additional costs to repair, refix, remove, cutting into, realign, taking off, temporary store etc as specified in the Standard and Technical Specifications and for carrying out the work scheduled in a workmanlike manner to leave the work as new to match all existing work and/or finishing-off and cleaning up when the work has been completed. Refer also to the general inclusion of costs in BA 6.1

PB EQUIPPING OF BOREHOLES

PB1 SCOPE

This sub-section includes all work related to the installation of borehole equipment including but not limited to the following:

1. Hand pumps
2. Windmills
3. Diesel driven engines
4. Positive displacement pumps
5. Submersible pumps and associated electrical work

The service to be rendered is the provision, installation, erection and commissioning of all the borehole equipment and appurtenant works.

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Employer

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PB2 GENERAL

Depending on borehole test results, the borehole will be equipped upon the Engineer's site instruction. The pump set shall comprise one complete borehole pump, including all pipe work to couple to main pipeline, electric or diesel driven, pulleys, driving belts, etc.

PB4. DESIGN, MEASUREMENTS AND RECORDS

PB4.1 Prior to the ordering of any materials to be used for the equipping of boreholes, the Engineer shall issue a selection lists to the Contractor, specifying the equipment to be installed at each borehole.

The Contractor must proceed with the immediate ordering and/or installation of the specified equipment after reception of these lists.

PB4.2 Prior to equipping of each borehole, the Contractor shall measure and record the diameter of the borehole at natural ground level, the static water level (in metres below ground level), the depth of the casing and the total depth (in metres below ground level). These measurements shall be verified with the Engineer prior to equipping of such borehole.

PB8. BOREHOLE PUMPS

Supply and delivery of all components required:

- (a) Pumps shall be of the type specified and be self-priming, positive displacement rotary type, vertical spindle borehole pump, suitable for pumping potable water to a concrete reservoir or elevated tanks.
- (b) Borehole column specifications
 - (i) Columns with a dia less than 55 mm must be manufactured from medium galvanise tubing according to SABS 62 spec.
 - (ii) Columns with a dia more than 65 mm must be manufactured from heavy wall tubing with a 4,85 mm min wall thickness according to SABS 62 spec.
 - (iii) Bell-mouth columns are not acceptable.
 - (iv) Columns must include sockets, shafts, bobbin bearings, etc.
 - (v) A sufficient quantity of lubricant, as prescribed by manufacturer, shall be included.
 - (vi) All threads shall be parallel truncated.
 - (vii) Sockets shall be precision machined from seamless heavy wall tube.
 - (viii) Standard galvanised sockets for sizes above 25 mm dia are not acceptable.
 - (ix) Stag sealer to be used on column threads.
- (c) Column shall be according to specification. Column stabilisers shall be fitted to at least every fourth column pipe to secure a neat fit against the borehole perimeter. During assembly of pipe columns, the pipe thread area and each socket shall be covered with a protective sealer, following securing of the socketed joint. All accordance to specification (stag).
- (d) The inlet of the pump unit shall be fitted with a suitable strainer.

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Employer

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- (e) The discharge head shall incorporate the pulley housing and shall be mechanically safeguarded against incorrect direction of rotation. The discharge head shall be provided with a cast iron or fabricated steel bed plate fixed to a concrete foundation block of adequate size by means of suitable anchor bolts.

Pump and electrical/diesel driven shall be accurately aligned on an integral steel frame according to installation instructions of the pump manufacturer and shall allow adjustment in any direction on the horizontal plane for both engine and pump. Length of V-belts shall be as recommended by the pump manufacturer. A detachable steel plate guard, painted red, shall cover the entire V-belt drive. Provision to be made for adjustment of the guard to suit occasional V-belt tension adjustments. See Drawing No. 131 159/99 ME and 131 160/99 ME.

- (f) After installation, the contractor must check the horizontal alignment in both directions of the complete pump installation before starting and commissioning of the pump installations.

- (g) Centrifugal clutches will be provided where pumps are driven by diesel engines.

- (h) Name plates:

Two name plates required:

10 mm punched letters.

To be installed as follows:

- * One nameplate inside the pumphouse.
- * One nameplate outside the pumphouse.

(Pumphouse door - outside position)

Information required on each nameplate:

BOREHOLE NO.
DATE INSTALLED
STATIC WATER LEVEL (m)
DEPTH OF PUMP INLET (m)
DEPTH OF BOREHOLE (m)
PUMPING RATE (l/s)
RECOMMENDED PUMPING TIME (h/day)
TYPE AND PUMP NAME
CONTRACTORS NAME

PB9. SUBMERSIBLE CENTRIFUGAL PUMPS

PB9.1 Complete submersible pump price assemblies for various depths and heads shall comprise of:

Detail of submission must be submitted by tenderer.

- (a) Pump and motor
 Non-return valve must be installed at the discharge of the pump.

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Witness 2

- (b) Pipe and pump coupling
- (c) HDPE pipe
- (d) Pipe and baseplate coupling
- (e) Baseplate
- (f) Term joint kit (electrical connection)
- (g) Starter and control panel
Motor protection should be sufficient to open the circuit within 10 seconds of the occurrence of locked rotor or single phasing or dry running.
- (h) Mef bend - galvanised
- (i) Barrel nipple - galvanised
- (j) Brass gate valve
- (k) Brass check valve
- (l) Valve and pipe coupling
- (m) 20 NB HDPE Type IV Class 6 for water level measurement strapped to columns with heavy duty cable-ties
- (n) Submersible cable
The cable sizes must be based on the distance between the supply entry point (starter and control panel) and the motor.
- (o) Earth cable
Size of earth cable must be larger than the drop nylon rope and must be connected to the MOV surge arrestors.
- (p) Nylon rope
- (q) Nameplate
The borehole nameplate must be installed and support with a suitable bracket
- (r) Installation
The borehole pumps must not be installed deeper than 5 metre from the bottom of the borehole or sediment area.

PB9.2 Refer to PB12 and PD1-PD7 for electrical specifications and requirements.

PB9.3 Submersible centrifugal pumps shall be suitable for either 220 volt or three phase 380 volts.

PB10. ANCILLARY PIPEWORK
Ancillary pipework to be supplied and installed according to specification.

PB11. EQUIPMENT
Equipment to be supplied and installed all in accordance with the applicable specification.

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

- PE1 ELECTRICAL (PART 1)
- PE1. GENERAL
- PE2. SITE LOCATION AND DETAILS
- PE3. DETAILS OF CONTRACT
- PE4. INSPECTION OF SITE
- PE5. SITE FACILITIES
- PE6. CONSTRUCTION PROGRAMME
- PE7. STANDARD SPECIFICATIONS, REGULATIONS AND CODES
- PE8. DELAYS AND OVERTIME
- PE9. SECURITY OF MATERIALS AND EQUIPMENT
- PE10.STORAGE
- PE11.QUALITY OF MATERIALS
- PE12.COMPETENCE OF PERSONNEL, WORKMANSHIP AND STAFF
- PE13.FINISHING AND TIDYING
- PE14.PROTECTION OF OTHER SERVICES AND STRUCTURES
- PE15.SHOP DRAWINGS
- PE16.INSPECTIONS
- PE17.SITE TESTS AND COMMISSIONING
- PE18.AS-BUILT / OPERATING AND MAINTENANCE MANUALS

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PE1. GENERAL

- 1.1 The work to be carried out under this subcontract comprises of the electrical services installation for the new sports complex in Namakgale, Limpopo Province.
- 1.2 The Project Specification shall be read in conjunction with the schedule of quantities and the drawings contained in this document. Where contradictions occur between the documents, the most stringent requirement shall rule, unless otherwise stated by the Engineer.
- 1.3 Only equipment based on proven technology and of high reliability shall be considered for use.
- 1.4 All schedules included in the project documentation shall be completed in full and submitted with the tender. Failure to comply with the above will result in the tender being disqualified.
- 1.5 All relevant technical information regarding each component or item offered shall be included either in the forms to be completed by the tenderer or as an appendix to the tender in order that the Engineer can make a true evaluation of the offer.
- 1.6 Where the Contractor chooses to offer items imported from other countries, these shall be offered as an alternative offer. Complete technical details of all alternative equipment shall be Included in the Bid document and the Contractor shall prove that all the requirements of the specification have been complied with.

PE2. SITE LOCATION AND DETAILS

- 2.1 The site is situated in Namakgale, Limpopo Province.
- 2.2 The site is subject to the following prevailing conditions.
 - Maximum Temperature : 37° C
 - Minimum Temperature : -3° C
 - Altitude : ±1230 above sea level
- 2.2 The system conditions are as follows:
 - Supply voltage : 400 V 3 phase
 - Rated frequency : 50 Hz

PE3. DETAILS OF CONTRACT

The work to be carried out under this sub-contract consists mainly of electrical services installation for the new sports complex in Namakgale, Limpopo Province.

PE4. INSPECTION OF SITE

Tenderers are required to visit the site to thoroughly acquaint themselves with the nature and extent of the work to be done, and to make allowance for items obviously intended and necessary for the proper completion of the work although not specifically specified in this document. Claims due to lack of knowledge will not be entertained. All uncertainties shall be cleared out with the Engineer before the tender closing date.

PE5. SITE FACILITIES

The Electrical Sub-Contractor may negotiate with the Main Contractor for establishment of stores/yard and site office on the premises.

PE6. CONSTRUCTION PROGRAMME

- 6.1 A detailed construction programme shall be submitted within fourteen days after acceptance of

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Contractor

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Employer

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Witness 2

the tender. This programme shall be finalised in liaison with the Main Contractor and shall have to be approved by the Engineer.

- 6.2 The Main Contractor's programme shall be co-ordinated with the programme of all his Subcontractors and shall include allowance for builders holidays and public holidays as specified in the Standard Conditions of Contract.

PE7. STANDARD SPECIFICATIONS, REGULATIONS AND CODES

The latest edition, including all amendments up to date of tender of all the applicable SABS specifications, publications and codes of practice including Manufacturers' specifications and installation instructions, shall be read in conjunction with this specification and shall be deemed to form part thereof.

PE8. DELAYS AND OVERTIME

8.1 If the Electrical Sub-Contractor's work should cause any delay to the late completion of the works, he will be held responsible for any claims arising out of such delays in accordance with the stipulations of the Principal Contract.

8.2 Payments for overtime will only be considered if formally instructed by the Engineer and no payment will be made for overtime to maintain progress in accordance with the programme or to make good lack of progress by the Electrical Sub-Contractor.

PE9. SECURITY OF MATERIALS AND EQUIPMENT

9.1 The Electrical Sub-Contractor shall provide and maintain, at his own cost, all lights, guards, barriers, fencing and safeguarding as may be required for his works, installations, materials, equipment and public safety, until all works have been completed in full. Any materials damaged or stolen from site prior to final handover of the whole project shall be replaced by the Electrical Sub-Contractor with no cost to the Client.

9.2 All materials and equipment e.g. distribution kiosks, distribution boards, light fittings, etc supplied as part of this Subcontract shall be well protected against damage during transportation, off-loading, storage and building operations.

PE10. STORAGE

The Sub-Contractor shall be responsible for provision of an adequate and safe storage for all his materials. All materials shall be stored or stacked in positions that will not interfere with other work in progress in the area, or the safe and unhindered movement of the public in the area.

PE11. QUALITY OF MATERIALS

11.1 All materials supplied by the Electrical Sub-Contractor under this Subcontract Works shall be new and unused. Only materials of first class quality shall be utilised. Samples of all materials e.g. luminaires, outlets, cable support systems, etc, shall be subject to approval by the Engineer before the procurement process commences.

11.2 All materials shall comply with the relevant specifications as listed in Section 7 above.

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

11.3 Factory tests

The Contractor shall arrange factory inspections and tests by the Engineer of equipment manufactured and supplied as part of this Contract e.g. distribution boards, kiosks, etc.

PE12. COMPETENCE OF PERSONNEL, WORKMANSHIP AND STAFF

12.1 The Sub-Contractor shall ensure that all safety regulations and measures are applied and enforced during construction work on existing live cabling, wiring, distribution boards, luminaires, power points, fixed appliances, etc.

12.2 Only suitably qualified Artisans shall be permitted to carry out work. The Electrical Sub-Contractor shall provide proof of current Artisan qualifications and experience on request.

12.3 Work shall at all times be subject to full time supervision by qualified and experienced Artisans. These representatives must be authorised and competent to receive instructions on behalf of the Sub-Contractor.

12.4 The Sub-Contractor shall at all times have an adequate number of employees, plant and equipment available during the construction period to ensure that the electrical work does no delay the construction programme.

PE13. FINISHING AND TIDYING

13.1 In view of the concentration of construction and other activities likely to be experienced during the Contract period, progressive and systematic finishing and tidying will form an essential part of this Subcontract. On no account will soil, rubble, materials, equipment or unfinished operations be allowed to accumulate in such a manner as to unnecessarily impede the activities of others.

13.2 Finishing and tidying shall therefore not be left to the end of the Contract, but shall be a continuous operation.

PE14. PROTECTION OF OTHER SERVICES AND STRUCTURES

14.1 The Sub-Contractor shall take all the necessary precautions to protect finishes, structures and existing services during the execution of the Contract.

14.2 The Sub-Contractor shall be responsible for obtaining information regarding services and existing works which may be affected by the new works. Before the Sub-Contractor commences with any work on site, he must discuss with and have the approval of the Engineer regarding the method he proposes to use for safeguarding any services and existing works he may encounter during construction.

14.3 The cost of all precautionary measures which may be necessary to ensure the safety of such services and existing works, as well as the protection for all persons, shall be borne by the Electrical Sub-Contractor. Any alteration to services which may be required shall be carried out by the Authority concerned at the expense of the Sub-Contractor. The Electrical Sub- Contractor shall be held responsible for any damage, injury or accident caused as a result of his failure to take the necessary precautionary measures.

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Witness 2

Employer

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Witness 2

- 14.4 The Electrical Sub-Contractor shall, during the execution of this contract, suitably protect the working area and his staff and shall indemnify the Owner in respect of all claims arising out of injury or deaths of any persons lawfully on the premises, whose injury or death is caused by the execution of this Sub-Contract.
- 14.5 The Sub-Contractor shall also exercise extreme care when and where excavations are made to avoid damage to existing or newly installed services. Any damage to other services shall be rectified forthwith and the cost for the rectification will be recovered from the Sub-Contractor.

PE16. INSPECTIONS

- 16.1 The Engineer will inspect the installation at any time. All inferior, unsuitable, unacceptable or rejected work shall, if indicated by the inspecting officers, be removed and shall be rectified by the Sub-Contractor at his own expense. Under no circumstances will these inspections relieve the Sub-Contractor of his obligations in terms of the document nor will these inspections be regarded as final approval of the works or portions thereof.
- 16.2 Where inspections are requested by the Engineer, the Engineer's inspection shall only be carried out after the Sub-Contractor has carried out his own preliminary inspection to ensure that the works are completed and comply with the documents. The Engineer's inspection shall therefore not be regarded as supervision, fault listing, quality assurance or site management.

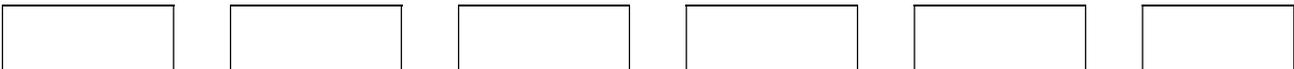
PE17. SITE TESTS AND COMMISSIONING

- 17.1 It is the responsibility of the Electrical Sub-Contractor to provide all labour, accessories and properly calibrated and certified measuring instruments necessary for all the tests required under this Sub-Contract.
- 17.2 Prior to beginning any aspect of commissioning, the Sub-Contractor shall present for the Engineer's review/approval, two copies of a complete commissioning procedures manual including checklists. The relevant checklists shall be utilised and formally signed off as part of the commissioning phase.

PE18. AS-BUILT / OPERATING AND MAINTENANCE MANUALS

- 18.1 The Contractor shall prepare as-built drawings for the complete installation and any other equipment installed as part of this Sub-Contract.
- 18.2 One copy of the Operating and Maintenance Manuals shall be submitted to the Engineer for approval at least four weeks prior to commissioning of the works.
- 18.3 Approved "as-built" drawings and documents shall be bound in hard cover dossiers, fully indexed. The same information shall also be submitted on compact disc.
- 18.4 Hard copies of the test sheets and certificates, Guarantees and Warranties shall also be submitted.
- 18.5 Three copies of CD and hard copies of all items listed in 18.2 to 18.4 above must be submitted. The Contract will be regarded as incomplete until this requirement has been complied with

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PE ELECTRICAL (PART 2)

PE1. GENERAL

PE2. SCOPE OF WORKS

PE3. STANDARDS AND CODES OF PRACTICE

PE4. POWER SUPPLY TO SITE

PE5. WORK PROVIDED BY OTHERS

PE6. LOW VOLTAGE CABLE INSTALLATION

PE7. DISTRIBUTION BOARDS AND KIOSKS

PE8. CONDUITS, POWERSKIRTING, CABLE TRAYS AND CABLE DUCTS

PE9. LIGHTING INSTALLATION

PE10.POWER INSTALLATION

PE11.WIRING

PE12.TELEPHONE AND DATA INSTALLATION

PE13.CABLE SLEEVES AND MANHOLES

PE14.EARTHING AND BONDING

PE15.LIGHTNING PROTECTION

PE16.AREA AND SPORTFIELD LIGHTING

PE17.BALANCING OF LOADS

PE18.SITE TESTS AND COMMISSIONING

PE19.MAINTENANCE PERIOD

PE20.SCHEDULE OF DRAWINGS

PE21.TECHNICAL DATA SCHEDULE

PE1. GENERAL

- 1.1 This specification comprises all aspects regarding the electrical services installation for the new sports complex in Namakgale, Limpopo Province.
- 1.2 The work shall also include the bulk supply to site by the supply authority, new building electrical services installation for the clubhouse, ablutions and guardhouse; area and all sports field lighting including external LV cable reticulation and distribution kiosks.
- 1.3 Extreme care shall be taken when working on live electrical installations on site. Only qualified electricians shall be expected to work on live installations e.g. distribution boards, cabling, etc.
- 1.4 The Detail Specification shall be read in conjunction with the Standard Specifications listed in section 3 below, schedule of quantities, drawings and the Conditions of Contract for the Main Contract. Where contradictions occur between the documents, the most stringent requirement shall rule, unless otherwise stated by the Engineer.
- 1.5 All work shall be scheduled in liaison with the Main Contractor to suit his master programme.

PE2. SCOPE OF WORKS

The scope of the installation shall comprise of the supply, delivery, off-loading, installation, commissioning, testing and guarantee of the following material and equipment associated with the above-mentioned works:

- 2.1 Compilation of shop drawings, manufacture and installation of new distribution boards and kiosks
- 2.2 Internal and external lighting installation for the clubhouse, ablutions and guardhouse
- 2.3 Power installation
- 2.4 Wireways and conduits to lights, socket outlets, power outlets and all electrical equipment and or plant
- 2.5 Wiring of lighting and power points with PVC insulated conductors and bare copper earth wire

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Witness 2



Employer



Witness 1



Witness 2

- 2.6 Earthing and bonding of metal structures and sanitary ware accessories
- 2.7 High mast installation
- 2.8 Area and sports field light poles including luminaires
- 2.9 Excavation, backfilling and compaction of cable trenches
- 2.10 Low voltage cable reticulation from kiosks to all buildings on site including area and sports field lighting and proposed borehole
- 2.11 Sleeve and manhole installation, where required
- 2.12 Lightning protection system
- 2.13 Site supervision and quality management
- 2.14 Commissioning, testing and handing over of complete electrical installation detailed above and to provide "as-built" drawings these aspects should be seen only as a brief summary of the scope of work and not as a complete record. Quantities and volume of work shall be read or obtained from the drawings and the text of the specification.

All components, mounting brackets, draw boxes, junction boxes, cabling, wiring and all other electrical, mechanical and civil works required to complete the works in accordance with the specification, prior to handover, shall be deemed to be included in the tendered rates and prices even though some items may not be mentioned separately.

PE3. STANDARDS AND CODES OF PRACTICE

- 3.1 The electrical work shall be carried out strictly in accordance with:-
 - SANS Code of Practice - 10142-1:2012: "The Wiring of Premises"
 - SANS Code of Practice - 10313-2012: "Protection against Lightning – Physical Damage to Structures & Life Hazard"
 - Occupational Health and Safety Act 85/1993. the Municipal By-Laws and any Local Authority Regulations which may be in force the Local Fire Office Regulations.
- 3.2 Manufacturers' specifications and installation instructions.

PE4. POWER SUPPLY TO SITE

- 4.1 There is currently a power supply to the site
- 4.2 It will be the responsibility of the Electrical Sub- Contractor in the distribution of power from the main distribution kiosk to all buildings, equipment and installations on site.
- 4.3 The electrical subcontractor shall make all the necessary arrangements with the municipal authority regarding registration of work to be done, testing and certificate on completion. Proof of registration shall be submitted to the engineer within 14 days of the contract being awarded. All regulations and requirements of the local supply authority shall be strictly complied with.

PE5. WORK PROVIDED BY OTHERS

The following work shall be provided by others:

- 5.1 Power supply
Provision of bulk power supply to site.
- 5.2 Mechanical services

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Witness 2

Employer

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- 5.2.1 Air conditioning equipment and ventilation fans if required, shall be supplied and installed by the Mechanical Sub-contractor.

The electrical subcontractor shall be responsible for provision of the necessary outlet points and isolators. The final connection from the isolator to the equipment shall be done by the Electrical Sub-contractor.

- 5.3 Water supply and distribution

- 5.3.1 Geysers shall be supplied and installed by the plumbing subcontractor. The Electrical Subcontractor shall be responsible for providing the local isolator adjacent to each geyser.

The final sprague connection from the isolator to the geyser shall be done as part of this Sub-Contract.

- 5.3.2 Equipment for the domestic water pump system if required, shall be supplied and installed by others. The Electrical Sub-contractor shall be responsible for provision of supply cables to local isolators and/or distribution boards as may be required. The final connection from the isolator and/or distribution board to the equipment shall be done by others.

- 5.4 Communication systems

Wiring for telephone services shall be done by others. The Electrical Subcontractor shall be responsible for provision of all communication cable sleeves and manholes, conduit, data and telephone outlets including steel draw wires in all communication cable sleeves and conduit

PE6. LOW VOLTAGE CABLE INSTALLATION

- 6.1 The tender price shall include the supply, delivery, installation, testing and commissioning of all the cables specified including the marking off and connections at both ends.

- 6.2 All cables shall have stranded copper conductors and shall be of the PVC/SWA/PVC type, 600/1000V Grade and shall comply with SANS 1507. Cables with aluminium conductors are not acceptable.

- 6.3 All terminations shall be done with lugs, glands and shrouds as specified. Shrouds shall cover the gland completely.

- 6.4 All cables shall be labelled at both ends. The cables shall be labelled by means of "Grafoplast" or approved type cable markers. The cable labels shall indicate the full name of both distribution boards. Thus if DB A2 feeds DB B2, the label at each cable end shall read "DB A2/DB B2".

- 6.5 Copper earth continuity conductors shall be installed with all low voltage cables, and shall be strapped to the cable at 1500mm intervals.

- 6.6 Cables in which the phase conductors are colour coded by means of a coloured stripe along the insulation will not be accepted. The entire conductor PVC insulation shall be fully colour coded in red, white, blue or black. The conductors of cables used for single phase loads or connections shall be red

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and black. Cables with red, white and blue conductors will not be accepted for use on single phase loads or connections.

- 6.7 All cables shall be tested after installation in accordance with SABS 1507 by means of a 600V megger. In addition all cables shall be phased out to ensure correct phase rotation.
- 6.8 All test results shall be submitted to the Engineer in writing, before the final commissioning of the equipment and cables take place.
- 6.9 It shall be the responsibility of the Electrical Sub-contractor to determine the correct lengths of cable required on site, before placing an order. The Sub-Contractor shall not be reimbursed for any surplus or shortfall of cable.
- 6.10 Cable reticulation outside the buildings shall be by means of underground cables installed in uPVC sleeves where cables cross paved areas or run underneath the sports ground. Where sleeves are not specified, cables shall be laid directly in the ground. Minimum laying depths shall be 650 mm below final ground level unless otherwise specified, and routes shall be as indicated on the drawings.
- 6.11 All trenching, including excavations, bedding layers, shoring and prevention of waterlogging, drainage of excavations, backfilling and compaction of trenches form part of this contract. Trenches shall be compacted to a minimum of 93% of modified AASHTO density during backfilling.
- 6.12 The Sub-Contractor shall take cognisance of the fact that other services might be installed along the same routes as the cables. The Sub-Contractor shall, before commencing with any excavations, peg out the proposed cable route and confirm it with the Engineer.
- 6.13 Positions of cable markers shall be pegged on site in collaboration with the Engineer. The wording of the labels shall be provided by the Engineer.
- 6.14 Joints will not be permitted in any of the low voltage cables.
- 6.15 Cables Installed on Cable trays
- 6.15.1 Cables shall be fixed to the cable trays by means of stainless steel strapping at 600mm spacing.
- 6.15.2 The Contractor shall plan cable runs prior to installation of cables as crossing of cables will not be accepted unless it is impossible to avoid.
- 6.16 Cables Installed on Cable trays
- 6.16.1 Cables shall be fixed to the cable trays by means of stainless steel strapping at 600mm spacing.
- 6.16.2 The Contractor shall plan cable runs prior to installation of cables as crossing of cables will not be accepted unless it is impossible to avoid.

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Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

PE7. DISTRIBUTION BOARDS AND KIOSKS

7.1 General

Extreme care shall be taken when working on existing live electrical installations. Only qualified electricians shall be expected to work on live distribution boards and kiosks.

7.2 Manufacture

- (i) Electrical Sub-Contractor is advised to order all new distribution boards and kiosks from a reputable manufacturer as inferior equipment will not be accepted.
 - (ii) The Electrical Sub-Contractor to note that manufacturer of the distribution boards and kiosks shall only commence after approval of the factory drawings by the Engineer.
 - (iii) Distribution boards shall be of the recessed type with pad lockable doors.
 - (iv) Distribution kiosks shall be of the free standing type with pad lockable doors. The kiosks shall be supported on concrete plinth to be supplied as part of this subcontract.
 - (v) All equipment in distribution boards and kiosks shall be mounted behind removable panels.
 - (vi) The front panel of the board shall be secured by means of the Perano or Procast type knurled edge catches. Catches with slots or square key facilities will not be acceptable. Each front panel shall also be fitted with 2 approved D type handles top and bottom, to assist removal and replacement.
 - (vii) Door hinges shall be of the "Procast" or similar type. All panels shall be supplied with handles.
- (b) Equipment
- (i) All equipment in distribution board and kiosks shall bear the SABS mark of approval and be of Merlin Gerin manufacture or similar approved equal.
 - (ii) All phase, neutral and earth bars shall be adequately sized to accommodate the specified circuits as well as allowance for 40% future circuits.
 - (iii) Circuit breakers shall be used in the cascade arrangement and only cascade arrangements proven by SABS tests shall be utilised throughout.
 - (iv) All circuit breakers shall be rated for a fault level as indicated on the relevant distribution board schematic diagram.
- (c) Drawings
- (i) Three sets of manufacturers' drawings of each new distribution board shall be submitted for approval by the Engineer before manufacture of the distribution board may commence.
 - (ii) It shall be noted that late approval of drawings and distribution boards due to noncompliance with the specification will not relieve the Sub-Contractor from his obligations to complete the installation according to programme. No claims for delays or for extension of time in this regard will be entertained.
- (d) Schedule of distribution boards
Distribution Boards shall be installed at the positions indicated on the drawings and according to the detailed schematic diagrams forming part of this specification.
- (e) Schedule of distribution kiosks
Distribution kiosks shall be installed at the positions indicated on the drawings and according to the detailed schematic diagrams forming part of this specification.

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Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

PE8. CONDUITS, POWERSKIRTING, CABLE TRAYS AND CABLE DUCTS

8.1 Conduits

8.1.1 All conduits and accessories shall bear the SABS mark of approval.

8.1.2 PVC conduit and accessories may be used for indoor installation unless specified otherwise.

8.1.3 External draw box covers shall be sealed with white silicone after the installation is completed.

8.1.4 Conduit installation on masonry wall surfaces shall **not** be permitted inside and outside the building.

8.1.5 All chasing work where approved, shall be carried out by means of power driven machinery using abrasive cutting discs. Chasing by means of hammer and chisel will not be accepted.

8.1.6 Conduit work under open roof structures and inside accessible ceilings shall be done in rectangular grid pattern. All conduit offsets shall be neat and at equal angles. Steel saddles installed at 1500mm intervals shall be used inside ceilings. Caddy clamps shall be used on roof purlins, maximum spacing of saddles and clamps shall be 750 mm.

8.1.7 All steel conduits and cable supports shall be securely bonded to earth.

8.1.8 Bushes fitted to steel conduits shall be brass only. Other materials are unacceptable.

8.1.9 All conduits installed for services provided by others shall be fitted with 2,5 mm \varnothing galvanised draw wire if the wiring is not installed as part of this subcontract.

8.2 Cable trays

8.3.1 Cable trays if required shall be the perforated, heavy-duty, 2.5 mm thickness hot dipped galvanised steel type. The cable tray width shall be as specified on the relevant drawings or in the bills of quantities.

8.3.2 Only purpose-made accessories, e.g. splices, risers, offsets and bends shall be used.

8.3.3 Trays shall be fastened onto 500 mm lengths of P2000 unistrut. Each unistrut section shall be fixed to the roof, wall or floor with galvanized 10 mm x 50mm \varnothing Fisher anchors. Unistrut spacing shall be 600 mm maximum. Only purpose-made accessories shall be used.

8.4 Cable ladders

8.4.1 Cable ladders if required, shall be hot dipped galvanized and all members shall be 2 mm thick, with 76 mm side rails and cross rungs at 375 centres. Cable ladders shall be supported at maximum 800 mm intervals with approved galvanized suspension brackets or P2000 unistrut nor 10 mm galvanized threaded rod hangers.

8.4.2 The width shall be as specified and only purpose-made accessories shall be used.

8.5 Trunking

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- 8.5.1 Steel trunking, where required, shall be the hot dip galvanised type with 0,8 thickness complete with elbows, tees and covers. The width shall be as specified.
- 8.5.2 Where sleeves are not indicated on drawing, any surface-mounted distribution boards not installed behind a cupboard shall be linked to openings in ceilings or floors by means of 127 mm wide, hot dip galvanised steel trunking supplied complete with distribution outlets and covers. The trunking shall be powder coated and the colour shall match the DB exterior colour.

PE9. LIGHTING INSTALLATION

9.1 General

- 9.1.1 The Electrical Sub-Contractor shall allow for the supply and installation of the complete new internal lighting system as indicated on the relevant drawings.
- 9.1.2 Samples of luminaires shall be submitted to the engineer for approval before ordering commences.
- 9.1.3 All light fittings shall be delivered to site new and unused and in boxes as packed by the manufacturer. When the work is handed over, all light fittings shall be in a working condition.
- 9.1.4 The permanent light fittings intended for installation shall not be used for temporary lighting during construction. The certificate of completion for the installation will not be finalised, unless all light fittings and lamps are in working order.
- 9.1.5 All linear fluorescent type luminaires shall be equipped with high efficiency 16 mm diameter tubes (T5), generally 600 and 1200 mm long and with a colour temperature of 4 300 k (cool white) and minimum colour rendering index (Ra) of 64 unless otherwise stated. The engineer will reject unmarked lamps. All costs to replace these lamps with marked lamps will be for the contactor's account.
- 9.1.6 All PL type lamps shall be colour 41, with a temperature of 2 700 k. Lamps not marked thus will not be accepted, as stipulated above.
- 9.1.7 Wiring for the lighting installation shall generally be installed inside conduits.
- 9.1.8 Special care shall be taken to ensure that conduit connections do not violate the IP rating of luminaires. This applies specifically to the exterior luminaires. Mounting holes and conduit entries shall be sealed with black silicone after connection.
- 9.1.9 No luminaires shall be fitted to masonry wall with fasteners smaller than 3,5 mm diameter and a wall plug smaller than 8 mm diameter. Galvanised 30 mm \varnothing fender washers shall be used with each fastener.
- 9.1.10 Tenderers to note that recessed type fluorescent luminaires shall be installed in all office areas and corridors. Wiring to the recessed fluorescent fittings shall consist of 20 mm conduits and standard 100 x 50 mm draw boxes above the ceiling. In close vicinity of the luminaire positions, 1 x 6A unswitched socket outlet shall be provided, fixed to the conduits for support,

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Witness 2

for power supply to luminaires. All indoor fluorescent luminaires shall therefore be supplied with 3 m electrical cord fitted with a 6 Amp plug.

9.2 Light Switches

9.2.1 Tenderers to note the 16A current rating of light switches.

9.2.2 100 x 50 x 50 mm drawboxes shall be provided for light switches.

9.2.3 Light switches shall be the 16A, of Crabtree or Clipsal manufacture or similar approved equal, supplied complete with white cover plates.

9.2.4 Photocell shall be accommodated inside IP 65 bulkhead luminaires. No direct switching of lighting circuits via photocell contacts shall be accepted.

9.3 Luminaire mounting position

9.3.1 Internal and external light fittings shall be installed at positions shown on the relevant lighting drawings.

9.3.2 Mounting heights for wall mounted light fittings shall be as shown on the relevant drawings.

9.4 Schedule of Luminaires

9.5.1 All luminaires shall bear the SABS mark of approval. Luminaires shall be provided complete with lamps and control gear.

9.5.2 The following luminaire types are to be installed in the positions indicated on the drawing:

PE10. POWER INSTALLATION

10.1 General

10.1.1 The Electrical Sub-Contractor shall allow for the supply and installation of the complete new small power installation as indicated on the relevant drawings.

10.1.2 Samples of all outlets shall be submitted to the engineer for approval before ordering commences.

10.1.3 All outlets shall be delivered to site new and unused and in boxes as packed by the manufacturer.

10.2 Single phase socket outlets in wall

Normal socket outlets shall be the 16 Amp, flush mounted single or double 3-pin switched socket with white cover plates.

10.2 Isolators

10.4.1 Local isolators shall consist of normal 20A recessed double pole complete with outlet box, white cover plate and "cord grip" grommet to accommodate the hand dryer cable; final position shall be agreed on site.

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Employer

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Witness 2

10.4.2 Isolators for geysers where required in ceiling void shall consist of 20A surface mounted double pole complete with outlet box and cover plate. Final position shall be agreed on site.

PE11. WIRING

11.1 All internal wiring shall generally comprise of PVC insulated stranded copper conductors and bare stranded copper earth continuity conductors.

11.2 Only new wiring shall be used under this Sub-contract.

11.3 Wiring shall not be drawn into conduit until the conduit installation has been completed, fitted with bushes and all moisture and debris has been removed.

11.4 No joints of any kind shall be permitted in wiring.

11.5 No more than 1 single or 1 three phase circuit may be drawn into any conduit.

11.6 No "surfix" / "twin & earth" wiring will be accepted.

11.7 The following minimum conductor sizes shall be used:

PE12. TELEPHONE AND DATA INSTALLATION

12.1 The supply, delivery and installation of the telephone distribution boards, conduit, draw boxes, outlets and cover plates, external sleeves and manholes shall form part of this contract.

12.2 Telephone points shall be flush mounted 100 x 50 x 50 mm draw boxes complete with cover plate.

12.3 2,5mm diameter galvanised draw wire shall be installed in all telephone and data conduits. All information and communication outlet points shall be interlinked by means of 25mm diameter conduit which shall terminate in the telephone distribution boards supplied and installed as part of this Sub-Contract.

12.4 Telephone outlets shall be the RJ45.

PE13. CABLE SLEEVES AND MANHOLES

13.1 All sleeves and manholes shown on the drawings shall be supplied and installed as part of this Sub-Contract.

13.2 The sleeves shall be the flexible type installed at a minimum depth of 650mm below final ground level.

13.3 Crossings of all sleeves must be at 90° with the communication sleeves on the top.

13.4 All spare sleeves including electronic and communication sleeves shall be fitted with 4 mm ø galvanised draw wire.

13.5 On completion of the project, the end of all unused sleeves shall be sealed with paper and weak

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Witness 2



Employer



Witness 1



Witness 2

cement mixture.

PE14. EARTHING AND BONDING

14.1 General

- 14.1.1 The Electrical Sub-Contractor is to ensure that the installations covered in this document are effectively earthed and bonded in accordance with the requirements of SABS 0142.
- 14.1.2 All hot and cold water and waste metal pipes are to be effectively bonded by means of 12,5 Mm x 1,6 mm solid or perforated copper tape (not wire), clamped by means of brass bolts and nuts. The tape is to be fixed to walls by means of rounded brass screws at intervals not exceeding 150 mm.
- 14.1.3 Metal cable supports and others structures e.g. aerials shall be bonded by means of green insulated copper earth conductor of 16mm² minimum size.

PE15. LIGHTNING PROTECTION

Provisional sum has been allowed in the bills of quantities for supply and installation of an earthing and lightning protection system by a Specialist Sub-Contractor.

PE16. AREA AND SPORTFIELD LIGHTING

16.1 Area Lighting

- (a) Area and security lighting around the site shall be provided as part of this Sub-Contract.
- (b) Lighting shall be provided by means of pole mounted light fittings installed at positions shown on the relevant drawing.
- (c) Light poles shall be the 76mm diameter, 4m high (mounting height) manufactured from hot deep galvanised steel. The light poles shall be painted and architect shall advise on colour. Mounting brackets shall also be hot dipped galvanised.
- (d) Light fitting for the area lighting shall be 57W post top luminaire: BEKA: BEKARAY 57W CFL or similar approved equal

16.2 Sports field Lighting

- (a) High mast lighting shall be provided for general lighting of the athletics track. The mast shall be hot dip galvanised to SANS 121 ISO 1461 and shall be 25m in height.
- (b) Lighting shall be provided for the combi courts. The light poles shall be hot dip galvanised to SANS 121 ISO 1461 and shall be 12m in height (mounting).
- (a) Each mast shall be installed over a concrete foundation and shall be properly earthed.
- (b) Each mast shall be supplied complete with an internal IP30 glass fibre DB, IP 65 splitterbox and 5-core x 4mm² trailing cable.
- (c) All luminaires, associated equipment and control gear shall be new and unused and shall be complete with lamp control gear, visors, refractor bowls as applicable, mounting brackets and all other accessories to make the luminaires fully operative. The luminaires shall be delivered to site in protective covering.
- (d) All luminaires shall be equipped with an earth terminal and shall be earthed.

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Witness 2



Employer



Witness 1



Witness 2

PE17. BALANCING OF LOADS

The Electrical Sub-Contractor shall be responsible for the measurement, testing and balancing of load between all the phases of busbars to the satisfaction of the Engineer. Distribution board equipment shall be connected in such an order that the load is balanced across all three phases.

PE18. SITE TESTS AND COMMISSIONING

- 18.1 It shall be the responsibility of the Electrical Sub-Contractor to provide all labour, accessories and properly calibrated and certified measuring instruments necessary for all the tests required under this contract.
- 18.2 Prior to beginning any aspect of commissioning, the contractor shall present for the Engineer's review/approval, two copies of a complete commissioning procedures manual including checklists. The relevant checklists shall be utilised and formally signed off as part of the commissioning phase.
- 18.3 Preparation of commissioning report shall include, but not necessarily limited to:
 - 18.3.1 Manufacturer's operating, servicing and maintenance manuals for each and every individual item of plant installed.
 - 18.3.2 Inventory for the items of mechanical/electrical plant(s) and or equipment that shall be for installation in the project.

PE19. MAINTENANCE PERIOD

- 19.1 The equipment and installation supplied under this Sub-Contract shall be guaranteed for a period of twelve months from date of completion of the whole project of the Contract Works. The tender price shall include for the above.
- 19.2 The maintenance period will be for a period of twelve months, calculated from the date the complete installation has been taken over by the Client. Payment of the full amount of the retention money will be effected after the lapse of the maintenance period, provided the installation has been in satisfactory working order during this period. The Electrical Sub-Contractor shall be responsible for the replacement of all faulty electrical equipment supplied and installed as part of this Sub-Contract, including blown or faulty lamps during the maintenance period.

PE21. SCHEDULE OF DRAWINGS (DRAWINGS AVAILABLE TO TENDERER UPON REQUEST)

LIST OF DRAWINGS	
REFURBISHMENT OF NAMAKGALE STADIUM	
DRAWING NUMBER	DESCRIPTION
IPA/BPLM/NS/LM/DR01	LOCALITY MAP
IPA/BPLM/NS/ELP/DR02	EXISTING LAYOUT PLAN
IPA/BPLM/NS/GLP/DR03	GENERAL LAYOUT PLAN & FENCING DETAILS
IPA/BPLM/NS/SP/DR04	SOCCER PITCH AND ATHLETIC TRACK LAYOUT
IPA/BPLM/NS/WAT/DR05	SOCCER PITCH AND ATHLETIC TRACK SUB SURFACE DRAINAGE
IPA/BPLM/NS/WAT/DR06	SOCCER PITCH IRRIGATION SYSTEM LAYOUT
IPA/BPLM/NS/DL/DR07	RUNNING TRACK DRAINAGE LAYOUT

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Employer

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IPA/BPLM/NS/AF/DR09	DETAILS OF ATHLETIC FACILITIES
IPA/BPLM/NS/STR/DR10	ELEVATED WATER TANK LAYOUT, ELEVATIONS, SECTIONS & DETAILS
IPA/BPLM/NS/RD/DR11	TYPICAL CROSS SECTIONS OF PARKING AREA, WALKWAY AND ACCESS ROAD
IPA/BPLM/NS/SM/DR12	STANDARD SEWER MANHOLE AND PIPE BEDDIN DETAILS
IPA/BPLM/NS/TB/DR13	WATER BEDDING AND THRUST BLOCK DATAILS
IPA/BPLM/NS/STR/DR14	STEEL PALLISADE LAYOUT SECTIONS AND DETAILS
IPA/BPLM/NS/NB/DR15	NAME BOARD ERECTIONS DETAILS
IPA/BPLM/NS/GSFL/DR/26	GRAND STAND FOUNDATION LAYOUT
IPA/BPLM/NS/GSRL/DR27	GRAND STAND REINFORCEMENT LAYOUT
IPA/BPLM/NS/CRFRL/DR33	CHANGE ROOM FOUNDATION AND REINFORCEMENT LAYOUT
IPA/BPLM/NS/GOFL/DR34	GATE ONE FOUNDATION LAYOUT
IPA/BPLM/NS/GORL/DR35	GATE ONE REINFORCEMENT LAYOUT
IPA/BPLM/NS/GTRRL/DR36	GATE ONE FOUNDATION AND REINFORCEMENT LAYOUT
IPA/BPLM/NS/PV/DR38	PAVILLION VENTILATION
IPA/BPLM/NS/ABV/DR39	ABLUTION BLOCK VENTILATION
IPA/BPLM/NS/GSCLL/DR42	GRAND STAND CANOPY LIGHTING LAYOUT
IPA/BPLM/NS/CRPTL/DR43	CHANGE ROOMS AND PUBLIC TOILETS DISTRIBUTION BOARD LAYOUT
IPA/BPLM/NS/GSDBL/DR44	GRAND STAND DISTRIBUTION BOARD LAYOUT
IPA/BPLM/NS/CRPTSPL/DR47	CHANGE ROOM AND PUBPLIC TOILETS SMALL POWER LAYOUT
IPA/BPLM/NS/CRPTLL/DR48	CHANGE ROOM AND PUBLIC TOILETS LIGHTING LAYOUT
IPA/BPLM/NS/SL/DR22	SEWER LONG SECTIONS
IPA/BPLM/NS/SWL/DR23	STORMWATER LONG SECTIONS
19-001-100-MS-00	GRANDSTAND 01
19-001-200-MS-00	GRAND STAND 02
19-001-210-MS-00	GRAND STAND CEILING LAYOUT
19-001-300-MS-00	CHANGE ROOMS, GATE TWO, SCHEDULES
19-001-500-MS-00	GATE ONE
19-001-900-MS-00	FINISHES AND SIGNAGE SCHEDULES
19-001-910-MS-00	SANITARY SCHEDULES
19-001-000-MS-00	SITE PLAN
IPA/BPLM/NS/ESRL/DR08	ELECTRICAL SITE PLAN
IPA/BPLM/NS/PF/DR20	DESIGN PLATFORM
IPA/BPLM/NS/SWC/DR24	STORMWATER CATCHMENTS
IPA/BPLM/NS/SKP/DR25	SERVICES KEY PLAN

PE22. TECHNICAL DATA SCHEDULE

The trade name and/or catalogue numbers of all equipment forming part of the tender offer must be submitted. This information schedule must be fully completed by the Contractor.

1. Cables

(a) Manufacturer :

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

(b) Type :
 (c) Complies with SABS 1507 : (Yes/No)

2. Labeling system for cables

(a) Manufacturer :
 (b) Type :

3. Cable trays

(a) Manufacturer :
 (b) Type :

4. Cable ladders

(a) Manufacturer :
 (b) Type :

5. Cable trunking

(a) Manufacturer :
 (b) Type :

6. Wall-mounted isolators

6.1 Flush-mounted double pole

(a) Manufacturer :
 (b) Type (No of pins) :
 (c) IP rating :

6.2 Flush-mounted triple pole

(a) Manufacturer :
 (b) Type (No of pins) :
 (c) IP rating :

6.3 Surface mounted double pole

(a) Manufacturer :
 (b) Type (No of pins) :
 (c) IP rating :

6.4 Surface mounted triple pole

(a) Manufacturer :
 (b) Type (No of pins) :
 (c) IP rating :

7. Light switches

(a) Manufacturer :
 (b) Range / Type :
 (c) Current rating :
 (d) Industrial type: manufacturer :
 (e) Industrial type: current rating :
 (f) Industrial type: IP rating :

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

8. Switched socket outlets

- (a) Manufacturer :
- (b) Range / Type :
- (c) Current rating :

9. Telephone outlets

- (a) Manufacturer :
- (b) Range / Type :
- (c) To spec : (yes/no)

10. Data outlets

- (a) Manufacturer :
- (b) Range / Type :
- (c) To spec : (yes/no)

11. Luminaires

11.1 Type A : 2 x 28W open channel fluorescent luminaire

- (a) Manufacturer :
- (b) Type :
- (c) Complies with Spec? : (Yes/No)

11.2 Type A1 : 2 x 28W open channel emergency fluorescent luminaire with 1Hr battery unit @ 20%

- (a) Manufacturer :
- (b) Type :
- (c) Battery back-up time :
- (d) Complies with Spec? : (Yes/No)

11.3 Type B : 2 x 54W open channel fluorescent luminaire

- (a) Manufacturer :
- (b) Type :
- (c) Complies with Spec? : (Yes/No)

11.4 Type B1 : 2 x 54W open channel emergency fluorescent luminaire with 1Hr battery unit @ 20%

- (a) Manufacturer :
- (b) Type :
- (c) Battery back-up time :
- (d) Complies with Spec? : (Yes/No)

11.5 Type C : 2 x 28W dimmable open channel fluorescent luminaire

- (a) Manufacturer :
- (b) Type :
- (c) Complies with Spec? : (Yes/No)

11.6 Type D : 2 x 18W fluorescent downlight luminaire

- (a) Manufacturer :
- (b) Type :
- (c) Complies with Spec? : (Yes/No)

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Witness 1

Witness 2

Employer

Witness 1

Witness 2

11.7 Type D1 : 2 x 18W emergency fluorescent
downlight luminaire

- (a) Manufacturer :
- (b) Type :
- (c) Complies with Spec? : (Yes/No)

11.8 Type E : LED emergency signage luminaire 1hr battery unit

- (a) Manufacturer :
- (b) Type :
- (c) Battery back-up time :
- (d) Complies with Spec? : (Yes/No)

11.9 Type F : 2 x 18W IP65 fluorescent luminaire

- (a) Manufacturer :
- (b) Type :
- (c) IP rating :
- (d) Complies with Spec? : (Yes/No)

11.10 Type F1 : 2 x 18W IP65 emergency fluorescent luminaire

- (a) Manufacturer :
- (b) Type :
- (c) IP rating :
- (d) Complies with Spec? : (Yes/No)

11.11 Type G : 2 x 54W moisture proof fluorescent luminaire

- (a) Manufacturer :
- (b) Type :
- (c) IP rating :
- (d) Complies with Spec? : (Yes/No)

11.12 Type G1 : 2 x 54W moisture proof emergency
fluorescent luminaire

- (a) Manufacturer :
- (b) Type :
- (c) IP rating :
- (d) Complies with Spec? : (Yes/No)

11.13 Type H : 57W post top luminaire

- (a) Manufacturer :
- (b) Type :
- (c) Complies with Spec? : (Yes/No)

11.14 Type J: 2 x 54W megabay fluorescent luminaire

- (a) Manufacturer :
- (b) Type :
- (c) Complies with Spec? : (Yes/No)

11.15 Type J1 : 3 x 54W megabay emergency fluorescent
luminaire with 1Hr battery unit @ 20%

- (a) Manufacturer :

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Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

- (b) Type :
- (c) Battery back-up time :
- (d) Complies with Spec? : (Yes/No)

11.16 Type K: 1000W M/H floodlight for combi court

- (a) Manufacturer :
- (b) Type :
- (c) Type of light beam :
- (d) Complies with Spec? : (Yes/No)

11.17 Type L: 400W M/H floodlight

- (a) Manufacturer :
- (b) Type :
- (c) Type of light beam :
- (d) Complies with Spec? : (Yes/No)

11.18 Type M: 1000W M/H floodlight for athletics track

- (a) Manufacturer :
- (b) Type :
- (c) Type of light beam :
- (d) Complies with Spec? : (Yes/No)

12. Photocell

- (a) Manufacturer :
- b) Installation method :
- (c) Type and IP rating of enclosure :

13. Occupancy sensor

- (a) Manufacturer :
- (b) Type :
- (c) Installation method :
- (d) Coverage :

14. Wiring

- (a) Manufacturer :
- (b) Type :
- (c) Complies with Spec : (Yes/No)

15. Labeling system for wiring

- (a) Manufacturer :
- (b) Type :

16. Distribution boards

16.1 Recessed distribution boards

- (a) Manufacturer :
- (b) Enclosure type :
- (c) Current density of busbars : A/mm

16.2 Circuit breakers

- (a) Manufacturer :
- (b) Trade name :

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

(c) Port of delivery :
 (d) Minimum fault level : kA

16.3 Isolators

(a) Manufacturer :
 (b) Trade name :
 (c) Minimum fault level : kA

16.4 Earth leakage units

(a) Manufacturer :
 (b) Sensitivity rating :
 (c) Minimum fault level : kA

16.5 Contactors

(a) Manufacturer :
 (b) Type :
 (c) Current rating reference : (e.g. AC3)
 (d) Control voltage :

17. High Mast poles

(a) Manufacturer :
 (b) Type :
 (c) Material :
 (d) Height :
 (e) Type of DB :
 (f) To spec? : yes/no

18. Combi court scourt light poles

(a) Manufacturer :
 (b) Material :
 (c) Mounting height :
 (d) Pole diameter :
 (d) To spec? : yes/no

19. Area lighting light poles

(a) Manufacturer :
 (b) Material :
 (c) Mounting height :
 (d) Pole diameter :
 (d) To spec? : yes/no

C3.7 EPWP LABOUR INTENSIVE SPECIFICATION

3.7.1 Labour intensive competencies of supervisory and management staff

Contractors having a CIDB contractor grading designation of 7CE and higher shall only engage supervisory and management staff in labour intensive works who have either completed are registered for training towards, the skills programme outlined in Table 1.

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Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

Table 1: Skills programme for supervisory and management staff

Personnel	NQF Level	Unit standard titles	Skills programme description
Team leader / supervisor	1	Apply Labour-Intensive Construction Systems and Techniques to Work Activities	This unit standard must be completed, and } any one of these 3 unit standards
		Use Labour-Intensive Construction Methods to Construct and Maintain Roads and Stormwater Drainage	
		Use Labour-Intensive Construction Methods to Construct and Maintain Water and Sanitation Services	
		Use Labour-Intensive Construction Methods to Construct, Repair and Maintain Structures	
Foreman/ supervisor	4	Implement Labour-Intensive Construction Systems and Techniques	This unit standard must be completed, and } any one of these 3 unit standards
		Use Labour-Intensive Construction Methods to Construct and Maintain Roads and Stormwater Drainage	
		Use Labour-Intensive Construction Methods to Construct and Maintain Water and Sanitation Services	
		Use Labour-Intensive Construction Methods to Construct, Repair and Maintain Structures	
Site Agent / Manager (i.e the contractor's most senior representative that is resident on the site)	5	Manage Labour-Intensive Construction Processes	Skills Programme against this single unit standard

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

3.7.2 Employment of unskilled and semi-skilled workers in labour-intensive works – According to SANS 1914-5.

3.7.2.1 Requirements for the sourcing and engagement of labour.

1. 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.
2. The rate of pay set for the EPWP per task or per day is as legislated in latest publication.
3. 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.
4. 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 3.
5. 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 has less than one full time person earning an income;
 - c) where subsistence agriculture is the source of income.
 - d) those that are not in receipt of any social security pension income
6. The Contractor shall endeavours to ensure that the expenditure on the employment of temporary workers is in the following proportions:

3.7.2.2 Specific provisions pertaining to SANS 1914-5

1. Definitions

Targeted labour: Unemployed persons who are employed as local labour on the project

2. Contract participation goals

- a) The target participation goal for this Contract shall be a minimum of:
The contract participation goal shall be measured to these requirements.
- b) The wages and allowances used to calculate the contract participation goal shall, with respect to both time-rated and task rated workers, comprise all wages paid and any training allowance paid in respect of agreed training programmes.

3. Terms and conditions for the engagement of targeted labour

Further to the provisions of clause 3.3.2 of SANS 1914-5, written contracts shall be entered into with targeted labour.

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

4. Variations to SANS 1914-5

- a) The definition for net amount shall be amended as follows:
Financial value of the contract upon completion, exclusive of any value added tax or sales tax which the law requires the employer to pay the contractor.
- b) The schedule referred to in 5.2 shall in addition reflect the status of targeted labour as women, youth and persons with disabilities and the number of days of formal training provided to targeted labour.

5. Training of targeted labour

- a) The contractor shall provide all the necessary on-the-job training to targeted labour to enable such labour to master the basic work techniques required to undertake the work in accordance with the requirements of the contract in a manner that does not compromise worker health and safety.
- b) The cost of the formal training of targeted labour will be funded by the provincial office of the Department of Labour. This training should take place as close to the project site as practically possible. The contractor, must access this training by informing the relevant provincial office of the Department of Labour in writing, within 14 days of being awarded the contract, of the likely number of persons that will undergo training and when such training is required. The employer must be furnished with a copy of this request.
- c) A copy of this training request made by the contractor to the DOL provincial office must also be faxed to the EPWP Training Director in the Department of Public Works– Cinderella Makunike, Fax Number 012 328 6820 or email cinderella.makunike@dpw.gov.za Tel: 083 677 4026.
- d) The contractor shall be responsible for scheduling the training of workers and shall take all reasonable steps to ensure that each beneficiary is provided with a minimum of six (6) days of formal training if he/she is employed for 3 months or less and a minimum of ten (10) days if he she is employed for 4 months or more.
- e) The contractor shall do nothing to dissuade targeted labour from participating in training programmes.
- f) An allowance equal to 100% of the task rate or daily rate shall be paid by the contractor to workers who attend formal training above.
- g) Proof of compliance with the requirements must be provided by the Contractor to the Employer prior to submission of the final payment certificate.

3.7.3 Certification by recognized bodies – N/A.

3.7.4 Plant and materials provided by the employer

No material will be supplied by the employer. The contractor must supply all materials and plant. All materials and plant shall be made available by the Contractor for the execution of the works. All materials used in the Works shall, where such mark has been awarded for a specific type of material, bear the SABS mark.

C3.74

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

3.7.5 Construction Equipment

No equipment will be supplied by the employer. The contractor must supply all equipment and as far as possible, hire equipment from the local community.

The contractor's equipment for construction shall be adequate for the purpose required, of modern design and in good condition to carry out the works expeditiously. Should the Engineer be of the opinion that the equipment in use is in any way unsuitable for carrying out the works in a manner or at a rate commensurate with the requirements of the contract, he shall have the right to call on the Contractor at any time during the progress of the works to provide such additional or improved equipment as may be necessary to meet these requirements.

The Employer makes no provision in this contract for financial assistance to the Contractor for the acquisition of plant, machinery and equipment.

3.7.6 Existing Services

A number of existing underground services are on the site, and prior to any excavation work being commenced, it shall be the responsibility of the Contractor to make all the necessary enquiries with the Local Authority to satisfy himself as to the existence or not of any services on the site and to obtain permission to open up any existing services. Any damage to underground or visual overhead services that are shown on the drawings or that have been pointed out by the Engineer or authority in charge of such services, shall be repaired at the contractor's cost. The contractor shall also be liable for any compensations claimed resulting from damage to services that were pointed out to him.

a) Care of Existing Services

It is to be noted that construction work will be done adjacent to or traversing existing services. Prior to commencement of any constructional work in the aforesaid affected area, the Contractor shall satisfy the Engineer that all necessary precautions with respect to setting out procedures have been taken by the Contractor to evade the existing services.

The Contractor shall, before starting any excavations, carefully search and probe the terrain for any existing services or indications of the presence of such services. A payment item is included in the Schedule of Quantities for excavations by hand to locate known and unknown services. If other methods are to be used, the cost thereof is to be included in the Preliminary and General payment items.

In addition if the proposed new service(s) crosses underneath overhead power lines belonging to Eskom as well as underground pipelines and communication cables belonging to Telkom, the Contractor shall have to comply with all the requirements laid down by the relevant authorities when working in the vicinity thereof. The Contractor shall be responsible for checking the locations of all such services with representative of the relevant authorities to ensure that no damage is caused by construction operations.

Work executed within the road reserve of provincial or local roads shall be carried out strictly in accordance with the requirements laid down by the relevant provincial or local authorities. These include the use of traffic signs, flagmen and other requirements as applicable.

As the above work entails working in or close to an already developed enclosure, special care must be taken so as not to disturb the functioning of the existing facilities.

b) Connection to Existing Services

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Prior to connection of new services to existing services, the Contractor shall ensure that the constructed services are clean and free of foreign matter and shall subsequently request the Engineer, in writing, to inspect such Works. Only upon written approval of the Engineer, may connections to existing services be made.

c) Contractor to Notify Relevant Authority and the Engineer of Damaged Service

In the event of any service being damaged or accidentally disconnected for any reason, the Contractor shall immediately contact the relevant authority for instructions and shall report the occurrence to the Engineer in writing. The report shall include the reasons for the occurrence of the incident. When instructed the damage is to be repaired as soon as possible to the approval of the Engineer and Authority. The Contractor will be held responsible for paying all costs incurred by the Service owner or himself as result of each incident where the relevant service was clearly identified beforehand.

3.7.7 Site Establishment

a) Contractor's Camp site

The contractor shall provide a suitable site for his camp. The choice of the site for the establishment of the camp, offices and the layout thereof, shall be approved.

The camp site shall be cleared and grubbed and properly fenced with a security fence around the perimeter. The Contractor is to provide his own security at the camp or on the site if required, at his own expense.

After completion of the contract, the Contractor shall remove all his temporary buildings, plant and equipment. The site shall be made good and be left in a neat and tidy condition before a certificate of completion shall be issued.

b) Water Supply

The Contractor shall make his own arrangement for potable and construction water. See Item 4.10 below.

c) Power Supply

The Contractor shall make his own arrangements. The Contractor shall make his own arrangements for the supply of electric power to suit his own and the Engineer's requirements and operations. The cost of providing connections any transformer sub-stations and switch gear, generators fuel and/or overhead power lines or underground cables required to supply the electric power shall be included in the rates entered in the Schedule.

d) Ablution Facilities

The Contractor shall, at each construction area, provide sufficient portable chemical latrine units. The latrine units shall be serviced daily and kept in a hygienic and orderly state to the approval of the engineer. No separate payment shall be made for this requirement and the costs thereof shall be deemed to be included in the rates billed for the contractor's time-related obligations.

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

e) Cellular Telephone – See PSAB

It is a requirement of the contract that the contractor shall equip his site agent(s) with a cellular telephone to allow for effective communication between the contractor's supervisory personnel and the engineer's supervisory staff. All costs associated with the provision of cellular telephones for the contractor's personnel shall be deemed to be included in rates billed for time-related charges.

f) Site Facilities required by the Engineer – See PSAB

Type 1 Office requirements as per PSAB, one site office of approximately 20m² complete with sufficient lighting and power points. Two desks, ten chairs, one conference table and two steel filing cabinets. Two carports for his exclusive use, a net shade cover will suffice. An ablution unit for his exclusive use. The engineer does not require housing for personnel or laboratory facilities.

3.7.8 Site Usage

The Employer expects the contractor, his staff or agents to maintain good public relations with landowners, other contractors and members of the public at all time. Access to the site will be arranged by the Employer with the contractor. The Contractor shall submit a list of all his staff to the Employer for the purpose of access control.

3.7.9 Permits and Wayleaves

No way leaves are required on the project. The Contractor's staff will require access permits to enter the Site. The Contractor shall give 7 days advance notice to both the Engineer and the property owner of his intention to commence work in a servitude. The Contractor shall not permit his workmen and labourers to use the servitude as a temporary right-of-way and shall carry out the work expeditiously and with minimum inconvenience to the occupiers and to owners of adjacent property.

The Contractor shall take all necessary precautions for the protection of persons livestock, buildings and property. The soil shall be kept segregated and all gardens, fences, paths etc. shall be reinstated to their former condition.

Where acquisition of a servitude has not been finalised It may not be possible to obtain continuity of the work. The Contractor will be required temporarily to omit such sections until instructed that the work may proceed.

No extra payment will be made to the Contractor should it be necessary to omit sections and return to them later. It IS not intended, however, that the Contractor should be called upon to return to the Site after all other sections of the Contract have been completed and the Contractor has removed his plant and equipment.

Trees removed in a servitude shall remain the property of the stand owners if required by them.

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

3.7.10 Water for Construction Purposes

The Contractor shall make provision in his rates for the purchasing of water from local or other sources.

Should water be drawn from a Municipal source, the current tariffs shall be applicable. The Contractor can only draw water from points specified by the Municipality only after written authority has been granted. When permission is granted the water must be drawn through a metered stand-pipe issued by the Water & Sanitation Division.

The Contractor shall cease to operate until other arrangements have been made for the supply of water. No claims for delays so caused will be considered.

4.11 Survey Control and Setting Out of the Works –

The Contractor shall verify at his own cost the accuracy of the pegs or benchmarks pointed out as being available for use to set out the works. Any discrepancies must be reported to the Engineer in writing.

All pegs or benchmarks which are damaged during the Contract which were not in the direct way of the construction of the works shall be replaced by a competent Surveyor (or Land Surveyor if the positions were determined by a Land Surveyor in the first place) at the Contractors own cost.

4.12 Plant and equipment - See Section 4.1.2 – Project Specifications and for the purpose of Labour Intensive approach, are indicated in the SOQ, identified as ‘Li’

C3.8 MANAGEMENT

1. Applicable SANS 1921 standards

The following parts of SANS 1921 Construction works standards and associated specification data are applicable to the works:

- 1) SANS 1921 – 1
- 2) SANS 1921 – 5
- 3) SANS 1921 – 6

The abovementioned South African National Standards make several references to the Specification Data for data, provisions and variations that make these standards applicable to this contract. The Specification Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and these standards.

Each item of Specification Data given below is cross-referenced to the clause in the standard to which it mainly applies. The associated Specification Data is as follows:

2. Recording of weather

The Contractor shall erect an effective rainfall gauge on the site and record the daily rainfall figures in a book. Such book shall be handed to the employer's representative for his signature no later than 12 days after rain that is considered to justify an extension of time occurs according to Standard Condition of Contract Clause 45(3)(b), as follows:

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

“(b) Abnormal climatic conditions, with the understanding that no extension of the time for completion shall be granted on the grounds of normal rainfall conditions, but extension of time in terms of clause 45.(2) of the General Conditions of Contract, on the grounds of abnormal rainfall or wet conditions, shall be calculated separately for each calendar month or part thereof, according to the following formula: When the value of V for any month exceeds the number of days in the particular month, V will be the number of days in the month. When V is negative and its absolute value exceeds Nn , then V shall be taken as equal to the negative of Nn .

The symbols shall have the following meanings:

- V = Extension of time in calendar days for the calendar month under consideration.
- Nw = Actual number of days in the calendar month on which a rainfall of Y mm or more were recorded.
- Nn = Average number of days, derived from existing rainfall records, on which a rainfall of Y mm or more were recorded for the calendar month.
- Rw = Actual rainfall in mm recorded on the Site in an approved rain gauge for the calendar month under consideration.
- Rn = Average rainfall in mm for the calendar month, derived from existing rainfall records.
- Y = Daily rainfall base value in mm. (Refer to PS 12).
- X = Average number of days per year with daily rainfall exceeding Y mm.

(Refer to PS 12).

For the purposes of the contract Nn , Rn , X and Y shall have the values stipulated in the Project Specifications.

The total extension of time is the algebraic sum of the monthly totals for the period concerned. Extension of time for parts of a month shall be calculated by using pro rata values of Nn and Rn . If the algebraic sum of the monthly totals is negative, no reduction of the time for completion as a result of rainfall shall be applicable.

This formula does not take into consideration any delays as a result of flood damage which may cause further or simultaneous delays, and flood damage shall be treated separately for the purposes of extension of time for completion. The factor $(Nw - Nn)$ is considered as a fair allowance for deviations from the normal for the number of days on which the rainfall exceeds Y mm. The factor $(Rw - Rn)/X$ is considered as a fair allowance for deviation from the normal for the number of days on which the rainfall does not exceed Y mm, but on which wet conditions will hamper or disrupt work.

g) Unauthorized persons

The Contractor shall keep NO unauthorized persons from the works at all times, and Under no circumstances may any person except guards be allowed to sleep on the building site. The Contractor to keep a “Site Visitor’s Register” and steps to be taken to ensure that all visitors (all persons who is not Contractor’s regular employee) register before entering the site. Sign to be provided to direct all visitors to Site Office.

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Witness 1

Witness 2

Employer

Witness 1

Witness 2

h) Management meetings

There will be scheduled monthly site progress meetings, which all parties to Contract must attend. The meeting will be conducted by the Engineer. The Contractor will be required to submit his progress and forecast progress for the project during this meeting as well as his achievements of the preferential project goals. The Project Labour, Plant and equipment, all site incidents and events to be reported. The Community to be represented by Project Steering Committee (PSC) and the Community Liaison Office (CLO).

i) Electronic payments

The Contractor to provide all his banking details when requested for the purpose of Electronic payments when as when necessary.

j) Daily records

Daily records of resources (equipment and people employed) must be kept and must be available on site at all times. These records will include i.e. site instruction book, site diary, site visit register, contractual documentation and minutes of all project meetings. Labour information should be kept updated at all times.

k) Payment certificates

Monthly progress payment certificate shall be submitted to the Engineer's Representative on site on the last day of the calendar month in which the work was done to allow for reconciliation of all quantities, rates, extensions and additions in the certificate. Upon approval by the Engineer's Representative, the certificate shall be submitted in typed Form to the Engineer before or on the 20th of each month following the month of measurement, together with the required number of copies, for certification. It will be assumed that the Contractor has made adequate provision in the prices tendered for manufacture/supply, delivery, assembly and commissioning all necessary aids required to execute the contract.

The certificates shall be according to the standard format included in the annexure to these specifications.

Where day works have been instructed by the Engineer, the Contractor shall submit the returns to the Engineer for signature and approval within twenty-four (24) hours of the end of the working day on which the work was executed. Day work returns shall be submitted on forms included in the annexure to the Specifications.

l) Permits – N/A

m) Proof of compliance with the law

The Contractor shall, in performance of the Contract, comply with all applicable laws, regulations and statutory provisions and agreements, and shall in particular, on the request of the Engineer, provide proof that he has complied therewith with regard to amongst others:

- ✓ Wages and conditions of work; and
- ✓ Safety

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C3.9 HEALTH AND SAFETY

▪ Health & Safety Issues

All work is to be carried out in accordance with the Occupational Health and Safety Act and Regulations (Act 85 of 1993) (a copy of which must be kept on site), the Explosive Material Act of (Act 26 of 1956), the Minerals Act of 1991, and the Factories Machinery and Building Work Act (No 22 of 1941).

The Contractor's notice is drawn to the stipulations of the Construction Regulations 2003, a regulation of the Health and Safety Act 1993 (Gov Notice No R1010 of 18 July 2003). The construction regulation will be applied vigorously on the project.

The Contractor to be appointed must have made provision for the cost of health and safety measures during the construction process. The contractor must have the necessary skills, competencies and resources to carry out the work safely. A proper Safety Plan is to be submitted by the Contractor and a copy thereof is to be made available to all applicable appointed labourers and permanent workers on this project.

The Contractor is to ensure that the legal compliance for the Health and Safety issues are in place. Audits will be carried out to ensure that the Contractor is registered and in good standing with the Workmen's Compensation fund and that the Contractor has affected insurance indemnifying the Employer against penalties levied upon the Employer due to the acts of omissions of the Contractor in failing to comply with the provisions of the OHS regulations 2003. A compliance audit will also be carried out to ensure that the Contractor has appointed a full-time competent person in writing to deal with the issues of the OHS and that a risk assessment has been conducted and a copy of the Safety plan is on site before any work commences.

Operational audits will be carried out on the following important issues:

- ✓ That the Safety Plan is on site at all times
- ✓ That the Contractor's Safety file is on site at all times
- ✓ That the Safety Officer is on site at all times
- ✓ That Safety meetings are conducted as per the Safety Plan
- ✓ That employees are working under safe conditions
- ✓ That the public is not placed in danger
- ✓ That there is no harm to the environment

▪ Accommodation of traffic

It is expected of the Contractor to ensure that the free flow of traffic is possible throughout the construction period.

The Contractor is to provide all necessary barricades, signs and lighting in accordance with the stipulations of the South African Road Signs Traffic Manual, and the Protective Services of the Ba-Phalaborwa Local Municipality. All work is to be to the satisfaction of the Engineer.

▪ Reporting of accidents

C3.81

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

In addition to any statutory regulations, the Contractor shall, as soon as practicable, report to the Engineer every occurrence on the Works or the site causing damage to property of injury of death of persons. If required by the Engineer, the Contractor will submit a report in writing to the Engineer within 48 hours of such requirement setting out full details of the occurrence. The Engineer shall have the right to make any enquiries either on the site or elsewhere as to the cause and results any such occurrence and the Contractor shall make available to the Engineer the necessary facilities for carrying out such enquiries.

C3.82

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

ENVIRONMENTAL MANAGEMENT PLAN

ENVIRONMENTAL MANAGEMENT PROGRAMME

**UPGRADE/REFURBISHMENT OF NAMAKGALE STADIUM WITHIN
BA-PHALABORWA LOCAL MUNICIPALITY, MOPANI DISTRICT,
LIMPOPO PROVINCE**

C3.83

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Report Name:	Upgrade/ Refurbishment of Namakgale Stadium within Ba-Phalaborwa Local Municipality, Mopani District, Limpopo Province.
EAP	<p>TS MAK PROJECT MANAGERS</p> <p>P.O. Box 470 Bendor 0713</p> <p>Contact Person Frank Mhandu Tell:071 054 3325 Cell: 071 054 3325 Email: frankmhandu@gmail.com</p>
Applicant:	<p>Ba-Phalaborwa Local Municipality</p> <p>Private Bag X01020 Phalaborwa 1390</p> <p>Project Manager Ms S. Mahumani Tell: 015 780 6308 Cell: 074 662 0327 Email: mahumanis@ba-phalaborwa.gov.za</p>
Report compiled by:	Frank Mhandu
Report Date:	September 2019
Status:	Final Report
<p>This document presents the final Environmental Management Programme for the refurbishment of Namakgale Stadium. The information and recommendations presented is based on the information supplied by the 'developer', Ba-Phalaborwa Local Municipality and observations made during the site visits conducted by the EAP.</p>	

DISCLAIMER

TSMAC Project Managers has prepared this report in fulfillment of Section 24 (5) of NEMA and its associated Regulations, showing reasonable skill and care, for the intended purposes as stated in the agreement under which this work was completed. The report may not be relied upon by any other party without the express agreement of the client, Ba-Phalaborwa Local Municipality. No other warranty, expressed or implied is made as to the professional advice included in this report. Where any data supplied by the client or from other sources have been used it has been assumed that the information is correct. No responsibility can be accepted by TSMAC for inaccuracies in the data supplied by any other party. The conclusions and recommendations in this report are based on the assumption that all relevant information has been supplied by those bodies from whom it was requested. Where field investigations have been carried out these have been restricted to a level of detail required to achieve the stated objectives of the work. This report has been compiled in accordance with Appendix 4 of the EIA Regulations, GNR326 of 7 April 2017 (as amended).

DOCUMENT CONTROL

Report No: 1
Report title: Environmental Management Programme for the Refurbishment of Namakgale Stadium
Prepared by: TSMAC Project Managers
Applicant: Ba-Phalaborwa Local Municipality

	Name	Signature	Date
Prepared By	Frank Mhandu		10/09/2019
Reviewed and Approved By	Benard Madziwa		24/09/2019
Report Status	Final		

EXECUTIVE SUMMARY

One of the strategic objectives of National Sports, Recreation Plan (NSRP) is to ensure that South African sports and recreation is supported by adequate and well maintained facilities. It is acknowledged that the provision and maintenance of facilities forms the foundation for the entire sports and recreation system. If the facilities are neglected, it will have serious consequences for the development of young people. The stadium in Namakgale-A is not in a good condition and therefore there is no value addition to tourism and the development of young people in the area. The Municipality has to increase both the quantity and quality of sports infrastructure in order to attract national and international events to the area and benefit local tourism. As such the Ba-Phalaborwa Local Municipality intends to refurbish Namakgale-A stadium.

The works associated with the refurbishment of the stadium are not listed in Government Notice, R327 of April 2017 as amended. As such an Environmental Authorisation is not required. However a project specific Environmental Management Programme (EMPr) is required to address the anticipated negative and positive impacts anticipated during the development life cycle. This Environmental Management Programme therefore details the principles, practices and procedures to be implemented by the contractor and BPLM to manage, remedy and mitigate potential adverse environmental effects anticipated during the development life cycle. As such, the scope of this document is to give guidelines to the contractor and BPLM regarding the effective management of the environment during the refurbishment of the stadium.

THE MANAGEMENT PROGRAMME HAS LONG-TERM OBJECTIVES TO ENSURE THAT:

- ❑ Environmental Management considerations are implemented from the start of the project and throughout the operational life-time of the sports complex;
- ❑ Precautions against damage and claims arising from damage are taken well in advance;
- ❑ The completion date of the contract is not delayed due to problems with the affected communities arising during the course of construction; and
- ❑ Regulatory requirements are adhered to.

This document (hereafter referred to as the EMPr) sets the institutional framework for responsibilities and reporting of all environmental issues during the refurbishment of the stadium. It is important that the contractors' team and engineers be fully acquainted with the contents of this EMPr, to ensure that the potential negative impacts are avoided or identified in advance during construction and the specified mitigation measures detailed in this report are implemented, therein instilling a more proactive and less reactive work ethic throughout the construction process.

Should these recommended measures and corrective actions be adopted during the construction and operation/ maintenance phases of the proposed activity, TSMAC finds that the predicted impacts of the proposed activities are within acceptable limits. Of note is that environmental management is dynamic and

as such, the EMPr must be flexible in order to accommodate changing circumstances and requirements. On-going environmental monitoring and maintenance of the stadium should be carried out throughout its life cycle, and BPLM and a dedicated Environmental Practitioner should identify and address new issues as they arise, and update or amend the management plan accordingly

REPORT STRUCTURE

Section 1 of this EMPr details the purpose and scope of the EMPr and also identifies the key legislative requirements applicable to the environmental aspects of the Project. It details the EMPr roles and responsibilities and the related training requirements for the construction phase of the Project.

Section 2 presents the project description and the social and environmental management context of the Project.

Section 3 details the anticipated impacts, standard and site specific mitigation measures to be implemented on-site. Environmental management standards and specifications for managing the significant environmental aspects of the construction and operation are discussed.

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Employer

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ACRONYMS AND ABBREVIATIONS

BPLM	Ba-Phalaborwa Local Municipality
CARA	Conservation of Agricultural Resources Act
CEMPr	Construction Environmental Management Programme
CLO	Community Liaison Officer
CMS	Construction Method Statement
DWS	Department of Water and Sanitation
DME	Department of Minerals and Energy
EAP	Environmental Assessment Practitioner
ECA	Environment Conservation Act
ECO	Environmental Compliance Officer
EIA	Environmental Impact Assessment
EO	Environmental Officer
GA	General Authorization
HA	Hectares
HSO	Health and Safety Officer
IEM	Integrated Environmental Management
MSDS	Material Safety Data Sheet
'Municipality'	Ba-Phalaborwa Local Municipality
NEMA	National Environmental Management Act
NHRA	National Heritage Resources Act
SAHRA	South African Heritage and Resources Agency
SANS	South African National Standards
SHEQ	Safety, Health, Environmental and Quality
WI	Work Instruction
WUL	Water Use License

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Witness 2

Employer

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DEFINITIONS

Alien Vegetation	Alien vegetation is defined as undesirable plant growth, which shall include, but not be limited to; all declared category 1, 2 and 3 listed invader species as set out in the Conservation of Agricultural Resources Act (CARA) regulations. Other vegetation deemed alien shall be those plant species that show the potential to occupy in number, any area within the defined construction area and which are declared undesirable.
Berm	A barrier designed to divert surface water flow. Berms will primarily be used along roads/tracks to prevent concentrated flow of water over particular areas, thereby reducing erosion of roads.
Bund	An impervious material, which forms the perimeter and floor of a compound and provides a barrier to retain liquid. Bunds are designed to contain spillages and leaks of liquids used, stored or processed above ground and to facilitate clean-up operations.
Batch Plant	Site for the mixing and production of concrete or plaster, and associated equipment and materials.
Construction Camp	is the area designated for key construction infrastructure and services, including but not limited to offices, overnight vehicle parking areas, stores, the workshop, stockpile and lay down areas, hazardous storage areas (including fuels), ablution facilities, waste and wastewater management.
Contractor	Construction companies as well as their sub-consultants and suppliers appointed to undertake the construction activities on behalf of Ba-Phalaborwa Local Municipality.
Corrective action	Action to eliminate the cause of a detected nonconformity.
Developer	Developer of the project, Ba-Phalaborwa Local Municipality.
Endemic	the natural distribution of an organism (plant or animal) restricted to the local environmental conditions within an area.
Environment	The aggregate of surrounding objects, conditions and influences that influence the life and habits of man or any other organism or collection of organisms.
Environmental Control Officer	An external environmental consultant appointed by BPLM to periodically monitor the level of implementation of the EMPr and suitable environmental management practices on site during the construction phase of the project.
Environmental Impact	A positive or negative change to the environment that results from the construction and operation of the activity. The impact can be direct or indirect result of the activities.
Environmental Management Programme (EMPr)	A programme that seeks to achieve a required environmental end state and describes how activities, that could have a negative impact on the environment, will be managed and monitored and impacted areas rehabilitated.

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Environmental Management System (EMS)	Part of an organisation's management system used to develop and implement its environmental policy and manage its environmental aspects.
Environmental Policy	Overall intentions and directions of an organisation related to its environmental performance as formally expressed by top management.
Erosion	The process by which material, such as rock or soil, is worn away or removed by wind or water.
General Waste	Domestic, commercial, non-hazardous waste and builders' rubble.
Hazardous Substance	Any substance that is of risk to health and safety, property or the environment. Hazardous substances have been classified under the SANS 10228-B 'The identification and Classification of Dangerous Goods and Substances'.
Heritage Site	A site that contains either archaeological artefacts, graves, buildings older than 60 years, meteorological or geological fossils, etc.
Method Statement	They indicate how compliance with the Environmental Specification will be achieved. The Contractor shall submit a written Method Statement to the ECO for approval, covering those activities which are identified in this document and/ or by the ECO as being potentially harmful to the environment.
"No-go" Areas	Areas identified as being environmentally sensitive, delineated on plan, demarcated on the site with pegs or fencing and which are out of bounds to unauthorised persons. Authorisation must be obtained prior to entry.
Non-conformity	Non-fulfilment of a requirement. A "non-conformance" is interpreted to include legal non-compliance, deviations from policy, objectives and targets not met, accidents, ineffective procedures, and deviations from specified conditions and from other requirements of the environmental management system.
Preventive action	Action to eliminate the cause of a potential non-conformity
Pollution	The direct and indirect alteration of the physical, chemical or biological properties of a resource which results in it being less fit for any beneficial purpose for which it may reasonably be expected to be used.
Project Manager	Person representing Ba-Phalaborwa Local Municipality who is responsible for technical and contractual implementation of the works to be undertaken.
Risk	The probability of an event occurring multiplied by the consequences of that event.
SAHRA	South African Heritage Resource Agency - the statutory body responsible for heritage resource management.
Site	Areas that will be utilised by the contractor for the duration of the duration of the contract. This shall include the sports fields, access

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Witness 2

Employer

Witness 1

Witness 2

	roads to be used, construction lay-down areas, materials storage and delivery requirements, contractors' offices, operational demarcation.
Slope	Means the inclination of a surface expressed as one unit of rise or fall for so many horizontal units.
Storm-water	Water resulting from natural precipitation and/or accumulation and includes rainwater.
Topsoil	The upper outermost layer of soil (300mm) which has the highest concentration of organic matter.
Water body	Means a body containing water and includes dams and wetlands, whether ephemeral or permanent.
Watercourse	Means any river, stream and natural drainage channel whether carrying water or not.
Works	The construction operations and all related and incidental works, such as site works, earthworks, installation of services, rehabilitation etc, carrying to completion of the development.
Working area	Means the land and any other place on, under, over, in or through which the Works are to be executed or carried out, and any other land or place made available by the Employer in connection with the Works. The Working Area shall include the site office, construction camp, stockpile and laydown areas, assembly areas, batching areas, the construction corridor, all access routes and any additional areas to which the Project Manager permits access.

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

SECTION 1: INTRODUCTION

The condition of existing sports facilities within the Ba-Phalaborwa Local Municipality jurisdiction is not satisfactory and therefore there is no value addition to tourism in the area. The Municipality has to increase both the quantity and quality of sports infrastructure in order to attract national and international events to the area and benefit local tourism. As such the municipality intends to refurbish Namakgale-A stadium and the works associated with the refurbishment of the stadium are not listed in Government Notice, R327 of April 2017 as amended. As such an Environmental Authorisation is not required. However, to ensure that detrimental impacts are avoided/minimised and positive impacts are enhanced, an EMPr is required to be implemented during the development life cycle. Ba-Phalaborwa Local Municipality through Infra Projects Africa, has therefore appointed TSMAC Project Managers (herein after referred to as TSMAC) to compile an EMPr for the proposed refurbishment as per Appendix 4 of the EIA regulations as amended.

The EMPr sets out the intended methods of effectively managing potential environmental impacts arising from the construction and operation of the stadium. The responsibility for implementation of this document lies with the Contractor and shall be controlled by municipality's Project Manager who shall work in conjunction with the Environmental Control Officer (ECO) to ensure it is implemented.

1.1 EAP's Experience

As per the requirements of the National Environmental Management Act: NEMA, 1998 (Act No. 107 of 1998), as amended and Government Notice R326, Environmental Impact Assessment Regulations of 2017 as amended, the details of the person(s) who prepared the Environmental Management Programme and the expertise of that person(s) to prepare an environmental management programme are provided below:

Table 1-1: EAP Experience

Company	TSMAC Project Managers
EAP	Frank Mhandu
Postal Address	P.O. Box 7068, Midrand 1685
Telephone No.	084 492 1665
E-mail	
Expertise	<u>Qualification(s)</u> BSc (Hons) Environmental Science, Professional Diploma GIS. <u>Professional Registration</u> SACNASP: Professional Natural Scientist

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Experience

A dedicated and passionate Environmentalist with valuable theoretical and experiential acumen in the areas of environmental conservation and administration. I have 12 years' experience gained through direct involvement in a number of conservation initiatives. Currently a Principal Environmental Consultant of TSMAC responsible for leading, administrating and completing assessments on Environmental Impact Assessments, as well as overseeing studies, interpreting technical reports and appendices regarding the same.

I leverage academic skills gained through an honours level degree in Environmental Science & Health and Post Graduate Certificates in Integral Water Management and Geo-informatics; alongside the proficient ability to actively and valuably participate in the development, design and implementation of environmental / conservation management policies and consultation initiatives; thereby supporting the highest standards of Environmental Management and Sustainable Development, in all undertakings.

In terms of the National Environmental Management Act (Act 107 of 1998, NEMA) as amended and its EIA Regulation, it is necessary to undertake environmental investigations as an integral part of project planning. This EMPr identifies the project management structure, roles and responsibilities concerning managing and reporting on the environmental impacts of the construction and operation phase.

1.2 The Purpose of the EMPr

The purpose of this EMPr is therefore to describe the environmental management and monitoring procedures to be implemented during the Project's life span. The EMPr will enable the project team to refurbish the stadium with the least adverse environmental effects. Overall implementation of this EMPr will ensure:

- ❑ Compliance with the conditions of resource consents and designations;
- ❑ Compliance with environmental legislation;
- ❑ Adherence to BPLM's environmental objectives; and
- ❑ Ensuring Environmental risks associated with the Project are properly managed.

This document will therefore define details of who, what, where and when environmental management and mitigation measures are to be implemented. It will also cover all anticipated construction and operation elements and present a framework of principles, environmental policy, objectives and performance standards as well as processes for implementing good environmental management.

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Witness 2

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Employer

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Witness 1

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Witness 2

1.3 Assumptions

The EMPr is based on the assumptions described below.

- The main works to be carried out will be limited to activities typically defined as refurbishment and maintenance of the stadium;
- The works will be carried out within the existing stadium footprint and will not involve relocation outside the project area;
- It is assumed that the Applicant has provided adequate details with regards to the activities to be carried out and the processes to be followed during the construction and operation phase; and
- Information used to inform the assessment was limited to data and GIS coverage which is available at a local, regional and national level. It is assumed that this data encompasses the site conditions.

1.4 EMPR Layout and Structure

Figure 2 in Section 2 indicates the location of the stadium and the relevant environmental management strategies to minimise negative impacts in these areas are dealt with in Section 3.

1.4.1 Method of Compiling EMPr

To identify specific areas within the project area, the team reviewed literature, topographical maps and aerial photographs.

1.5 Legislation and Other Requirements

This document has been compiled in accordance with the Integrated Environmental Management (IEM) philosophy (DEAT, 2004a) and Appendix 4 of the EIA Regulations R326 of 2017 as amended. This philosophy aims to achieve a desirable balance between conservation and development (DEAT, 1992). NEMA promotes the integrated environmental management of activities that may have a significant effect on the environment, while IEM prescribes a code of practice for ensuring that environmental management principles are fully integrated into all stages of the development process. It advocates the use of several environmental and management tools that are appropriate for the various levels of decision-making. One such tool is an Environmental Management Programme.

1.5.1 National and Provincial Legislation, Regulations and Strategies

Construction and operation of the project must comply with a range of international, national, provincial and local legislation, regulations, strategies and policies in order to provide for the management of environmental effects. Key documents, national environmental legislation and regulations relevant to the Project are outlined in the table below:

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Witness 1



Witness 2



Employer



Witness 1



Witness 2

Table 1-3: Relevant Legislation, Regulations and Standards

TITLE OF LEGISLATION, POLICY OR GUIDELINE	APPLICABILITY TO THE PROJECT
The South African Constitution Act (Act 108 of 1996)	<i>Human rights on the environment.</i>
National Environmental Management Act (Act 107 of 1998)	<i>Environmental Policy, in terms of environmental management.</i>
Environment Conservation Act of 1989 (Act No. 73 of 1989)	<i>Provides for effective protection, control and utilization of the environment.</i>
National Water Act 1998 (Act 36 of 1998)	<i>Ensure that water resources are protected, used, developed, conserved, managed and controlled.</i>
The National Heritage Resources Act (Act No. 25 of 1999)	<i>Protection of historical structures, graves and archaeological objects</i>
National Environmental Management: Air Quality Act (Act No. 39 of 2004)	<i>Controls and manages air pollution (replaced the Atmospheric pollution prevention act)</i>
Conservation of Agricultural Resources Act (Act No. 43 of 1983)	<i>Control of weeds and invader plants as well as the control of the utilization and protection of wetlands and soil conservation.</i>
National Road Traffic Act (Act No. 83 of 1996)	<i>Movement of dangerous goods.</i>
National Environmental Management: Waste Act (Act No. 59 of 2008)	<i>Control of storage, transfer, treatment and disposal of waste on land.</i>
National Sport and Recreation Act (Act No. 110 of 1998)	<i>Promotion and development of sport and recreation.</i>
Occupational Health and Safety Act (Act No. 85 of 1993)	<i>Exposure of workers and waste products.</i>
National Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002)	<i>Controls land use and infrastructure on mining and prospecting areas.</i>
SANS 10103	<i>The measurement and rating of environmental noise with respect to annoyance and to speech communication.</i>

1.6 Administration Management

This EMPr should be used as a working document and it should be available on the construction site. The stipulations and provisions of this report should be conveyed to and familiarized by the contractor’s senior personnel and workers responsible for construction. The mitigation section should be issued as a stand-alone document to all parties involved with the planning, implementation and operation of the proposed project. The contractor and all sub-contractors working on the project shall be required to sign acknowledgement and acceptance to the terms and conditions of this EMPr and any revised versions.

1.7 Training and Awareness

The Environmental Control Officer (ECO) in conjunction with the contractor shall be responsible for

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Contractor

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Employer

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Witness 2

compiling and conducting the Environmental Awareness Training Programme. This programme will aim at explaining the impacts anticipated during the project cycle and mitigation measures described in this report. The Programme will also be used to improve awareness of all employees on a continuous basis. General environmental awareness will be fostered among the project's workforce to encourage the implementation of environmentally sound practices throughout the project's duration. This will ensure that environmental accidents are minimized and environmental compliance maximized. Based on this:

- The contractor shall arrange for the site induction on the Environmental Awareness issues before commencement of the project;
- The contractor shall ensure that adequate environmental awareness training of all the personnel working on the site familiarise with the contents of the environmental site control measures, which are outlined in this document.
- The contractor shall also make this training and awareness programme be conveyed to the personnel on site to the satisfaction of the Environmental Control Officer (ECO), either in written format or verbal, in the employees' language of choice.
- The contractor should keep environmental training sessions, including names, dates and the information presented records of all.

The environmental training should as a minimum, include the following:

- The importance of conformance with all environmental policies;
- The environmental impacts, actual or potential, of their work activities;
- The environmental benefits of improved personal performance;
- The potential consequences of departure from specified operating procedures; and
- The mitigation measures required to be implemented when carrying out their work activities.

1.8 Responsibilities

The proposed activities require the commitment of the people assigned responsibilities to undertake their duties to avoid negative impacts on the environment.

1.8.1 Ba-Phalaborwa Local Municipality

BPLM is ultimately responsible for compliance with all conditions of approval of the development or any aspect thereof by any authority. BPLM is to:

- Ensure that all relevant approvals and permits have been obtained prior to the start of construction activities on site. Permits that may be needed include the following:
 - i. General Authorization/ Registration of utilizing a water resource (anticipated groundwater use).

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Contractor

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Witness 2

Employer

Witness 1

Witness 2

- ❑ Ensure that the requirements as set out in this EMPr and any other conditions of approvals by the relevant Authorities are adhered to and implemented by all involved in the project;
- ❑ Appoint a suitably qualified or experienced independent Environmental Control Officer to undertake environmental compliance audits per the requirements of this EMPr;
- ❑ Provide all principal contractors working on the project with a copy of this EMPr as part of tender contract documentation to allow the contractors to cost for its requirements within their respective construction contracts.

1.8.2 *Ba-Phalaborwa Local Municipality: Project Manager*

This designation refers to the representative of BPLM who is responsible for the technical and contractual implementation of the works/part of the works to be undertaken.

1.8.3 *The Contractor*

“The Contractor” refers to any directly/indirectly appointed company or individual undertaking the implementation of the works.

The Contractor is to:

- ❑ Ensure implementation of all applicable Environmental Management Specifications in this EMPr as well as all additional requirements related to approve method statements, during all works on site, failing which penalties the Project Manager may impose. The contractor should submit the following method statements:
 - I. *Site camp establishment*
 - II. *Vegetation clearing (if any)*
 - III. *Erosion and Storm-water control*
 - IV. *Fuel storage and use*
 - V. *Traffic accommodation*
 - VI. *Waste management*
 - VII. *Hazardous substances*
 - VIII. *Cement and concrete batching*
 - IX. *Emergency procedures*
 - X. *Dust Control*
 - XI. *Site Disestablishment and Rehabilitation.*

1.8.4 *Environmental Control Officer*

The Environmental Control Officer (ECO) will be appointed by BPLM to ensure the day-to-day implementation of the EMPr and suitable environmental management practices on site for the duration of the construction phase of the project. The ECO’s duties, inter alia, must be to facilitate compliance with the

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EMPr on an on-going basis during the construction phase through monitoring, proactive, and open communication channels with the project/site management.

The ECO's responsibilities include the following:

- ❑ Monitoring and verifying that the EMPr is adhered to by inspecting the site and surrounding areas regularly during the construction start-up period and periods of active construction with regard to compliance with the EMPr and notifying the Project Manager if the specifications are not followed;
- ❑ Assist the contractor with the Environmental Awareness Training;
- ❑ Manage and implement Non-conformance procedures (NCR's, Defect notifications, punch lists) and site instructions;
- ❑ Give site instruction as to environmental issues;
- ❑ Monitor the contractor's implementation of project specific environmental requirements;
- ❑ Conduct Environmental surveillance inspections and internal audits. Conducting a site inspection and auditing compliance of the EMPr;
- ❑ Reviewing and approving construction method statements together with the Project Manager;
- ❑ Assisting the Project Manager in finding environmentally responsible solutions to problems; and
- ❑ Give final release form to affected landowners to be managed.

1.9 Implementation

During construction, the ECO will undertake ongoing inspections of the works to identify non-compliance with the provisions of the EMPr. The following parameters shall be utilised:

1.9.1 Construction Method Statements (CMS)

The EMPr provides the overall project strategy for management of environmental issues; however, a Construction Method Statement (CMS) will address environmental management issues at a site level. The contractor will be required to provide Method Statements prior to work commencing on aspects of the project deemed or identified to be of greater risk to the environment and/or which may not be covered in sufficient detail in the EMPr, when called upon to do so by the Project Manager and or ECO. Changes in the way the works are to be carried out must be reflected by amendments to the original approved Method Statement.

1.9.2 Work Instructions (WIs)

The Environmental Control Officer shall advise the site/project manager on issuing of detailed Environmental Work Instructions (WIs) in the form of environmental controls that provide "hands on" directions for on-site staff. These WIs should provide clear and concise instruction to site personnel in dealing with situations such as:

- environmental incidents;

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- adverse weather conditions;
- complaints;
- controls and commitments detailed in the EMPr and CMS's;
- a trigger point contained in the environmental inspection checklist or log; and
- General good site practice.

1.9.3 *Checking and corrective action*

1.9.3.1 Monitoring and reporting

The ECO & BPLM should develop monitoring and reporting procedures at the outset in order to:

- identify any negative impacts from construction activities;
- assess the effectiveness of control measures;
- demonstrate compliance with regulatory conditions and objectives and targets set in the EMPr; and
- Identify if further controls/corrective action is required.

1.9.4 *Environmental inspections, audits and registers*

In addition to the routine monitoring conducted by the ECO, a schedule of regular inspections, audits and reporting will be required by the contractor. These inspections should provide a record of site conditions and activities and provide a mechanism by which the contractor, ECO and BPLM can establish the effectiveness of this EMPr.

1.9.5 *Compliance and non-conformance*

If criteria within this EMPr are not fulfilled and the contractor does not take, appropriate and corrective action a non-conformance may be raised by the ECO. It is the responsibility of the contractor to immediately initiate corrective actions and, once completed, provide details of the actions undertaken on the non-conformance/corrective action report and return it signed to the municipality's project manager within 30 days.

1.10 *Documentation*

The Contractor for the development will establish a dedicated file to contain all documentation pertaining to environmental management of the works. The records below will form an integral part of the contractor's records:

- ✓ Environmental incidents involving Contractor employees and/or the public;
- ✓ Environmental complaints and correspondence received from the public to the Project Manager or the Environmental Control Officer;

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- ✓ Record and report incidents that cause harm or may cause harm to the environment to the Environmental Control Officer;
- ✓ Record of all hazardous materials used on site;
- ✓ A record of all Hazardous Waste Disposal Manifests detailing the nature of the hazardous waste disposed of, the hazardous waste classification and the location of the site to which such waste was disposed.

1.10.1 Environmental Incidents Register

The ECO should put in place an Environmental Register and must ensure that the following information is recorded for all environmental incidents:

- Nature of incident;
- Causes of incident;
- Party/parties responsible for causing incident;
- Immediate actions undertaken to stop/reduce/contain the causes of the incident;
- Additional corrective or remedial action taken and/or to be taken to address and to prevent reoccurrence of the incident; and
- Timeframes and the parties responsible for the implementation of the corrective or remedial actions; and Copies of all correspondence received regarding incidents.

1.10.2 Public Complaints Register

The ECO shall further maintain the Public complaints register that will:

- Contain environmental complaints and correspondence received from the public to the Contractor or the ECO.
- Nature of complaint and where possible an image of the issue;
- Cause of complaint;
- Party/parties in responsible for complaint;
- Immediate actions undertaken to stop/reduce/contain the causes of the complaint including an image of the resolved action; and

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- Additional corrective or remedial action taken and/or to be taken to address and to prevent reoccurrence of the complaint.

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SECTION 2: PROPOSED PROJECT DESCRIPTION

2.1 *Need and Desirability*

Sport and recreation infrastructure contributes to:

- Local economic development
- Career and human resource capacity development;
- Enhancement of social fiber and eradication of social ills;
- Prevention of undesirable sexual behavior; and
- Sport and Recreation contributes towards Total Well-being, Quality of Life and Good Health.

To ensure that the above is achieved there is need to refurbish/upgrade the existing stadiums that are in a state of disrepair. Ba-Phalaborwa Local Municipality therefore intends to refurbish Namakgale-A stadium.

2.2 *Project Location and Receiving Environment*

2.2.1 *Location*

The proposed project is within Mopani District Municipality located in the north-eastern part of the Limpopo Province and bordered by Ehlanzeni District Municipality in the south, Greater Sekhukhune District Municipality in the south west, and Capricon District in the west and Vhembe District in the north-west. The existing Namakgale Stadium is located on Erf 1815 in Namakgale-A village. It is approximately 10km west of Phalaborwa and can be accessed via Calvin Ngobeni road which branches off from R71. The footprint is approximately 12.4ha and is characterized of existing buildings, soccer field, swimming pool, multi-purpose courts and ablution facilities. Geographic centre co-ordinates of the site are **23°56'13.74"S, 31°01'59.05"E**. Reference is made to the Locality Map overleaf and Appendix A:

2.2.2 *The Receiving Environment*

The proposed works will be undertaken in an area that is already degraded and is categorized as 'No natural area remaining' in the Limpopo Conservation Plan. The area is generally void of vegetation with the exception of trees surrounding the soccer field which act as a visual buffer. The surrounding land-use is residential.

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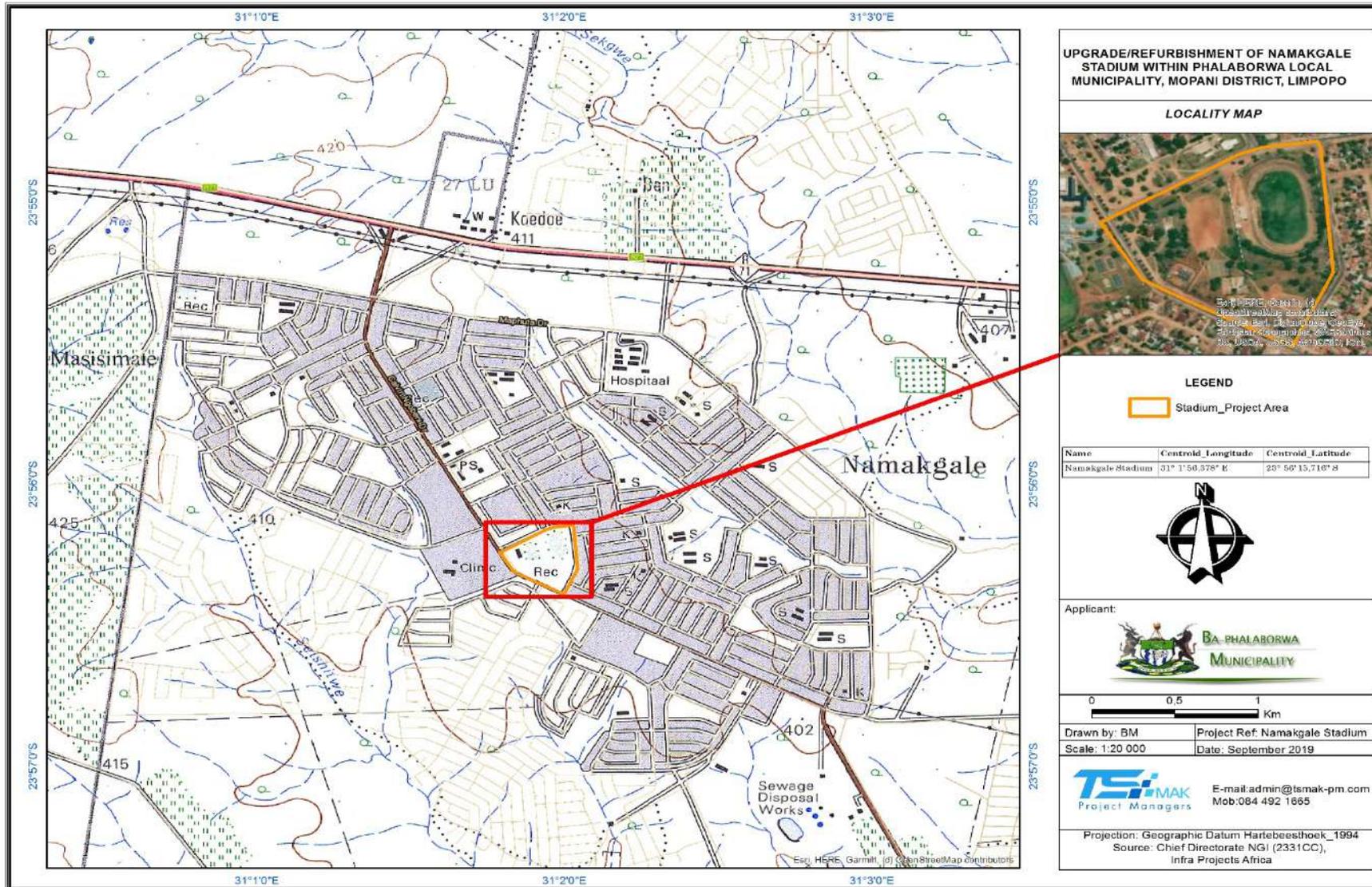


Figure 1: Locality Map

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2.3 Project Description

2.3.1 Construction Phase

The proposed works will entail the following:

- i. The demolition and reconstruction of a structurally sound spectator grandstand next to the sports field;
- ii. Upgrading of the change rooms and ablution facilities;
- iii. Upgrading of the soccer field by planting turf and installing an irrigation system. The field will also be fitted to operate as a rugby field;
- iv. Construction of a surfaced athletics track around the main soccer field;
- v. Construction of multipurpose courts for volleyball and basketball as well as tennis and netball;
- vi. Construction of a parking lot including access to the parking as well as related controls and storm-water management infrastructure;
- vii. Fencing around the sports complex and the refurbishment of fencing enclosing the soccer field;
- viii. Construction of vending stalls;
- ix. Upgrade of electrical works and mechanical Installations that include area lighting; and
- x. Upgrading of the swimming pool

2.3.2 Operation Phase

The operational phase described for the purposes of this EMPr consist of the following activities:

- Recreational and social related activities (facilitated usage of the community hall and sports field); and
- Irrigation and maintenance of sports field.

2.3.3 Decommissioning

The proposed project will be a permanent development and it is highly unlikely that a decommissioning phase will occur. Should the development, however, be demolished, associated activities will include the decommissioning of buildings and removal of grass layer on the sports field.

2.4 Basic Services and Infrastructure

For the refurbishment to be successful, there is need for the municipality to ensure that there is adequate provision of the basic services such as water, sanitation, electricity, refuse collection and access roads. The Municipality must ensure that they provide the adequate capacity of required services to ensure that this amenity does not pose any harm to the environment and its inhabitants.

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- **Water**

This report has not quantified an expected volume of water required for the construction and operation phase of this project. It is anticipated that a borehole will be constructed to cater for the water supply during the operation phase. Consideration should also be given for fire water supply. Hydrants should be provided for fire water supply. The number and positioning of hydrants should be as given in the *Guidelines for Human Settlement Planning and Design, Volume 2* provision of water for fire-fighting. For design purposes, a maximum of 1600litres is assumed for each hydrant. Confirmation that the existing municipal supply will be able to supply this additional demand is required from the responsible water supply authority during the detailed design stage.

Should this be undertaken, then a formal application for a water use license/ registration is required in terms of Section 21a of NWA (Act no. 36 of 1998).

- **Sewerage**

Sewerage generation is anticipated during the construction and operation phase due to the presence of the workforce contracted for the project and utilisation of the stadium. Consequently, the use of portable chemical toilets is suggested during the construction phase. However during the operation phase, a septic tank will be provided. However, such a mechanism requires adequate maintenance to prevent leakages.

- **Storm water**

Due to the sloped terrain of the area erosion could be a major impact especially during the construction phase. Erosion can be controlled through implementation of adequate storm-water management measures.

- **Solid waste**

It is anticipated that some quantity of solid waste will be produced during the construction and operational phase such as litter, packaging materials such as plastics, carton boxes, paper, beverages and stockpiles. This type of waste will not pose a significant threat to the proposed project and will not require a Waste Management License.

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SECTION 3: IMPACTS AND MITIGATION MEASURES

3.1 Anticipated Impacts

This section of the report evaluates the possible negative and positive impacts, which may occur as a result of going ahead with the proposed project. Potential environmental impacts have been identified based on the following:

- A review of the proposed activity;
- The nature of the receiving environment; and
- Risks and key issues were identified through an internal process based on similar developments and site assessment.

The table below briefly describes the impacts that are anticipated during the refurbishment works. It should be noted that the significance of these impacts is generally low as the land-use is recreational and the stadium is already existing. In addition, the impacts for biodiversity have not been included since their significance is very low.

IMPACTS	STATUS	DESCRIPTION	SIGNIFICANCE
Soil/Land Impacts	Negative	During construction of roads and structures, unstable soils, any form of vegetation clearing and excavations presents a risk of a negative impact.	Low
Waste	Negative	Any construction work generates solid waste, which can spread through the environment. Solid waste generation at the site will include metal scraps and wooden packing material. Hazardous waste is the oil waste, transformer oil and sewerage.	Low
Air quality	Negative	Air pollution resulting from: Combustion emissions from the construction equipment ; and Fugitive dust emissions from the site grading or excavation activities, construction of plant, roads and vehicles using gravel/unpaved roads.	Low
Archaeological Impacts	Negative	Construction activities could directly impact cultural resources by damaging and displacing artefacts, diminishing site integrity and altering the characteristics that	Low

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		make the resources significant.	
Visual	Negative	Visual intrusion is highly dependent on the type of infrastructure planned and the surroundings of the development. The construction site camp can result in a negative aesthetic impact.	Low
Noise	Negative	Heavy machinery is often required for construction works. This machinery contributes to tremendous amount of sustained noise. Such noise elevations affect the environment by: <ul style="list-style-type: none"> ▪ Sonically vibrating structures; and ▪ Presenting a danger to human welfare. 	Low
Infrastructure Framework: Transportation	Negative	The use of the road network will play a large role in delivering materials and resources to the construction camp during construction. An increase in traffic volumes is expected to be minimal and short term, during the construction period. The roads that will be used for access include the R71	Low
Socio-cultural processes	Negative	Unacceptable social behaviour- the presence of incoming workers and or the influx of jobseekers can lead to deviant social behaviour in the communities they are based.	Low
	Negative	Physical quality of the living environment relate to the exposure to dust, noise, risk, odour, vibration and artificial light. During the construction and operation phase the activities carried out on site have a potential to create pollution	Low
	Negative	Personal safety and hazard exposure/crime and violence- personal safety and risk exposure due to the construction site and related infrastructure and due to the influx of strangers entering the local communities	Medium
Institutional and legal processes	Positive	Capacity building and skills transfer- the project is expected to have a positive impact in capacity building in the communities as opportunities exist to develop the skills of the local residents.	Medium

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Economic Processes	Positive	Waged labour/ employment creation and decrease in unemployment- development directly influences changes in employment and income opportunities in communities.	Medium
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3.2 Mitigations

The standard mitigations contained in the table overleaf are for the core standard mitigation measures/statements for the pre-construction, construction and operation phase of this project. Following extensive environmental assessment of the study area. BPLM and the contractors are required to ensure that all the mitigation methods contained in the statements listed below are implemented at all times.

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3.2.1 Pre-Construction and Construction Phase

3.2.1.1 Tendering

Management Objectives

- To improve the socio-economic status of the surrounding communities;
- To create employment for the local community;
- To train and capacitate the local communities.

Targets

- No complaints from the community;
- Equal opportunities for men and women;
- Training certificates;
- Gender equality strategy.

Monitoring Responsibility and Frequency

- Tender committee to monitor the tender adjudication;
- BPLM to continuously monitor the appointment of sub-contractors and the training programmes throughout the project duration.

Activity	Impacts	Mitigation Measures	Responsible Person
Awarding of contract	Job Creation	<ul style="list-style-type: none"> • Representatives from the local municipality can assist in determining local sub-contractors and labourers that should be considered for possible employment. • The tender document should specify the use of local labourers or enterprises (where possible). It should be stipulated in the tender documentation that contractors use local labourers for manual and low skilled activities such as fencing. Where possible, on-site training should be undertaken to ensure long term benefits to the members of the community. • BPLM's own internal policies and procedures should be used to ensure a fair and transparent recruitment process. • Stakeholders should be mutually accountable for 	BPLM

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		increased opportunities regarding skills and competency development (general education and technical training). This training should be concentrated on skills that can be readily transferred to other employment opportunities in the local area, and only suitable qualified candidates in project management activities should be used.	
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3.2.1.2 Site Establishment

Management Objectives

- To plan construction methods that result in the least possible negative environmental impact and document these as Environmental Method Statements.
- To minimize unnecessary damage to vegetation by determining the degree of clearing required and demarcate 'No-Go areas' before clearing begins;
- To minimize damage to natural features;
- To protect the public and ensure their safety from the works;
- To prevent pollution of the environment;
- To increase the level of compliance with the environmental specifications contained in the EMPr by raising awareness of the requirements in environmental awareness training courses at all staff levels;
- To minimize environmental impact by siting the site camp/lay down area elements in areas where they have the least possible negative environmental impact whilst still being practical to the works.

Target

- No visible erosion scars once construction in an area is complete;
- All damaged areas are successfully rehabilitated one year after rehabilitation;
- All environmental method statements are provided by the Contractor prior to commencing with the activities governed by such method statements and are kept on file on site.
- Environmental awareness training registers are on file on site;
- The site camp and lay-down area is located in the approved position and its footprint minimized and demarcated, with no undue avoidable environmental impact e.g. storm water drainage, visual impact etc;
- Site is secure and there is no unauthorized entry;
- Adequate numbers of conveniently located site toilets are available on all work sites at all times in quantities related to the number of users; 1 toilet per 15 users.

Monitoring Responsibility and Frequency

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- The Contractor shall monitor the site daily with respect to compliance with the specifications.
- The Environmental Control Officer shall monitor minimum monthly that the specifications are complied with and provide the Contractor and Project Manager with an inspection report of any specifications not adequately complied with and how to rectify this.
- The Environmental Control Officer shall provide summary reports of compliance to the project team.

Activity That Causes Environment Impact	Environmental Impacts	Mitigation Measures	Responsible Person
Establishment of construction camp	Removal of indigenous tree species	<ul style="list-style-type: none"> • The construction camp, office and storage areas for material and equipment must be fenced in to prevent impacts and human interference to spread further than the site. • During the construction phase, workers must be limited to areas under construction. 	Contractor and Construction workers, ECO, BPLM.
	Impact on the visual environment	<ul style="list-style-type: none"> • All temporary stockpile areas, litter and rubble must be removed on completion of construction. All dumped material must be taken to an approved landfill in the area. • The careful position of soil piles and runoff control during all phases of development will limit the extent of erosion occurring on the site. 	

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3.2.1.3 Material Handling and Storage

Management Objectives

- To ensure environmental best practice in terms of the storage and handling construction materials and equipment; and
- To ensure that storage and handling of chemicals and hydrocarbons on-site do not cause pollution to the environment or harm to people.

Target

- Storage facilities including approved location, ventilation, bunding and signage.
- All spillages are adequately treated.
- Required drip trays in place.

Monitoring Responsibility and Frequency

- The ECO to undertake monthly inspection of hazardous material storage areas to check for leakage;
- The contractor to undertake daily on-site vehicle checks for fluid leaks;
- Regular inspection of the oil catchment area around the transformers by the contractor and ECO; and
- The ECO to compile monthly audit reports on incident reports.

Activity That Causes Environment Impact	Environmental Impacts	Mitigation Measures	Responsible Person
Storage and Handling of hazardous substances including fuel and gas	Potential fuel/hazardous substance spillage	<ul style="list-style-type: none"> • All the necessary handling and safety equipment required for the safe use of petrochemicals and oils shall be provided by the contractor to, and used or worn by the staff whose duty it is to manage and maintain the supplier's plant, machinery and equipment. • Petrochemicals, oils, asphalt and identified hazardous substances shall only be stored under controlled conditions. • All hazardous materials will be stored in a secured, appointed area that is fenced and has restricted entry. • The contractor shall provide proof that relevant 	Contractor, ECO

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authorisation to store such substances has been obtained from the relevant authority.

- In addition, hazard signs indicating the nature of the stored materials shall be clearly displayed on the storage facility or containment structure.
- Before containment or storage facilities can be erected, the contractor shall furnish the Engineer/ Project Manager with details of the preventative measures which are proposed to be installed in order to mitigate against pollution of the surrounding environment from leaks or spillage.
- The preferred method shall be a concrete floor that is bunded.
- The proposals shall also indicate the emergency procedures to be implemented in the event of misuse or spillage of substances that will negatively impact on an individual or the environment.
- In the event of a spillage, the contractor is to appoint someone to clean up immediately.

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3.2.1.4 Vegetation Clearance

Management Objectives

- To minimize damage to existing trees;
- To minimize possibility of erosion due to removal of trees/grass;
- To ensure alien plants do not become dominant in the project area and surrounding areas;
- To control alien and invasive species dispersal and encroachment.

Targets

- Record of clearing activities.

Monitoring Responsibility and Frequency:

- Control of alien vegetation must be done monthly by the ECO; and
- Alien plant distribution and clearing measure should be recorded after every three months by the ECO.

Activity That Causes Environment Impact	Environmental Impacts	Mitigation Measures	Responsible Person
Clearing of site for construction.	Removal of indigenous trees	<ul style="list-style-type: none"> • The municipality and ECO must identify and demarcate the exact clearing for the contractor to ensure that minimum de-bushing takes place. • All landscaping in common areas and road scaping should use indigenous plants only, with preference given to local indigenous species where possible. 	Contractor, ECO, BPLM
	Introduction of alien species	<ul style="list-style-type: none"> • Must clear alien vegetation on a regular basis. 	Contractor, ECO

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3.2.1.5 Soil

Management Objectives

- To minimise erosion on site and along gravel access roads during construction; and
- To provide permanent erosion and sediment control measures, where required.

Targets

- No erosion scars.

Monitoring Responsibility and Frequency:

- The ECO and contractor should undertake on-going monitoring of areas with soil susceptible to erosion to ensure that formation of gullies is avoided;
- The ECO and contractor should undertake on-going monitoring of erosion and sediment control measures to determine their effectiveness;
- Daily visual inspection of sediment control devices should be done by the contractor; and
- Sediment controls will be reviewed during site inspections and/or after significant rainfall (more than 10mm in 24hrs resulting in site runoff) by the ECO.

Activity That Causes Environment Impact	Environmental Impacts	Mitigation Measures	Responsible Person
Vegetation clearance (if any)	Erosion of topsoil by runoff waters and winds	<ul style="list-style-type: none"> • Topsoil must be stockpiled separately during trenching and refilled immediately after. • As much vegetation growth should be encouraged to protect soils. 	Contractor, ECO
Removal of topsoil.	Soil erosion	<ul style="list-style-type: none"> • Topsoil must be stripped aside and be used for rehabilitation of trenches. • Monitor all areas traversed by the development for erosion and incision, during site clearing in the preconstruction phase and throughout the construction phase. • All areas susceptible to erosion must be installed with temporary and permanent diversion channels and berms to prevent concentration of surface water thereby 	

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		<p>countering erosion.</p> <ul style="list-style-type: none"> The contractor shall be responsible for the safe siting, operation, maintenance and closure of any spoil site used during the contract period. This shall include existing spoil sites that are being re-entered. Before spoil sites may be used, proposals for their locality, intended method of operation, maintenance and rehabilitation shall be given to the Engineer for approval. 	
Maintenance and movement of construction vehicles	Potential spills of hazardous substances	<ul style="list-style-type: none"> Construction vehicles must be well maintained and serviced to minimise leaks and spills. Drip pans can also be used during the servicing of construction vehicles. Used parts like filters should be contained and disposed of at a site licensed for disposing of these waste products. 	
Improper installation and management of storm water drainage system	Topsoil removal and soil erosion	<ul style="list-style-type: none"> Adequate storm water drainage system must be designed and maintained to adequately control the volume, speed, location of runoff, to avoid soil erosion. 	Contractor, ECO, Site Engineer

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3.2.1.6 Archaeology

Management Objectives

- Protection of archaeological sites and land considered to be of cultural value; and
- The preservation and appropriate management of new archaeological finds should these be discovered during construction.

Target

- No destruction of or damage to known archaeological sites;
- No litigation due to destruction of sites; and
- Management of existing sites and new discoveries in accordance with the recommendations of the Archaeologist.

Monitoring Responsibility and Frequency

- Visual monitoring should be undertaken by the site manager and the ECO during excavation activities.

Activity That Causes Environment Impact	Environmental Impacts	Mitigation Measures	Responsible Person
Digging and trenching	Discovering of archaeological attribute	<ul style="list-style-type: none"> • Familiarise all staff and contractors with procedures for dealing with heritage objects/sites; • Care should be taken to conserve exposed archaeological objects in trenches; • No destruction of any site shall be allowed. Should it be necessary to remove any archaeological objects, the necessary procedures shall be followed and permits obtained; • Artefacts shall not be removed under any circumstances. Any destruction of a site can only be allowed once a permit is obtained. • Discovered attributes of archaeological or historical importance must be reported to the Limpopo Heritage Resources Agency (LIHRA) and work must cease in that particular area until the necessary permits have been issued by LIHRA. 	Contractor, ECO

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- Should any undisturbed subsurface archaeological material be exposed during the construction activities, the archaeologist must activate all necessary mitigation measures to salvage such exposed heritage remains.

3.2.1.7 Air Quality

Management Objectives

- To minimize the generation of dust on the project site; and
- To minimize all potential odour issues relating to contaminated soil and water.

Targets

- No visible dust within the project site;
- No visible loose material from trucks; and
- No complaints from the public.

Monitoring Responsibility and Frequency

- The Project Manager should carry out a weekly inspection during site preparation;
- Daily inspection by the Contractor to monitor activities for dust generation and moisture content of exposed areas;
- Continuous monitoring by the ECO and the Contractor with regards to fires caused by burning of waste; and
- Pre-construction inspection and maintenance as required for construction vehicles.

Activity That Causes Environment Impact	Environmental Impacts	Mitigation Measures	Responsible Person
Clearing of site	Air pollution by dust particles	Cleared areas and roads must be suppressed with water to avoid dispersal of dust particles into the atmosphere.	Contractor
Burning of waste	Air pollution	Burning of waste must not be allowed on site. All waste must be stored adequately and disposed of at an authorised facility.	Contractor
Excessive burning of fossil fuel	Excessive hazardous smoke into the atmosphere	Burning of fossil fuels must not be allowed on site.	Contractor
Emissions from vehicles and dust from gravel roads	Air pollution	Vehicles should be well serviced to avoid excessive emissions.	Contractor

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3.2.1.8 Noise

Management Objectives

- To minimize the generation of noise from construction activities.

Target

- No complaints received from the public.

Monitoring Responsibility and Frequency

- Routine inspections of plant and equipment must be carried out by the contractor; and
- Any noise complaints received from the public should be recorded, reported and monitored.

Activity That Causes Environment Impact	Environmental Impacts	Mitigation Measures	Responsible Person
The use of construction machines and laborers on site create noise.	Noise pollution	<ul style="list-style-type: none"> • Construction must be limited to normal working hours. • All machinery, including earthmoving vehicles needs regular maintenance to reduce noise intensity. • Installation of sound vibration detectors on plant machinery is recommended. • Construction vehicles must use designated entry and exit routes so that noise impacts can be largely confined to specific access routes. • All construction activities must abide to national noise laws and municipality by-laws. 	Contractor and ECO

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3.2.1.9 Visual

Management Object

- To retain the visual status quo.

Target

- The site camp and lay-down area is located in the approved position and its footprint minimized and demarcated, with no undue avoidable environmental impact e.g. visual impact etc;

Activity That Causes Environment Impact	Environmental Impacts	Mitigation Measures	Responsible Person
Access routes	Aesthetic pollution	<ul style="list-style-type: none"> • Access for construction traffic will be required and maintained to all sites during the construction phase; 	Contractor, ECO
Site Camp Establishment		<ul style="list-style-type: none"> • If practically possible, locate construction camps in areas that are already disturbed or where it is not necessary to remove established vegetation like for example, naturally bare areas; • Keep the construction sites and camps neat, clean and organised in order to portray a tidy appearance; and • Screen the construction camp and lay-down yards by enclosing the entire area with a dark green or black shade cloth of no less than 2 m height. 	Contractor, ECO

C3.123

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

3.2.1.10 Health and Safety

Management Objectives

- To promote good health; and
- To ensure security of workers and community.

Target

- No complaints from community;
- No litigation;
- No crimes recorded; and
- Good health.

Monitoring Responsibility and Frequency

- The Contractor's H&S officer shall monitor the site regularly with respect to compliance with the specifications. This shall be verified by the Contractor's external H&S Agent's monthly report.
- The ECO shall report to the Contractor's H&S Officer any safety concerns that were observed during his/her site inspections.

Activity That Causes Environment Impact	Environmental Impacts	Mitigation Measures	Responsible Person
Construction activities	Possible injuries to labourers	<ul style="list-style-type: none"> • The specifications included under this section do no exempt the Contractor from complying with all the Regulations as included in the Occupational Health and Safety Act (Act 85 Of 1993). The contractor is further referred to this Act and all its regulations; • Contractor to submit a Health and Safety Plan, prepared in accordance with the Health and Safety Specification, for approval prior to the commencement of work; • All construction personal must be clearly identifiable. All employees must also be issued with employee cards for identification purposes. The safety of all construction and operational personnel, as well as any members of the public on the site is the responsibility of the Contractor; 	Contractor and SHE Officer

C3.124

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

- | | | | |
|--|--|---|--|
| | | <ul style="list-style-type: none"> • Emergency contact numbers for all Emergency services, the Local Municipality and any other relevant persons must be displayed in a common area (administrative or meeting area) on site. • The site manager shall ensure that employees are issued with and make use of the necessary safety equipment when working in dusty, noisy and / or dangerous situations. Such equipment may include, but is not necessarily limited to hardhats, goggles, masks, earplugs, gloves, safety footwear and safety ropes as required; • Opened trenches and pits must be rehabilitated immediately to avoid injuries to pedestrians; • Ensure general good site management and health and safety awareness are employed; • Ensure the site is appropriately signed to warn of the potential dangers; • Access onto and off the site should be controlled by means of a register system. This includes visitors; • The contractor and Health and Safety Officer (HSO) should ensure that first aid / emergency facilities / procedures are in place; and • The HSO should ensure that all personnel are trained in basic site safety procedures. | |
|--|--|---|--|

C3.125

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

3.2.1.11 Waste Management

Management Objectives

- To comply with waste management guidelines;
- To minimize production of waste;
- To keep the site clean and neat;
- To store and dispose waste in the specified manner; and
- To minimize the community's complaints.

Target

- The waste system is in place prior to any waste generation works;
- No waste/ rubble on site;
- Safe disposal certificates;
- Labelled bins; and
- All waste disposed of appropriately.

Monitoring Responsibility and Frequency

- The contractor should monitor waste pathways to ensure correct application of reuse and recycling;
- The Contractor shall monitor the site daily with respect to compliance with the specifications;
- The ECO shall monitor minimum monthly that the specifications are complied with and provide the Contractor and Project Manager with an incident reporting system which will be used to report non-conformance to the EMPr;
- A complaints register will be maintained in which any complaints from the community will be logged. Complaints will be investigated and if appropriate acted upon.

Activity That Causes Environment Impact	Environmental Impacts	Mitigation Measures	Responsible Person
Construction activities	Generation of solid waste and asbestos waste.	<ul style="list-style-type: none"> • All waste streams to be generated must be managed in accordance with the hierarchy of waste management principles (Prevention, Reuse, Recycle, Recovery and 	Contractor, ECO

C3.126


Contractor


Witness 1


Witness 2


Employer


Witness 1


Witness 2

Disposal) and disposal at an authorised landfill must be the last option. Proof of disposal must be kept on site;

- The contractor's intended methods for waste management and waste minimization must be implemented at the outset of the contract, and approved by the ECO;
- All personnel shall be instructed to dispose of all waste in the specified bins;
- Solid waste shall be stored in a designated area covered, tip proof metal drums for collection and disposal;
- Signs will be located on each bin indicating type of bin and what waste may be placed in that bin.
- No waste shall be burned at the site offices, or anywhere else on the site
- Measures shall be taken to reduce the potential for litter and negligent behaviour with regard to the disposal of all refuse.
- Oil collected by a mobile servicing unit should be stored in the service unit's sludge tank and discharged into the safe holding tank for collection by the specialist oil recycling company.
- All used filter materials should be stored in a secure bin for disposal off site.

C3.127

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

3.2.1.12 Infrastructure

Management Objectives

- Minimise damage to existing infrastructure- power lines, telephone lines and pipe lines;

Targets

- No damaged infrastructure.

Monitoring Responsibility and Frequency

- The site manager will monitor all excavations (as and when they are undertaken).

Activity That Causes Environment Impact	Environmental Impacts	Mitigation Measures	Responsible Person
Construction activities: digging, trenching.	Destruction of infrastructure	<ul style="list-style-type: none"> • The relevant servitude owners within the project area should be notified prior to construction; and • No power lines/pipe lines/public and private infrastructure shall be damaged during the construction phase. 	Contractor, Construction workers, BPLM, ECO

C3.128

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

3.2.1.13 Traffic Management

Management Objectives

- To address traffic issues arising from the refurbishment works;
- To reduce the number of accidents between construction vehicles and the public.

Target

- A decrease or zero number of accidents recorded;
- Minimal disturbance of normal traffic flow; and
- A low record of complaints received.

Monitoring Responsibility and Frequency

- The site manager and ECO will undertake general surveillance of access tracks and roads and surrounding areas for damage of access roads and impact on other road users;
- Routes and signage should be inspected daily to allow safe access; and
- Weekly reports to the Healthy and Safety Officer, including the number of the accidents, fatalities and the causes of the accidents.
-

Activity That Causes Environment Impact	Environmental Impacts	Mitigation Measures	Responsible Person
<p>Access to and from site (bringing in material and workers)</p> <p>Movement of plant on site during site clearance and trenching.</p>	<p>Traffic Congestion on public roads</p> <p>Accidents</p>	<ul style="list-style-type: none"> ▪ Signposting, warning signs, barriers and traffic diversions: site will be clearly visible and the public warned of all potential hazards ▪ Traffic management system and staff training should be implemented, especially for site access and near-site heavy traffic; ▪ The contractor should ensure provision of safe passages and crossings for pedestrians where construction traffic interferes. ▪ Restrictions on the movement of vehicles may be placed so as to avoid any anticipated peak levels, as well as phasing of traffic movements to and from the site so as to avoid potential convoys which could cause local scale congestion. ▪ All trucks should not be over laden, and should be 	<p>Contractor, ECO, HSO, BPLM</p>

C3.129

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

- regularly serviced.
- Good driving practices will be required from all delivery drivers.

3.2.1.14 Fire Management

Management Objectives

- Minimize risk of fires.

Target

- A fire management plan is in place before construction;
- No fires started by the Contractor's work force; and
- No litigation.

Monitoring Responsibility and Frequency

- The Contractor shall ensure that all inductions and training is carried out to facilitate fire response and evacuation and shall ensure that all fire- fighting equipment is available and inspection registers are up to date.

Activity That Causes Environment Impact	Environmental Impacts	Mitigation Measures	Responsible Person
	Destruction of infrastructure and biodiversity	A fire management plan must be identified, implemented and maintained, commencing prior to construction. The following additional measures must be included: <ul style="list-style-type: none"> • No fires may be made for the burning of vegetation and waste. • No open fires are to be made on site; cooking facilities must be provided. • Fire-fighting equipment must be readily available on site during all times. 	BPLM, Contractor, ECO

C3.130

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

3.2.1.15 Social Issues

Management Objectives

- Ensure equal opportunities for all;
- Create short-term employment;
- Training and skills development is implemented.

Target

- Gender equity strategy is in place prior to construction;
- Training and skills development guideline is included in the tender document.

Monitoring Responsibility and Frequency

- Contractor to record the number of community members/ local businesses employed and trained monthly.

Activity That Causes Environment Impact	Environmental Impacts	Mitigation Measures	Responsible Person
Construction Activities	Gendered division of labour	<ul style="list-style-type: none"> • BPLM own internal policies and procedures should be used to ensure a fair and transparent recruitment process; • Salaries of women should be equal to that of men when undertaking the same work; • Training and skills development should take place for women; and • Institute a well-designed gender equality strategy, if not available. 	BPLM, Contractor
	Capacity building and skills transfer	<ul style="list-style-type: none"> • BPLM and the contractor should be mutually accountable for increased opportunities regarding skills and competency development (general education and technical training). This training should be concentrated on skills that can be readily transferred to other 	BPLM, Contractor

C3.131

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

		employment opportunities in the local area, and only suitable qualified candidates in project management activities should be used.	
	Waged labour/ employment creation and decrease in unemployment	<ul style="list-style-type: none"> Local contractors and suppliers to be used during the construction phase as far as possible. 	BPLM, Contractor

3.2.2 Operation Phase

3.2.2.1 Vegetation

Management Objectives

- To minimize damage to vegetation;
- To minimize possibility of erosion due to removal of vegetation/grass;
- To ensure alien plants do not become dominant in the project area and surrounding areas.

Targets

- Rehabilitate areas.

Monitoring Responsibility and Frequency:

- Control of alien vegetation must be regularly done by BPLM.

Activity That Causes Environment Impact	Environmental Impacts	Mitigation Measures	Responsible Person
Debushing during maintenance	Removal of flora	<ul style="list-style-type: none"> Selective bush clearing must take place, i.e. the entire stadium footprint should not be cleared. Indigenous vegetation which does not interfere with the safe operation of the internal access roads and sports fields should be left undisturbed. 	BPLM

C3.132

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

3.2.2.2 Waste Management

Management Objectives

- To comply with waste management guidelines;
- To minimize production of waste;
- To keep the stadium clean and neat;
- To store and dispose waste in the specified manner.

Target

- The waste system is in place;
- No wind-blown litter on site;
- Safe disposal certificates;
- Labelled bins; and
- All waste disposed of appropriately.

Monitoring Responsibility and Frequency

- BPLM should monitor waste pathways to ensure correct application of reuse and recycling; and
- A complaints register will be maintained in which any complaints from the community will be logged. Complaints will be investigated and if appropriate acted upon.

Activity That Causes Environment Impact	Environmental Impacts	Mitigation Measures	Responsible Person
Operation activities	Generation of solid waste.	<ul style="list-style-type: none"> • All waste streams to be generated must be managed in accordance with the hierarchy of waste management principles (Prevention, Reuse, Recycle, Recovery and Disposal) and disposal at an authorised landfill must be the last option. Proof of disposal must be kept on site; • All personnel shall be instructed to dispose of all waste in the specified bins; • Solid waste shall be stored in a designated area covered, tip proof metal drums for collection and 	BPLM

C3.133

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

- disposal;
- Signs will be located on each bin indicating type of bin and what waste may be placed in that bin.
 - No waste shall be burned at the stadium, or anywhere else on the site
 - Measures shall be taken to reduce the potential for litter and negligent behaviour with regard to the disposal of all refuse.

3.2.2.3 Fire Management

Management Objectives

- Minimize risk of fires.

Target

- A fire management plan is in place;
- No fires started by the personnel; and
- No litigation.

Monitoring Responsibility and Frequency

- BPLM shall ensure that all inductions and training is carried out to facilitate fire response and evacuation and shall ensure that all fire- fighting equipment is available and inspection registers are up to date.

Activity That Causes Environment Impact	Environmental Impacts	Mitigation Measures	Responsible Person
Operation activities	Destruction of infrastructure and biodiversity	<p>A fire management plan must be identified, implemented and maintained throughout the operational phase. The following additional measures must be included:</p> <ul style="list-style-type: none"> • No fires may be made for the burning of vegetation and waste. • No open fires are to be made on site; cooking facilities 	BPLM

C3.134

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

must be provided.

- Fire-fighting equipment must be readily available on site during all times.

3.2.2.4 Basic Services

Management Objectives

- Adequate provision of basic provisions.
- Resource use strategies are in place.

Target

- Resource use is recorded monthly.
- Continuous awareness programmes are undertaken.

Monitoring Responsibility and Frequency

- BPLM shall continuously undertake site inspections and review resource utilization to ensure efficiency use.

Activity That Causes Environment Impact	Environmental Impacts	Mitigation Measures	Responsible Person
Water consumption	Misuse of water	<ul style="list-style-type: none"> • Any water that is used which is not supplied by BPLM must be registered and authorised by the Department of Water & Sanitation prior to usage commencement. • Enforce water-use reduction strategies; • To reduce the demand or dependency on groundwater/ treated water consideration should be made to install rain water harvesting tanks; • Prevent spilling of water through proper procedures; • Promote efficient use of water through proper time-management. • Place notices on site informing the workers of the importance of water saving; 	BPLM

C3.135

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

		<ul style="list-style-type: none"> • Environmental Awareness training; • Site inspections to Identify and report leaking taps and pipes. 	
Electricity consumption		<ul style="list-style-type: none"> • Enforce electricity reduction strategies; • All electrical services infrastructure must be approved by the relevant authority/department before implementation. • Use energy saving equipment like LED lights as required by SANS 10400. • All unused equipment must be switched off; • The importance of energy saving must be promoted. 	

C3.136

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

3.2.3 Rehabilitation

After completion of the construction works, all areas that were disturbed should be rehabilitated. The following measures are required to address the issues of the negatively impacted site.

Management Objectives

- Establishment of vegetation in areas previously disturbed by construction where feasible to stabilize the site and improve aesthetics;
- Stabilization of soils;
- Control of alien invasive plant species;
- To ensure and encourage site rehabilitation of disturbed areas; and
- To ensure that the site is appropriately rehabilitated following the execution of the works, such that residual environmental impacts are remediated or curtailed.

Targets

- Monitoring of all construction areas including construction equipment camps and working areas, cleared of equipment and temporary facilities;
- Topsoil replaced on all areas and stabilized;
- Disturbed areas rehabilitated and acceptable plant cover achieved on rehabilitated areas; and
- Closed site free of erosion and alien invasive plants.

Procedures

- The Contractor must ensure that all temporary structures, materials, waste and facilities used for construction activities are removed upon completion of the project. Pre-construction imagery can be taken to determine the loss of natural landscape and later compared to the rehabilitated land to obtain an indication of overall success in re-vegetation and rehabilitation;
- Compacted areas that are no longer needed post-construction (e.g. laydown areas and the crane) shall be ripped and scarified;
- Necessary drainage works and anti-erosion measures shall be installed, where required, to minimise loss of topsoil and control erosion;
- The contractor should replace stockpiled topsoil in disturbed areas where rehabilitation is to be undertaken as a layer of at least 10cm in thickness; and
- The ECO should ensure that the contractor implements immediate surface restoration and re-sloping in order to prevent erosion, taking cognisance of local contours and landscaping.

Monitoring Responsibility and Frequency

- The Project Manager shall monitor all rehabilitation areas to ensure that they are establishing well and are free from alien invasive vegetation.
- The ECO is to comment on the progress and success of re-vegetation efforts.

3.2.3.1 Monitoring Programme

Upon completion of all work, the ECO shall survey all rehabilitated areas to ensure compliance with the construction phase specifications. Some impacts may need ongoing monitoring and/or management (e.g. maintenance activities such as erosion control). If deemed necessary, the monitoring programme may need to be established to ensure the long-term viability of the rehabilitated areas.

C3.137

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

4. CONCLUSION

Should these recommended measures be adopted in the planning, construction, operation/ maintenance and decommissioning phases of the proposed activity, TSMAC finds that the predicted impacts of the proposed activities are within acceptable limits.

It should be noted however, that environmental management is dynamic and as such the EMP must be flexible in order to accommodate changing circumstances and requirements. Ongoing environmental monitoring of the stadium should be carried out throughout its life cycle, and such should be conducted by a dedicated ECO within BPLM, to identify and address new issues as they arise, and to update or amend the management plan accordingly.

C3.138

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

5. REFERENCES

- DEAT (2002), Ecological Risk Assessment, Integrated Environmental Management, Information Series 6. DEAT. Pretoria;
- DEAT (2004), Environmental Management Plans, Integrated Environmental Management, Information Series 12. DEAT. Pretoria;
- DEAT (2004), Review in EIA, Integrated Environmental Management, Information Series 13. DEAT. Pretoria.

C3.139

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA LOCAL MUNICIPALITY



CONTRACT NO. 07/20/21

REFURBISHMENT OF NAMAKGALE STADIUM

C4 SITE INFORMATION

C4. Site Information

Namakgale is a large township lying 12 km outside Phalaborwa in Mopani District in the Limpopo province of South Africa. It's nearest neighbouring townships are Lulekani, Makhushane, Maseke and Mashishimale on the R71 road to Gravelotte. It is next to the Kruger National Park on the north eastern part of the Limpopo province previously Northern Transvaal.

C4.1 Description of Site and Access

Namakgale Stadium is located about 15km in an Easterly direction from Phalaborwa town. The location is as shown in Fig 1 below:

VILLAGE	LATITUDE	LONGITUDE
Namakgale A	23° 56' 10.90" S	31° 01' 58.80" E

The site slopes from west to east, with gradients ranging from 5% to 2%. The development will be situated on municipal land covering an area approximately 10.5 hectares in total. The site slopes generally from west towards the North East with stormwater ultimately draining to a non-perennial tributary that flows further down to the east of the development.

C 4.2 Contractor's Inspection of the Site

The contractor shall be deemed to have inspected and examined the Site and its surroundings and information available in connection there with and to have satisfied himself before submitting his tender as to

1. Know the form and nature of the site and its surroundings, including subsurface conditions.
2. The hydrological and climatic conditions
3. The extent and nature of work and materials necessary for the execution and completion of the works.

C4.1

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

4. The means of access to the site and the accommodation he may require

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

C4.3 Material Properties

Excavation was done on the site. The Geotech report suggests good founding depth of one meter. G7 material found on the site will be re-use for layer works. There are a total of three platforms that will be protected on exposed slopes against erosion by planting suitable grass.

C4.4 Ground Water

The depth of the water table is unknown as no groundwater was encountered in any of the test pit excavations. It is not expected that groundwater will be problematic on this site.

C4.5 Contractor's

Tenderers shall be deemed to have fully satisfied themselves as to the site and geological conditions that pertain to the site of works before submitting their tenders.

C4.2

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

BA-PHALABORWA LOCAL MUNICIPALITY



CONTRACT NO. 07/20/21

REFURBISHMENT OF NAMAKGALE STADIUM

C5 BOOK OF DRAWINGS

The following drawings are applicable to this contract:

LIST OF DRAWINGS	
REFURBISHMENT OF NAMAKGALE STADIUM	
DRAWING NUMBER	DESCRIPTION
IPA/BPLM/NS/LM/DR01	LOCALITY MAP
IPA/BPLM/NS/ELP/DR02	EXISTING LAYOUT PLAN
IPA/BPLM/NS/GLP/DR03	GENERAL LAYOUT PLAN & FENCING DETAILS
IPA/BPLM/NS/SP/DR04	SOCCER PITCH AND ATHLETIC TRACK LAYOUT
IPA/BPLM/NS/WAT/DR05	SOCCER PITCH AND ATHLETIC TRACK SUB SURFACE DRAINAGE
IPA/BPLM/NS/WAT/DR06	SOCCER PITCH IRRIGATION SYSTEM LAYOUT
IPA/BPLM/NS/DL/DR07	RUNNING TRACK DRAINAGE LAYOUT
IPA/BPLM/NS/AF/DR09	DETAILS OF ATHLETIC FACILITIES
IPA/BPLM/NS/STR/DR10	ELEVATED WATER TANK LAYOUT, ELEVATIONS, SECTIONS & DETAILS
IPA/BPLM/NS/RD/DR11	TYPICAL CROSS SECTIONS OF PARKING AREA, WALKWAY AND ACCESS ROAD
IPA/BPLM/NS/SM/DR12	STANDARD SEWER MANHOLE AND PIPE BEDDIN DETAILS
IPA/BPLM/NS/TB/DR13	WATER BEDDING AND THRUST BLOCK DATAILS
IPA/BPLM/NS/STR/DR14	STEEL PALLISADE LAYOUT SECTIONS AND DETAILS
IPA/BPLM/NS/NB/DR15	NAME BOARD ERECTIONS DETAILS
IPA/BPLM/NS/GSFL/DR/26	GRAND STAND FOUNDATION LAYOUT
IPA/BPLM/NS/GSRL/DR27	GRAND STAND REINFORCEMENT LAYOUT
IPA/BPLM/NS/MPHFL/DR28	MULTI-PURPOSE HALL FOUNDATION LAYOUT
IPA/BPLM/NS/MPHRL/DR29	MULTI-PURPOSE HALL REINFORCEMENT LAYOUT
IPA/BPLM/NS/MPHSBL/DR30	MULTI-PURPOSE HALL SURFACED BED LAYOUT
IPA/BPLM/NS/MPHRL/DR31	MULTI-PURPOSE HALL ROOF LAYOUT
IPA/BPLM/NS/MPHSFL/DR32	MULTI-PURPOSE HALL STEEL FRAME LAYOUT

C4.1



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

IPA/BPLM/NS/CRFRL/DR33	CHANGE ROOM FOUNDATION AND REINFORCEMENT LAYOUT
IPA/BPLM/NS/GOFL/DR34	GATE ONE FOUNDATION LAYOUT
IPA/BPLM/NS/GORL/DR35	GATE ONE REINFORCEMENT LAYOUT
IPA/BPLM/NS/GTRRL/DR36	GATE ONE FOUNDATION AND REINFORCEMENT LAYOUT
IPA/BPLM/NS/MPHV/DR37	MULTI-PURPOSE HALL VENTILATION LIGHT LAYOUT
IPA/BPLM/NS/PV/DR38	PAVILLION VENTILATION
IPA/BPLM/NS/ABV/DR39	ABLUTION BLOCK VENTILATION
IPA/BPLM/NS/MPHSPL/DR40	MULTI-PURPOSE HALL SMALL POWER LAYOUT
IPA/BPLM/NS/MPHLL/DR41	MULTI-PURPOSE HALL LIGHTING LAYOUT
IPA/BPLM/NS/GSCLL/DR42	GRAND STAND CANOPY LIGHTING LAYOUT
IPA/BPLM/NS/CRPTL/DR43	CHANGE ROOMS AND PUBLIC TOILETS DISTRIBUTION BOARD LAYOUT
IPA/BPLM/NS/GSDBL/DR44	GRAND STAND DISTRIBUTION BOARD LAYOUT
IPA/BPLM/NS/MPHDBL/DR45	MULTI-PURPOSE HALL DISTRIBUTION BOARD LAYOUT
IPA/BPLM/NS/CRPTSPL/DR47	CHANGE ROOM AND PUBPLIC TOILETS SMALL POWER LAYOUT
IPA/BPLM/NS/CRPTLL/DR48	CHANGE ROOM AND PUBLIC TOILETS LIGHTING LAYOUT
IPA/BPLM/NS/SL/DR22	SEWER LONG SECTIONS
IPA/BPLM/NS/SWL/DR23	STORMWATER LONG SECTIONS
19-001-100-MS-00	GRANDSTAND 01
19-001-200-MS-00	GRAND STAND 02
19-001-210-MS-00	GRAND STAND CEILING LAYOUT
19-001-300-MS-00	CHANGE ROOMS, GATE TWO, SCHEDULES
19-001-400-MS-00	MULTI-PURPOSE HALL
19-001-500-MS-00	GATE ONE
19-001-900-MS-00	FINISHES AND SIGNAGE SCHEDULES
19-001-910-MS-00	SANITARY SCHEDULES
19-001-000-MS-00	SITE PLAN
IPA/BPLM/NS/ESRL/DR08	ELECTRICAL SITE PLAN
IPA/BPLM/NS/PF/DR20	DESIGN PLATFORM
IPA/BPLM/NS/SWC/DR24	STORMWATER CATCHMENTS
IPA/BPLM/NS/SKP/DR25	SERVICES KEY PLAN

C4.2



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

BA-PHALABORWA LOCAL MUNICIPALITY

CONTRACT No. 07/20/21

REFURBISHMENT OF NAMAKGALE

STADIUM

TENDER DRAWINGS

(A3 DRAWINGS)

CLIENT :



THE MUNICIPAL MANAGER
BA-PHALABORWA
LOCAL MUNICIPALITY
PRIVATE BAG X 01020
PHALABORWA
1390

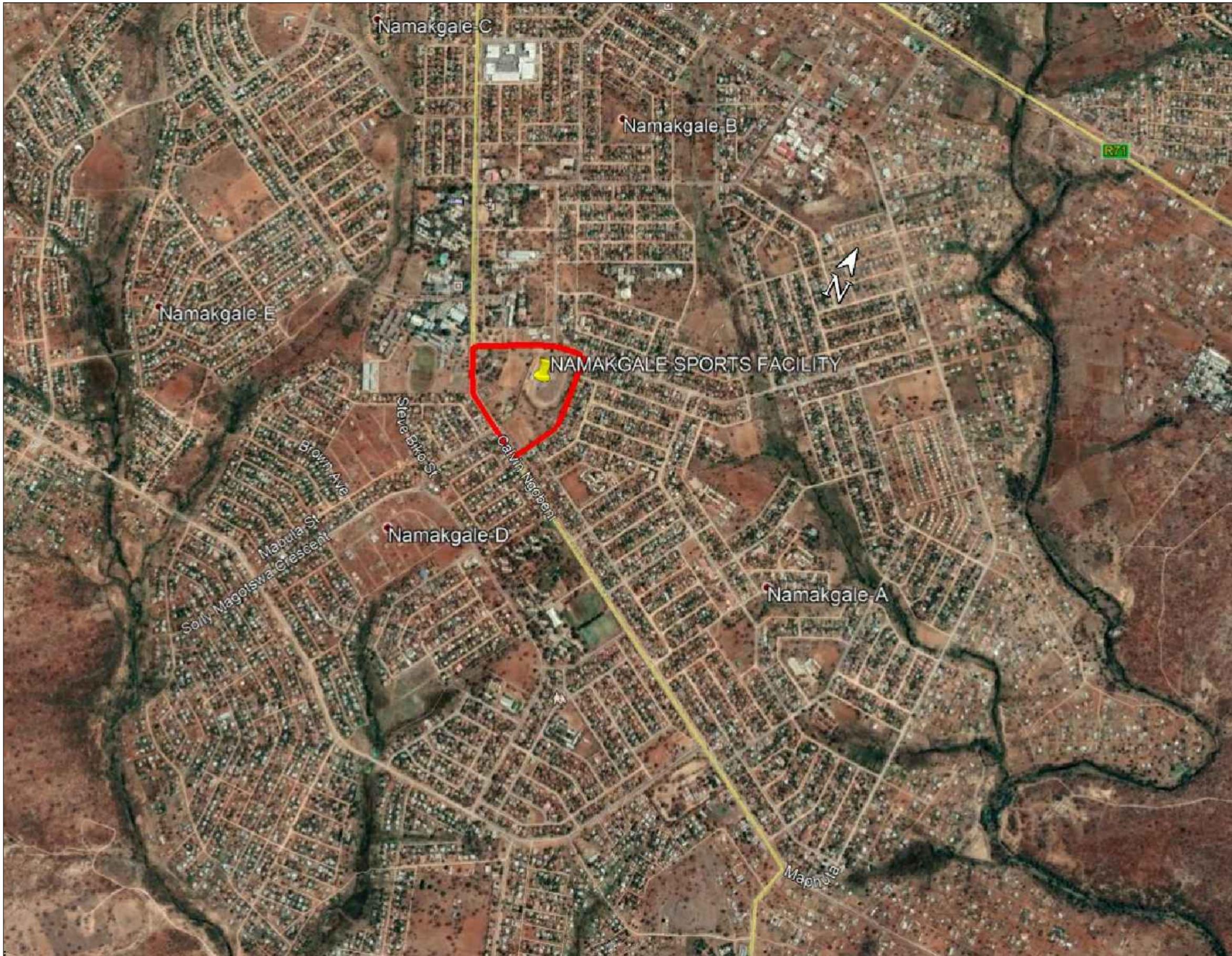
TEL. 015 780 6300

CONSULTANT :

Infra Projects Africa

INFRA PROJECTS AFRICA
SUIT NO.2 SUID PARK
126B SUID STREET
POLOKWANE
0699

TEL. 015 291 2040
FAX. 015 781 0728



FOR TENDER
PURPOSES ONLY

CERTIFIED AS-BUILT FOR CONTRACT: _____
ENGINEER _____ DATE: _____

VERSION/ AMENDMENTS			
NO.	DATE	CERTIFIED BY	AUTHORISED BY:

CLIENT

 BA-PHALABORWA
 LOCAL MUNICIPALITY
 PRIVATE BAG X 01020
 PHALABORWA
 1390
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CONSULTANT

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 0699
 TEL. 015 291 2040

REFURBISHMENT OF NAMAKGALE STADIUM

DRAWING TITLE
 LOCALITY MAP

DATE: MARCH 2020

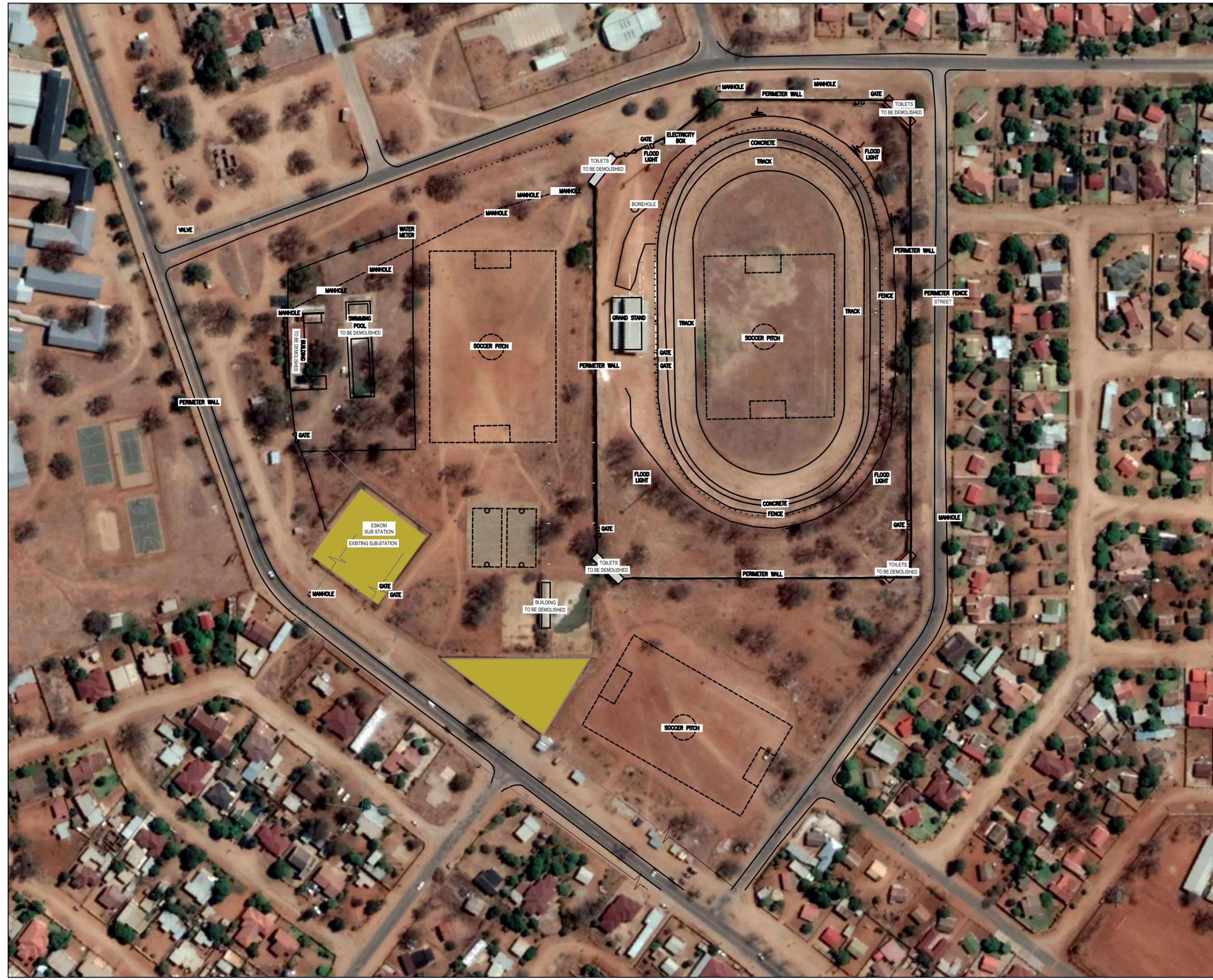
SCALE ON A1	1:250	CO-ORDINATE SYSTEM	
SURVEYED		DESIGNED	
DRAWN		CHECKED	

APPROVED ON BEHALF OF INFRA-PROJECTS AFRICA:

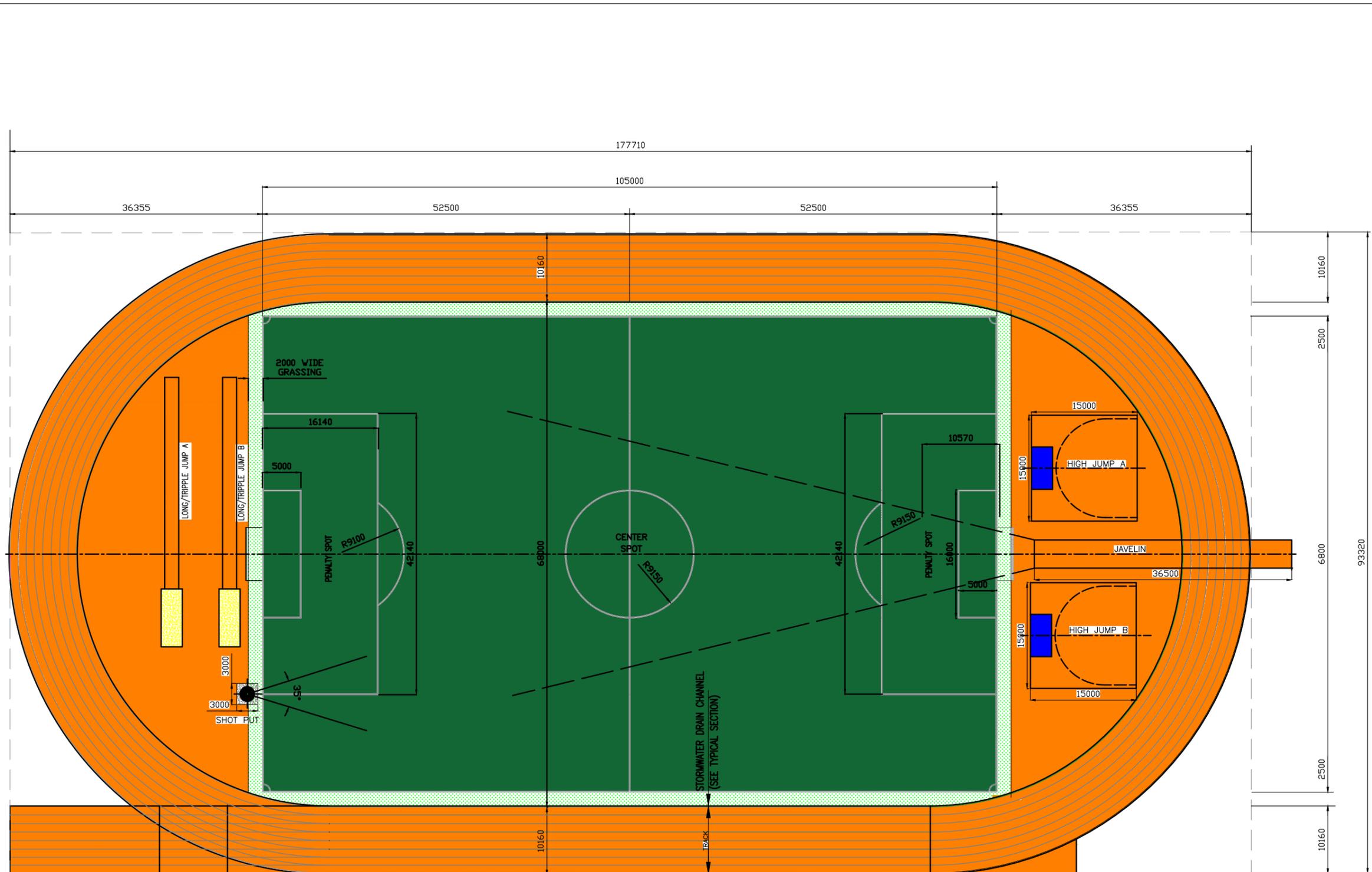
ENGINEER: _____ DATE: _____
 DRAWING NO: IPA/BPLM/NS/LM/DR01 VERSION: 00

APPROVED: _____
 CLIENT: _____ DATE: _____

CLIENT: _____
 DRAWING NO.: _____ CLIENT: _____
 DRAWING NO.: _____



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CERTIFIED AS-BUILT FOR CONTRACT:			
ENGINEER		DATE:	
VERSION/ AMENDMENTS			
NO.	DATE:	CERTIFIED BY	AUTHORISED BY:
CLIENT			
		BA-PHALABORWA LOCAL MUNICIPALITY PRIVATE BAG X 01020 PHALABORWA 1390 TEL. 015 780 6300 FAX. 015 781 0728	
CONSULTANT			
		INFRA PROJECTS AFRICA SUIT NO 2 SUID PARK 126B SUID STREET POLOKWANE 0699 TEL. 015 291 2040	
PROJECT TITLE			
REFURBISHMENT OF NAMAKGALE STADIUM			
DRAWING TITLE			
EXISTING LAYOUT PLAN			
DATE: MARCH 2020			
SCALE ON A1	1:250	CO-ORDINATE	SYSTEM
SURVEYED	DESIGNED	CHECKED	
DRAWN			
APPROVED ON BEHALF OF INFRA-PROJECTS AFRICA:			
ENGINEER		DATE:	
DRAWING NO.	IP/BPLM/NS/GLP/DR02	VERSION	00
APPROVED:			
CLIENT:		DATE:	
CLIENT:		CLIENT:	
DRAWING NO.:		DRAWING NO.:	



110M STARTING POINT

100M STARTING POINT

NOTE
FOR DETAILS OF SHOT PUT PAD, LONG/TRIPL/HIGH JUMP, JAVELIN
AND TRACK- SEE DRAWING NO. BPLM2019/NS/INF/DR05

SOCCER PITCH/ATHLETIC TRACK
SCALE 1:500

100M FINISH POINT

LEGEND

- SOCCER PITCH TURF
- ALL WEATHER SEAL
- SAND
- LANDING PAD
- GRASS

FOR TENDER
PURPOSES ONLY

CERTIFIED AS-BUILT FOR CONTRACT:

ENGINEER: _____ DATE: _____

VERSION/ AMENDMENTS

NO.	DATE	CERTIFIED BY	AUTHORISED BY

CLIENT



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CONSULTANT



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0699
TEL. 015 291 2040

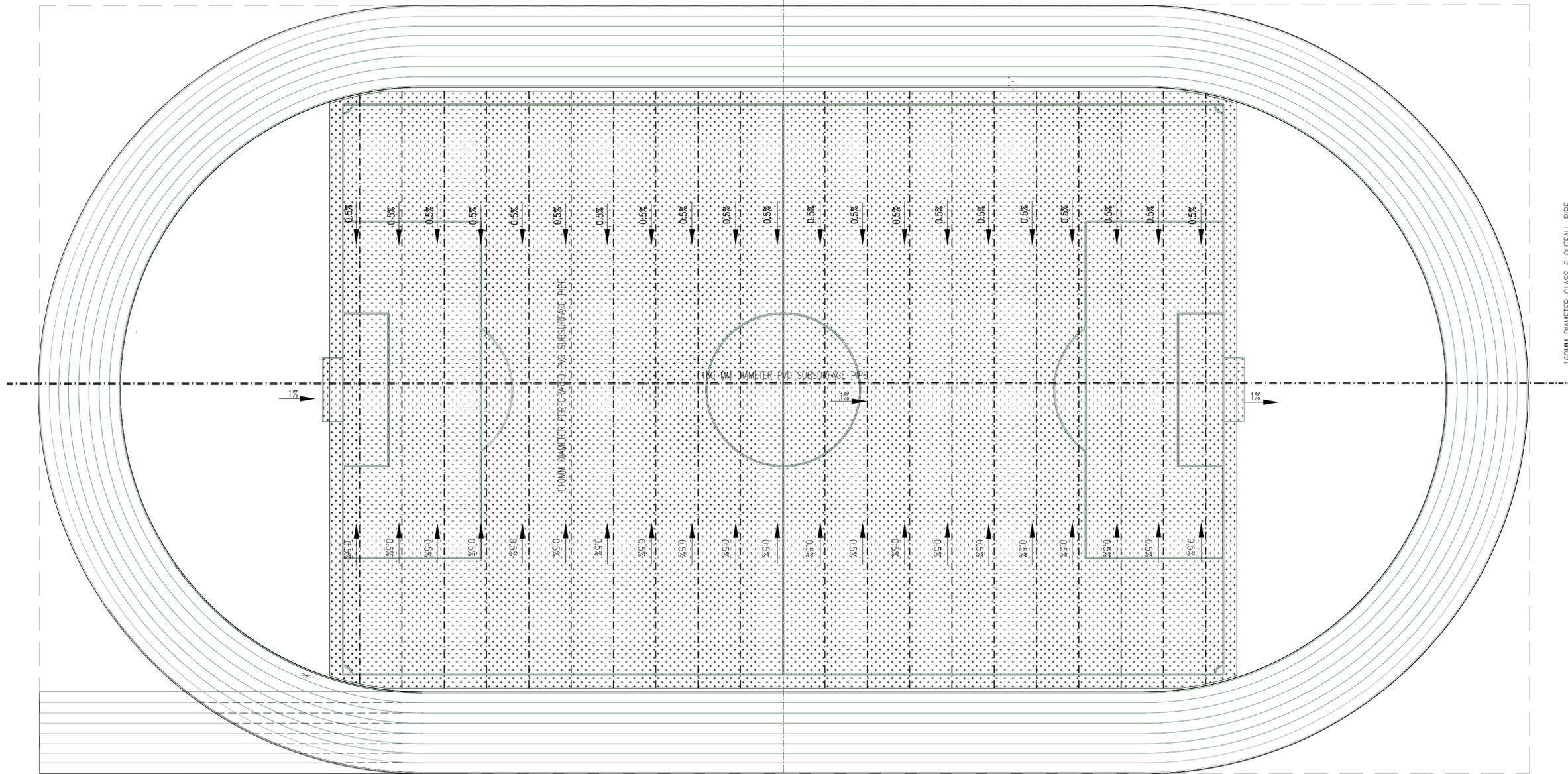
REFURBISHMENT OF NAMAKGALE STADIUM

DRAWING TITLE

**SOCCER PITCH / ATHLETIC TRACK
LAYOUT AND OTHER ATHLETIC
FACILITIES**

DATE: MARCH 2020	
SCALE ON A1: 1:250	CO-ORDINATE SYSTEM
SURVEYED	DESIGNED
DRAWN	CHECKED
APPROVED ON BEHALF OF INFRA-PROJECTS AFRICA:	
ENGINEER: _____	DATE: _____
DRAWING NO.: INF/BPLM/NS/SP/DR04	VERSION: 00
APPROVED:	
CLIENT: _____	DATE: _____
CLIENT: _____	CLIENT: _____
DRAWING NO.:	DRAWING NO.:

168000



NOTES:

CONSTRUCTION OF A FOOTBALL FIELD
 a. THE CONSTRUCTION OF THE OUTDOOR GRASS FOOTBALL FIELD MAY BE BRIEFLY DESCRIBED AS LISTED BELOW. THE GENERAL SPECIFICATION OF THE SUB-SURFACE MAY VARY DEPENDANT ON SITE CONDITIONS AND SHOULD BE IN TERMS WITH THE CIVIL ENGINEERS' SPECIFICATION.

THE GENERAL SPECIFICATION MAY, HOWEVER, BE DESCRIBED AS FOLLOWS:

1. REMOVE ALL TOP SOIL AND LEVEL EARTH PLATFORM TO CORRECT SITE DEVELOPMENT LEVELS WITH PARTICULAR EMPHASIS ON NATURAL SUB-SOIL DRAINAGE.
2. RIP AND COMPACT INSITU EARTH TO 93% MODAASHTO.
3. INSTALL SUB SURFACE DRAINAGE COMPRISING OF 110MM DIAMETER AGRICULTURAL DRAINS PLACED IN 450MM x 600MM DEEP DRAINAGE SYSTEM AT 8M INTERVALS AND TO ENTIRE PERIMETER OF THE FOOTBALL FIELD.
4. SUB-SURFACE DRAINS TO BE LINED WITH A 'BIDOUY' HESSIAN LAYER AND FILLED IN WITH 19MM CRUSHER RUN STONE.
5. SUB-SURFACE DRAINS TO BE CONNECTED TO THE LOWEST POINT TO A STORMWATER CATCH PIT AND THEN CONNECTED TO THE MAIN STORM WATER DRAINAGE PIPE.
6. THE SUB-SURFACE DRAINSARE TO BE COVERED WITH A 100MM THICK LAYER OF CRUSHER RUN TO ENHANCE FUNCTION (OPTIONAL).
7. THE CRUSHER RUN SHOULD BE LEVELLED, LIGHTLY COMPACTED AND COVERED WITH A 25MM THICK LAYER OF COURSE RIVER SAND.
8. IMPORT, SPREAD AND LEVEL 100MM THICK LAYER OF WEED FREE TOP SOIL AND COMPACT LIGHTLY
9. FERTILIZE SOIL AS PER CHEMICAL SOIL ANALYSIS AND GRASS WITH EITHER KIKUYU GRASS OR OTHER SUITABLE ALTERNATIVE ONCE GRASS ESTABLISHES TOP DRESS.
10. COVER GRASS WITH A LAYER OF SERVED TOP SOIL TO A DEPTH OF NOT MORE THAN 15MM AND SMOOTHEN
11. WATER DAILY OR AS MAYBE REQUIRED
12. REGULAR SOIL TESTS SHOULD BE DONE TO ENSURE THAT THE CORRECT FERTILISATION PROGRAMME IS CARRIED OUT.

FOR TENDER PURPOSES ONLY

CERTIFIED AS-BUILT FOR CONTRACT:

ENGINEER: _____ DATE: _____

VERSION / AMENDMENTS

NO.	DATE:	CERTIFIED BY	AUTHORISED BY:

CLIENT



BA-PHALABORWA LOCAL MUNICIPALITY
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CONSULTANT



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PROJECT TITLE
REFURBISHMENT OF NAMAKGALE STADIUM

DRAWING TITLE
SOCCER PITCH & ATHLETIC TRACK SUB-SURFACE DRAINAGE

DATE: **MARCH 2020**

SCALE ON A1: **1:250** CO-ORDINATE SYSTEM

SURVEYED	DESIGNED
DRAWN	CHECKED

APPROVED ON BEHALF OF INFRA-PROJECTS AFRICA:

ENGINEER: _____ DATE: _____

DRAWING NO: **IPA/BPLM/NS/WAT/DR05** VERSION: **00**

APPROVED: _____

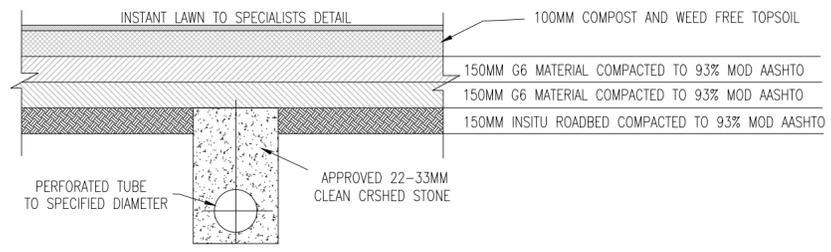
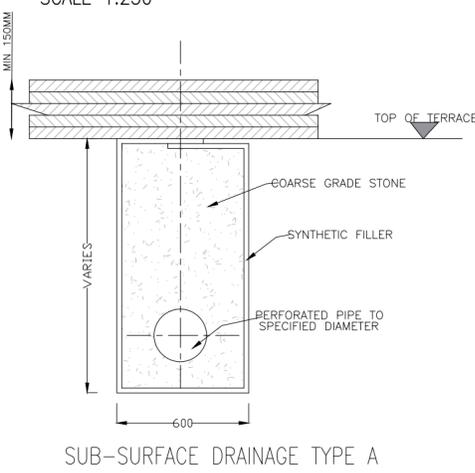
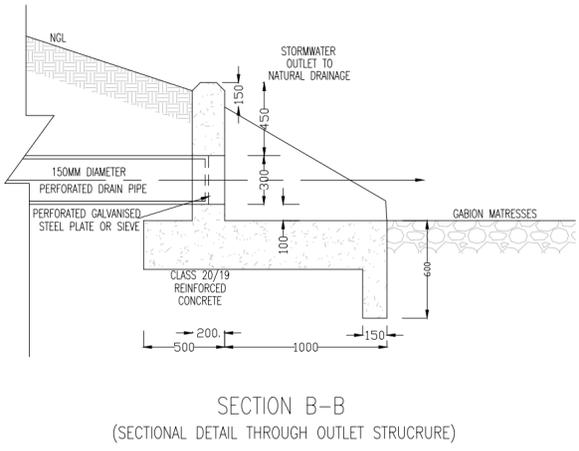
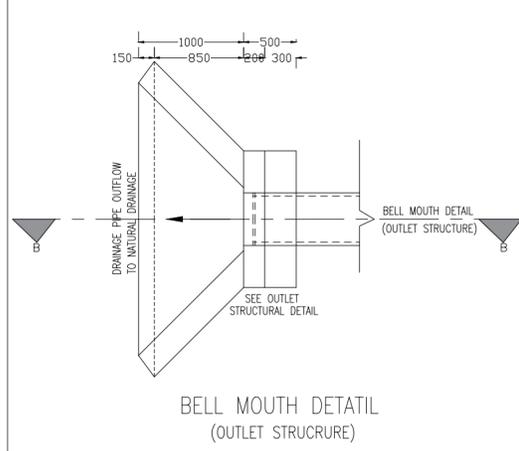
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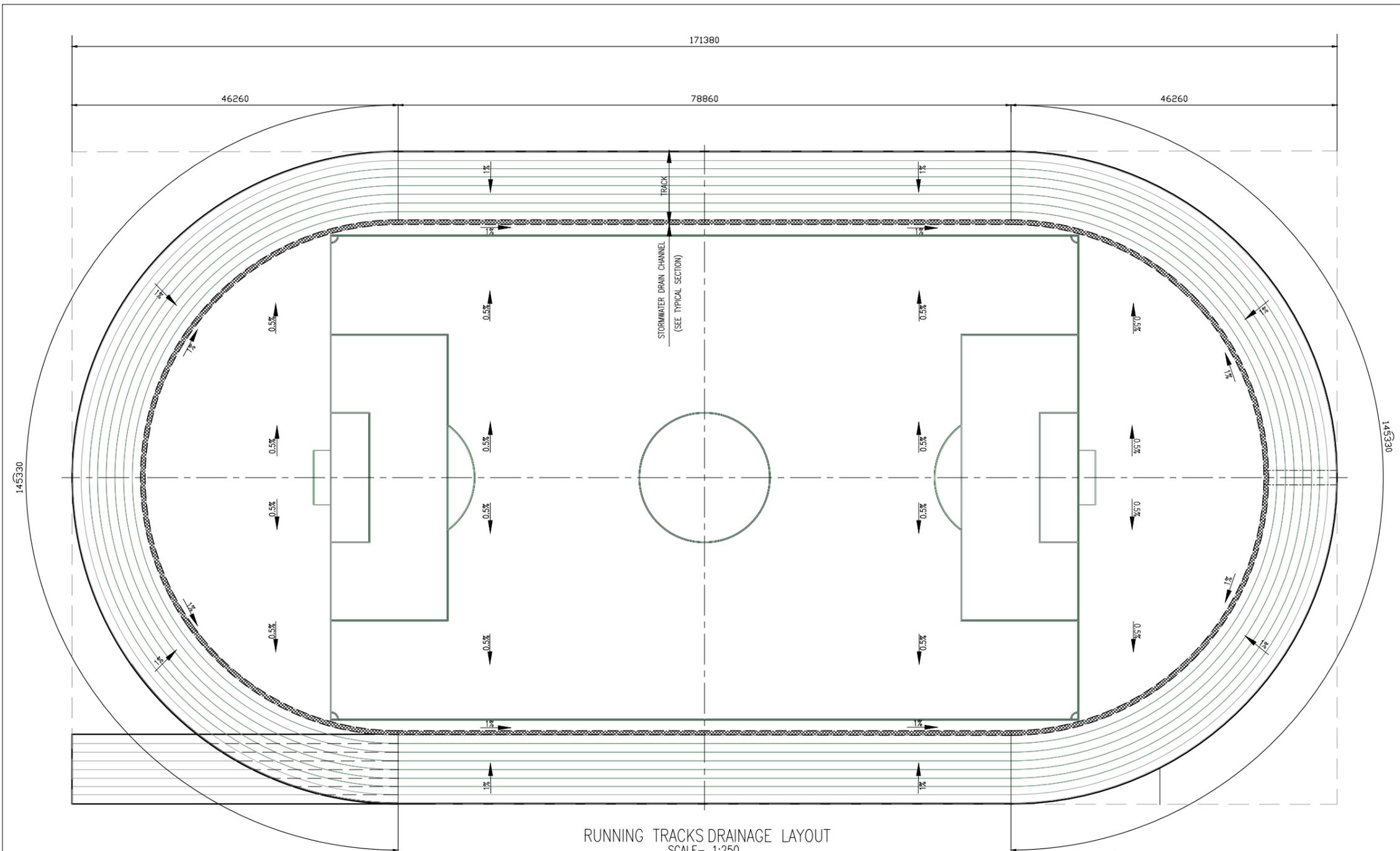
DRAWING NO.: _____ CLIENT: _____ DRAWING NO.: _____

SOCCER PITCH AND ATHLETIC TRACK SUBSURFACE DRAINAGE LAYOUT
 SCALE 1:250

LEGEND

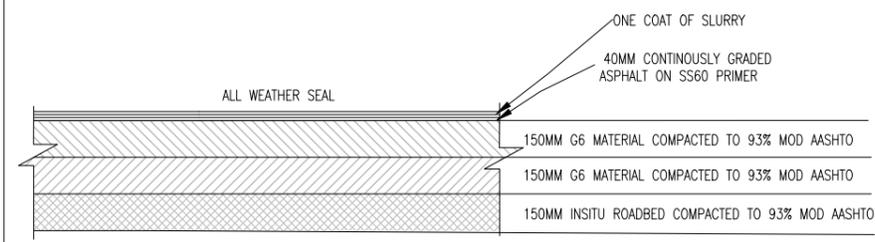
- 110MM DIAMETER SUBSURFACE DRAINAGE PIPE (PITCH)
- 160MM DIAMETER SUBSURFACE DRAINAGE PIPE
- 160MM CLASS 6 OUTFALL PIPE
- DRAIN SLIT



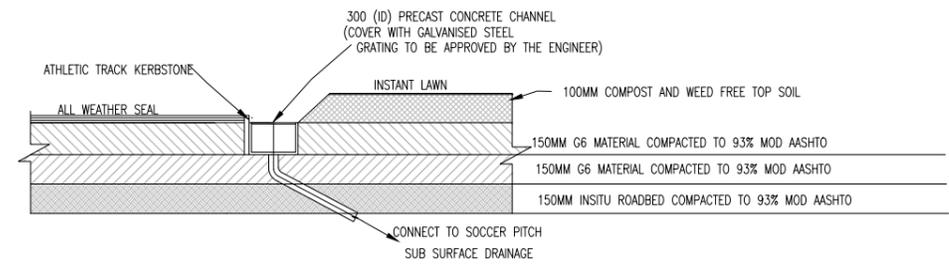


RUNNING TRACKS DRAINAGE LAYOUT
SCALE- 1:250

LEGEND
 AROUND TRACK DRAINAGE CHANNEL
 (1% SLOPE TOWARDS THE DISCHARGE POINT)



TYPICAL SECTION- ATHLETIC TRACK



TYPICAL SECTION-DRAINAGE AROUND ATHLETIC TRACK

FOR TENDER
PURPOSES ONLY

CERTIFIED AS-BUILT FOR CONTRACT:
 ENGINEER: _____ DATE: _____

VERSION/ AMENDMENTS			
NO.	DATE	CERTIFIED BY	AUTHORISED BY:

CLIENT



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REFURBISHMENT OF NAMAKGALE STADIUM

DRAWING TITLE
 RUNNING TRACK
DRAINAGE LAYOUT

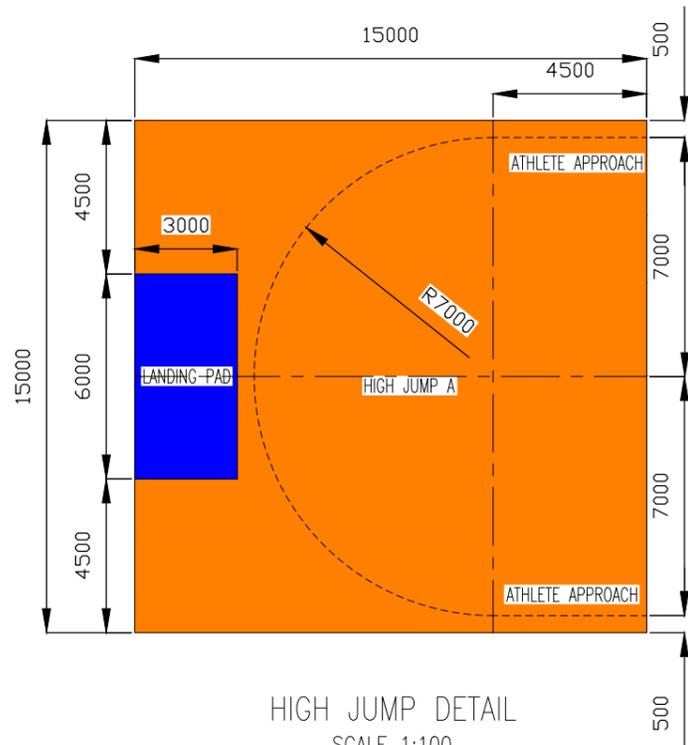
DATE: MARCH 2020

SCALE ON A1	1:250	CO-ORDINATE SYSTEM	
SURVEYED		DESIGNED	
DRAWN		CHECKED	

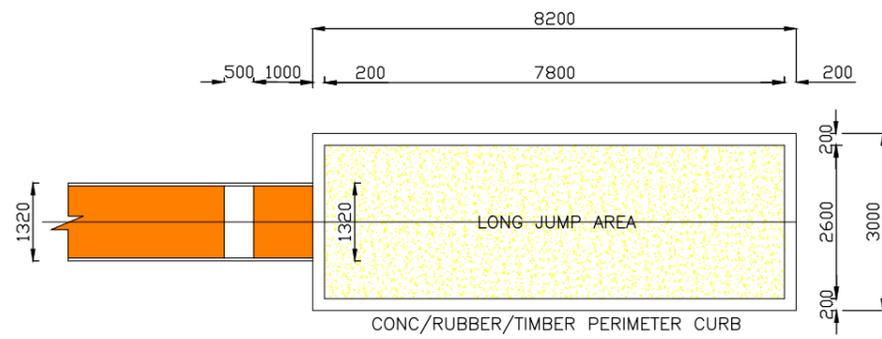
APPROVED ON BEHALF OF INFRA-PROJECTS AFRICA:

ENGINEER: _____ DATE: _____
 DRAWING NO: IP/BPLM/NS/DL/DR07 VERSION: 00

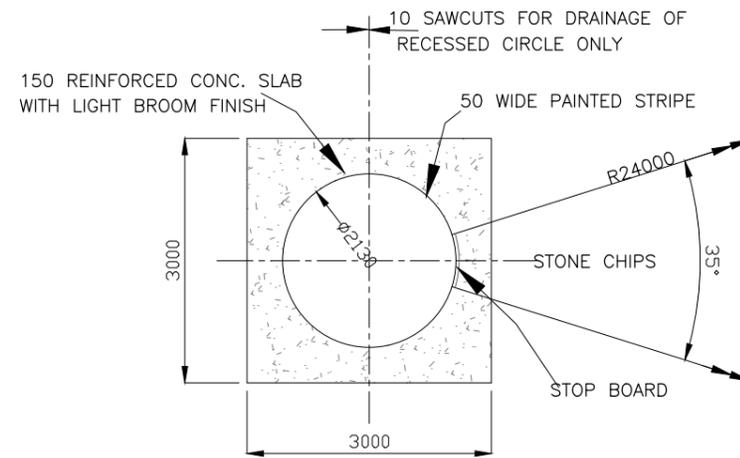
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 CLIENT: _____ DATE: _____
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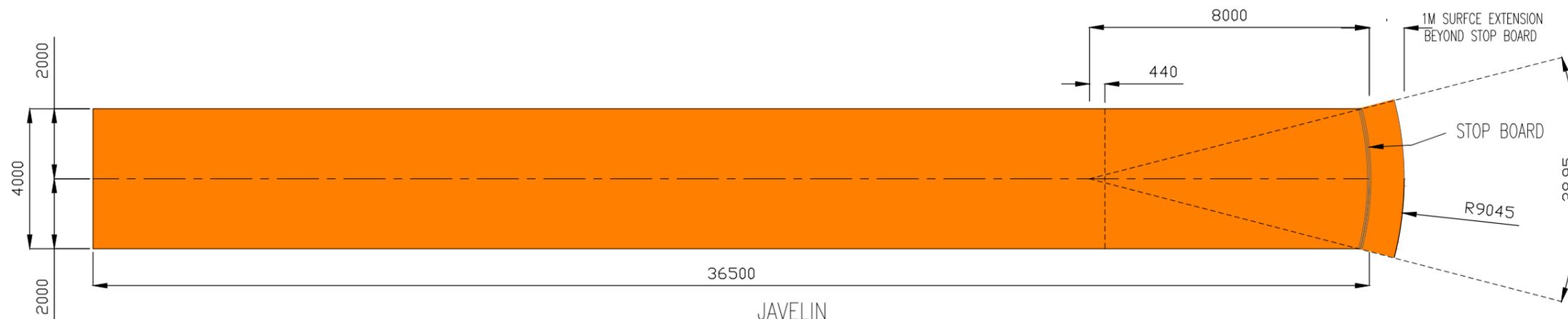
HIGH JUMP DETAIL
SCALE 1:100



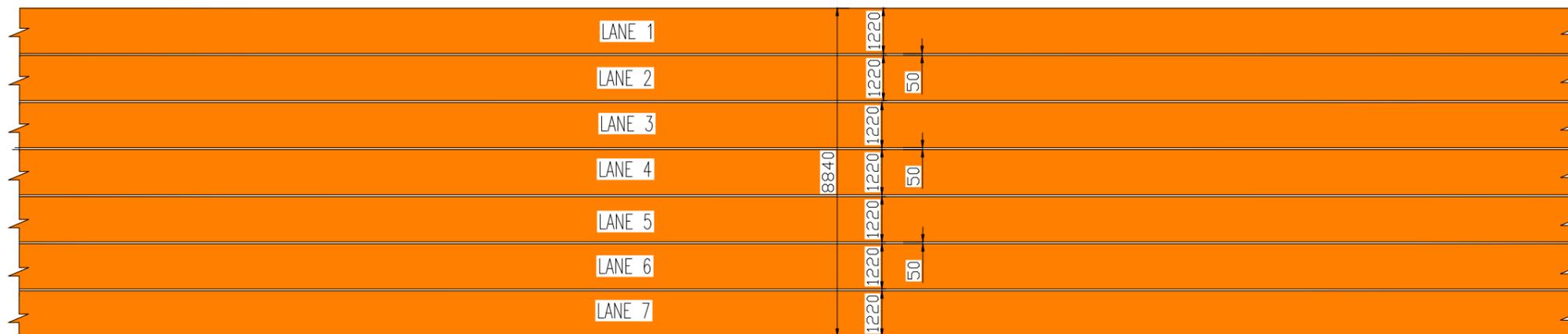
LONG/TRIPLE JUMP PIT PLAN
SCALE 1:100



SHOT PUT PAD
SCALE 1:100



JAVELIN
SCALE 1:100



TRACK DETAIL
1:100

NOTES:

LEGEND

- ALL WEATHER SEAL
- SAND
- LANDING PAD

FOR TENDER PURPOSES ONLY

CERTIFIED AS-BUILT FOR CONTRACT: _____ ENGINEER _____ DATE: _____

VERSION/ AMENDMENTS			
NO.	DATE:	CERTIFIED BY	AUTHORISED BY:

CLIENT



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REFURBISHMENT OF NAMAKGALE STADIUM

DRAWING TITLE

DETAILS OF ALL ATHLETIC FACILITIES

DATE: MARCH 2020

SCALE ON A1: 1:250

CO-ORDINATE SYSTEM

SURVEYED	DESIGNED	
DRAWN	CHECKED	

APPROVED ON BEHALF OF INFRA-PROJECTS AFRICA:

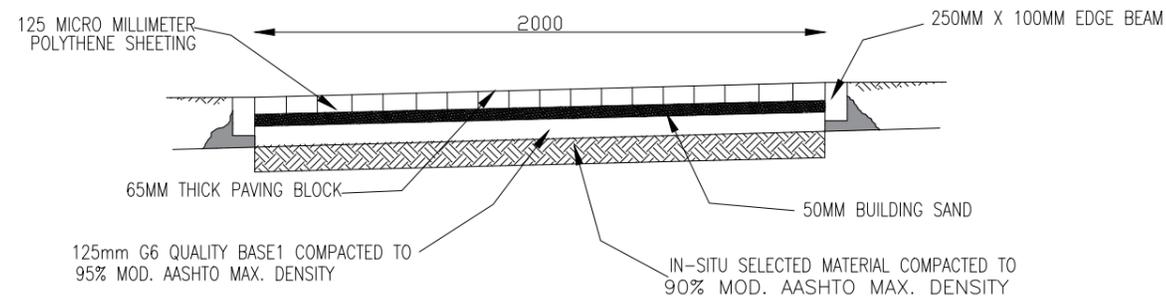
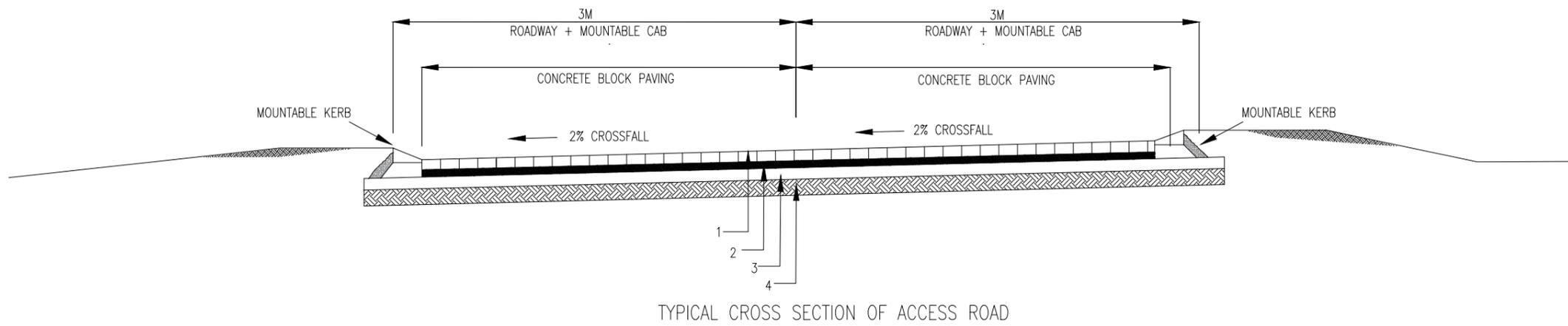
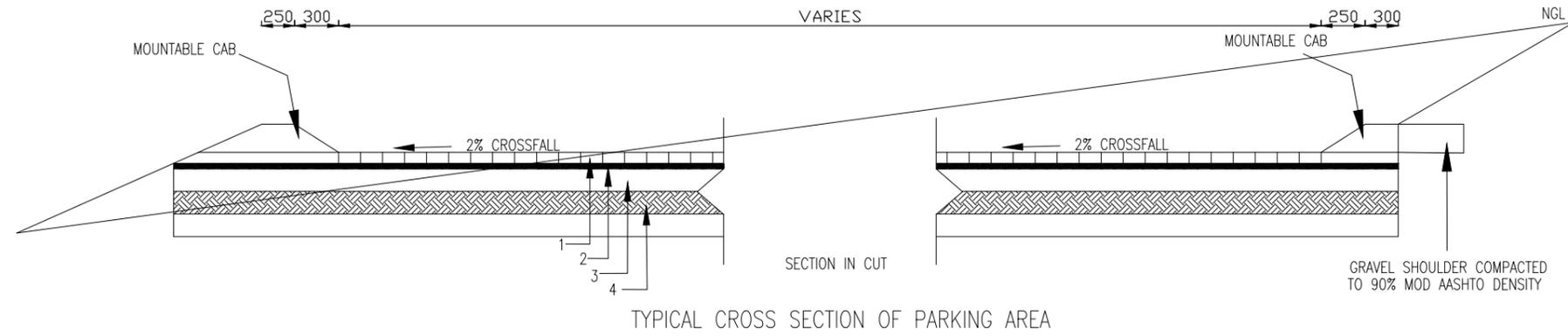
ENGINEER: _____ DATE: _____

DRAWING NO.	VERSION
IPA/BPLMNS/AF/DR09	00

APPROVED:

CLIENT: _____ DATE: _____

CLIENT:	CLIENT:
DRAWING NO.:	DRAWING NO.:



No.	DESCRIPTION	MATERIAL SOURCE	COMPACTION	CBR / UCS	PI	GM
1	65mm Paving Blocks	COMMERCIAL	-	-	-	-
2	25mm River Sand	COMMERCIAL	-	-	-	-
3	150 MM BASE (C4)	BORROW PIT	95% MOD AASHTO RELATIVE DENSITY	MIN CBR @95% MOD AASHTO DENSITY SHALL NOT BE >=15%	PI <= 12	2.7>=GM>=0.75
4	150 MM BASE (G6)	BORROW PIT	93% MOD AASHTO RELATIVE DENSITY	MIN CBR @95% MOD AASHTO DENSITY SHALL NOT BE >=15%	PI <= 12	2.7>=GM>=0.75

FOR TENDER PURPOSES ONLY

CERTIFIED AS-BUILT FOR CONTRACT: _____ ENGINEER _____ DATE: _____

VERSION/ AMENDMENTS			
NO.	DATE:	CERTIFIED BY	AUTHORISED BY:

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REFURBISHMENT OF NAMAKGALE STADIUM

DRAWING TITLE

TYPICAL CROSS SECTIONS OF
PARKING AREA, WALKWAY AND ACCESS ROAD

DATE: MARCH 2020

SCALE ON A1	1:250	CO-ORDINATE SYSTEM
SURVEYED	DESIGNED	CHECKED
DRAWN	CHECKED	

APPROVED ON BEHALF OF INFRA-PROJECTS AFRICA:

ENGINEER: _____ DATE: _____

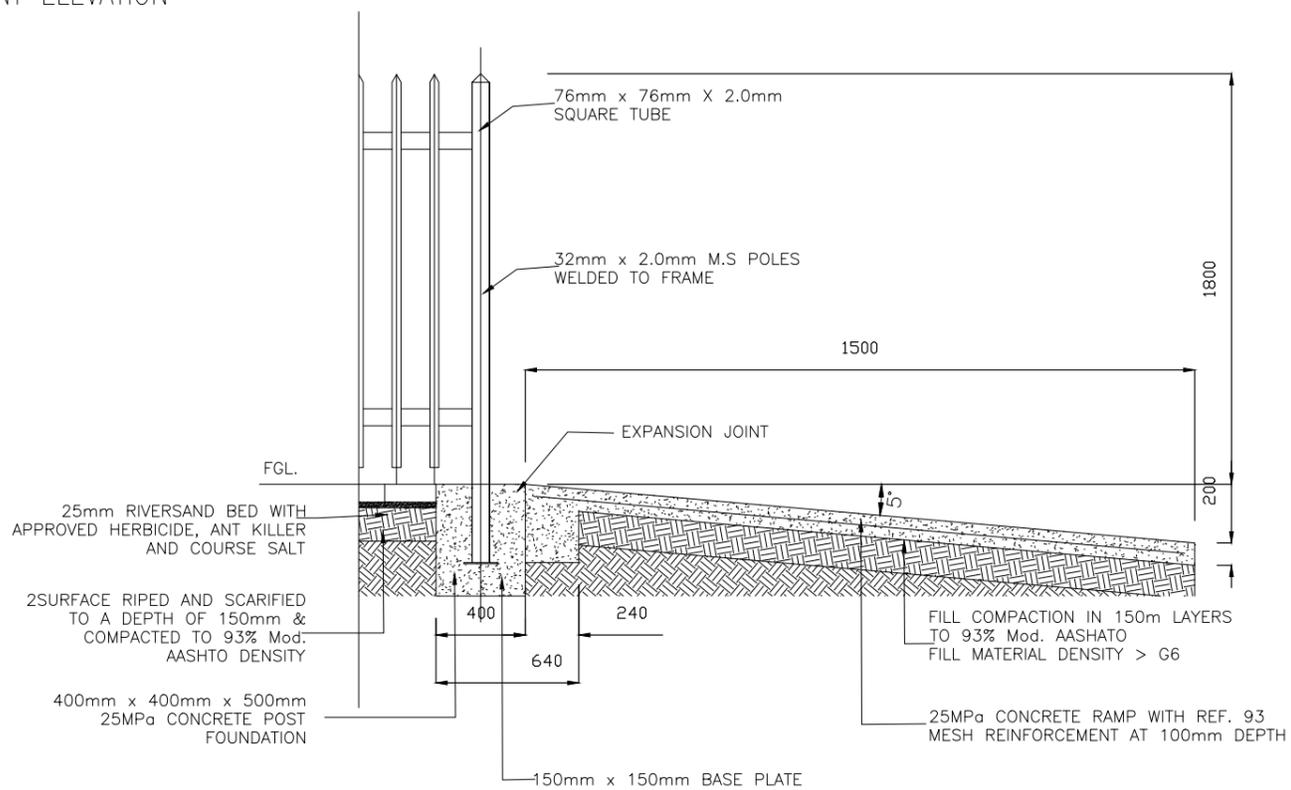
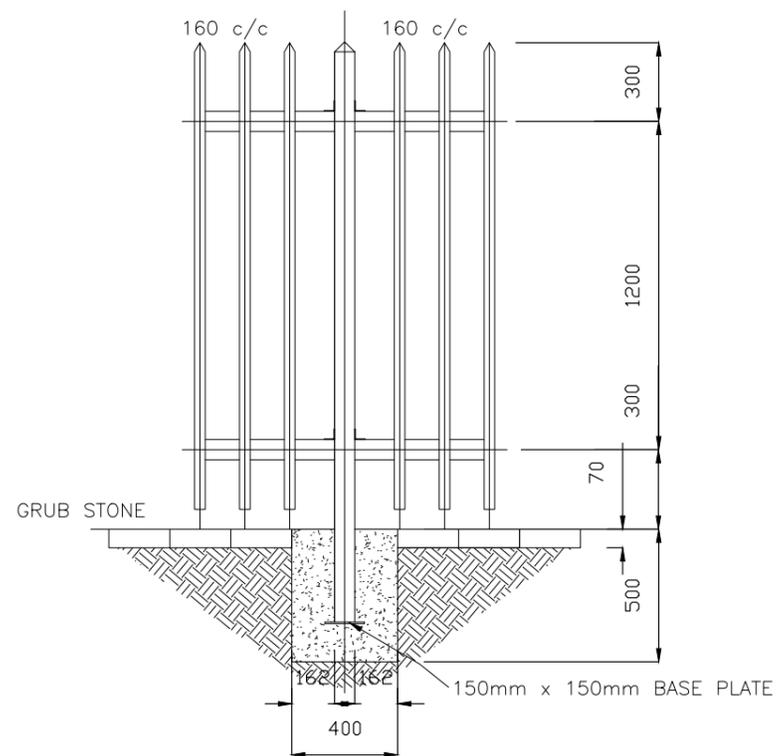
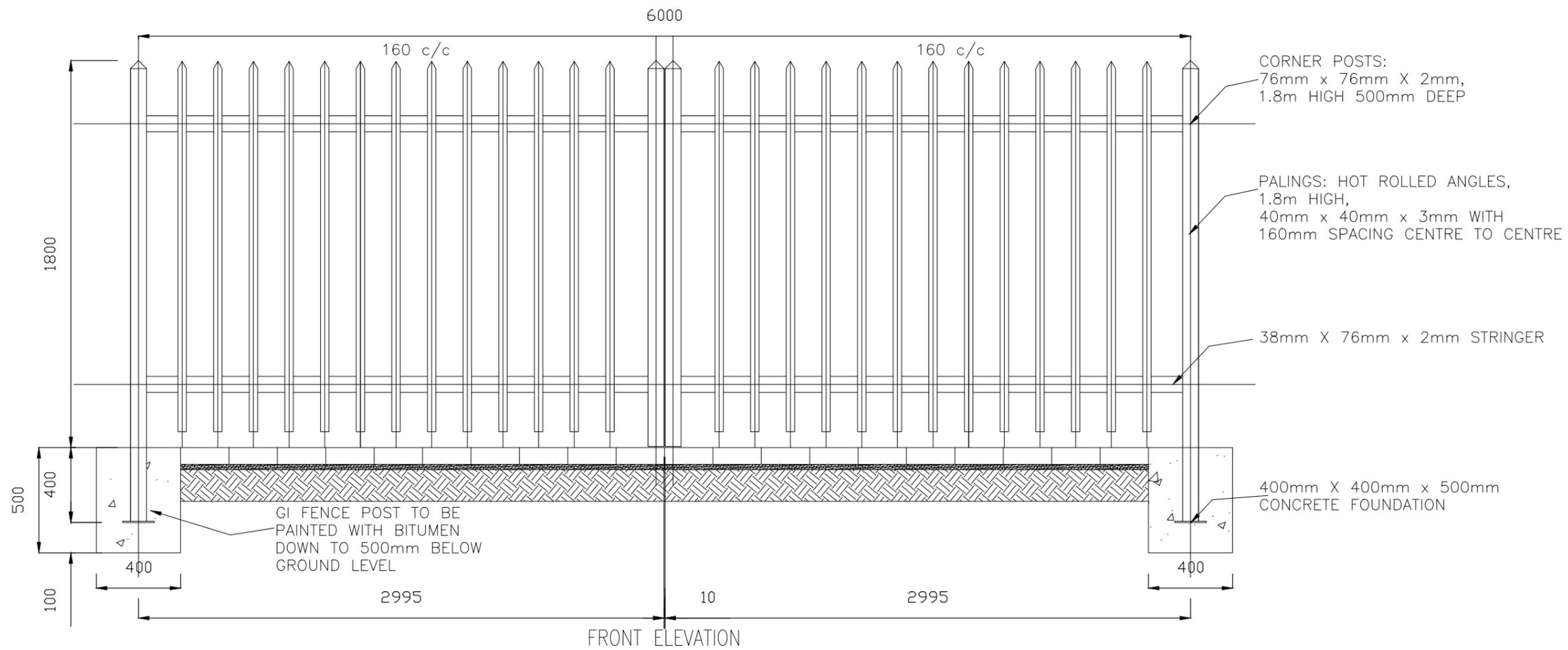
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APPROVED: _____

CLIENT: _____ DATE: _____

CLIENT: _____

DRAWING NO.: _____ DRAWING NO.: _____



FOR TENDER
PURPOSES ONLY

CERTIFIED AS-BUILT FOR CONTRACT:

ENGINEER: _____ DATE: _____

VERSION/ AMENDMENTS

NO.	DATE:	CERTIFIED BY	AUTHORISED BY:

CLIENT



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REFURBISHMENT OF NAMAKGALE STADIUM

DRAWING TITLE

STEEL PALISADE
LAYOUT
SECTIONS AND DETAILS

DATE: MARCH 2020

SCALE ON A1
1:250

CO-ORDINATE
SYSTEM

SURVEYED

DESIGNED

DRAWN

CHECKED

APPROVED ON BEHALF OF INFRA-PROJECTS AFRICA:

ENGINEER: _____ DATE: _____

DRAWING NO. IPA/BPLM/NS/STR/DR14 VERSION 00

APPROVED: _____

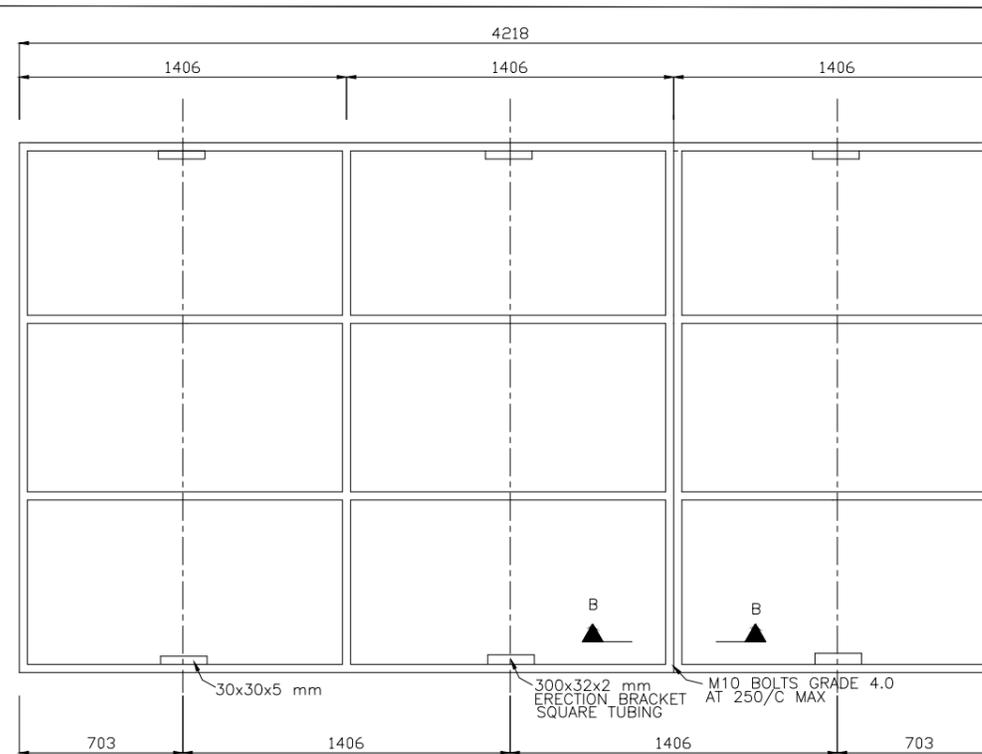
CLIENT: _____ DATE: _____

CLIENT: _____

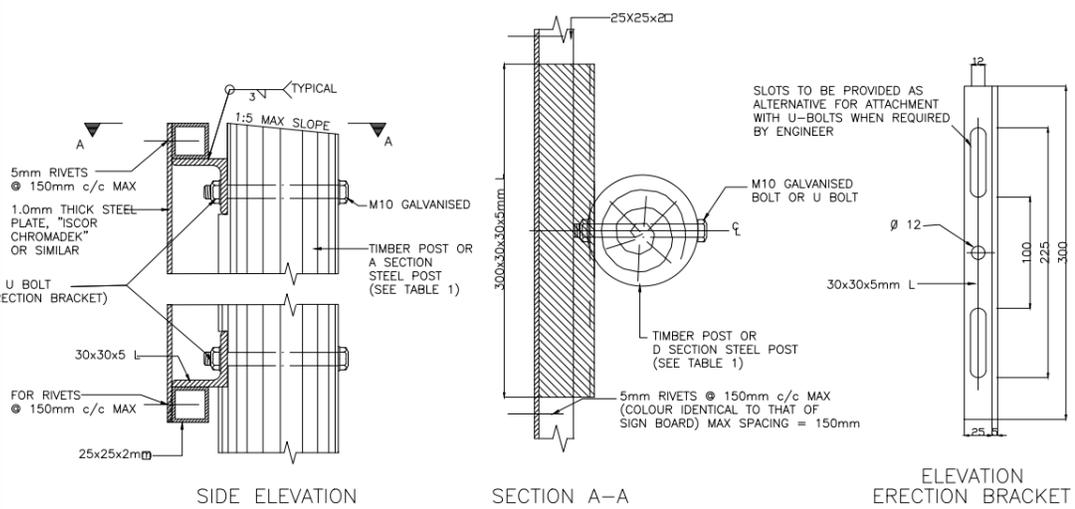
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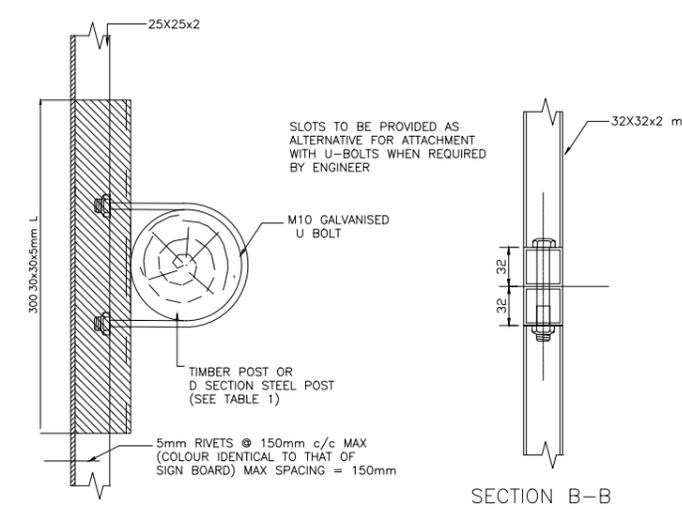
FRONT ELEVATION



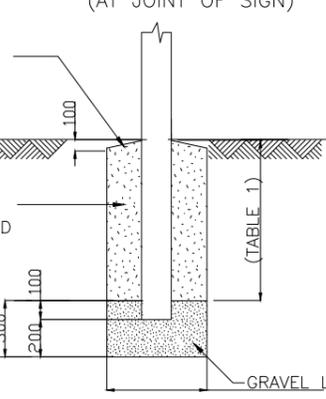
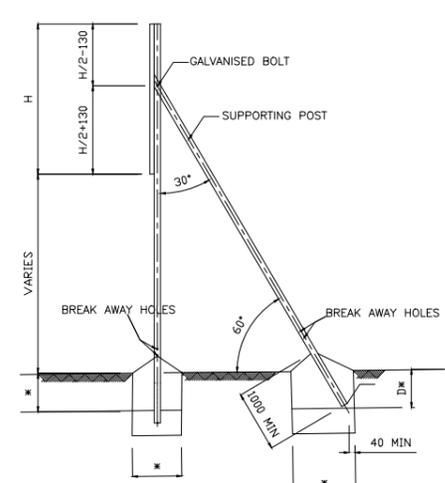
REAR SIDE BRACING



FIXING DETAIL FOR SIGN BOARDS



PLAN: SECTION A-A (WITH U BOLT) SECTION B-B (AT JOINT OF SIGN)



FOUNDATION DETAIL

TYPE POST	UPRIGHT	STAY	A	B
TIMBER POST AND STAY	100mm	80mm	600mm	850mm
TIMBER POST	180mm	-	1000mm	1450mm
D SECTION STEEL POST	100mm x 4mm	-	1000mm	1450mm

TABLE 1: DETERMINATION OF POSTS & FOOTING

POLE DIA (mm)	HOLE DIA (mm)
< 140	NONE
141 - 170	40
171 - 200	50
201 - 225	65

- NOTES:**
- EMBLEM: ALL EMBLEMS TO BE DISPLAYED IN FULL COLOUR ON A SEMI-MATT WHITE BACKGROUND.
 - LETTERS AND NUMBERS: DESCRIPTION: MATT-BLACK, SERIES DIN B LETTERS AND NUMBERS ON A SEMI-MATT SHORE-GRAY BACKGROUND.
 - BORDERS: BORDER : GREEN NON-REFLECTORIZED.
 - QUANTITY: TWO SIGN BOARDS IN ENGLISH SHALL BE ERECTED AS DETERMINED BY THE ENGINEER.
 - DESCRIPTION OF WORK (NUMBER OF KILOMETRES AND TYPE OF WORK, eg. DESCRIPTION STARTS CENTERED ON THE LEFT-HAND SIDE AND IN THE FIRST 105mm-DIMENSION BELOW
 6. (a) SAFCEC EMBLEM ONLY, IF CONTRACTOR IS A MEMBER OTHERWISE BLANK

FOR TENDER PURPOSES

CERTIFIED AS-BUILT FOR CONTRACT: _____ ENGINEER _____ DATE: _____

VERSION/ AMENDMENTS

NO.	DATE	CERTIFIED BY	AUTHORISED BY

CLIENT:  BA-PHALABORWA LOCAL MUNICIPALITY PRIVATE BAG X 01020 PHALABORWA 1390 TEL 015 780 6300 FAX. 015 781 0728

CONSULTANT:  INFRA PROJECTS AFRICA SUIT NO.2 SUID PARK 126B SUID STREET POLOKWANE 0699 TEL. 015 291 2040

REFURBISHMENT OF NAMAKGALE STADIUM

DRAWING TITLE: NAME BOARD ERECTION DETAILS

DATE: MARCH 2020

SCALE ON A1: 1:250 CO-ORDINATE SYSTEM

SURVEYED	DESIGNED	CHECKED

APPROVED ON BEHALF OF INFRA-PROJECTS AFRICA:

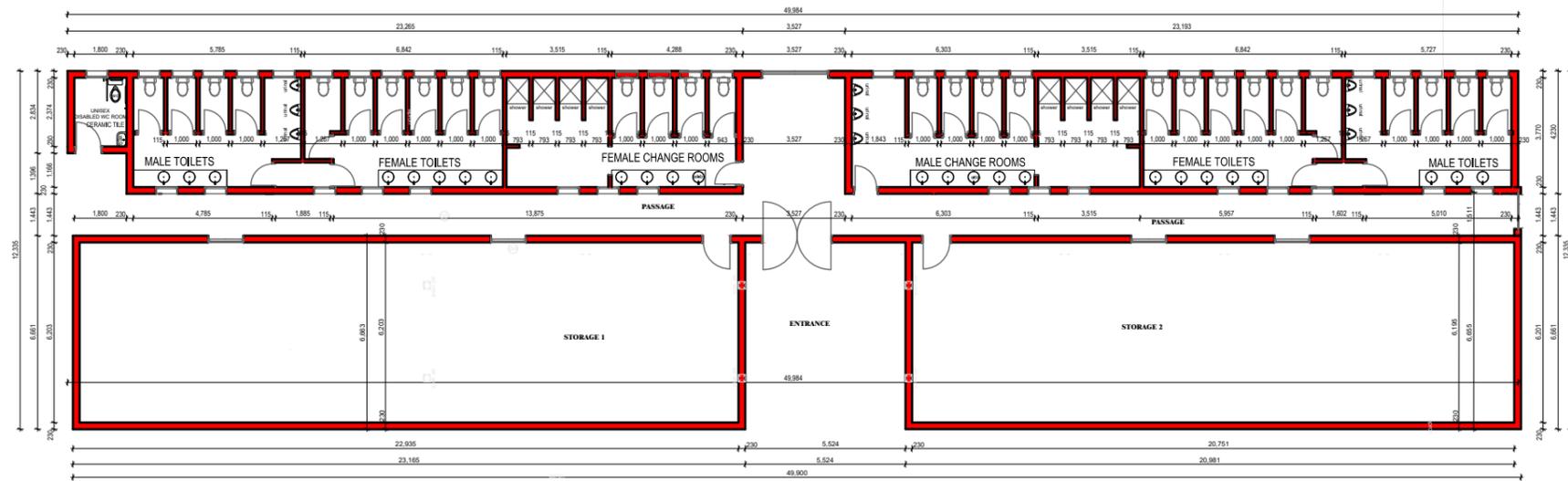
ENGINEER: _____ DATE: _____

DRAWING NO.: IPA/BPLM/NS/NB/DR15 VERSION: 00

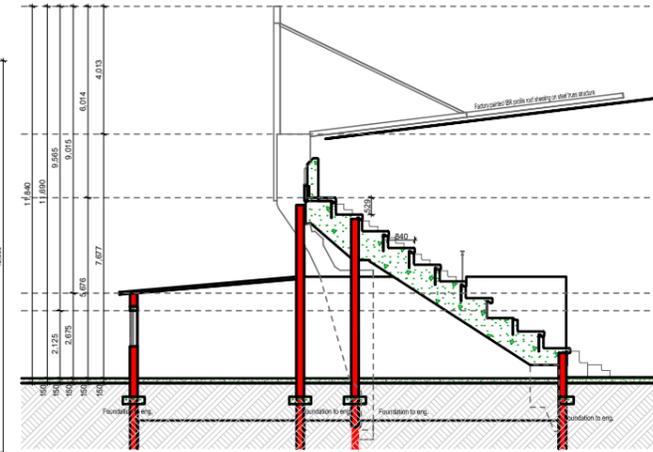
APPROVED: _____

CLIENT: _____ DATE: _____

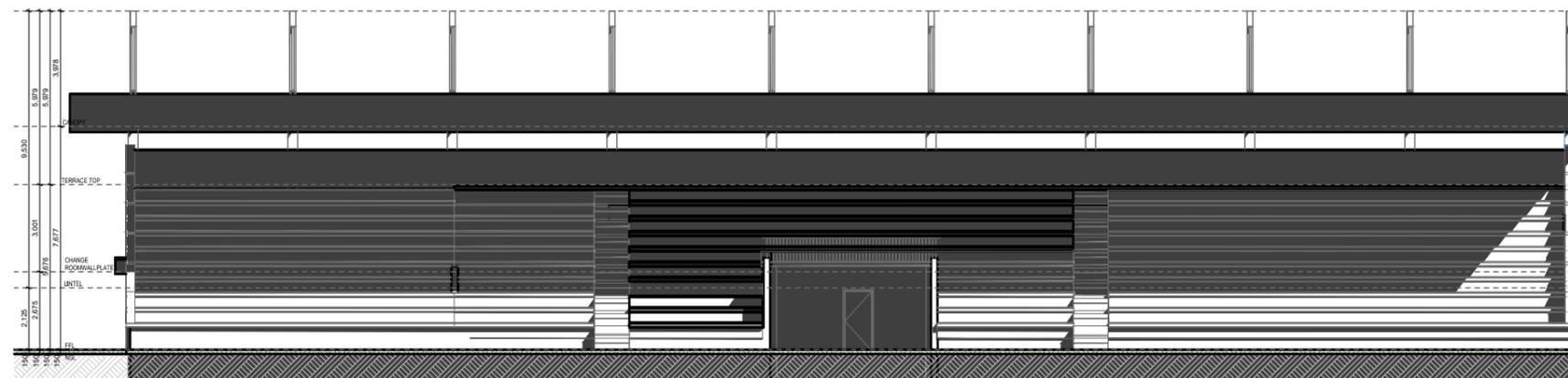
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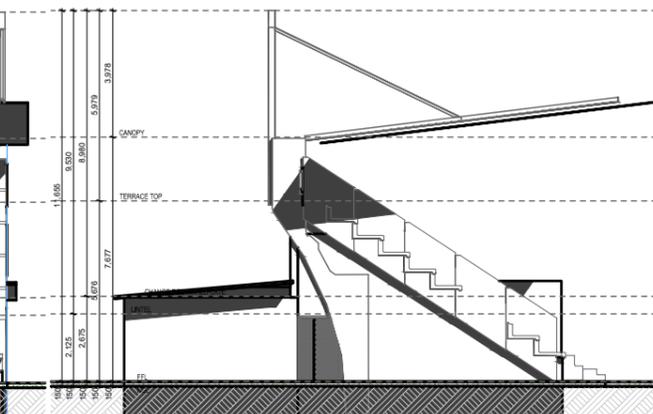
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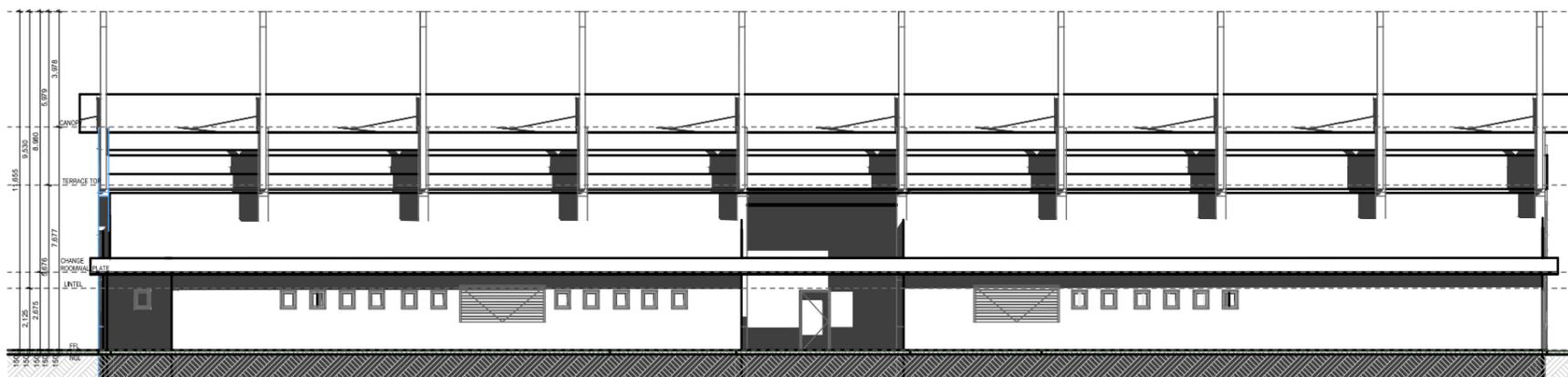
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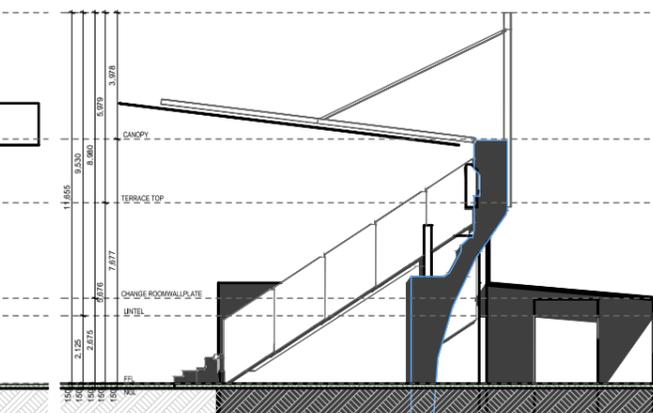
DUMMY_184 AC_DrawingName AC_DrawingScale



DUMMY_184 AC_DrawingName AC_DrawingScale



DUMMY_184 AC_DrawingName AC_DrawingScale



DUMMY_184 AC_DrawingName AC_DrawingScale

- NOTES:**
- 1) WORKMANSHIP TO COMPLY WITH STANDARD SPECIFICATION OF MATERIALS AND METHODS TO BE USED - SABS 0400
 - 2) LIGHT SWITCH IN DISABLED TOILET TO BE AT 1200MM ABOVE FFL
 - 3) IF STEP OVER 900MM BUILD IN BALUSTRADE
 - 4) GULLEY POSITIONS TO BE DETERMINED AS PER SITE PRESCRIBED OVERALL DRAINAGE DESIGN
 - 5) 2 X COATS SEALANT ON ALL EXPOSED TRUSSES (SAND OFF ALL SABS & OTHER MARKINGS)
 - 6) 50MM MINERAL WOOL INSULATION TO BE INSTALLED WHERE THERE ARE CEILINGS. BUBBLE PLASTIC INSULATION WITH FOIL BACKING TO BE INSTALLED WITH WIRE SUPPORTS IN ALL AREAS THAT DO NOT HAVE CEILINGS
 - 7) WEST FACING FACADES TO HAVE STANDARDISED ALUMINIUM LOUVRES FROM BELOW EAVES TO DROP OF 1200MM
 - 8) TRUSSES TO BE DESIGNED IN ACCORDANCE WITH SABS0400 & APPROVED BY PROJECT ENGINEERS

FOR TENDER PURPOSES ONLY

CERTIFIED AS-BUILT FOR CONTRACT:

ENGINEER: _____ DATE: _____

VERSION/ AMENDMENTS			
NO.	DATE	CERTIFIED BY	AUTHORISED BY

CLIENT



BA-PHALABORWA LOCAL MUNICIPALITY
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CONSULTANT



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PROJECT TITLE

REFURBISHMENT OF NAMAKGALE STADIUM

DRAWING TITLE

GRAND STAND

DATE: MARCH 2020

SCALE ON A1: 1:250

SURVEYED	DESIGNED	CO-ORDINATE SYSTEM
DRAWN	CHECKED	

APPROVED ON BEHALF OF INFRA-PROJECTS AFRICA:

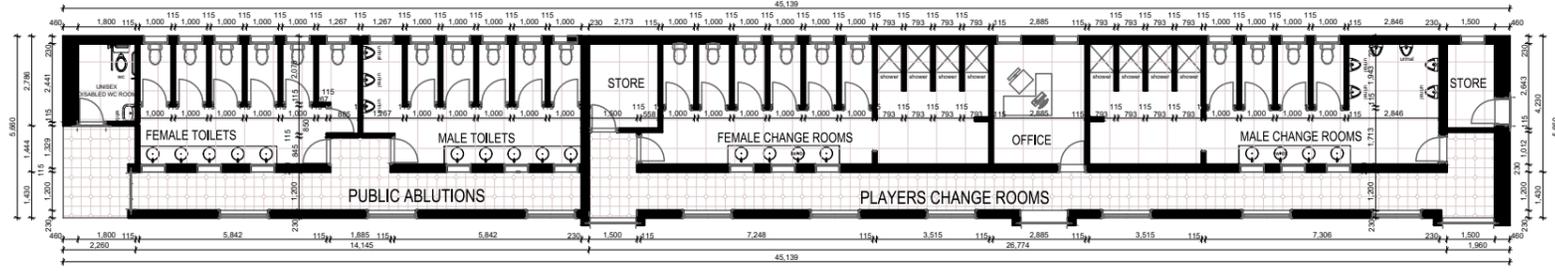
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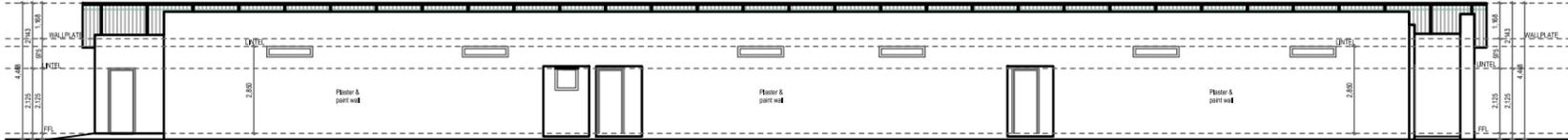
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CLIENT: _____ DATE: _____

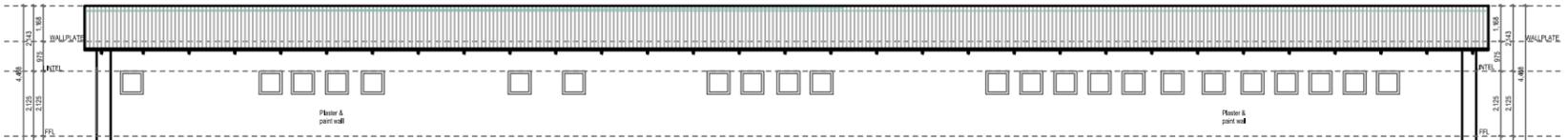
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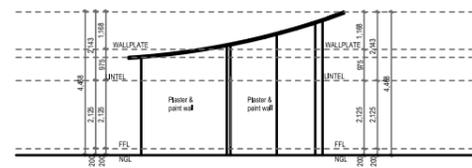
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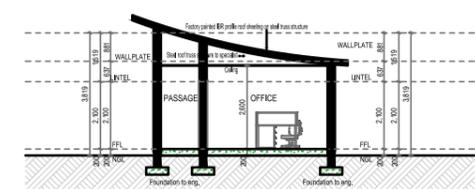
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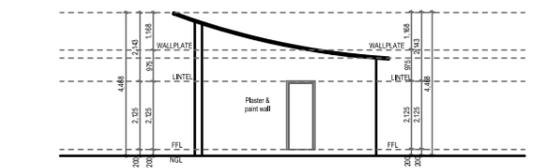
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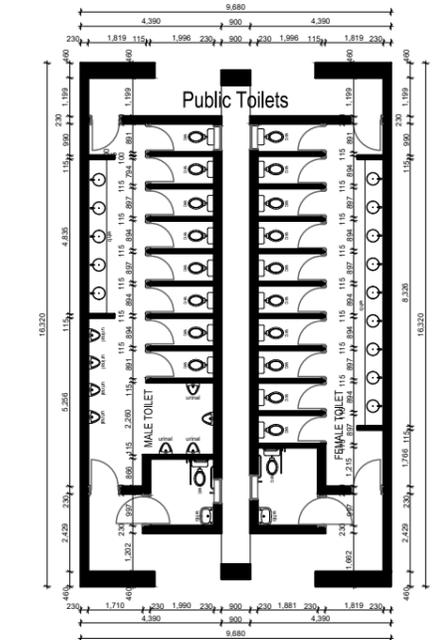
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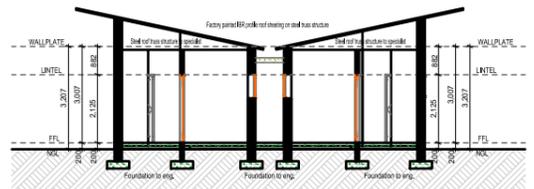
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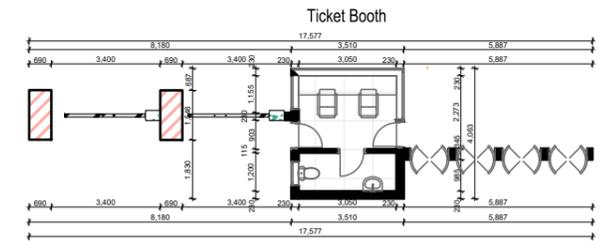
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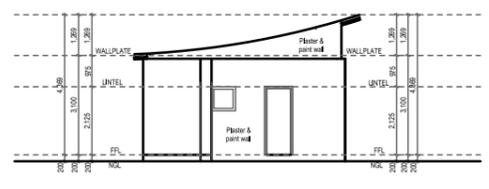
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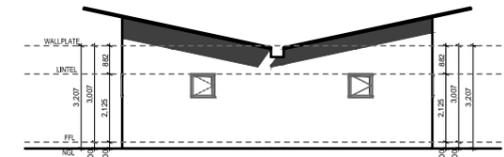
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DUMMY_184 AC_DrawingName AC_DrawingScale



DUMMY_184 AC_DrawingName AC_DrawingScale



DUMMY_184 AC_DrawingName AC_DrawingScale



DUMMY_184 AC_DrawingName AC_DrawingScale

- NOTES:**
- 1) WORKMANSHIP TO COMPLY WITH STANDARD SPECIFICATION OF MATERIALS AND METHODS TO BE USED - SABS 0400
 - 2) LIGHT SWITCH IN DISABLED TOILET TO BE AT 1200MM ABOVE FFL
 - 3) IF STEP OVER 900MM BUILD IN BALUSTRADE
 - 4) GULLEY POSITIONS TO BE DETERMINED AS PER SITE PRESCRIBED OVERALL DRAINAGE DESIGN
 - 5) 2 X COATS SEALANT ON ALL EXPOSED TRUSSES (SAND OFF ALL SABS & OTHER MARKINGS)
 - 6) 50MM MINERAL WOOL INSULATION TO BE INSTALLED WHERE THERE ARE CEILINGS. BUBBLE PLASTIC INSULATION WITH FOIL BACKING TO BE INSTALLED WITH WIRE SUPPORTS IN ALL AREAS THAT DO NOT HAVE CEILINGS
 - 7) WEST FACING FACADES TO HAVE STANDARDISED ALUMINIUM LOUVRES FROM BELOW EAVES TO DROP OF 1200MM
 - 8) TRUSSES TO BE DESIGNED IN ACCORDANCE WITH SABS0400 & APPROVED BY PROJECT ENGINEERS

FOR TENDER
PURPOSES ONLY

CERTIFIED AS-BUILT FOR CONTRACT:

ENGINEER	DATE		
VERSION/ AMENDMENTS			
NO.	DATE	CERTIFIED BY	AUTHORISED BY

CLIENT



BA-PHALABORWA
LOCAL MUNICIPALITY
PRIVATE BAG X 01020
PHALABORWA
1390
TEL. 015 780 6300
FAX. 015 781 0728

CONSULTANT

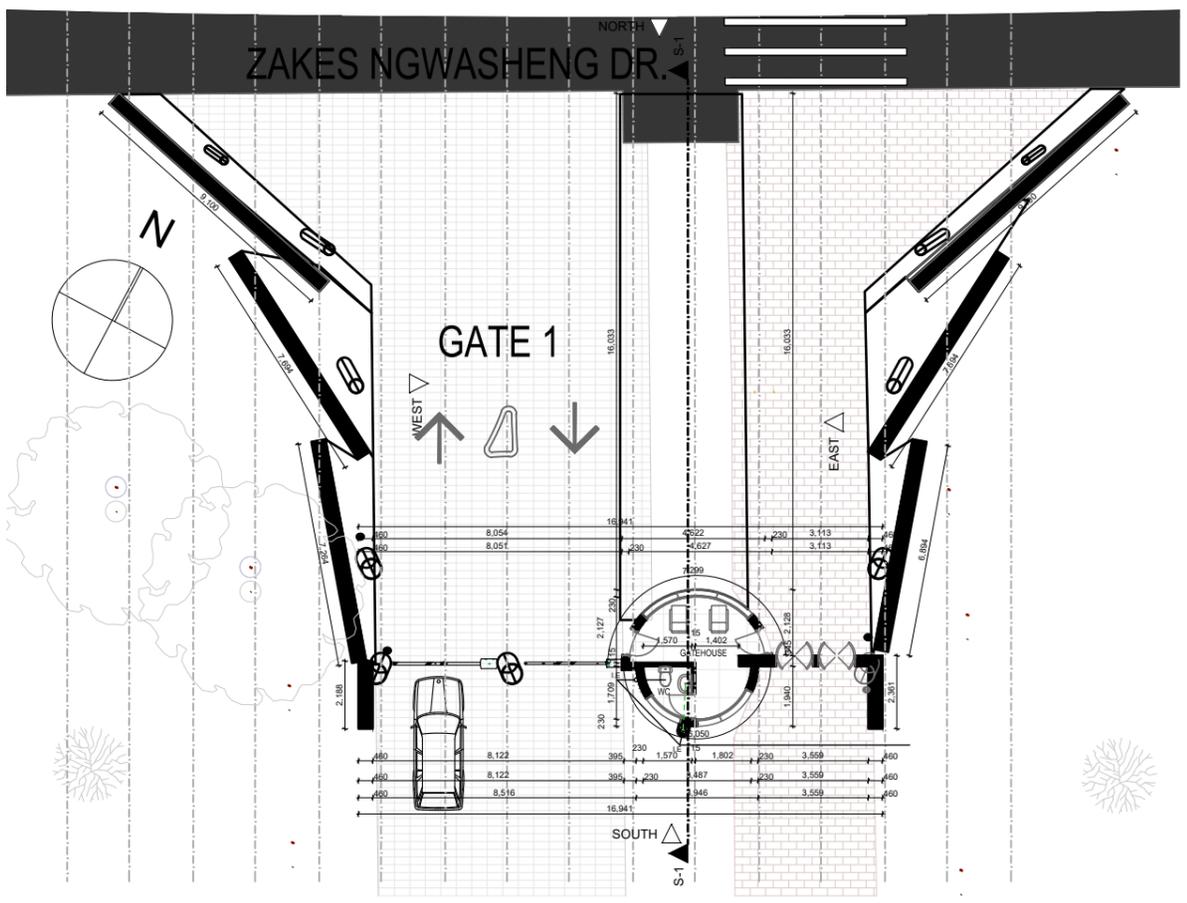


INFRA PROJECTS AFRICA
SUIT NO.2 SUID PARK
126B SUID STREET
POLOKWANE
0699
TEL. 015 291 2040

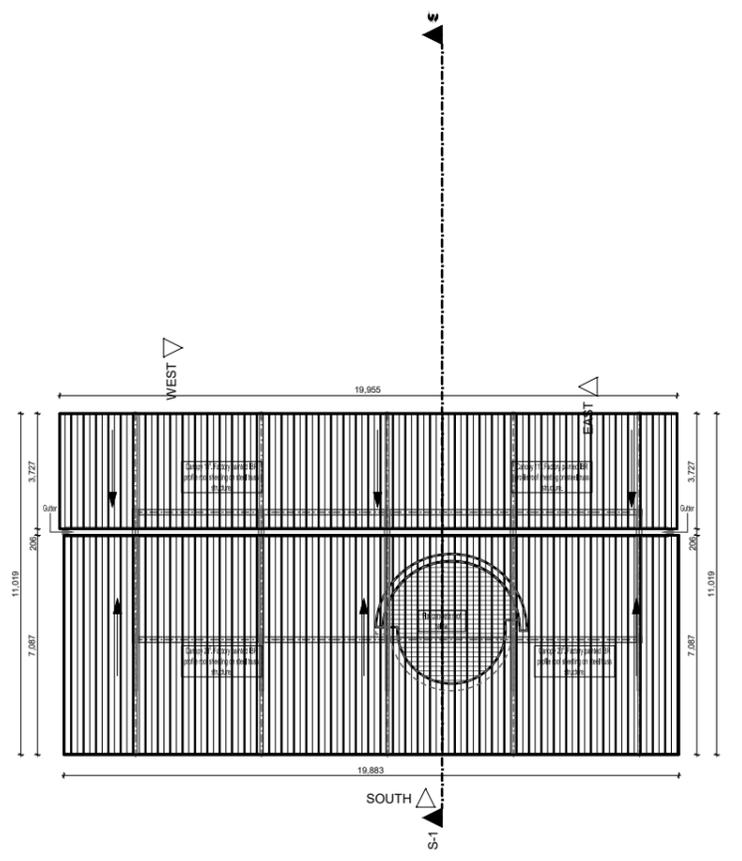
PROJECT TITLE
REFURBISHMENT OF NAMAKGALE STADIUM

DRAWING TITLE
CHANGE ROOMS & TICKET BOOTH

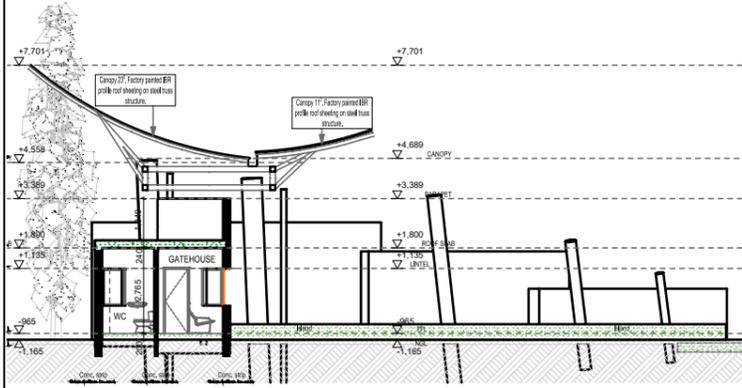
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SURVEYED	DESIGNED
DRAWN	CHECKED
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ENGINEER: _____	DATE: _____
DRAWING NO. IPA/BPLM/NS/ARC/DR18	VERSION 00
APPROVED:	
CLIENT: _____	DATE: _____
CLIENT:	CLIENT:
DRAWING NO.:	DRAWING NO.:



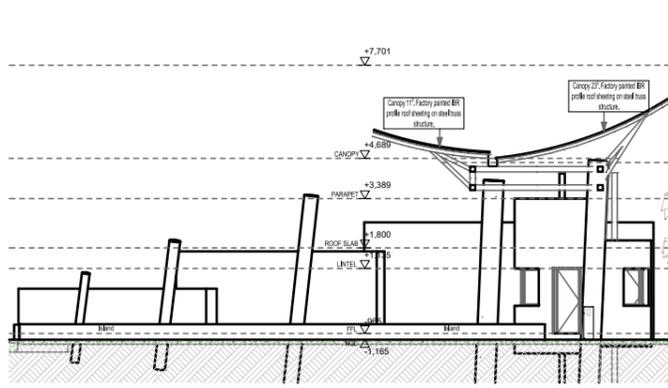
1 FLOOR PLAN 1:100



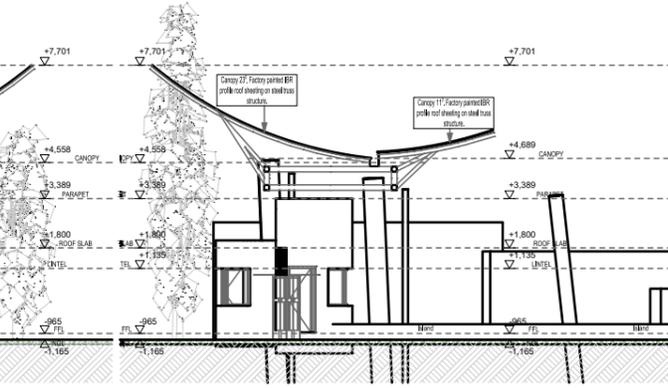
2 ROOF PLAN 1:100



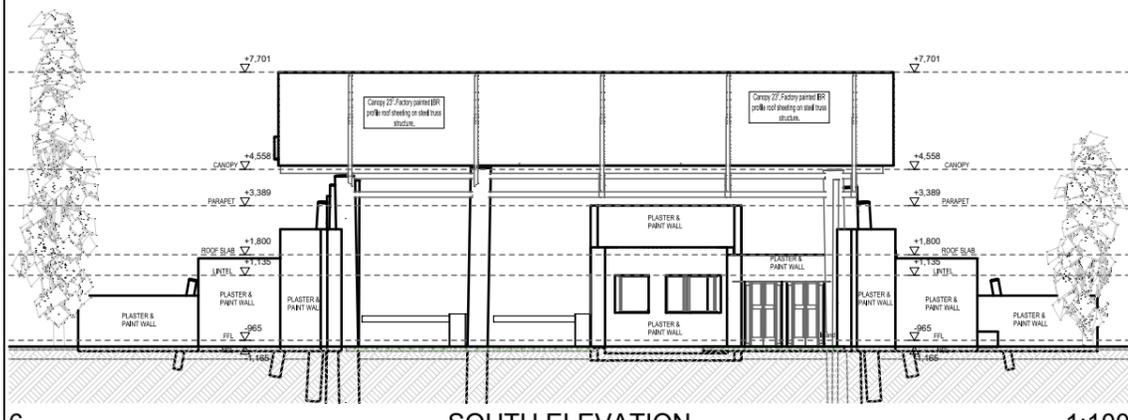
3 BUILDING SECTION S-1 1:100



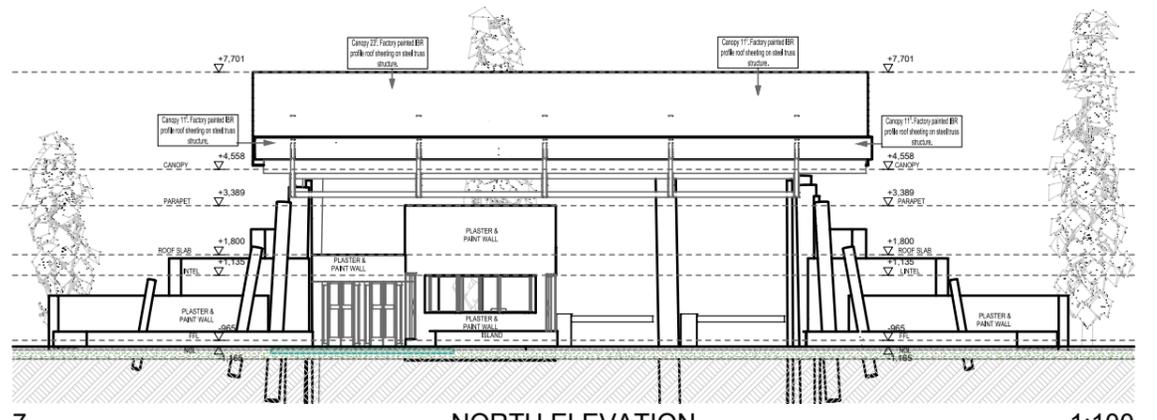
4 WEST ELEVATION 1:100



5 EAST ELEVATION 1:100



6 SOUTH ELEVATION 1:100



7 NORTH ELEVATION 1:100

- NOTES:**
- 1) Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400
 - 2) Light Switch in Disabled toilet to be at 1200mm above FFL
 - 3) If Step over 900mm Build in Balustrade
 - 4) Gully positions to be determined as per site prescribed overall drainage design
 - 5) 2 x coats sealant on all exposed trusses (sand off all SABS & other markings)
 - 6) 50mm mineral wool insulation to be installed where there are ceilings. Bubble plastic insulation with foil backing to be installed with wire supports in all areas that do not have ceilings
 - 7) West Facing Facades to have standardised aluminium louvres from below eaves to drop of 1200mm
 - 8) Trusses to be designed in accordance with SABS0400 & approved by Project Engineers

FOR TENDER PURPOSES ONLY

CERTIFIED AS-BUILT FOR CONTRACT:

ENGINEER: _____ DATE: _____

VERSION/ AMENDMENTS

NO.	DATE:	CERTIFIED BY	AUTHORISED BY:

CLIENT



BA-PHALABORWA
LOCAL MUNICIPALITY
PRIVATE BAG X 01020
PHALABORWA
1390
TEL. 015 780 6300
FAX. 015 781 0728

CONSULTANT



INFRA PROJECTS AFRICA
SUITE NO.2 SUID PARK
126B SUID STREET
POLOKWANE
0699
TEL. 015 291 2040

PROJECT TITLE

REFURBISHMENT OF NAMAKGALE STADIUM

DRAWING TITLE

GATE ONE

DATE: MARCH 2020

SCALE ON A1	1:250	COORDINATE SYSTEM
SURVEYED	DESIGNED	CHECKED
DRAWN	CHECKED	

APPROVED ON BEHALF OF INFRA-PROJECTS AFRICA:

ENGINEER: _____ DATE: _____

DRAWING NO: IPA/BPLM/NS/ARC/DR19 VERSION: 00

APPROVED: _____

CLIENT: _____ DATE: _____

CLIENT: _____

DRAWING NO.: _____

CONCRETE

C1. MATERIALS AND MIX PROPORTIONS:

- 1.1 THE GRADES FOR CONCRETE, UNLESS OTHERWISE INDICATED SHALL BE AS FOLLOWS:
- a) COLUMNSCLASS 30/19.....30MPa AT 28 DAYS UNLESS OTHERWISE NOTED.
 - b) BASESCLASS 25/19.....25MPa AT 28 DAYS.
 - c) STRIP FOOTINGSCLASS 20/19.....20MPa AT 28 DAYS.
 - d) STRUCTURAL SLABSCLASS 25/19.25MPa AT 28 DAYS. UNLESS OTHERWISE NOTED
 - e) BLINDING LAYERSCLASS 15/19.15MPa AT 28 DAYS.
 - f) BEAMSCLASS 25/19.....25MPa AT 28 DAYS.
- 1.2 WHEN READY MIXED CONCRETE IS USED, TEST CUBES ARE TO BE TAKEN ON SITE WHILST CASTING.

C2. CONCRETE COVER OVER REINFORCEMENT UNLESS SHOWN DIFFERENTLY:

- a) SLABS AND BEAMS: 25mm OR THE BAR DIAMETER, WHICH EVER IS THE GREATER
- b) COLUMNS: 30mm COVER TO MAIN REINFORCEMENT. 25mm MINIMUM COVER TO STIRRUPS
- c) FOUNDATIONSBOTTOM 50mm
- d) WALLS:30mm

C3. CASTING OF CONCRETE IN EXCESS OF 3.5m HIGH IS NOT PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.

C4. REINFORCEMENT SHALL BE INSPECTED BY THE ENGINEER ONLY AFTER IT HAS BEEN COMPLETELY FIXED IN POSITION, FORMWORK IS CLEAN, SPACERS ARE PLACED IN POSITION, AND AFTER THE CONTRACTOR HAS INSPECTED IT HIMSELF.

C5. WELDING OF REINFORCEMENT IS NOT ALLOWED UNLESS IT HAS BEEN APPROVED BY THE ENGINEER IN WRITING.

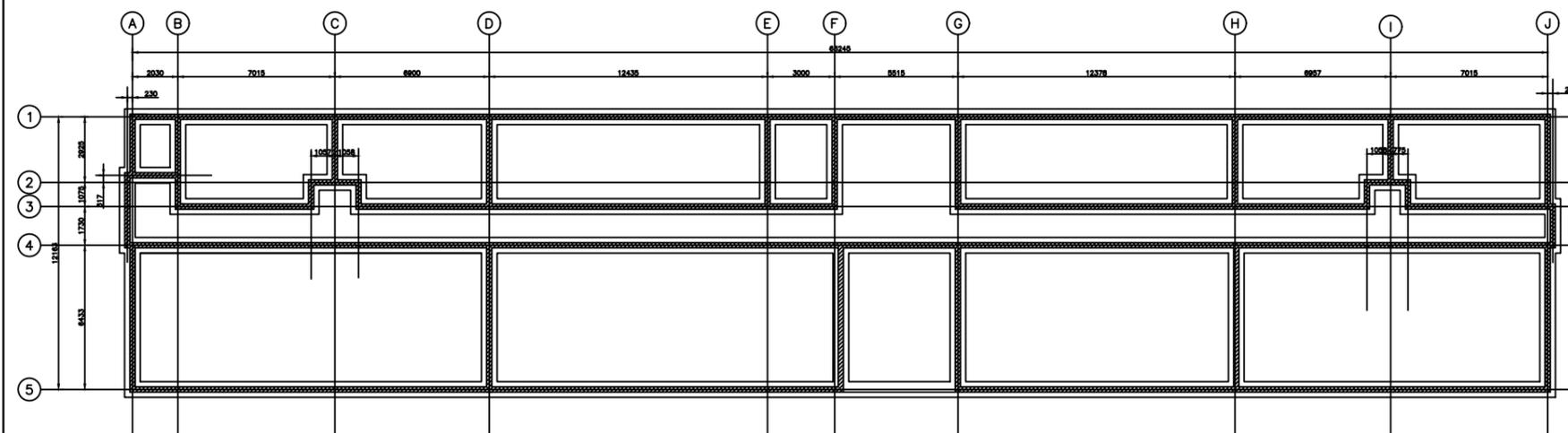
C6. CONSTRUCTION JOINTS IN SUSPENDED SLABS/BEAMS: BEFORE COMMENCING TO CAST NEW CONCRETE (AS INDICATED BY 1) SHALL BE CLEANED AND CHIPPED TO EXPOSE THE AGGREGATE AND SHALL BE KEPT WET FOR 2 HOURS BEFORE CASTING. THE OLD CONCRETE MUST BE SLUSHED WITH CEMENT BEFORE CASTING.

C7. 50mm BLINDING LAYER IS TO BE PROVIDED UNDER ALL BASES UNLESS INDICATED OTHERWISE (CLASS 15/19 CONCRETE).

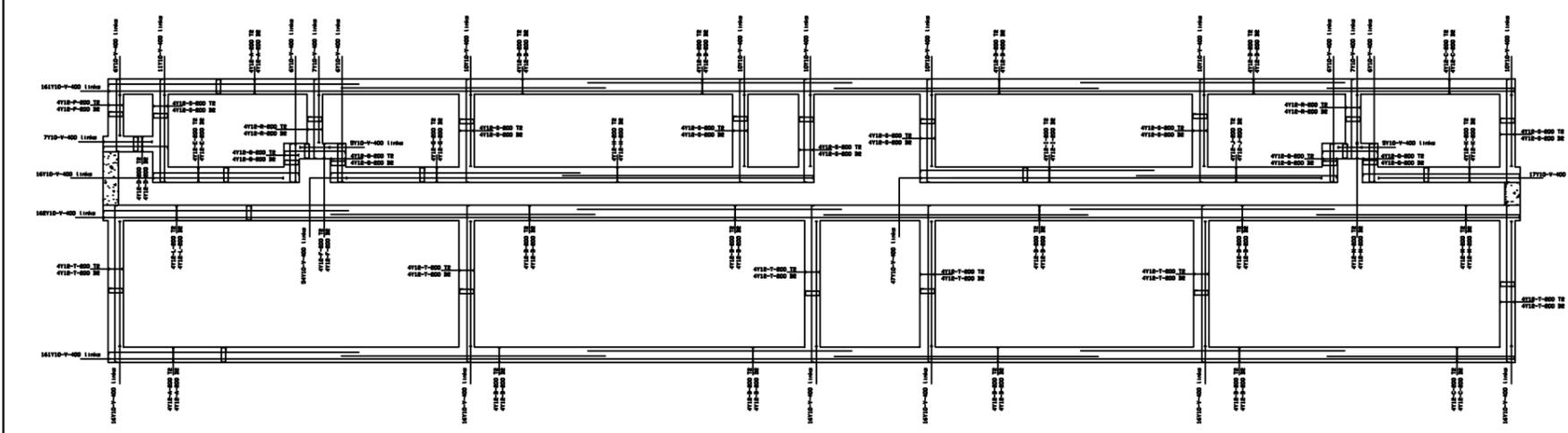
C8. CONSTRUCTION JOINTS:

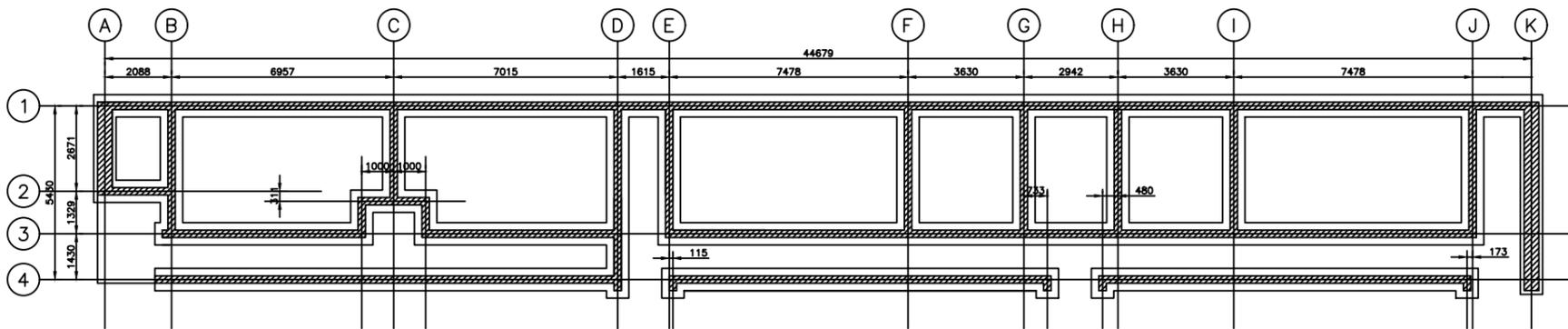
- 8.1 NO HORIZONTAL JOINTS SHALL BE ALLOWED IN BASES, OR OTHER DEEP ELEMENTS.
- 8.2 CONSTRUCTION JOINTS ARE TO BE FORMED ACCORDING TO SPECIFICATIONS.
- 8.3 ALL PIPES THROUGH JOINTS, SHALL BE PROVIDED WITH AN EXPANSION JOINT OR FLEXIBLE COUPLING - THIS INCLUDES ALL CABLE SLEEVES, CONDUITS AND PIPES.
- 8.4 NO VERTICAL CONSTRUCTION JOINTS SHALL BE MADE IN ELEMENTS DIRECTLY EXPOSED TO THE WEATHER EXCEPT WHERE INDICATED OTHERWISE.

- 1 SUBGRADE - UNIFORMLY COMPACTED TO ACHIEVE 90% MOD AASHTO AND FREE FROM VEGETATION AND ORGANIC MATTER.
 - 2 SUBBASE - LAYER 1- 150mm WELL GRADED INERT GRANULAR MATERIAL COMPACTED TO MINIMUM 93% MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT.
 - 3 SUBBASE - LAYER 1-150mm WELL GRADED INERT GRANULAR MATERIAL COMPACTED TO MINIMUM 93% MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT.
 - 4 DPM MEMBRANE POLYTHENE 1x250 Microns DAMP PROOF MEMBRANE
 - 5 SLAB 125mm THICK CONCRETE SLAB IN GRADE 25 CONCRETE (MINIMUM CEMENT 325kg/m³).
 - 6 FABRIC REINFORCEMENT STRUCTURAL MESH FABRIC (Ref S193) SET 25mm BELOW TOP SURFACE. MESH TO BE SUPPORTED ON CHAIRS AT 1m CENTRES
 - 7 FINISH: FLOOR FINISH TO ARCHITECTS DETAIL.
- NB: ISOLATION JOINT TO BE PROVIDED ALONG EDGES EDGES OF ALL BRICKWALLS AND SEALED.

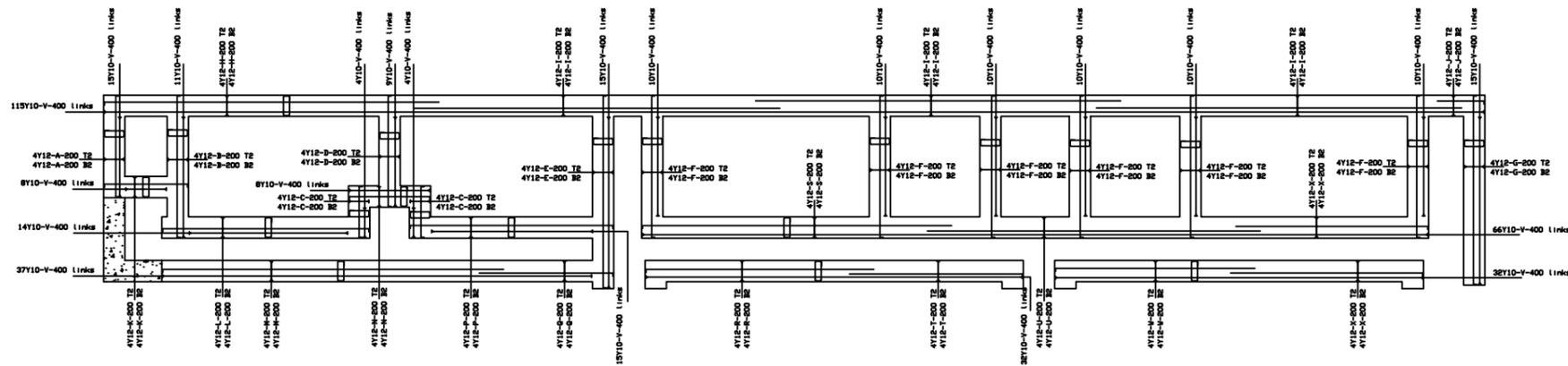


GRAND STAND FOUNDATION LAYOUT





CHANGE ROOMS FOUNDATION LAYOUT



CHANGE ROOMS FOUNDATION REINFORCEMENT LAYOUT

CONCRETE

- C1. MATERIALS AND MIX PROPORTIONS:
 1.1 THE GRADES FOR CONCRETE, UNLESS OTHERWISE INDICATED SHALL BE AS FOLLOWS:
 a) COLUMNSCLASS 30/19.....30MPa AT 28 DAYS UNLESS OTHERWISE NOTED.
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 d) STRUCTURAL SLABSCLASS 25/19.....25MPa AT 28 DAYS. UNLESS OTHERWISE NOTED.
 e) BLINDING LAYERSCLASS 15/19.....15MPa AT 28 DAYS.
 f) BEAMSCLASS 25/19.....25MPa AT 28 DAYS.
 1.2 WHEN READY MIXED CONCRETE IS USED, TEST CUBES ARE TO BE TAKEN ON SITE WHILST CASTING.
- C2. CONCRETE COVER OVER REINFORCEMENT UNLESS SHOWN DIFFERENTLY:
 a) SLABS AND BEAMS: 25mm OR THE BAR DIAMETER, WHICH EVER IS THE GREATER
 b) COLUMNS: 30mm COVER TO MAIN REINFORCEMENT. 25mm MINIMUM COVER TO STIRRUPS
 c) FOUNDATIONSBOTTOM 50mm
 d) WALLS:30mm
- C3. CASTING OF CONCRETE IN EXCESS OF 3.5m HIGH IS NOT PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- C4. REINFORCEMENT SHALL BE INSPECTED BY THE ENGINEER ONLY AFTER IT HAS BEEN COMPLETELY FIXED IN POSITION, FORMWORK IS CLEAN, SPACERS ARE PLACED IN POSITION, AND AFTER THE CONTRACTOR HAS INSPECTED IT HIMSELF.
- C5. WELDING OF REINFORCEMENT IS NOT ALLOWED UNLESS IT HAS BEEN APPROVED BY THE ENGINEER IN WRITING.
- C6. CONSTRUCTION JOINTS IN SUSPENDED SLABS/BEAMS: BEFORE COMMENCING TO CAST NEW CONCRETE (AS INDICATED BY 1) SHALL BE CLEANED AND CHIPPED TO EXPOSE THE AGGREGATE AND SHALL BE KEPT WET FOR 2 HOURS BEFORE CASTING. THE OLD CONCRETE MUST BE SLUSHED WITH CEMENT BEFORE CASTING.
- C7. 50mm BLINDING LAYER IS TO BE PROVIDED UNDER ALL BASES UNLESS INDICATED OTHERWISE (CLASS 15/19 CONCRETE).
- C8. CONSTRUCTION JOINTS:
 8.1 NO HORIZONTAL JOINTS SHALL BE ALLOWED IN BASES, OR OTHER DEEP ELEMENTS.
 8.2 CONSTRUCTION JOINTS ARE TO BE FORMED ACCORDING TO SPECIFICATIONS.
 8.3 ALL PIPES THROUGH JOINTS, SHALL BE PROVIDED WITH AN EXPANSION JOINT OR FLEXIBLE COUPLING - THIS INCLUDES ALL CABLE SLEEVES, CONDUITS AND PIPES.
 8.4 NO VERTICAL CONSTRUCTION JOINTS SHALL BE MADE IN ELEMENTS DIRECTLY EXPOSED TO THE WEATHER EXCEPT WHERE INDICATED OTHERWISE.
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 2 SUBBASE - LAYER 1- 150mm WELL GRADED INERT GRANULAR MATERIAL COMPACTED TO MINIMUM 93% MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT.
 3 SUBBASE - LAYER 1-150mm WELL GRADED INERT GRANULAR MATERIAL COMPACTED TO MINIMUM 93% MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT.
 4 DPM MEMBRANE POLYTHENE 1x250 Microns DAMP PROOF MEMBRANE
 5 SLAB 125mm THICK CONCRETE SLAB IN GRADE 25 CONCRETE (MINIMUM CEMENT 325kg/m³).
 6 FABRIC REINFORCEMENT STRUCTURAL MESH FABRIC (Ref S193) SET 25mm BELOW TOP SURFACE. MESH TO BE SUPPORTED ON CHAIRS AT 1m CENTRES
 7 FINISH FLOOR FINISH TO ARCHITECTS DETAIL
- NB: ISOLATION JOINT TO BE PROVIDED ALONG EDGES EDGES OF ALL BRICKWALLS AND SEALED.

FOR TENDER PURPOSES ONLY

CERTIFIED AS-BUILT FOR CONTRACT:			
ENGINEER		DATE:	
VERSION/ AMENDMENTS			
NO.	DATE:	CERTIFIED BY:	AUTHORISED BY:

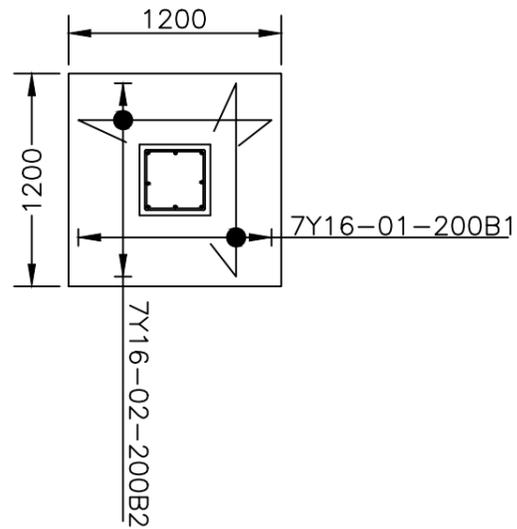
CLIENT	BA-PHALABORWA LOCAL MUNICIPALITY PRIVATE BAG X 01020 PHALABORWA 1390 TEL: 015 780 6300 FAX: 015 781 0728
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CONSULTANT	INFRA PROJECTS AFRICA SUIT NO.2 SUID PARK 1268 SUID STREET POLOKWANE 0699 TEL: 015 291 2040
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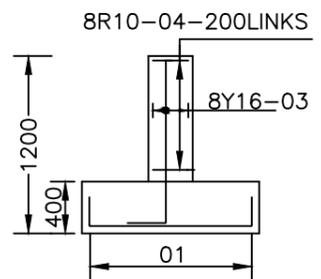
PROJECT TITLE	REFURBISHMENT OF NAMAKGALE STADIUM
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DRAWING TITLE	CHANGEROOM FOUNDATION AND REINFORCEMENT LAYOUT
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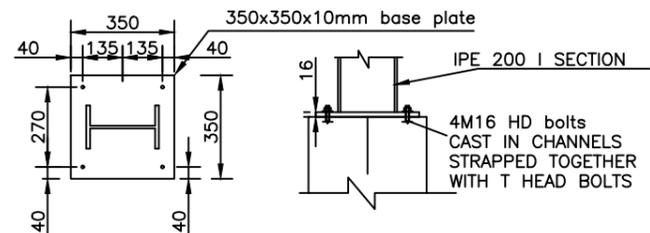
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ENGINEER:		DATE:	
DRAWING NO:	IPA/BPLMNS/SDD/DR21/3	VERSION	00
APPROVED:			
CLIENT:		DATE:	
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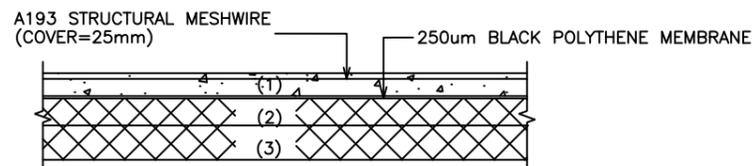
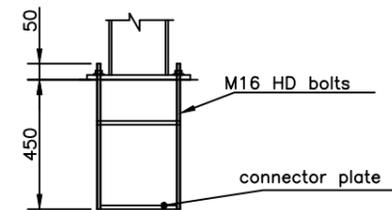
**BASE B1 1200x1200
x400mm DEEP**
10 Nos.



**STUB COLUMN C1
400x400mm**
10 Nos.

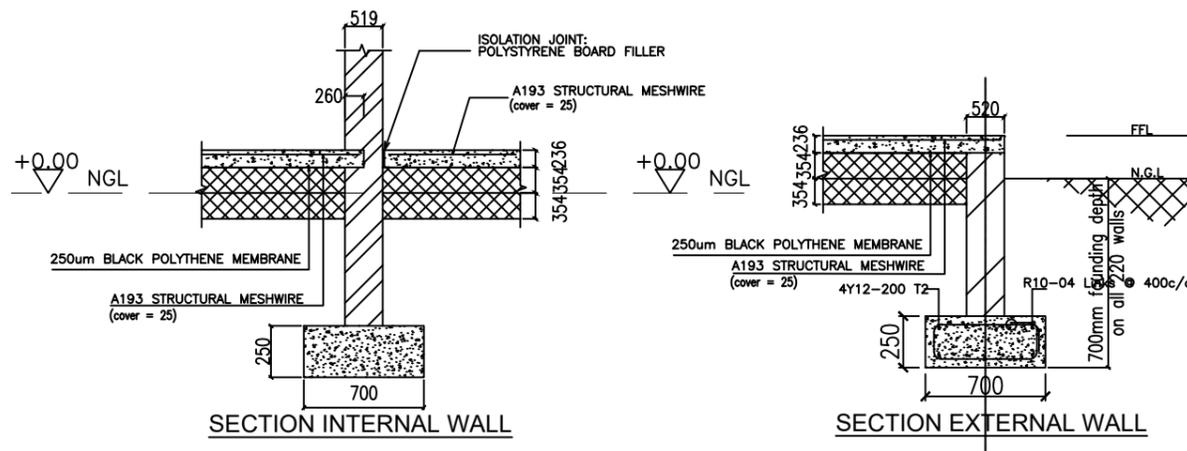


BASE PLATE DETAILS



- 1- 100mm THK FLOATING SLAB
- 2- 150mm IMPORTED INERT GRANULAR MATERIAL COMPACTED TO 95% ModASHTO
- 3- SUBGRADE COMPACTED TO 89% ModASHTO

SLAB PREPARATION



STANDARD DRAWINGS

FOR TENDER
PURPOSES ONLY

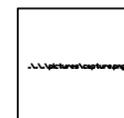
CERTIFIED AS-BUILT FOR CONTRACT:

ENGINEER: _____ DATE: _____

VERSION/ AMENDMENTS

NO.	DATE	CERTIFIED BY	AUTHORISED BY

CLIENT



BA-PHALABORWA
LOCAL MUNICIPALITY
PRIVATE BAG X 01020
PHALABORWA
1390
TEL. 015 780 6300
FAX. 015 781 0728

CONSULTANT



INFRA PROJECTS AFRICA
SUITE NO.2 SUID PARK
126B SUID STREET
POLOKWANE
0699
TEL. 015 291 2040

PROJECT TITLE

REFURBISHMENT OF NAMAKGALE STADIUM

DRAWING TITLE

STANDARD DRAWINGS

DATE

APRIL 2020

SCALE OR A1

1:250

CO-ORDINATE

SYSTEM

SURVEYED

DESIGNED

DRAWN

CHECKED

APPROVED ON BEHALF OF INFRA-PROJECTS AFRICA:

ENGINEER

DATE

DRAWING NO.

IPA/BPLMNS/SDD/DR21/8

VERSION

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APPROVED:

CLIENT

DATE

CLIENT

CLIENT

DRAWING NO.:

DRAWING NO.: