AGREEMENTS AND CONTRACT DATA

ADDITIONAL CLAUSES

Form of Offer

The Form of Offer to be used shall be the Offer bound in this document, which is not necessarily the same as the attached to the published version of the General Conditions of Contract.

Form of Acceptance

The Form of Acceptance to be used shall be the Acceptance bound in this document, which is not necessarily the same as that attached to the published version of the General Conditions of Contract.

Pro forma- Performance Guarantee

The Performance Guarantee shall be in the form bound in this document, which is not necessarily the same as that attached to the published version of the General Conditions of Contract.

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DR NKOSAZANA DLAMINI ZUMA MUNICIPALITY CONTRACT No.: PWBS-B025/22/23 Construction of Artificial Turf Grass (Phase 2)

AGREEMENTS AND CONTRACT DATA

Compulsory Data

Clause 1.1.1.13: Defects Liability Period is 6 months

Clause 1.1.1.14: The time for achieving Practical Completion is 6 months.

DATA TO BE PROVIDED BY THE EMPLOYER

REF. CLAUSE No DATA BY EMPLOYER

Name of Employer: DR. NKOSAZANA DLAMINI ZUMA LOCAL MUNICIPALITY

Clause 1.1.1.15:

Clause 1.1.1.26: The Pricing Strategy is Fixed Contract.

Clause 1.2.1.2: Address of Employer:

Physical: Main Street Postal: P/Box 62

3263 Creighton 3263 Creighton

Telephone No: Fax No: (039) 833 1038 (039) 833 1179

Clause 1.1.1.16: Name of Engineer: MASAKHEKULUNGE PROJECT MANAGERS

Clause 1.2.1.2 Address of Engineer:

Physical: 18602 Marine Drive Postal: P O Box 464

Manaba 4275 Margate

E-mail: admin@masakhekulunge.co.za

Fax No: Telephone No: 039 312 0856 086 527 3071

Clause 5.3.1: are The documentation required before commencement with Works execution

- Health and Safety Plan (Refer to Clause 4.3)
- Initial programme (Refer to Clause 5.6)
- Security (Refer to Clause 6.2)
- Insurance (Refer to Clause 8.6)
- Clause 5.3.2: Works execution is 14 days The time to submit the documentation required before commencement with
- Clause 5.8.1: The non-working days are: Sundays

The special non- working days are:

201

All statutory holidays as declared by National/ Regional Government The year-end break commencing on 15th December and ending on 10th January of Next year.

AGREEMENTS AND CONTRACT DATA

Clause 5.13.1: The penalty for failing to complete the Works is R5 000 per calendar day until completion is reached

- Removal of plant from site without engineers consent R 2 000 per calendar
- calendar day Late payment of local labour by 30 days from date of payment - R 2 000 per
- Clause 5.16.3: The latent defect period is 10 years for civil engineering works
- Clause 6.10.1.5: The percentage advance on materials not yet built into the Permanent Works is 80%
- Clause 6.10.3: The retention money is 10% of the contract value. This retention will be released in two stages, i.e. at practical completion stage and after the defects liability period has lapsed. This emphasizes that the municipality will release 5% at the final claim.
- Included in the insurance sum is R 100 000.00 Clause 8.6.1.1.3: The amount to cover professional fees for repairing damage and loss to be

Clause 8.6.1.3: The limit of indemnity for liability insurance is R2 000 000.00

DATA TO BE PROVIDED BY CONTRACTOR

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EF. CLAUSE No	DATA BY CONTRACTOR
Clause 1.1.1.9:	Name of Contractor:
Clause1.2.1.2:	Address of Contractor:
	Physical: Postal:
	E-mail:
	Telephone No: Fax No:
4.6.3 Th	The variations in cost of special materials will be based on the following:
Sp	Special Material Unit Rate or Price
	*

AGREEMENTS AND CONTRACT DATA

C1.3: FORM OF GUARANTEE

C1.3.1: PERFORMANCE GUARANTEE

For use with the General Conditions of Contract for action Works n

- Constant Profession Contained to Contact for Contact of Profession Profession Edition 2010
GUARANTOR DETAILS AND DEFINITIONS
"Guarantor" means:
Physical address:
"Employer" means:
"Contractor" means:
"Engineer" means:
"Works" means:
"Site" means:
"Contract Sum" means: The accepted amount inclusive of tax of R
"Amount in words:
"Guaranteed Sum: means: The maximum aggregate amount of R of R
Amount in words:
"Expiry Date" means:

CONTRACT DETAILS

Engineer issues: Interim Payment Certificates, Final Payment Certificate and the Certificate Completion of the Works as defined in the Contract.

PERFORMANCE GUARANTEE

- The Guarantor's liability shall be limited to the amount of the Guaranteed Sum.
- Ņ the Engineer of the Certificate of Completion of the Works or the date of payment in full of the Guaranteed Sum, whichever occurs first. The Engineer and/or the Employer shall advise the Guarantor in writing of the date on which the Certification of Performance Guarantee and up to and including the Expiry Date or the date of issue by The Guarantor's period of liability shall be from and including the date of issue of this shall advise the Guarantor in writing of Completion of the Works has been issued.
- ယ The Guarantor hereby acknowledges that:
- ω any reference in this Performance Guarantee to the Contract is made for the purpose of convenience and shall not be construed as any intension whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship;

- 3.2 Its obligation under this Performance Guarantee is restricted to the payment of money
- 4. undertakes to pay the Employer the sum certified upon receipt of the documents identified Subject to the Guarantor's maximum liability referred to in 1, the Guarantor hereby
- 4.1 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 A copy of a first written demand issued by the Employer to the Contractor stating that terms of 4.2 payment of a sum certified by the Engineer in a n Interim or Final Payment Certificate
- 4.2 elapsed since the first written demand I terms of 4.1 and the sum certified has still not physical address with a copy to the Contract stating that a period of seven (7) days has A first written demand issued by the Employer to the Guarantor at the Guarantor's
- 4.3 payment in terms of the Contract of the sum certified in 4. A copy of the aforesaid payment certificate which entitles the Employer to receive
- Ġ a first written demand from the Employer to the Guarantor at the Guarantor's physical address calling up this Performance Guarantee, such demand stating that: pay to the Employer the Guaranteed Sum or the full outstanding balance upon receipt Subject to the Guarantor's maximum liability referred to in 1, The Guarantor undertakes to 9
- 5.1 Performance Guarantee is called up in terms of 5; or Contract has been terminated due Ö the Contractor's default and this
- 5.2 a provisional or final sequestration or liquidation court order has been granted Contractor and that the Performance Guarantee is called up in terms of 5; and against
- 5.3 and or the provisional/ final sequestration and/or the provisional liquidation court order. aforesaid written demand is accompanied by a copy of the notice of termination
- 0 It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 4 and 5 shall not exceed the Guarantor's maximum liability in
- 7. and shall refund to the Guarantor any resulting surplus. was made by the Guarantor to the Employer until the date of refund Guarantor in Employer's bank compounded monthly and calculated from the date payment how all monies received in terms of this Performance Guarantee issue of the Final Payment Certificate submit an expense account to the Guarantor showing Where the Guarantor has made payment in terms of 5, the Employer shall upon the date of All monies have been expended
- ∞ upon receipt of the first written demand to the Guarantor. Payment by the Guarantor in terms of 5 shall be made within seven (7) calendar days
- 9 original Performance Guarantee by the Employer. Payment by the Guarantor in terms of 5 will only be made against the return of the
- 0 The Employer shall have the absolute right to arrange his affairs with the Contractor in manner which the Employer may deem fit claim his release form this Performance and the Guarantor shall not have the Guarantee on account of any conduct

alleged to be prejudicial to the Guarantor.

- The Guarantor chooses the physical address as stated above for the service notices for all purposes in connection herewith. 으 <u>ല</u>
- 12 this Guarantee shall be returned to the Guarantor after it has expired. This Performance Guarantee is neither negotiable nor transferable and shall expired in terms of 2, where after no claims will be considered by the Guarantor. The original of
- 3 This Performance Guarantee, with the required demand notices in terms of 4 or 5, shall be regarded as liquid document for the purposes of obtaining a court order.
- 4. 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, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court. Where this Performance Guarantee is issued in the Republic of South African the

Signed at
Date
Guarantor's signatory (1)
Capacity
Guarantor's signatory (2)
Capacity
Witness signatory (1)
Witness signatory (2)

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DR NKOSAZANA DLAMINI ZUMA MUNICIPALITY
CONTRACT No.: PWBS-B025/22/23
Construction of Artificial Turf Grass (Phase 2)
C1.4: ADJUDICATOR'S CONTRACT

C1.4: ADJUDICATOR'S CONTRACT

C.1.4.1: DISCLOSURE STATEMENT
Contract
Contractor :
Employer :
Dear Sirs
I am willing available to serve as (ad-hoc/standing) Adjudication Board Member in the above-
mentioned Contract.
In accordance with the General Conditions of Contract for Construction Works
Adjudication Board Rules relating to disclosure statements by selected or nominated persons to the adjudication, I hereby state that:
I shall act with complete impartiality and know of nothing at this time, which could affect my
impartiality.
I have had no previous involvement with this project.
I do not have any financial interest in this project.
l am not currently employed by the contractor, Employer or Engineer.
I do not have any financial connections with the Contractor, Employer or Engineer.
I do not have or have not had a personal relationship with any authoritative, member of the
Contractor, Employer or the Engineer which could affect my impartiality.
I undertake to immediately disclose to the parties any changes in the above position which
could affect my impartiality or be perceived to affect same.
Should there be any deviation from foregoing statements, details shall be given.
I further declare that I am experienced in the work which is carried out under the Contract and
in interpreting contract documentation.
Name in full:
Signature:

C1.4.2: ADJUDICATION BOARD MEMBER AGREEMENT

This /	This Agreement is entered into between:
Adjud	Adjudication Board Member:
Contractor:	actor:
Employer	yer
The c	The contractor and the Employer will hereinafter be collectively referred to as the Parties.
The por in c	The parties entered into a contract for which provides that a dispute under or in connection with the General Condition of Contract for Construction Works, Second Edition 2010, must be referred to
The u Memb	The undersigned natural person has been appointed to serve as Adjudication Board Member and together with the undersigned Parties agree as follows:
	The Adjudication Board Member accepts to perform his duties in accordance with the terms of the Contract, the General Condition of Contract for Contraction Works Adjudication Board Rules and Agreement.
'n	The adjudicator undertakes to remain independent and impartial of the Contractor. Employer and Engineer for the duration of the Adjudication board proceedings.
ယ	The Adjudication Board Member agrees to serve for the duration of the Adjudication Board proceedings.
4.	The parties may at any time, without cause and with immediate effect, jointly terminate this Agreement.
Ċı	Unless the Parties agree, the Adjudication Board Member shall not act as arbitrator or representative of either Party in any subsequent proceedings between the Parties under the contract. No Party may call the Adjudication Board Members as a witness in any such subsequent proceedings.
<u></u> ق	The standing Adjudication Board's duties shall end upon the Adjudication Board Member(s) receiving notice from the Parties of their joint decision to disband the Adjudication Board.
7.	The Adjudication Board Member shall be paid in respect of time spend upon or in connection with the Adjudication including time spent travelling: a. A monthly retainer of for of months, and / or b. A daily fee of based on a hour day, and/or
	A non - recurrent accounted for in the f

AGREEMENTS AND CONTRACT DATA C.1.4: AGREEMENT WITH ADJUDICATOR

ထ The Adjudication Board Member's expenses incurred in adjudication work shall be reimbursed at cost

compounded monthly at the prime rate charged by the Adjudication Board Member's bank the Parties. Late payment of such invoice shall attract interest at prime plus 3% points by the other party by half the amount so that the fees and expenses are borne equally by shall pay the full amount within 28 days of receipt of the invoice and he shall be reimbursed Upon submission of an invoice for fees and expenses to the Parties, the

This Agreement is entered into by:
Contractor's signature:
Contractor's name:
Place:
Date:
Employer's signature:
Employer's name:
Place:
Date:
Adjudication Board Member's signature:
Adjudication Board Member's name:
Place:
Cale

*Delete the inapplicable part

C.1.5: OHS

AGREEMENTS AND CONTRACT DATA

AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCC OCCUPATIONAL HEALTH

THIS AGREEMENT is made between
(hereinafter called the EMPLOYER) of the one part, herein represented by:
in his capacity as:
AND:
(hereinafter called the CONTRACTOR) of the other part, herein represented
in his capacity as:

duly authorized to sign on behalf of the Contractor.

WHEREAS the CONTRACTOR is the Mandatory of the EMPLOYER in consequence of an agreement between the CONTRACTOR and the EMPLOYER in respect of

Grass (phase 2)In Ward 14, for the construction, completion and maintenance of the works; CONTRACT NO. Creighton Sports Centre; Construction of Artificial Turf

to as the ACT); Act No 85 of 1993, as amended by OHSA Amendment Act No 181/1993 (hereinafter referred agreement in terms of the provisions of Section 37(2) of the Occupational Health and Safety AND WHEREAS the EMPLOYER and the CONTRACTOR have agreed to enter into an

NOW THEREFORE the parties agree as follows:

- of the CONTRACTOR with all relevant provisions of the ACT and the regulations promulgated in terms thereof. The CONTRACTOR undertakes to acquaint the appropriate officials and employees
- N be observed and adhered to by the CONTRACTOR, his officials and employees. The CONTRACTOR undertakes to fully comply with all relevant duties, obligations and prohibitions imposed in terms of the ACT and Regulations: Provided that should the EMPLOYER have prescribed certain arrangements and procedures that same shall arrangements and procedures. CONTRACTOR shall bear the onus of acquainting himself/herself/itself with such
- လ The CONTRACTOR hereby accepts sole liability for such due compliance with the imposed by the ACT and Regulations, and the CONTRACTOR expressly absolves the duties, obligations, prohibitions, arrangements and procedures,

AGREEMENTS AND CONTRACT DATA

C.1.5: OHS

procedures in respect of the work included in the contract. comply with any of the aforesaid duties, obligations, prohibitions, arrangements and EMPLOYER and the Employer's CONSULTING ENGINEERS from being obliged to

- 4 paragraphs 1 and 2 above, which steps- may include, but shall not be limited to, the right to inspect any appropriate site or premises occupied by the CONTRACTOR, or to take such steps- it may deem necessary to remedy the default of the CONTRACTOR be entitled, although not obliged, to take such steps- as may be necessary to ensure that the CONTRACTOR has complied with his undertakings as more fully set out in at the cost of the CONTRACTOR. The CONTRACTOR agrees that any duly authorized officials of the EMPLOYER shall
- Ġ investigation, complaint or criminal charge agreement, and shall, investigation, complaint or criminal charge which may arise as a consequence of the provisions of the ACT and Regulations, pursuant to work performed in terms of this The CONTRACTOR shall be obliged to report forthwith to the EMPLOYER any on written demand, provide full details in writing of such

Thus signed at for and on behalf of the CONTRACTOR on this the day of
SIGNATURE:
NAME AND SURNAME:
CAPACITY
WITNESSES: 1.
2
Thus signed atday offor and on behalf of the EMPLOYER on this20
SIGNATURE:
NAME AND SURNAME:
CAPACITY:
WITNESSES: 1
2

C2: PRICING DATA

C2.1 PRICING INSTRUCTIONS

- _ Measurement and payment shall be in accordance with the relevant provisions of clause 8 of each of the SABS 1200 Standardized Specifications for Civil Engineering Construction referred to in the Scope of Work. The Preliminary and General items shall be measured in accordance with the provisions of SABS 1200-A, General
- Ņ Abbreviations used in these Bills of Quantities are as follows: The units of measurement described in the Bills of Quantities are metric units

W/day	~	sum	R/only	PC sum	Prov sum	No.	MPa	MN.m	Z Z	m³-km	m³	m²-pass	m²	mm	3	_	ΚW	Pa	km-pass	km	~	κο	ha	5	%
II	П	H	II	П	П	II	П	П	П	П	Н	II	П	H	П	II	11	11	II	II	11	II	H	II	II
Work day	ton (1000 kg)	lump sum	Rate only	Prime Cost sum	Provisional sum	number	megapascal	meganewton-metre	meganewton	cubic metre-kilometre	cubic metre	square metre-pass	square metre	millimetre	metre	litre	kilowatt	kilopascal	kilometre-pass	kilometre	kilolitre	kilogram	hectare	hour	percent

- ယ and no allowance is made for waste. Unless otherwise stated, items are measured net in accordance with the drawings
- 4. for additional work that may have to be carried out. the provisions of the Scope of Work, and shall cover the cost of all general risks, described under the items. liabilities, and obligations set forth or implied in the Contract Data, as well as overhead charges and profit. These prices will be used as a basis for assessment of payment may be required in and for the execution of the work described in accordance with The prices and rates in these Bills of Quantities are fully inclusive prices for the work described under the items. Such prices and rates cover all costs and expenses that
- S It will be assumed that prices included in these Bills of Quantities are based on Acts, www.stanza.org.za or www.iso.org for information on standards) that were published Ordinances, Regulations, By-laws, International Standards and National Standards 28 days before the closing date for tenders. (Refer to

- တ and included in the unit rates and sum amount tendered such items to be provided, all costs associated therewith are deemed to have been provided for Where the Scope of Work requires detailed drawings and designs or other information
- 7 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 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
- 00 Reasonable compensation will be received where no pay item appears in respect of work required in the Bills of Quantities in terms of the Contract and which is not covered in any other pay item.
- ဖွ The short descriptions of the items of payment given in these Bills of Quantities are only for the purposes of identifying the items. More details regarding the extent of the work entailed under each item appear in the Scope of Work
- 10. in the SABS 1200 Standardised Specifications. Descriptions in the Bills of Quantities are abbreviated and comply generally with those
- 1 (VAT) will be added last on the summary page of the Bill of Quantities All prices and rates entered in the Bill of Quantities must be excluding Value Add Tax
- 12 not over-ride any of the requirements in the generic labour-intensive specification in exhaustive list of all the activities, which must be done by hand, and this clause does the Scope of Works such works, other than plant specifically provided for in the scope of work, is a variation to the contract. The items marked with the letters LI are not necessarily an to be constructed using labour-intensive methods only. The use of plant to provide been marked in the Bills of Quantities with the letters LI in a separate column filled in against every item so designated. The works, or parts of the works so designated are Those parts of the contract to be constructed using labour-intensive methods have
- 3 so constructed will not be certified for payment. out work which was to be done labour-intensively will not be condoned and any works Payment for items which are designated to be constructed labour-intensively (either constructed using labour-intensive methods. Any unauthorised use of plant to carry in this schedule or in the Scope of Works) will not be made unless they are
- 7 dashed will also lead to the tenderer to be disqualified. failure to complete items on the bill of quantities and leaving items blank or added by the Tenderer will lead the Tenderer to be disqualified. Bracketing of rates, All items for which terminology such as "inclusive" or "not applicable" have been
- 5 Only a rand value, nil and zero will be considered in the bill of quantities

2.1 PRICING INSTRUCTION

PRICING DATA

C2.2 : BILLS OF QUANTITIES

SCOPE OF WORKS

C3: SCOPE OF WORK

C3.1 DESCRIPTION OF THE WORKS

C3.1.1 EMPLOYERS OBJECTIVES

The employer's objectives are to deliver public infrastructure using labour intensive methods.

C3.1.2 OVERVIEW OF THE WORKS

scope of work are: The scope of work will involve the formalization of an existing sports centre. Included on the

- Construction of (120m x 90m) marked soccer pitch complete with artificial grass, goal posts
- poles with nets and marking. Construction of (30m \times 17m) netball/ basketball combo court with asphalt topping including
- Borehole installation complete with accessories

C3.1.2.1 Extent of the Works

The extent of work involved the followings:

- a) Site clearance and bulk earthworks
- 9 Grassed Field (120m x 90m) with poles with nets including marking
- c) Combo-court (30 x 17m)
- d) Borehole installation

Recommended by

Mr. S.V. Mngadi

Senior Manager: Public Works and Basic Services

Approved by

Mr. N.C. Vezi Municipal Manager

C3.1.2.2 Location of the Works

Donnybrook which is 38km. It has the following description: Ward 14, at Creighton village in KwaZulu Natal Province which is approximately 47km from Dr. The Creighton Sports Centre is situated in Dr. Nkosazana Dlamini Zuma Local Municipality, Nkosazana Dlamini Zuma Municipal offices in Creighton. The closest town to the project is

		- John	
		1.5km	Centre (phase 2)
29° 50 20.90"	30° 02' 03,71" S	Creighton: Approximately	Creighton Sports
longitude	Latitude	Nearest town	Project name

SCOPE OF WORKS

C3.1.3 Labour Intensive Construction

constructed using local workers who are temporarily employed in terms of this Scope of Work. which are to be performed by hand, and its associated specification data. Such works shall be Labour-intensive works comprise the activities described in SANS 1921-5, Earthworks activities

of labour for equipment. by the Specifications with completion by the Due Completion Date, thus the effective substitution portion of labour as is technically feasible to produce a standard of construction as demanded Labour Intensive Construction shall mean the economically efficient employment of as great a

Intensive Construction methods. Appropriate portions of the Works included in the Contract shall be executed using Labour

these Project Specifications to be constructed using Labour Intensive Construction methods and equipment in the construction of those portion(s) of the Works that are required in terms of Except where the use of plant is essential in order, in the opinion of the Engineer, to meet the specified requirements by the Due Completion Date, the Contractor shall use only hand tools

the labour of local sub-contractors, supplemented to the extent necessary and unavoidable by the Contractors key personnel as provided for in sub-clause C3.3.3 unless otherwise instructed by the Engineer and in accordance with the further provisions of the relevant sections of Portion These portions of the Works shall be constructed utilizing only locally employed labour and/or of the Project Specifications.

The portions of the Works to be executed using Labour Intensive Construction methods are

- Clearing and grubbing of the Site;
- Excavation for structures up to 1,5 m deep;
- Transportation and spoiling of all trench materials, where the disposal site is located within
- Cleaning and tidying up of the Site;
- Construction of all brickworks required for structures;
- Mixing and placing of concrete work;
- Precast concrete sitting
- Plantation of grass for soccer pitch

construction methods adopted and plant utilized by the Contractor are appropriate in respect of adopted and plant utilized shall be at the discretion of the Contractor, provided always that the In respect of those portions of works which are not listed above, the construction methods Contract. of the Works to be executed and the standards to be achieved in

C3.1.4 Sub-Contracting

- C3.1.4.1 suppliers as may be designated or nominated by the Employer or the Engineer. Contractor shall appoint such authorities and/or specialist subcontractors and
- C3.1.4.2 the works that are designated in Clause C3.1.3 as being reserved for labour intensive construction methods. The Contractor shall sub-let to local small sub-contractors appropriate portions of
- C3.1.4.3 As required by Clause 6(4) of the Conditions of Contract, the Contractor shall be

SCOPE OF WORKS

and/or disputes related to payments, programming, workmanship, etc, unless provided for in the Conditions of Contract. Such problems and/or disputes shall directly with any such sub-contractor, nor will he become involved in any problems responsible for all work carried out by sub-contractors (whether nominated by the Employer or selected by the Contractor) on his behalf. The Engineer will not liaise remain the sole concern of the Contractor and his sub-contractors.

C3.1.4.4 Contractor to sub-let appropriate portions of the Works to such local residents. training of Contractor may employ local residents with the sole intent of executing on-the-job utilized his best endeavors to comply therewith, the provisions of the Contract pertaining to subletting to local sub-contractors or has application from the Contractor, and where he deems the circumstances so warrant, and provided always that the Contractor has complied fully and in all respects with The Engineer may at his discretion, upon receipt of a written and fully motivated such local residents to suitable levels of skill that will enable the authorize in writing that the

which may be considered by the Engineer to warrant such authorization, include: Without limiting the generality of application of this sub-clause, circumstances,

- a non-receipt contractors; 으 valid 윽 acceptable tenders/quotations from local sub-
- <u>o</u> Serious default or failure of appointed local sub-contractors

completion of the portions of the Works concerned by local sub-contractors in accordance with the terms of the Contract is likely to result in the successful concluded on the available evidence that the invitation of further tenders/quotations The Engineer shall not grant such authority in cases where it may reasonably be

residents suitable for and desiring to train as sub-contractors for portions of the Works as specified in Clause 3.1.4.2, then the Contractor shall be permitted to undertake the Works in question with his own workforce as provided for in Clause Should the Contractor, after suitable due endeavor, be unable to identify local

The Contractor shall tender rates for the training of sub-contractors and labour. successful completion of this training shall be subject to his approval or instruction. The Engineer shall monitor progress achieved with subcontractor training, and

respect of local sub-contractors. conditions of employment, minimum wages, disputes and disciplinary procedures in is established for purposes of the Contract for assistance and advice regarding specified in Clause C3.3.4, the Contractor shall approach the Labour Desk that

CONSTRUCTION AND MANAGEMENT REQUIREMENTS

C3.1.5.1 General

Management Requirements for Works Contracts. These specifications shall be applicable to the contract under consideration and the Contractor shall comply with all requirements relevant The Contractor is referred to SANS to the project. 1921: 2004 parts 1, 2, 3 and 5: Construction and

SCOPE OF WORKS

Certain aspects however require further attention as described hereafter.

C3.1.5.2 Quality Assurance (QA) (Read with SANS 1921 - 1: 2004 clause 4.4)

the Contractor to institute an appropriate Quality Assurance (QA) system on site. The Engineer will audit the Contractor's quality assurance (QA) system on a regular basis to verify that adequate independent checks and tests are being carried out and to ensure that the cause a delay or failure. Contractor's own control is sufficient to identify any possible quality problems, which could The Contractor will be solely responsible for the production of work that complies with the Specifications to the satisfaction of the Engineer. To this end it will be the full responsibility of

The Contractor shall ensure that efficient supervisory staff, the required transport, instruments, equipment and tools are available to control the quality of his own workmanship in accordance with his QA-system. His attention is drawn to the fact that it is not the duty of the Engineer or the Engineer's representative to act as foreman or surveyor.

Management and disposal of water (Read with SANS 1921 - 1: 2004 clause 4.6)

the Contractor's failure to properly manage rain and surface water, will not be considered stormwater on the site. It is essential that all completed works or parts thereof are kept dry and properly drained. Claims for delay and for repair of damage caused to the works as a result of The Contractor shall pay special attention to the management and disposal of water and

Disposal of spoil or surplus material (Read with SANS 1921 - 1: 2004 clause

choice. He shall be responsible for all arrangements necessary to obtain such spoil sites The Contractor shall dispose all surplus and unsuitable material in legal spoil areas of his own

Testing (Read with SANS 1921 - 1: 2004 clause 4.11)

Process control

acceptable to and approved by the Engineer. The Contractor shall arrange for all tests required for process control to be done by a laboratory

and no additional payment will be made for testing as required results of tests carried out on materials and workmanship when submitting work for acceptance The Contractor may establish his own laboratory on site or he may employ the services of an independent commercial laboratory. Whatever method is used, the Contractor must submit the by the Engineer. The costs for these tests shall be deemed to be included in the relevant rates

Acceptance control

any work, the Engineer may have further control tests carried out by a laboratory of his choice. The process control test results submitted by the Contractor for approval of materials and workmanship may be used by the Engineer for acceptance control. However, before accepting account of the Contractor. of quantities, but tests that failed to confirm compliance with the specifications, will be for the The cost of such additional tests will be covered by a provisional sum provided in the schedule

SCOPE OF WORKS

Survey beacons (Read with SANS 1921 - 1: 2004 clause 4.15)

have them replaced by a registered land surveyor at his own cost such as benchmarks, stand boundary pegs and trigonometrical beacons, regardless whether such beacons or pegs were placed before or during the execution of the Contract. If any such The Contractor shall take special precautions to protect all permanent survey beacons or pegs beacons or pegs have been disturbed by the Contractor or his employees, the Contractor shall

Existing Services (Read with SANS 1921 - 1: 2004 clause 4.17)

any excavation or other work likely to affect the existing services is commenced The Contractor shall make himself acquainted with the position of all existing services before

determined on site when such damage should occur. The Contractor will be held responsible for any damage to known existing services caused by or arising out of his operations and any damage shall be made good at his own expense. Damage to unknown services shall be repaired as soon as possible and liability shall be

C3.1.6 Programme to be supplied by the Contractor

the project. The Contractor's programme shall be essentially in accordance with the overall requirements of

quantities of work to be performed each month, together with the manner in which the listed plant and other resources are to be used, as well as the anticipated earnings for the various sections of work. The programme shall not be in the form of a bar chart only, but shall show clearly the anticipated

Engineer. The programme shall be updated monthly in accordance with the progress made by the Contractor. The updated programme shall be submitted to the Engineer at least two working days prior to monthly meetings. A network_based programme according to the precedence method shall be required by the

on his own assumptions for the purpose of evaluating claims for extension of time or additional Failure to comply with these requirements will entitle the Engineer to use a programme based

the Engineer, submit a revised programme and network deviated from in any other way, the Contractor shall, within one week of having been notified by shown on the programme, or if the sequence of operations is altered or if the programme If, during the progress of the work, the quantities of work performed per month fall below those

labour and plant on site, or by using the available labour and plant in a more efficient manner. tempo of work must be accompanied by positive steps to increase production by providing more ensure completion of the Works within the time of completion as defined in Clause 53 of the General Conditions of Contact or any granted extension of time. Any proposal to increase the he shall produce a revised programme showing how he intends to regain lost time in order to If the programme has to be revised by reason of the contractor falling behind his programme,

provided in Clause 55 of the General Conditions of Contract. programme or revised programmes shall be sufficient reason for the Engineer to take steps as Failure on the part of the Contractor to submit the programme or to work according to the

The approval by the engineer of any programme shall have no contractual significance other

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not limit the right to the Engineer to instruct the Contractor to vary the programme if required by circumstances. The Contractor is also referred to Clause 12 of the General Conditions of than the Engineer will be satisfied if the work is carried out according to such programme and that the Contract undertakes to carry out the work in accordance with the programme. It shall Contract when drawing up his programme.

considered adequate reason for poor progress on another portion or phase Progress in advance of the programme on certain portions or phases of the Works shall not be

C3.1.7 Overhaul

specific items No payment will be made for overhaul on this contract unless provision is made therefore in

C3.1.8 Site Facilities Available

C3.1.8.1 Location of Site and Depot

establishment of his camp. obtain written permission from the landowner and subsequently from the Engineer for the available to the Contractor, such site will be pointed out to the Contractor. The Contractor must accommodation for his personnel and labourers. If the Employer can make any specific site responsible to provide a suitable site for his camp and to

(a) Contractor's Camp Site/Store Yard

the responsibility of the Contractor. Any clearing of the site that is necessary and the making good after de-establishment will be

In addition to the requirements of SABS 1200A clause 8.3.2.2 the following conditions shall also

- (i) None of the existing roads shall be damaged in any way.
- The Contractor shall make his own arrangements in this regard No waterborne sewerage facilities or potable water connection are available on the site.
- (iii) No electrical facilities exist on site.
- clearances from the relevant Departments or other owners will be required campsite area or any improvements on it, including services, and for reinstating it to its former condition when vacated. The standard of reinstatement must be to the satisfaction of the or other owner. Engineer; Director: Real Estate and/or Director of Parks, Recreation and Beaches Department; It shall be the responsibility of the Contractor to make good any damage caused to the Particular attention should be directed to these requirements and written

C3.1.8.2 Source of Water Supply

associated with the supply of water for the Works Contractor shall pay all connection fees and consumption charges, and at his cost provide all of all water that he may require for purposes of constructing the Works. The Contractor shall be responsible under the Contract for the supply and distribution at his cost consumption meters, pipework, storage tanks, transport and Accordingly, the

arrangements with the relevant authority for the connection(s), and shall provide in his tender The Contractor shall, subject to the approval of the Engineer, make any necessary

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for the payment of all charges and costs that are associated with making water available for purposes of constructing the Works

C3.1.8.3 Source of Power Supply

are associated with the supply of electricity for construction of the Works connections, transformers, consumption meters, cables, distribution boards and other items that Contractor shall pay all connection and consumption charges, and at his cost provide all of all electricity that he may require for purposes of constructing the Works. Accordingly, the The Contractor shall be responsible under the Contract for the supply and distribution at his cost

the applicable bylaws and regulations of the supply authority. purposes of constructing the Works. The distribution of electricity shall be in accordance with for the payment of all charges and costs that are associated with making electricity available for arrangements with the relevant authority for the connection(s), and shall provide in his tender Contractor shall, subject to the approval of the Engineer, make any necessary

C3.1.8.4 Accommodation of Employees

No employees except for security guards will be allowed to sleep or be accommodated on the

No informal housing or squatting will be allowed. 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.

works for the use of his employees. tacilities have to be provided The Contractor shall provide the necessary ablution facilities at his campsite and the site of the Chemical toilets only will be allowed where temporary

C3.1.9 Features Requiring Special Attention

C3.1.9.1 Built-up Areas

ensure the safety and convenience of the public. In addition, the Contractor shall provide access for traffic over and through the works, and for residents to their places of abode, all as described areas. The Contractor shall exercise all necessary precautions and take all necessary steps to resulting from the aforesaid. in the Specifications. Allowance must be made by the Contractor in his programming for delays The Contractor's attention is drawn to the fact that the Works will be constructed within built-up

shall be closed for longer than 48 hours. that they are aware of any intended closures of access. No traffic access to a residential stand access to residential stands. The Contractor shall acquire written confirmation from all owners The Contractor shall give residents a minimum of 72 hours written notice of his intent to close

C3.1.9.3 Protection of Buildings and Structures

of his intent to execute any blasting work. appropriate radius (not less than 100m) from any point of blasting, a minimum of 48 hours notice The Contractor shall give all residents or other parties owning a building or structure within an

structures prior to blasting and shall acquire the signature of the owners/occupants agreeing to such conditions The Contractor shall note all aspects relevant to the condition of the affected buildings and/or

SCOPE OF WORKS

of the owners/occupants at the Contractor's expense. confirming the condition of the buildings and/or structures. In the event of damage to existing buildings and/or structures as a result of blasting, remedial work shall be done to the satisfaction Subsequent to blasting, both the Contractor and the owners/occupants shall sign the form

of the Contract Compliance with this clause will not relieve the Contractor of any of his responsibilities in terms

C3.1.9.4 Care of the Site

and equipment for which he is responsible in an orderly manner and shall keep the Site free shall be kept and left in a clean and orderly condition. The Contractor shall store all materials from debris and obstructions. At all times during construction of the Works and upon completion thereof, the Site of the Works

C3.1.9.5 Control of Water

are included in the Schedule of Quantities thereto shall be deemed to be included in the rates tendered for the various items of work that may affect the Works. No separate payment shall be made in this regard, as all costs related from higher-laying areas above the Works, and for the handling of any sub-surface water that The Contractor shall at all times and in all respects be responsible for the handling of stormwater

C3.1.10 Management of the environment

The Contractor shall pay special attention to the following:

(a) Natural Vegetation

the purpose of constructing the works. The Contractor shall confine his operation to as small an area of the site as may be practical for

Only those trees and shrubs directly affected by the works and such others as the Engineer may direct in writing shall be cut down and stumped. The natural vegetation, grassing and other plants shall not be disturbed other than in areas where it is essential for the execution of the work or where directed by the Engineer.

(b) Fires

steps to limit and extinguish the fire and shall accept full responsibility for damages and claims resulting from such fires, which may have been caused by him or his employees necessary precautions to prevent any fires. In the event of fire the Contractor shall take active The Contractor shall comply with the statutory and local fire regulations. He shall also take all

C3.1.11 Community Liaison and Community Relations

and rather to foster a spirit of co- operation and harmony towards the project. beneficiaries, and shall at all times use his best endeavors to avoid the development of disputes the character, culture and circumstances of the specific community and/or any group of workers employed from within such communities, the Contractor shall take due cognizance of In all dealings with nearby communities and beneficiaries of the project, and in all dealings with

concerning the community and/or beneficiaries shall be discussed and where possible, resolved attend all liaison meetings as may be arranged by the Engineer and/or the Employer. All matters or negotiated between the Contractor and the community and/or beneficiaries, and he shall The Contractor shall at all times, keep the Engineer fully informed regarding all matters affecting

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at such meetings

written instruction from the Engineer. Where any resolution during such negotiations or at such meetings shall be contrary to the terms and provisions of the Contract, the Contractor shall not give effect thereto without a prior

normal working days in respect of all claims submitted in terms of this clause. be entitled to submit a claim in terms of Clause 48 of the Conditions of Contract, provided always that the period of twenty-eight (28) days referred to in Clause 48 shall be reduced to three (3) tendered rates and prices and/or that a delay in the progress of the Works will result, he shall this clause will result in the incurring of additional costs which were not provided for in his Where the Contractor is of the opinion that any instruction of the Engineer issued in terms of

C3.1.12 Workmanship and Quality Control

the quality of the Works at all stages of the Contract. all transport, instruments and equipment to ensure adequate supervision and positive control of his own expense, institute a quality-control system and provide experienced engineers, foremen, surveyors, materials technicians, other technicians and technical staff, together with The onus to produce work that conforms in quality and accuracy of detail to the requirements of the Specifications and of the Drawings rests with the Contractor, and the Contractor shall, at

adequate control of the quality of the Works at all times. Contractor shall, at his own discretion, increase this frequency where necessary to ensure regarding the minimum frequency of process control testing that is to be executed. The The Contractor's attention is drawn to the provisions of the various Standardized Specifications The cost of the Contractor's supervision and process control, including all testing carried out by the Contractor, will be deemed to be included in the rates tendered for the various items of work.

approval is accompanied by relevant tests, measurements and levels indicating compliance. the Contractor shall furnish the Engineer with the results of relevant tests, measurements and levels, thereby indicating compliance with the Specifications. The Engineer will not examine or inspect any portion of work submitted for approval unless the request for inspection and Upon completion and submission of each portion of the Works to the Engineer for examination.

C3.1.13 Samples

submit samples for testing to ensure that the material represented by the Materials or work that do not conform to the approved samples, submitted in terms of Sub-Clause 23(4) of the Conditions of Contract, will be rejected. The Engineer reserves the right to

C3.1.14 Notices, Signs, Barricades and Advertisements

shall be responsible for their supply, erection, maintenance and ultimate removal and shall make Notices, signs and barricades (required in terms of Clause 33 of the Conditions of Contract) as well as advertisements may only be erected where approved by the Engineer. The Contractor provision for this in his tendered rates.

unsatisfactory, inconvenient or dangerous to the general public. location, or to have it removed from the Site of the Works, should it in any way prove to be The Engineer shall have the right to have any sign, notice or advertisement moved to another

SCOPE OF WORKS

C3.1.15 REQUIREMENTS FOR ACCOMMODATION OF TRAFFIC

General

The Contractor will be responsible for the safe and easy passage of public traffic past and on sections of roads of which he has occupation or where work has to be done near traffic.

and Management Requirements for Works Contracts, Part 2: Accommodation of Traffic on Standards South Africa Public Roads occupied by the Contractor. The Contractor shall obtain this specification from Accommodation of traffic, where applicable shall comply with SANS 1921-2: 2004: Construction if accommodation of traffic will be involved on any part of the

Basic Requirements

The travelling public shall have the right of way on public roads, and the Contractor shall make use of approved methods to control the movement of his equipment and vehicles so as not to constitute a hazard on the road.

controls are effective and that courtesy is extended to the public at all times The Contractor shall ensure that all road signs, barricades, delineators, flagmen and speed

Failure to maintain road signs, warning signs or flicker lights, etc, in a good condition shall constitute ample reason for the Engineer to suspend the work until the road signs, etc, have been repaired to his satisfaction.

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

temporary deviations. The Contractor shall construct and maintain all temporary drainage works necessary for

the area in which he is working. The Contractor shall provide and grant access to persons whose properties fall within or adjoin

C3.1.16 Open Trenches

one time may be restricted by the Engineer, should he consider such restriction to be in the accesses to properties and with public roads and paths. Trenches may not be left open during the builder's holidays, and shall be safeguarded at all times from danger to the public. Safe trench-crossings shall be provided at all intersections with interest of public safety. The length of trench left open at any

C3.1.17 Statutory Regulations

the Contractor and the Employer to ensure compliance by the Contractor with the provisions of the Works, shall have certain obligations and that the following arrangement shall apply between Contractor as an employer in its own right and in its capacity as Contractor for the execution of his subcontractors (including local subcontractors). The Contractor, in entering into this Contract, hereby agrees with the Employer in terms of Section 37(2) of the Act, that the and the public, irrespective of whether such employees are employed by the Contractor or by his subcontractors (including local subcontractors). The Contractor, in entering into this acts must be adhered to by the Contractor, with specific reference to the safety of all employees to as the Act below), and all regulations promulgated there under as well as the other relevant The statutory requirement of the Occupational Health and Safety Act, Act 85 of 1993 (referred

SCOPE OF WORKS

the Act, namely:

- (a) Contractor with all relevant provisions of the Act, and the regulations promulgated in terms The Contractor undertakes to acquaint the appropriate officials and the employees of the
- **(** in terms of the Act and regulations will be fully complied with; and The Contractor undertakes that all relevant duties, obligations and prohibitions imposed
- <u>O</u> duties, obligations and prohibitions imposed by the Act and regulations, and expressly absolves the Employer and the Engineer from being obliged to comply with any of the aforesaid duties, obligations and prohibitions in respect of the Works; and The Contractor hereby accepts sole liability for such due compliance with the relevant
- <u>a</u> complaint or criminal charge. investigation, complaint, or criminal charge which may arise as a consequence of the The Contractor shall be obliged to report forthwith to the Employer and the Engineer any Employer, and shall, on written demand, provide full details in writing of such investigation provisions of the Act and regulations pursuant to work performed on behalf of the
- (e) The Contractor shall sign the agreement bound into Section C1.2 of this document

Section 22(3) of the Environmental Conservation Act, 1989. Contract Document. Decision and/or the Environmental Management Plan is bound into Section C3.5.1 of this The Contractor shall comply with all the conditions of the Record of Decision in terms of A copy of the Record of

Management Plan including the appointment of an environmental manager/control officer. of Quantities. The contractor shall allow for all obligations imposed by the Environmental A time-related and a fixed-charge item have been provided in Schedule A of the Schedule

C3.1.18 Safety

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

- (a) evaluated and approved by the Safety Agent prior to commencement of Construction. The Principal Contractor must do a Risk assessment and compile an OHS Plan to be
- **(b)** of such meetings be kept in a Safety File, which must be available on site at all, times The Contractor must ensure that regular safety meetings be held, and that the minutes
- <u>O</u> proper usage of such safety materials, clothing and equipment at all times; the Act) at all times, and shall institute appropriate and effective measures to ensure the Provide to its Employees on the site of the works, equipment necessary to ensure full compliance with the provisions of the Occupational health and Safety Act, 1993 (Act No 85 of 1993) as amended (hereinafter referred to as all safety materials, clothing and
- <u>a</u> the safety of workmen and all persons in, on and around the site, as well as the general Provide, install and maintain all barricades, safety signage and other measures to ensure

SCOPE OF WORKS

- **e** Implement on the site of the works, such procedures and systems and keep all records as may be required to ensure compliance with the requirements of the Act at all times;
- 3 subcontractors engaged by the Contractor and their employees engaged on the works; Implement all necessary measures so as to ensure compliance with the Act by all
- (g) Full compliance with all other requirements pertaining to safety as may be specified in the Contract (Also refer to Notice to Tenderers).

compliance with the requirements of the Act. on the site as they shall deem appropriate, for the purpose of verifying the Contractor's The Employer and the Engineer shall be entitled, although not obliged, to make such inspections

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

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

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

further provisions of the said clause 55. Persistent and repeated breach by the Contractor of the requirements of the Act and/or this clause shall constitute grounds for the Engineer to act in terms of sub-clause 55(1)(b)(vi) of the Conditions of Contract and for the Employer to cancel the Contract in accordance with the

In addition to all above safety related requirements the Contractor shall take cognisance of the requirements of the construction regulations and OHS Specifications bound in C3.5.2 of this

C3.1.19 Safety Officer

OHS must be provided

a Health and Safety Officer for the works (Act 85 of 1993) and its regulations, in particular the Construction Regulations, 2003, to appoint The Contractor is required to ensure compliance with the Occupational Health and Safety Act

shall preferably have completed the Safety Management Training presented by NOSA. The Contractor shall submit details of the proposed. The safety officer shall have a sound knowledge of the Occupational health and Safety Act. He Training Course (SAMTRAC)

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C3.1.20 Source of Material

for this, as all costs related thereto shall be deemed to be covered by the tendered rates. relevant minimum requirements to be used in this contract. No separate payment shall be made The contractor will be held responsible for locating sources of all materials complying with the

enterprise. Where possible materials manufactured or produced locally shall be procured to promote local

the engineer. A designated borrow pit shall be available for sourcing of the selected layers and sub-base material required for the project. The contractor shall only use material from this designated borrow pit and specific location of further excavation within the borrow pit shall be indicated by

C3.1.21 Photographic Record

shall be made of all existing stands and structures to be effected by the road construction, and forwarded to the Engineer prior to the authorisation of the first progress payment. Prior to the commencement of the work, and during the contract period, a photographical record

compliance with the above requirements. A payment item is included in the Schedule of Quantities to cover the Contractor's cost for

C3.3 PROCUREMENT

SCOPE OF WORKS

C3.2 ENGINEERING

C3.2.1 Design

- Contract Documents unless otherwise stated The Employer is responsible for the design of the permanent Works as reflected in the
- with the permanent Works The Contractor is responsible for the design of the temporary Works and their compatibility
- of the as built drawings The Contractor shall supply all details necessary to assist the Engineer in the compilation

C3.2.2 Employer's Design

05 of the Standard Specifications alternative offers for designs prepared by himself subject to the conditions specified in clause The Employer has designed the permanent works included in this contract. The detail of the works is indicated on the drawings and in the specifications. The Tenderer may submit

C3.2.3 Drawings

of the Conditions of Contract, provide such dimensions as may have been omitted from the the Works, and dimensions shall not be scaled from the Drawings, unless required by the Engineer. The Engineer will, on the request of the Contractor in accordance with the provisions The Contractor shall use only the dimensions stated in figures on the Drawings in setting out

other underground infrastructure shall be given by either co-ordinates or stake value and offset Representative on a regular basis. Where necessary, levels shall also be given. A marked-up set of drawings shall also be kept or relocated during the contract. The position of pipe bends, junction boxes, duct ends and all The Contractor shall ensure that accurate as-built records are kept of all infrastructure installed the Contractor. This information shall be supplied ರ the Engineer's

Representative before a Certificate of Completion will be issued. All information in possession of the Contractor, required by the Engineer and/or the Engineer's Representative to complete the as-built/record drawings, must be submitted to the Engineer's

C2.3.1.1 Engineer/Employer on the commencement date and from time to time as required." Additional construction drawings will, in terms of Clause 5.9.2 of the General Conditions 9 Contract (2010), be issued ರ the Contractor ф

C3.3 PROCUREMENT

C3.3.1 Procurement Policy

Tenders will be evaluated in terms of the Municipalities Supply Chain Management Policy, as adopted by the Municipality. Copies of the policy are obtainable from the offices of the Municipality

C3.3 PROCUREMENT

SCOPE OF WORKS

the Contractor Restriction of the Utilisation of Personnel in the Permanent Employment of

will be allocated within the development. consultation with the various communities that are established in proximity to the Works or which utilizing a temporary workforce employed directly by the Contractor and/or by his sub-contractors, using the assistance of the labour desk that will be established for the project in personnel only on the Works, as defined below, and shall execute and complete the Works The Contractor shall limit the utilization of his permanently employed personnel to that of key

Without derogating from the Contractor's obligations to complete the Works within the specified time for completion in terms of GCC 2010, the numbers in each category of the Contractor's key personnel, as stated by the Contractor in Section T2 of this document, will be strictly controlled the Employer. during the contract period and any increase in numbers will be subject to the prior approval of

technicians, QNTY surveyors, trainers, supervisors, foremen, skilled plant operators, welders, shutter hands and the like, and all other personnel in the permanent employ of the Contractor Contractor's or his subcontractor's operations. or his sub-contractors who possess special skills, and/or who play key roles within the "Key personnel" means all contracts managers, site agents, site clerks, materials and survey

personnel but who are in his permanent employ. from the Contractor, and where he deems the circumstances so warrant, authorise in writing that the Contractor may utilise in the execution of the Works, workers not being his key The Engineer may at his discretion, upon receipt of a written and fully motivated application

employees other than key personnel, include: considered by the Engineer to warrant authorisation of the use of the Contractor's permanent Without limiting the generality of application of this sub-clause, circumstances which may be

- (a) The unavailability from local sources of sufficient numbers of temporary workers and/or subcontemplated above. Engineer that he has exercised his best endeavors and taken all reasonable actions to contractors to execute the Works provided always that the Contractor has satisfied the sufficient temporary workers and sub-contractors from local
- **6** the Contract is insufficient to facilitate the creation of the necessary skills through the available to the Contractor in terms of the Contract, of sufficient skills necessary to execute The unavailability within the temporary worker pool and/or from subcontractor sources provision of suitable training as contemplated in the Contract; the Works or specific portions thereof, in situations where the completion period allowed in
- (c) Any other circumstances which the Engineer may deem as constituting a warrant

Provision of Temporary Workforce for the Contract

approved key staff in the permanent employ of the Contractor, to the maximum extent that is compatible with the requirements of clause 21 of the Conditions of Contract. The Contractor shall employ labour from the local community through the CLO except for

liberty to negotiate additional incentive payments based on performance Although the Contractor shall adhere to the statutory minimum wage rates, he is however at

C3.3 PROCUREMENT

SCOPE OF WORKS

employee employed by the Contractor The Occupational Health and Safety Act must be adhered to with reference to the safety of any

Ward Councilor shall provide to the Contractor the following if necessary: The successful tenderer shall liaise with the Ward Councilor/Ward Committee whereby the

- A Community Liaison Officer (CLO) for liaison with the recipient community for labour
- The CLO shall attend all site and other meetings concerning the project
- . appoint such CLO. together with the Engineer, will interview prospective appointees and in their discretion Contractor. Should no agreement be found as envisaged, the relevant Project Manager Ward, the relevant Ward Councilors shall agree on one CLO to be appointed by the Only one CLO shall be appointed per project. If the project spans over more than one
- . shall not exceed the amount allowed for in paragraph bill of quantities one CLO, this will be permitted provided that the total monthly sum paid to all CLO's Notwithstanding the above, if the vastness of the project requires the use of more than
- . shall arrange a meeting with the relevant Ward Councilor(s) and the CLO to resolve such shall immediately be brought to the attention of the Municipality/Project Manager who Should the Contractor experience any difficulties with the community, these difficulties

to these conditions but also subject to the provisos applicable to the duration of such The main Contractor shall ensure that any Sub-Contractor he may appoint shall adhere

Agreement or Act applicable to the Contractor, the more favorable condition will apply. Should any of the above conditions be less favorable than any Bargaining Council

specific subcontractor's employees. Employment and subcontract agreements shall each of his employees or sub-contractors, as the case may be. Likewise contracts of employment must be entered into between each such sub-contractor, and each of the make clear reference to at least the following conditions. A contract of employment or subcontract should be signed between the Contractor and

- . . The minimum agreed wage rate per hour in respect of labourers;
- The agreed pay rate per unit of production where applicable:
- UIF and WCA payments;
- . . Minimum working hours per day:
- Start and end times of a daily shift;

.

- Lunch break times:
- Company policy regarding:
- Rain time
- Sickness and absenteeism
- Disciplinary matters
- Method and frequency of payment:

.

- Work clothes and safety equipment to be issued
- Labour Desk

C3.4 CONSTRUCTION

SCOPE OF WORKS

C3.4 CONSTRUCTION

C3.4.1 Standard Specifications

- C3.4.1.1 "Standard Specification for Civil Engineering Construction" as approved by the Council of the South African Bureau of Standards. The Standard specification, are carried out strictly in accordance with SABS 1200 -
- C3.4.1.2 Specifications for Civil Engineering Construction, applicable at the date of tender For the purpose of this Contract the latest issues of the following advertisement, shall apply-Standard

SABS 1200

- A GENERAL
- AB ENGINEER'S OFFICE
- C SITE CLEARANCE
- D EARTHWORKS
- DA EARTHWORKS (SMALL WORKS)
- DB EARTHWORKS (PIPE TRENCHES)
- DM EARTHWORKS (ROADS, SUBGRADE)
- G CONCRETE (STRUCTURAL)
- GE PRECAST CONCRETE (STRUCTURAL
- HB CLADDING AND SHEETING
- MEDIUM PRESSURE PIPELINES
- LB BEDDING (PIPES)
- LD SEWERS
- LE STORMWATER DRAINAGE
- ME SUBBASE
- MF BASE
- MH ASPHALT BASEAND SURFACING
- C3.4.1.3 The term "project specifications" appearing in any of the SABS 1200 standardised specifications must be replaced with the terms "scope of work".
- C3.4.1.4 References from, and variations and additions to the Standard Specifications and Particular Specifications are included in section **C3.4.2**.

C3.4.2 Variations and Additions to Standard and Particular Specifications

will be applicable to this Contract. The following variations and additions to the Standard and Particular Specifications

explanatory. The various documents listed in section C3.4.1 shall be treated as mutually However, should any requirement of section C3.4.2 conflict with any

C3.4 CONSTRUCTION

SCOPE OF WORKS

requirement of the Standardised Specifications or with any requirement of Particular Specifications, then the requirement of section C3.4.2 shall prevail.

C3.4.3 EPWP labour intensive specification

C3.4.3.1 Labour intensive competencies of supervisory and management staff

either completed, or for the period 1 April 2004 to 30 June 2006, are registered for only engage supervisory and management staff in labour intensive works who have training towards, the skills programme outlined in Table 1. Contractors having a CIDB contractor grading designation of 5CE and higher shall

partner, the managing director or managing member of a close corporation, as relevant, having a contractor grading designation of 1CE, 2CE, 3CE PE and 4CE shall have personally completed, or for the period 1 April 2004 to 30 June 2006 be registered on a skills programme for the NQF level 2. All other site supervisory staff in the employ of such contractors must have completed, or for the period 1 April standards or NQF level 4 unit standards. 2004 to 30 June 2006 be registered on a skills programme for, the NQF level 2 unit The managing principal of the contractor, namely, a sole proprietor, the senior

Table 1: Skills programme for supervisory and management staff

Personnel	NQF level	Unit standard titles	Skills programme
	2	Apply Labour Intensive Construction Systems and Techniques to Work Activities	This unit standard must be completed, and
1		Use Labour Intensive Construction Methods to Construct and Maintain Roads and Stormwater	
Team leader /		Construct and Maintain Roads and Stormwater Drainage	Any one of these 3 linit
odbo: 4100		Use Labour Intensive Construction Methods to	standards
		Construct and Maintain Water and Sanitation Services	
		Use Labour Intensive Construction Methods to	
		Construct, Repair and Maintain Structures	
	4	Implement labour Intensive Construction Systems and Techniques	This unit standard must be completed, and
		Use Labour Intensive Construction Methods to	
		Construct and Maintain Roads and Stormwater	
Foreman/ supervisor		Drainage	Any one of these 3 unit
		Use Labour Intensive Construction Methods to	standards
		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	رن د	Manage Labour Intensive Construction Processes	Skills Programme against
most senior			rills single unit standard
representative that is			
resident on the site)			

C3.4.3.2 Employment of unskilled and semi-skilled workers in labour-intensive works

C3.4.3.2.1 Requirements for the sourcing and engagement of labour

- -Unskilled and semi-skilled labour required for the execution of all labour intensive works shall be engaged strictly in accordance with prevailing legislation and SANS 1914-5, Participation of Targeted Labour.
- Ņ The rate of pay set for the EPWP is **R 170** per day/task as set by Dr Nkosazana Dlamini Zuma Local municipality.
- 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 C3.4.3.2.1.3.
- Ġ experience in construction and / or who come from households: presented thereby. Preference must be given to people with previous practical community of the labour intensive works and the employment opportunities The Contractor shall, through all available community structures, inform the local
- Where the head of the household has less than a primary school education;
- 9 That has less than one full time person earning an income;
- c) Where subsistence agriculture is the source of income.
- Those that are not in receipt of any social security pension income

C3.4 CONSTRUCTION

SCOPE OF WORKS

- employment of temporary workers is in the following proportions: The Contractor shall Endeavour to ensure that the expenditure on the
- a) 60 % women;
- D 20% youth who are between the ages of 18 and 25; and
- c) 2% on persons with disabilities.

C3.4.3.3 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

- ٠ shall be measured in the performance of the contract to enable the employment provided to targeted labour to be quantified. Is no specified contract participation goal for the contract. The contract participation goal
- allowance paid in respect of agreed training programmes. respect to both time-rated and task rated workers, comprise all wages paid and any training The wages and allowances used to calculate the contract participation goal shall, with

C3.4.3.4Terms and conditions for the engagement of targeted labour

with targeted labour Further to the provisions of clause 3.3.2 of SANS 1914-5, written contracts shall be entered into

C3.4.3.5 Variations to SANS 1914-5

- The definition for net amount shall be amended as follows:
- sales tax, which the law requires the employer to pay the contractor. Financial value of the contract upon completion, exclusive of any value added tax or
- N women, youth and persons with disabilities and the number of days of formal training provided to targeted labour The schedule referred to in 5.2 shall in addition reflect the status of targeted labour as

C3.4.3.6 Training of targeted labour

- The contractor shall provide all the necessary on-the-job training to targeted labour to compromise worker health and safety. in accordance with the requirements of the contract in a manner that does not enable such labour to master the basic work techniques required to undertake the work
- that will undergo training and when such training is required. The employer must within 14 days of being awarded the contract, of the likely number of persons by informing the relevant provincial office of the Department of Labour in writing, 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 be furnished with a copy of this request.

C3.4 CONSTRUCTION

SCOPE OF WORKS

- 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.
- 4. 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.
- Ċī The contractor shall do nothing to dissuade targeted labour from participating in training programmes.
- An allowance equal to 100% of the task rate or daily rate shall be paid by the contractor to workers who attend formal training, in terms of C3.4.3.6.2above.
- 7. Proof of compliance with the requirements of items above must be provided by the Contractor to the Employer prior to submission of the final payment certificate.

SCOPE OF WORKS

C3.5 MANAGEMENT

C3.5 MANAGEMENT

Applicable SANS and SABS standards

- a) The following specification data are applicable: SANS 1921 Construction Works standards and associated
- ≕≕ SANS 1921-1, SANS 1921-2, Accommodation of traffic on public General roads occupied by
- ∄ SANS 1921-4, SANS 1921-5, the contractor Third party management support
- ح 3 hand Earthworks activities which are to be performed by
- SANS 1921 -6, HIV/AIDS Awareness

ambiguity or inconsistency between it and these standards. 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 The abovementioned South African National Standards make several references to the

standard to which it mainly applies. Each item of Specification Data given below is cross-referenced to the clause in the

The associated Specification Data is as follows:

SANS 19 1: Gener	SANS 1921-1, Construction and management requirements for works contracts – Part 1: General engineering and construction works
Clause	Specification data
	Essential data
4.1.7	There are no requirements for drawings, information and calculations for which the contractor is responsible
4.3.1	Refer to scope of works
4.7.3	No over break allowances for blasting is provided for
4.14.3	Refer to scope of works
4.14.5	The Contractor is required to provide latrine and ablution facilities

SCOPE OF WORKS

	0.00	Part 6: HN 4.2.1(a)	5.1 SANS 192	Part 5: Ea	SANS 192
The duration of each workshop is not to be less than 2 ½ hours.	training service provider in the HIV/AIDS field. A list of accredited service providers can be obtained from the Construction SETA (CETA) (tel. 011-265 5900), Health and Welfare SETA (HWSETA) (011-622 6852) or on the Health and Welfare SETA website: www.hwseta.org.za	Part 6: HIV/AIDS awareness 4.2.1(a) A qualified service provider is one that is according to the service provider is one that it is according to the service provider is one that it is according to the service provider is one that it is according to the service provider is one that it is according to the service provider is one that it is according to the service provider is one that it is according to the service provider is one that it is according to the service provider is one that it is according to the service provider is one that it is according to the service provider is one that it is according to the service provider is one that it is according to the service provider is one that it is according to the service provider is one that it is according to the service provider is one that it is according to the service provider is one that it is accordi	5.1 The depth of trenches which are to be excavated by hand is 1,5 metre SANS 1921-6, Construction and management requirements for works contracts	Part 5: Earthworks activities which are to be performed by hand Clause Specification Data	SANS 1921-5, Construction and management requirements for works contracts

C3.5.2 Planning and Programming

The time for completion will be 5 months, which includes the allowance for inclement weather, (See Clause 45 of the Special Conditions of Contract). All statutory holidays for the Civil Engineering Industry falling within the authorised contract period, will be allowed as extensions to this period, but the Contractor will not be paid additional Time-Related charges for these days (Ref. PSA 8.4.1).

Date, a detailed programme setting out clearly the sequence of work, and the resources, which he intends to use The Contractor shall submit to the Engineer within 7 days of the Commencement

C3.5.3 Environment

a) Sand and dust control

to control the dust and soil movement, which may arise due to his operations. The Contractor shall, for the duration of the contract, take appropriate measures

b) Precautions against Nuisance

unnecessary noise, dust or other nuisance. Operations are being conducted in an urban area and in the presence of passing Precautions shall be taken to protect the public and to prevent

where the mud tracking of vehicles or falling debris may constitute a danger to removed immediately. Precautions shall be taken to prevent fouling of public roads and completed construction by trucks transporting muddy material. The the travelling public. Engineer may order the Contractor to broom off and clean roads continuously Any rock or debris falling from trucks on the roads in use by the public shall be

c) Silencing Of Plant

the written authority of the Engineer, laid down in Clause 26 of the General Control By-Laws as appeared in the Administrator's Notice No. 1784 of 29 November 1978. Noise operations will be permitted only between the hours of Conditions of Contract. 7:00 am and 5:00 p.m. Any work outside normal hours will be permitted only on Plant used on the Works shall be efficiently silenced and comply with the Noise

SCOPE OF WORKS

C3.5.4 Accommodation of Traffic on Public Roads Occupied By the Contractor

drawn to the accommodation/deviation of traffic on the affected area of the works. to provide access to residential property accesses and special attention must be established residential community. The works will be undertaken in such a manner The works involves the construction of new roadways and stormwater within an

equipment and vehicles so as not to constitute a hazard on the road Contractor shall make use of approved methods to control the movement of his period. The travelling public shall have the right of way on public roads and the inconvenience to the travelling public is necessary throughout the construction The need to accommodate the traffic safely and with the least amount

to accommodate traffic in accordance with the specifications. not commence constructional activities before adequate provision has been made until the road signs, etc, have been repaired to his satisfaction. The Contractor may Failure to maintain road signs, warning signs or flicker lights, etc, in a good condition shall constitute ample reason for the Engineer to stop the execution of the works

C3.5.5 Testing, Completion, Commissioning, And Correction of Defects

right to submit samples to tests, to ensure that the material represented by the samples meet the specification requirements. of the General Conditions of Contract will be rejected. The Engineer reserves the Materials of work that do not conform to the approved samples submitted in terms

and technical staff, together with all transport, instruments and equipment to ensure adequate supervision and positive control of the Works at all times experienced engineers, foremen, surveyors, material technicians, other technicians requirements of the specifications and drawings rests with the Contractor, and the Contractor shall at his own expense, institute a quality control system and provide The onus to produce work that conforms in quality and accuracy of detail to the

Contractor, will be deemed to be included in the rates tendered for the related items The costs of supervision and process control, including testing carried out by the

tests to indicate compliance with the specifications. On completion and submission of every part of the work to the Engineer for examination, the Contractor shall furnish the Engineer with the results of the relevant The Contractors attention is drawn to the provisions of the various Specifications regarding the minimum frequency of testing required. The Contractor shall at his own discretion increase this frequency where necessary to ensure adequate control.

C3.5.6 Recording Of Weather

taken at commencement and closure of the site on a daily basis. Additional readings will be required during construction of layer works, concrete works and surfacing. gauge shall be located at the contractor's site camp. Temperature readings shall be shall be provided to the engineer's representative on a weekly basis. A rainfall Daily temperature and rainfall data shall be recorded in the site diary, and a copy

SCOPE OF WORKS

C3.5.7 Format of Communications

communication on the letterheads of the author or via a site instruction communication either by fax, site instruction or post. Email communication will only be considered as proof of communication when followed up by a written Communication throughout the contract <u>≨</u> be undertaken ≤a

request must be recorded in the site diary and site instruction book Request for inspection of the works will be accepted telephonically, however this

C3.5.8 Key Personnel

experience shall be provided to the employers' representative prior to site handover. A schedule of key personnel to be employed with curriculum vitae of relevant

C3.5.9 Management Meeting

The Engineer will conduct site meetings, prepare and circulate minutes, as determined by him at the beginning of the contract. The Contractor shall attend these meetings and shall ensure that when necessary, the required sub-contractor is represented. The approved minutes shall become part of the contract documents.

Health and Safety Specification bound in this document. between the Employer or his Safety Agent and the Contractor as specified in the The Contractor shall be required to conduct safety meetings at intervals agreed to

C3.5.10 Payment Certificates

by the contractor shall consist of 2 copies of the schedule of quantities accordance with the General Conditions of Contract. The statement to be submitted in the required format, showing the estimated amount due to him, calculated in The contractor shall submit to the engineer after the end of each month a statement

C3.5.11 Protection of the Public

member of the public. The Contractor shall at all times ensure that his operations do not endanger any

temporary barricades and/or fencing. precautions to prevent public access to any danger areas on the Works, e.g. by As the area is adjacent to a residential area the Contractor shall take special

C3.5.12 Aids Awareness

training to undertake an aids awareness programme in the community. A PROVISIONAL ALLOWANCE has been provided in the bill of quantities under

C3.5.13 Site Visitors Book

A Site Visitors Book must be kept on site. All visitors visiting to the site must report to the site office and sign in the Site Visitors book before entering the construction site. The Agent and/or the Safety Officer must always accompany the Visitor. The Visitor must wear a hard hat, safety shoes and safety clothing when required

SCOPE OF WORKS

C3.5.14 Information In Respect Of Plant

the month. Distinction shall be made perween process. Such inventory shall be submitted by the first day of the month following Information relating to plant on Site shall be recorded in the Daily Site Diary. In addition, the Contractor shall deliver to the Engineer, on a monthly basis, a detailed summary of construction plant kept on the Site, full particulars given for each day of

C3.5.15 Information In Respect Of Employees

the month to be reported. basis, a detailed summary of supervisory staff, labour employed (own and local labour) by category, and sub-contractors (both local and imported) for each day of the month. Such return shall be submitted by the first day of the month following Information relating to labour and management on Site shall be recorded in the Daily Site Diary, in addition, the Contractor shall deliver to the Engineer, on a monthly

3.6 VARIATIONS AND ADDITIONS TO STANDARD SPECIFICATIONS

C3.6: PROJECT SPECIFICATIONS

SABS 1200 A: GENERAL

PSA₁ QUALITY OF MATERIALS (Sub clause 3.1)

Add the following:

applicable. All materials used ⊒. this Contract shall be the official SABS mark where

specified. All materials shall be new and of the best quality available unless otherwise

PSA 2 CONTRACTOR'S OFFICES, STORES AND SERVICES (Clause 4.2)

Add the following to the provisions of Clause 4.2.

- <u>a</u> subject to approval by the Engineer. The location of the Contractor's offices, stores and services on site shall be
- <u>5</u> use during site meetings, accommodating 8 persons. The Contractor's office is to include a facility with furniture suitable for the
- 0 The Contractor's designated site agent shall be in possession of a cellular

included in the preliminary and general No additional payment is made for this service and shall be deemed to be

PSA₃ SETTING OUT OF THE WORKS (Clause 5.1.1)

provide information for setting out of the works. Substitute the first sentence of Clause 5.1.1 with the following. The engineer will

Add the following:

and prices tendered and paid for in the various items of works included under this for the works involved in setting out shall be deemed to be covered by the rates Setting out the Works will not be measured and paid for directly, and compensation

PSA4 WATCHING, BARRICADING, LIGHTING AND TRAFFIC CROSSINGS

signs, barriers drums etc to the satisfaction of the Engineer for the entire duration of the contract. Road and traffic signs shall comply with the requirements of the "South African Road Traffic Manual" The Contractor shall make adequate provision for the supply of temporary warning

Construction of Creighton Sports Centre (phase 2)

SCOPE OF WORKS

PSA 5 LOCATION AND PROTECTION OF EXISTING SERVICES (Clause 5.4)

C3.6: PROJECT SPECIFICATIONS

Add the following provisions of Clause 5.4.1

PSA 5.1 Location of existing services

for this purpose, showing the position of services in the area where he intends to Before underground or excavation work is carried out, the Contractor shall ascertain the presence and position of all services likely to be damaged or interfered with by his activities. He shall obtain up-to-date plans from the Engineer

to expose the services at the positions of possible interference by his activities equipment and afterwards by careful hand excavation where necessary in order determine the exact position of such services by means of suitable detecting but believed to be present. This procedure shall also be followed in respect of services not shown on the plans As services can often not be reliably located from such plans, the Contractor shall

a separate set of Drawings, a copy of which shall be furnished to the Engineer. shall be designates as "known" services and their positions shall be indicated on All such services, the positions of which have been located at the critical points,

directly by his operations or by the lack of proper protection. by him to known services as well as for consequential damage, whether caused While he is occupying the Site, the Contractor shall be liable for all damage caused

PSA 6 ACCOMMODATION OF TRAFFIC (New clause 5.9)

Temporary traffic signs shall be erected at all diversions

entitled "Safety at Roadwork's in Urban Areas", as published by the Department of Transport. The number and layout of the traffic signs shall comply with the Site Manual

Traffic signs shall have a yellow background with either a red / black border.

PSA7 TOLERANCES

PSA 7.1 General (New sub-clause 6.4)

use of any one or more of the tolerances may deprive him of the full or any use of tolerances relating to other aspects of the work. independently of each other, and the Contractor is cautioned that the liberal or full guarantee is given that the full specified tolerance will be available

if changed, as finally prescribed by the Engineers, without any allowances for the specified tolerances for measurement and payment shall be determined from the Except where the contrary is specified or then clearly not applicable all quantities These are specified dimensions or those shown on the Drawings or, "authorised"

C3.6: PROJECT SPECIFICATIONS

SCOPE OF WORKS

payment will be based on the "authorised" dimensions. Except if otherwise specified, all measurements for determining quantities for

dimensions regardless of the actual dimensions to which the work has been plus or minus the tolerances allowed, quantities will be based on the "authorised constructed If the work is therefore constructed in accordance with the "authorised" dimensions

for quantities of work or material in excess of those calculated for the "authorised" dimensions, and where the actual dimensions are less than the "authorised" dimensions minus the tolerance allowed quantities for payment shall be based on the actual dimensions as constructed. plus or minus the tolerances allowed, the Engineers may nevertheless, at his sole discretion, accept the work for payment. In such cases no payment shall be made When the work is not constructed in accordance with the "authorised" dimensions

PSA 9 MEASUREMENT AND PAYMENT

PSA 9.1 Contractual Requirements (sub clause 8.3.1)

Add to sub-clause 8.3.1:

with the requirements of the Special Conditions of Contract. "In addition, the sum tendered shall cover all initial costs incurred in complying

PSA 9.2 Contractual Requirements (sub clause 8.4.1)

compensation to the Contractor for: time-related establishment costs. The Contractor shall tender a lump sum in the Schedule of Quantities to cover his The amount tendered and paid shall be full

- \equiv The maintenance of his whole organisation as established for this Contract.
- \equiv terms of the Conditions of Contract or Tender where applicable. The maintenance of all insurances, indemnities and guarantees required in
- \equiv specifically, measured elsewhere for payment in these Contract Documents Compliance with all general conditions and requirements, which are not

down in Sub-clause 8.2.2 of SABS 1200:A. Payment of the lump sum shall be made monthly in compliance with the method laid The Contractor shall tender a lump sum for the abovementioned items

deemed to have been allowed for in his rates. any Special Non-Working Days, as stipulated in the Appendix, which shall be The Contractor will not be paid Time-Related Preliminary and General charges for

PSA 9.3 Adjusted Payment for Time-Related Items

accordance with the following formula in the event of the Contract being extended by means of a variation order: The payment to the Contractor for Time-Related Items shall be adjusted in

Sum of Tendered amounts for Time Related Items x Extension of Time authorised by variation order

Contractor's December/January closedown period, if applicable. Tender contract period *For the purposes of applying this formula "Extension of Time" will exclude the

made in the Completion Payment Certificate and shall be the only payment for additional Time-Related costs irrespective of the actual period required to complete the Contract including its authorised extensions. The abovementioned adjustment of the payment for Time-Related Items shall be

adjusted shall not be subject to the Contract Price Adjustment formula In the case of fixed price contracts, the amount by which the Time-Related Items is

the time-related items are adjusted shall be subject to the Contract Price Adjustment In the case of contracts subject to Contract Price Adjustment the amount by which

PSA 9.4 Compliance with OHS Act and Regulations

(Including The Construction Regulations 2003)

unit: sum

Regulations 2003) at all times for the full duration of the Contract with all the requirements of the OHS Act and Regulations (including the Construction The tendered sum shall include full compensation to the Contractor for compliance

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

PSA 9.5 Accommodation of Traffic (Clause 8.8.2)

for the full traffic control and signposting. for the safe and easy passage of public traffic in all weather, both day and night construct these sections of the works under traffic. Where the new works interferes with the existing roads, the Contractor shall construct these sections of the works under traffic. The work will involve catering

Add the following after the first paragraph. constructed, all subject to the Engineers approval. The Contractor may alternatively make his own arrangement for detours to be

Volume 2, Chapter 13: Road works Signing, (SARTSM, June 1999, obtainable from the Government Printer, Pretoria)" the requirements of the relevant road authority. All temporary traffic control facilities shall also comply with the guidelines set in SA Road Traffic Signs Manual, "All temporary road signs, devices, sequences, layouts and spacing shall comply with the requirements of the Road Traffic Act, 1996 (Act 93 of 1996), the National Road Traffic Regulations, 2000, the South African Road Traffic Signs Manual and

C3.6: PROJECT SPECIFICATIONS

SABS 1200 AB: **ENGINEER'S OFFICE**

TEMPORARY/ PERMANENT OFFICES

offices should be able to accommodate one full time Engineer's Representative and two assistants. The offices should be of make by M projects or similar equivalent with the following minimum specification. The Contractor is to provide a temporary office for use by the Engineer. The

- should be aluminium an doors to be chromadek Exterior should be of chromadek make with a chromadek roof. Windows
- Interior should include oak ply cladding with vinyl flooring. Ceiling is to be with
- Air conditioning is to be provided

The Engineer's offices are to be equipped with the following as a minimum:

- Three desks each with lockable drawers
- Three high back swivel chairs
- Three visitors chairs
- A facility to store/hang drawers

accommodation of approximately 12 be held fortnightly or monthly. The contractor should also make arrangements for covered facilities to enable the accommodation of approximately 12 – 16 people during progress site meetings, to

progress payment until these facilities are provided. or commencement date. The facilities are to be provided, to the satisfaction of the Engineer, within 14 days The Engineer may withhold certification of the first

PSAB 2 NAMEBOARDS (Clause 3.1)

Substitute the first paragraph of Clause 3.1 with the following:

shall comply as regards site, painting and details of the municipalities standard The Contractor must supply and erect one name board at an approved site, and

PSAB 3 **SURVEY ASSISTANTS (Clause 5.5)**

Substitute "two or more suitable educated survey labourers" in this paragraph with "one semi-skilled labourer"

(non-consecutive) per week. labourer to help with testing, survey, etc., envisaged at approximately The Engineer's Representative will occasionally need the assistance of a survey 4 hours

PSAB 4 SURVEY EQUIPMENT

on site for the duration of the contract and for the use of the Engineer whenever needed. The Contractor shall provide the following tested and approved survey equipment

C3.6: PROJECT SPECIFICATIONS

SCOPE OF WORKS

- a) One automatic level plus tripod,
 b) One level staff, all graduated metrically and
 c) One 5m and one 25m-tana
- One 5m and one 25m-tape measure.

equipment insured against any loss; damage or breakage and he shall indemnify the Engineer and the Employer against any claims in this regard. Contractor and the Engineer's Representative. The above-mentioned equipment may, by arrangement be shared between the Contractor and the Engineer's Representative. The Contractor shall keep the

PSAB 5 **MEASUREMENT AND PAYMENT**

PSAB 5.1 Survey Assistant ((New Clause)

Payment for the survey assistant shall be at the tendered day work rates for the hours worked in assisting the Engineer's Representative. No payment shall be made for the survey equipment all costs shall be deemed to be covered by the rates tendered for the Contractor's facilities. No payment shall be made for the survey equipment or survey assistant and all costs shall be deemed to be covered by the rates tendered for the Contractor's facilities.

C3.6: PROJECT SPECIFICATIONS

SCOPE OF WORKS

SABS 1200 C: SITE CLEARANCE

PSC₁ SCOPE (Clause 1.1)

Add the following:

concrete, existing pipe culverts and existing roadway and layerworks, (at tie-ins and road widening), and saw cutting of existing road surfacing." specification also covers the removal of unreinforced and reinforced

PSC N **MATERIALS**

Disposal of Material (Sub-clause 3.1)

Delete the first two sentences of this clause and replace with:

but shall be included in the relevant items for clearing at the approved tip site. designated by the Engineer, shall be removed by the Contractor and disposed of structures that are not suitable for re-use in the works or for landscaping in areas "Debris arising from clearing Transport of such material shall not be paid separately, operations or from the demolition of existing

The rates tendered shall allow for any fees to be paid at the tip site."

PSC ယ MEASUREMENT AND PAYMENT

PSC 3.1 Clear And Grub (sub - clause 8.2.1)

dumping of material thus cleared under this scheduled item.
Unit of measurement for "clear and grub", for road works shall be the square metre, and no overhaul shall be payable to the Contractor for loading, temporary and The location of disposal or dumping sites shall be the Contractor's responsibility

and clearing for sewer and storm-water routes shall be metre

PSC 3.2 (Items measured separately) Cleaning of Existing Stormwater Manholes/ Catchpits

unit: m³

material and all other incidentals necessary to undertake the work. individual units. The tendered rate shall include for all plant, labour, spoiling The unit of measurement shall be the cubic meter of material removed from

PSC 3.3 Removal of Existing Roadway to Spoil (New Clause)

- **Existing Asphalt**
- Existing Base and Sub-base

unit: m³ unit: m³

neat vertical joint around the perimeter of the removed section of surfacing would be paid for under item PSC3.6 depth of 400mm, loading, transporting and disposal. The cost of saw cutting a rate shall cover the cost of breaking the surfacing and layer-works to a maximum thickness of the layer removed to the instructions of the Engineer. The tendered The volume measured shall be the area marked for removal multiplied by the

SABS 1200 DA: EARTHWORKS (SMALL WORKS)

C3.6: PROJECT SPECIFICATIONS

PSDA 1 **CLASSIFICATION FOR EXCAVATION PURPOSES (Clause 3.1)**

Delete Sub-Clause 3.1.1 and 3.1.2 and replace with the following:

PSDA 1.1 Method of Classifying

excavation. The Engineer or his Representative will decide on the classification of materials. In the first instance classification will be based on inspection of the material to be excavated and on the criteria given in PSD 3.1.2(a) and (c). The Contractor may use any method he chooses to excavate any class of material but his chosen method of excavation shall not determine the classification of the

PSDA 1.2 Classes of Excavation

excavation will be classified as follows: All materials encountered in any excavation for any purpose including restricted

<u>a</u> Soft Excavation

classified as soft excavation. Any material, which can be removed by bulldozers or backhoes, shall be

excavation. Soft excavation shall be material not falling into the category of hard rock

<u></u> Hard rock excavation

undecomposed boulders exceeding 0.17 cubic metre in individual volume) that cannot be efficiently removed without blasting, wedging and splitting, or hydraulic hammers rock excavation shall be excavation 3 material (including

This classification includes materials such as:

- Solid unfractured rock occurring in bulk
- Solid ledges thicker than 200mm
- Igneous rock intrusions
- Cemented sedimentary rocks

PSDA2 CONSTRUCTION

PSDA2.1 Conservation of Topsoil (5.2.1.2)

Add the following to Sub-clause 5.2.1.2:

prevent the compaction of topsoil in any way especially by vehicles travelling over such material." "Topsoil shall not be stockpiled higher than 2,0m. Care shall be exercised to

PSDA 3 **MEASUREMENT AND PAYMENT**

C3.6: PROJECT SPECIFICATIONS

PSDA 3.1 Working of borrow pits (new item)

<u>a</u> Removal of topsoil to stockpile

unit: m³

The unit of measurement shall be the cubic metre of topsoil removed. The tendered rate must include for all plant, labour and all other incidentals necessary to undertake the work, including fees payable for dumping to a municipal refuse site.

9 Excess overburden

unit: m³

measured in place after topsoil stripping The unit of measurement shall be the cubic metre of excess overturn

C Finishing of borrow area in

Hard rock material Soft material

unit: m² unit: m²

The unit of measurement for finishing of borrow area shall be the square metre measure in accordance with the finally excavated area of the borrow pit, before it is finished off

pits as specified in 5.2.2.2 The tendered rate shall include full compensation for finishing off the borrow

SABS 1200 DB: EARTHWORKS (PIPE TRENCHES)

C3.6: PROJECT SPECIFICATIONS

PSDB 1 **CLASSES OF EXCAVATION (Clause 3.1)**

The excavation of material, for the purposes of measurement and payment shall be classified as specified in PSDA 1.

SABS 1200 DM: EARTHWORKS (ROADS, SUBGRADE) C3.6: PROJECT SPECIFICATIONS

DEFINITIONS AND ABBREVIATIONS (Clause 2.3)

Add the following:

"The Contractor's attention is drawn to the definitions of formation level as defined in SABS 1200 M."

PSDM 2 **CLASSIFICATION OF EXCAVATION (Clause 3.1)**

Clause PSDA 1 will apply for this clause

PSDM 3 FILL (Clause 3.2.2)

In addition to the requirements of Clause 3.2.2, the following shall apply:

follows: The minimum CBR swell at 100% of modified AASHTO maximum density be as

Depth Below Final Road Surface (mm)	Maximum CBR SWELL (%)
250 - 800	1,5
Over 800	4,0

Sand shall be as for Clause 3.2.2

PSDM 4 SUBGRADE

density shall be The minimum CBR of the sub grade layers at 93% modified AASHTO maximum

PSDM 5 **CONSTRUCTION (Clause 5)**

PSDM 5.1 Treatment of Road Bed (Sub Clause 5.2.2.3)

(a) Preparation and Compaction of Road Bed

Add the following:

in-situ sand layer is to be firm and smooth in order to receive the subsequent S.S.G. or sub-base layer, as the case may be. To this end the Engineer may order that unnecessary construction traffic remain off the finished in-situ sand layer until the subsequent layer has been completed." "Where road bed preparation takes place in sand the in-situ sand layer is to be watered and compacted to 100% Modified. AASHTO density. The surface of the

PSDM 6 USE OF MATERIALS (Sub Clause 5.2.2.3 & 8.3.4)

be arranged to minimize the double handling of material. In addition to the requirements of Clause 5.2.2.3, the order of excavating cuts shall

PSDM 7 TRIMMING, GRADING AND COMPACTING OF SIDEWALKS (New Clause)

C3.6: PROJECT SPECIFICATIONS

drawings or as directed construction of the necessary kerbs, including the satisfactory backfilling behind the kerb, the sidewalk shall be finished off to the lines and levels shown on the After completion of the road layers, including the premix surface, and after

the existing, reshaped and compacted to levels as directed Shortfall material shall be imported from the designated borrow pit and mixed with

The Contractor shall be responsible for taking the necessary precautions and measures to control the dust nuisance, which may arise due to his operations on the sidewalk, whether from the natural ground surface or topsoil layer, until the Engineer accepts the verge.

PSDM 8 TRANSPORT

PSDM 8.1 Free haul (Clause 5.2.8.1)

material shall be free haul. Notwithstanding the provisions of Clause 5.2.8.1, all movements of cut and fill

PSDM 9 MEASUREMENT AND PAYMENT (Clause 8)

PSDM 9.1 (a) Cut to Fill, Borrow to Fill

Add to Sub-clause 8.3.4(1) the following:

selection from the sides of trenches, transporting, if necessary, stockpiling, preparing, processing, shaping (including forming side channels and benching if applicable), watering, mixing, compacting to the densities specified and finishing the slopes of fills." "Where fill material is borrowed from trench excavations the rate shall include the

undercuts shall be a minimum G7 quality material The fill material from commercial sources required for formation levels and

PSDM 9.2 Surface Finishes

Add to Sub-clause 8.3.13 the following sub-clause (c):

operation shall be measured and paid for under item 8.3.4 additional depth of excavation or reduction in fill height as ordered for the topsoil "The major earthworks required to bring the verge to the required level and the

PSDM 9.3 Construct Selected Layers using Imported Material Compacted to 95% Modified AASHTO (New Clause)

spreading, watering, compacting, final grading and complying with the tolerances The rate shall cover the cost of locating the source, complying with all the relevant precautions required in terms of Clause 5.1, SABS 1200 D, procuring the material, basic selection, transporting from source to point of deposition on the road,

SABS 1200 GA: CONCRETE (SMALL WORKS)

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PSGA 1 SCOPE (Clause 1.1)

This section includes specifications for various aspects of concrete referred to in other sections of the standard specifications.

PSGA 2 **CEMENT (3.2.1 and 3.2.2)**

The grade of concrete shall be as specified on the drawings or schedule of quantities. Cement shall not be kept in storage for longer than four weeks and shall be used in the order in which it has been stored.

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SABS 1200 LB: BEDDING (PIPES)

PSLB 1 SCOPE (Clause 1.1)

This section includes bedding for stormwater pipes and culverts.

PSLB 2 BEDDING MATERIALS (Clause 3.4.1)

PSLB 2.1 Source of material

It is anticipated that selected fill material will be available from trench excavations.

PSLB 2.2 Selective excavation for bedding materials

enable him to avoid burring or contaminating material that is suitable and is required for bedding. The details contained in SABS 1200 LB shall be used for all relevant bedding details as applicable. selective method of excavation and plant shall be adopted by the Contractor as to Notwithstanding the requirements of Clause 3.7 of SABS 1200 DB and Clause 3.4.1 of SABS 1200 LB regarding the use of selective methods of excavation,

PSLB 3 CRUSHED STONE BEDDING (New clause)

entirely at the Engineer's discretion. crushed stone material from commercial sources. The use of such stone will be granular material is not practical, use will be made of 13.2 or 19mm single sized Where the conditions on the trench bottom are so wet that the use of selected

PSLB 4 FREE HAUL (Clause 8.1.6)

shall be regarded as free haul. material from within the site. All material for bedding cradle and selected fill obtained from excavations on site No overhaul will be payable for obtaining bedding

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3.7 PARTICULAR SPECIFICATION

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Rev Date	DR NKOSAZANA DLAMINI ZUMA MUNICIPALITY	COL MUNICIPALITY	AA DY	A VAOS PLANT	
Section (s) change (d)	HSE (Health, Safety and Environment)	Activity	Safety Plan	Document Type	DOCUMENT INFORMATION
Description of Revision	AD TO THE PROPERTY OF THE PROP	Project Name	Occupational Health & Safety Officer	Originator	NOIT

ANNEXURE A

C3.7: PARTICULAR SPECIFICATIONS

PRE-CONSTRUCTION HEALTH AND SAFETY SPECIFICATION

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Initial Hazard Identification and Risk Assessment Format

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1. INTRODUCTION AND BACKGROUND

= Background to the Pre-construction Health and Safety Specification

health & safety specification, highlighting all risks not successfully eliminated during design The Construction Regulations (July 2003) place the onus on the Client to prepare a pre-construction

1.2 Purpose of the Pre-construction Health and Safety Specification

construction specification shall act as the basis for the drafting of the construction phase health & safety promulgated Construction Regulations (July 2003) in order to reduce incidents and injuries. To assist in achieving compliance with the Occupational Health & Safety Act 85/1993 and the now This pre-

priority as other facets of the project e.g. cost, programme, environment, etc. and other Contractors so that the health & safety of all persons potentially at risk may receive the same The pre-construction specification sets out the requirements to be followed by the Principal Contractor

Implementation of the Pre-construction Health and Safety Specification

can in turn prepare health & safety plans relating to their operations tender phase when drawing up its project-specific construction phase health & safety plan. The Principal This specification forms an integral part of the contract, and the Contractor is required to use it at pre-Contractor shall forward a copy of this specification to all Contractors at their bidding stage so that they

Ņ PRE-CONSTRUCTION HEALTH AND SAFETY SPECIFICATION

2.1 Scope

particular project This Specification covers the requirements for eliminating and mitigating incidents and injuries on the

makes provision for the protection of those persons other than employees. promoting a health and safety culture amongst those working on the project. The scope also addresses legal compliance, hazard identification and risk assessment, risk control, and The specification also

2.2 Interpretations

2.2.1 Application

therefore binding. It must be read in conjunction with relevant legislation as noted previously. This specification is a compliance document drawn up in terms of South African legislation and 2

2.2.2 Definitions

(July 2003) shall apply. The definitions as listed in the Occupational Health & Safety Act 85/1993 and Construction Regulations

2.3 Minimum Administrative Requirements

2.3.1 Notification of Intention to Commence Construction Work

appointment construction work commences. The Contractor shall notify the Provincial Director of the Department of Labour in writing before A copy of this notification must be forwarded to the Client on

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2.3.2 Assignment of Contractor's Responsible Persons to Supervise Health and Safety on Site

writing (as stipulated by the OHSA and Construction Regulations), prior to commencement of The Contractor shall submit supervisory appointments as well as any relevant appointments in Proof of competency must be included. See annexure B.

2.3.3 Competency for Contractor's Appointed Competent Persons

(July 2003). Proof of competence for the various appointments must be included. as stipulated under the definition of Competent in accordance with the Construction Regulations Contractors' competent persons for the various risk management portfolios shall fulfil the criteria

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

Contractor before they commence work on site. the Client as proof of registration. Contractors shall submit proof of registration to the Principal The Principal Contractor shall submit a letter of good standing with its Compensation Insurer to

2.3.5 Occupational Health and Safety Policy

their Chief Executive Officer. The Policy must outline objectives and how they will be achieved and implemented by the Company / Contractor. The Principal Contractor and all Contractors shall submit a Health and Safety Policy signed by

2.3.6 Health and Safety Organogram

and Safety Site Management Structure including the relevant appointments/competent persons. Management Structure In cases where appointments have not been made, the organogram shall reflect the intended The Principal Contractor and all Contractors shall submit an organogram, outlining the Health The organogram shall be updated when there are any changes in the Site

2.3.7 Identification and Risk Assessment **Preliminary** Hazard Identification and Risk Assessment and Progress Hazard

construction phase health and safety plan submitted for approval by the Client. before commencement of construction work, and the assessed risks shall form part of the assessment must include; The Contractor shall cause a hazard identification to be performed by a competent person The risk

- a) A list of hazards identified as well as potentially hazardous tasks;
- ٥ A documented risk assessment based on the list of hazards and tasks;
- c A set of safe working procedures (method statements) to eliminate, reduce and/or control the risks assessed;
- 9 A monitoring and review procedure of the risks assessment as the risks change

by a competent person regarding any hazards, risks and related safe work procedures before any work commences and thereafter at regular intervals as the risks change and as new risks The Principal Contractor shall ensure that all Contractors are informed, instructed and trained

negatively affected by its operations are informed and trained according to the hazards and The Principal Contractor shall be responsible for ensuring that all persons who could be

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rules (tool box talk strategy to be implemented). risks and are conversant with the safe work procedures, control measures and other related

2.3.8 Health and Safety Representative(s)

inspections, keep records and report all findings to the Responsible Person forthwith and at appointment must be in writing. Representative(s) are appointed under consultation and trained to carry out their functions. The health & safety meetings. Principal Contractor and all Contractors The Health and Safety Representative shall carry out regular shall ensure that Health and

2.3.9 Health and Safety Committees

minutes of their meetings shall be forwarded to the Principal Contractor on a monthly basis their own internal health & safety committees in accordance with the OHS Act 85/1993 and Representatives shall attend the monthly health & safety meetings. Contractor's Responsible Person. All Contractors' Responsible Persons and Health & Safety and minutes are kept on record. Meetings must be organised and chaired by the Principal The Principal Contractor shall ensure that project health and safety meetings are held monthly Contractors shall also have

2.3.10 Health and Safety Training

2.3.10.1 Induction

safety induction training session before starting work. A record of attendance shall be kept in the health & safety file. The Principal Contractor shall ensure that all site personnel undergo a risk-specific health & A suitable venue must be supplied to house this training.

2.3.10.2 Awareness

Contractors have to comply with this minimum requirement. least once per week. These talks should deal with risks relevant to the construction The Principal Contractor shall ensure that, on site, periodic toolbox talks take place at work at hand. A record of attendance shall be kept in the health & safety file.

2.3.10.3 Competency

out construction work Principal Contractor is responsible to ensure that competent Contractors are appointed to carry be assessed on a regular basis e.g. periodic audits by the Client, progress meetings, etc. specific to the work they have been appointed to supervise, control, carry out. This will have to All competent persons shall have the knowledge, experience, training, and qualifications

2.3.11 General Record Keeping

The Principal Contractor and all Contractors shall keep and maintain Health and Safety records to demonstrate compliance with this Specification, with the OHS Act 85/1993; and with the Construction Regulations (July 2003). The Principal Contractor shall ensure that all records of incidents/accidents, training, inspections, audits, etc. are kept in a health & safety file held in the site office. The Principal Contractor must ensure that every Contractor opens its own health & safety file, maintains the file and makes it available on request.

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2.3.12 Health & Safety Audits, Monitoring and Reporting

records of these audits in their health & safety files, available on request. a copy being forwarded to the Client. Project Health & Safety File while the Principal Contractor audit reports shall be kept in their file management meetings/forums. Copies of the Client audit reports shall be kept in the Primary Detailed reports of the audit findings and results shall be reported on at all levels of project Principal Contractor is obligated to conduct similar audits on all Contractors appointed by it The Client shall conduct monthly health & safety audits of the work operations including a full audit of physical site activities as well as an audit of the administration of health & safety. The Contractors have to audit their sub-contractors and keep

2.3.13 Emergency Procedures

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

- List of key competent personnel;
- Details of emergency services;
- Actions or steps to be taken in the event of the specific types of emergencies
- Information on hazardous material/situations.

available to site personnel. (Fire Department, Ambulance, Police, Medical and Hospital, etc) must be maintained and emergencies, together with a record of action taken. A contact list of all service providers to employees, use of hazardous substances, bomb threats, major incidents/accidents, Emergency procedure(s) shall include, but shall not be limited to, fire, spills, accidents The Principal Contractor shall advise the Client in writing forthwith,

2.3.14 First Aid Boxes and First Aid Equipment

with more than 10 employees shall have a trained, certified first aider on site at all times. with first aid facilities, including first aid boxes adequately stocked at all times. All Contractors with more than 5 employees shall supply their own first aid box. Contractors appointed First Aider(s) are to be sent for accredited first aid training. Valid certificates are to be kept on site. The Principal Contractor shall provide an on-site First Aid Station The Principal Contractor and all Contractors shall appoint in writing First Aider(s).

2.3.15 Accident / Incident Reporting and Investigation

report all injuries to the Client in the form of a detailed injury report at least monthly. Contractor must stipulate in its construction phase health & safety plan how it will handle each of these categories. When reporting injuries to the Client, these categories shall be used. All injuries shall be investigated by the Principal Contractor, with a report being injuries to the Principal Contractor at least monthly. forwarded to the Client forthwith. Injuries are to be categorised into first aid; medical; disabling; and fatal. The Principal All Contractors have to report on the 4 categories of or at least monthly. The Principal Contractor must

2.3.16 Hazards and Potential Situations

of construction activities. The Principal Contractor shall immediately notify other Contractors as well as the Client of any hazardous or potentially hazardous situations that may arise during performance

2.3.17 Personal Protective Equipment (PPE) and Clothing

The Principal Contractor shall ensure that all workers are issued and wear hard hats, safe footwear and overalls. The Principal Contractor and all Contractors shall make provision and keep adequate quantities of SABS approved PPE on site at all times. The Principal Contractor shall clearly outline procedures to be taken when PPE Clothing

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<u>s</u>

- Lost or stolen;
- Worn out or damaged.

Employers in their own right. The above procedure applies to Contractors and their Sub-contractors, as they are all

2.3.18 Occupational Health and Safety Signage

The Contractor shall provide adequate on-site OHS signage. Including but not limited to: 'no unauthorised entry', 'report to site office', 'site office', 'beware of overhead work', 'hard hat area'. Signage shall be posted up at all entrances to site as well as on site in strategic locations e.g. access routes, entrances to structures and buildings, and other potential risk areas/operations.

2.3.19 Permits

Permits may include the following:

- Use of Explosives and Blasting
- Work for which a fall prevention plan is required
- Use of cradles
- Hot worl
- Confined space

2.3.20 Contractors and Sub-contractors

this Specification, the OHS Act 85/1993, Construction Regulations (July 2003), and all other relevant legislation that may relate to the activities directly or indirectly. The Contractor, when appointing other Contractors as 'Sub-contractors', shall mutatis mutandis ensure compliance. The Principal Contractor shall ensure that all Contractors under its control comply with

2.3.21 Incentives and Penalties

Certain incentives will be provided for ongoing compliance to the provisions construction phase health & safety plan submitted by the Principal Contractor.

Penalties will be implemented for ongoing non-compliance to the provisions of the construction-phase health & safety plan as submitted by the Principal Contractor.

2.4 Physical Requirements

2.4.1 Demolition Work

Construction Regulations (July 2003). Acceptance will then be issued to the Principal Contractor to proceed with the demolition work. The Principal Contractor shall ensure that demolition work complies with the safe working procedure and a detailed engineering survey for approval by the Client. Prior to any demolition work being carried out, the Principal Contractor shall submit a It is envisaged that minor ground level demolitions are to be carried out on this project.

2.4.2 Excavations, Shoring, Dewatering or Drainage

The Principal Contractor and any relevant Contractors shall make provision in their tender for shoring, dewatering or drainage of any excavation as per this specification. Trenching of an approximate depth of up to 4 metres is to be carried out on this project.

The Contractor shall make sure that:

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- The trench excavations are inspected before every shift and a record is kept;
- <u>5 9</u> must be held in the Safety File Safe work procedures have been communicated to the workers; Copies of which
- 0 The safe work procedures are enforced and maintained by Responsible Persons at all times the Contractor's
- ٩ The requirements as per section 11 of the Construction Regulations are adhered to

2.4.3 **Edge Protection and Penetrations**

all other openings and areas where a person may fall. edges, finished floor slab edges, stairways, floor penetrations, lift shafts, trenches and Contractor's risk assessment must include these items. and demarcated at all times until permanent protection has been erected. The Principal Contractor must ensure that all exposed edges and openings are guarded E.g. protection of decking The Principal

2.4.4 Explosives and Blasting

Not envisaged to be applicable on this project

2.4.5 Piling

Not envisaged to be applicable on this project

2.4.6 Stacking of Materials

appointed stacking supervisor and all materials, formwork and all equipment is stacked The Principal Contractor and other relevant Contractors shall ensure that there is an

2.4.7 Speed Restrictions and Protection

The Principal Contractor shall ensure that all persons in its employ, all Contractors, and all those that are visiting the site are aware and comply with the site speed restriction(s). Separate vehicle and pedestrian access routes shall be provided, maintained, controlled, and enforced.

2.4.8 Hazardous Chemical Substances (HCS)

incidents appropriately. chemicals. made aware of the hazards and precautions that need to be taken when chemicals on site have a Material Safety Data Sheet (MSDS) on site and the users prescribed by the HCS Contractor shall ensure that the use, transport, and storage of HCS is carried out as training and information regarding the use, transport, and storage of HCS. The Principal Contractor and other relevant Contractors shall provide the necessary The First Aiders must be made aware of the MSDS and how to treat Regulations. The Contractor shall ensure that all hazardous The Principal using

2.4.9 Asbestos

Not applicable

2.5 Plant and Machinery

2.5.1 Construction Plant

"Construction Plant" includes all types of plant including but not limited to, cranes, piling rigs, excavators, road vehicles, and all lifting equipment.

The Principal Contractor shall ensure that all such plant complies with the requirements of the OHS Act 85/1993 and Construction Regulations (July 2003). The Principal

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Contractor and all relevant Contractors shall inspect and keep records of inspections of the construction plant used on site. Only authorised/competent persons are to use machinery under proper supervision. Appropriate PPE and clothing must be provided and maintained in good condition at all times

2.5.2 Vessels under Pressure (VuP) and Gas Bottles

under Pressure Regulations, including: The Principal Contractor and all relevant Contractors shall comply with the Vessels

- Providing competency and awareness training to the operators
- Providing PPE or clothing;
- Inspect equipment regularly and keep records of inspections
- Providing appropriate fire fighting equipment (Fire Extinguishers) on hand

2.5.3 Fire Extinguishers and Fire Fighting Equipment

Not envisaged to be applicable on this project

2.5.4 Hired Plant and Machinery

that operators hired with machinery are competent and that certificates are kept on site in the health & safety file. All relevant Contractors must ensure the same. Construction Regulations (July 2003) shall apply. The Principal Contractor shall ensure The Principal Contractor shall ensure that any hired plant and machinery used on site is safe for use. The necessary requirements as stipulated by the OHS Act 85/1993 and

2.5.5 Scaffolding / Working at Heights

2.5.6 Not envisaged to be applicable on this project

Formwork and Support work for Structures

ground level. The formwork on this project is envisaged to be not more than two metres in height from

inspections must be kept in a register in the safety file on site. on a daily basis until the formwork and support work has been removed. Records of all that all formwork and support work is inspected by a competent person immediately not be limited to ensuring that all equipment used is examined for suitability before use; before, during and after placement of concrete or any other imposed load and thereafter Construction Regulations (July 2003) are adhered to. Principal Contractor shall ensure that the provisions of section 10 of the These provisions must include but

2.5.7 Lifting Machines and Tackle

lifting machinery and tackle inspector who must inspect the equipment daily or before The Principal Contractor and all Contractors shall ensure that lifting machinery and tackle is inspected before use and thereafter in accordance with the Driven Machinery Regulations and the Construction Regulations (section 20). There must be a competent use, taking into account that:

- All lifting machinery and tackle has a safe working load clearly indicated
- Regular inspection and servicing is carried out;
- Records are kept of inspections and of service certificates;
- banksman to direct lifting operations and check lifting tackle; proper supervision in terms of guiding the loads that includes a trained
- The tower crane bases have been approved by an engineer;
- in possession of a medical certificate of fitness to be available on site operators are competent as well as physically and psychologically fit to work

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2.5.8 Ladders and Ladder Work

Not envisaged to be applicable on this projec

2.5.9 General Machinery

training those who use machinery Driven Machinery Regulations, which include inspecting machinery regularly, appointing a competent person to inspect and ensure maintenance, issuing PPE or clothing, and The Principal Contractor and relevant Contractors shall ensure compliance with the

2.5.10 Portable Electrical Tools and Explosive Powered Tools

to make workers aware of the dangers and control measures to be implemented are kept in safe working order. Regular inspections and toolbox talks must be conducted Safety File. personal protection equipment, guards, etc. Inspection records must be kept in ensure that all electrical tools, electrical distribution boards, extension leads, and plugs The Contractor shall ensure that use and storage of all explosive powered tools and portable electrical tools are in compliance with relevant legislation. The Contractor shall

The Contractor shall consider the following:

- A competent person undertakes routine inspections and records are kept;
- Only authorised trained persons use the tools;
- The safe working procedures apply;
- Awareness training is carried out and compliance is enforced at all times; and
- PPE and clothing is provided and maintained.
- A register indicating the issue and return of all explosive round;
- Signs to be posted up in the areas where explosive powered tools are being used.

2.5.11 High Voltage Electrical Equipment

- on, under or above the construction area. The Contractor must ensure that no high voltage electrical equipment is present
- operators of earthmoving equipment. If there are, these need to be identified and its whereabouts be made known to all
- The appointed excavation supervisor must direct operators in excavating around
- aware of the danger of underground electrical cables and the position thereof. All persons in the employ of the Contractor or anyone on site must be made

2.5.12 Public and Site Visitor Health & Safety

directly parallel to the excavation trench This project is undertaken in a busy street with businesses trading on a daily basis

trench and the trench and the business. A solid barrier of at least two metres high must be erected between the road and the

Access from the road to the shops over the excavation must be limited. These accesses must be of such a nature that no person or vehicle can fall into the trench when using it to cross the trench. Signage must be posted to direct members of the public to these

times it will have to be moved in order to offload or place material This barrier must be maintained in a proper condition at all times. This is important as at

The Principal Contractor shall ensure that every person working on or visiting the site, as well as the public in general, shall be made aware of the dangers likely to arise from

only measure taken. Appropriate health and safety notices and signs shall be posted up, but shall not be the site activities, including the precautions to be taken to avoid or minimise those dangers.

C3.7: PARTICULAR SPECIFICATIONS

from being affected by the construction activities. Both the Client and the Principal Contractor have a duty in terms of the OHS Act 85/1993 to do all that is reasonably practicable to prevent members of the public and site visitors

Site visitors must be briefed on the hazards and risks they may be exposed to and what measures are in place or should be taken to control these hazards and risks. A record of these 'inductions' must be kept on site in accordance with the Construction Regulations

2.5.13 Night Work

Not envisaged to be applicable on this project

2.5.14 Transport of Workers

The Principal Contractor and other Contractors shall not:

- area or section to store them; Transport persons together with goods or tools unless there is an appropriate
- shall not be permitted to stand or sit at the edge of the transporting vehicle. canopy (properly covering the back and top) with suitable sitting area. Workers Transport persons in a non-enclosed vehicle, e.g. truck; there must be a proper
- correct number of seats for the passengers. Transport workers in bakkies unless they are closed/covered and have the

2.5.15 Manual labour

to be packed in the construction of the Gabions Contractors will supply workers with the necessary knowledge of the dangers of handling stones A high degree of manual labours both skilled and semi skilled is required on this project.

Hand protection must be worn at all times

High risk of injury to hands and body exists when working with wire. Contractors will ensure that all wire ends ends inwards

Adequate breathing protection must be worn when cutting Geotextile to prevent the fibres to be

2.6 Occupational Health

2.6.1 Occupational Hygiene

dust, noise, etc. should be considered. and noise induction. Site-specific health risks such as cement dust, wet cement, place to prevent exposure to these hazards. Prevent inhalation, ingestion, absorption and all Contractors must ensure that proper health and hygiene measures are put in work environment, especially in construction. Occupational exposure is a major problem Exposure of workers to occupational health hazards and risks is very common in any

2.6.2 Welfare Facilities

and hand drying material must be provided. Waste bins must be strategically placed and (1 for every 15 workers), changing facilities, hand washing facilities, soap, toilet paper, emptied regularly. personal belongings and personal protective equipment. The Principal Contractor must supply Sufficient toilets (1 toilet per 30 workers), showers Safe, clean storage areas must be provided for workers to store Workers should not be

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sheltered eating areas. exposed to hazardous materials/substances while eating and must be provided with

2.6.3 Alcohol and other Drugs

of alcohol or any other drugs while on the construction site. Any person on prescription drugs must inform his/her superior, who shall in turn report this to the Principal Contractor forthwith. Any person suffering from any illness/condition that may have a negative effect on his/her safety performance must report this to his/her superior, who followed by the Contractor concerned and a copy of the disciplinary action must be forwarded to the Principal Contractor for his records. report back the next day for a preliminary inquiry. A full disciplinary procedure must be being under the influence of alcohol or other drugs must be sent home immediately, to shall in turn report this to the Principal Contractor forthwith. Any person suspected of No alcohol and other drugs will be allowed on site. No person may be under the influence

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PRE-CONSTRUCTION HEALTH AND SAFETY SPECIFICATION (HSS)

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ANNEXURE A

The Principal Contractor and Contractors must submit proof of compliance with Annexure A with the construction phase H&S plan where applicable.

	2.3 8	2.3.7	2.3.6	2.3.5	2.3.4	2.3.3	2.3.2	2.3.1	HSS ItemNo.
Other	Health and Safety Representative	Initial Hazard Identification and Risk Assessment based on the Client's assessment	Health and Safety Organogram	Occupational Health and Safety Policy	Compensation of Occupational Injuries and Diseases Act (COIDA) 130 of 1993	Competence of Responsible Persons	Assignment of Responsible Person to Supervise Construction Work	Notification of Intention to Commence Construction / Building Work	Requirement
	OHS Act	Construction Regs.	Client Requirement	OHS Act	COIDA Requirement	Client Requirement & OHS Act	All relevant appointments, as per OHS Act and Construction Regs.	Complete Schedule 1 (Construction Regulations)	OHSA Requirement
	Before commencement on site	Together with H&S plan	Together with H&S plan	Together with H&S plan	Together with H&S plan	Together with H&S plan	Before commencement on site	Before commencement on site	Submission Date

SCOPE OF WORKS

ASSIGNMENT OF PRINCIPAL CONTRACTOR'S RESPONSIBLE PERSONS

Project:

The Principal Contractor shall make the following appointments according to the initial risk assessment: (further appointments could become necessary as project progresses)

Appointment

OHSA

Requirement

ANNEXURE B

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C3.7:	
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Project:

The Principal Contractor shall comply but not be limited to the following requirements: report on these to the Client at progress meetings or at least monthly whichever is sooner.

Every worker before he/she starts work. At least weekly Attendance registers At least weekly Attendance registers - Incidents / accidents and investigations - Incidents / accidents - Internal & External H&S - audit reports - Internal & External H&S - audit reports - Internal & External H&S - audit reports - Internal & External H&S - Internal & Int	What	When	Output	Accepted by Client & date
At least weekly Attenda Monthly Congoing evaluation of procedure Updated and signed off at least monthly Drawn up before workers are exposed to new risks Weekly & daily List to be updated and Componing Ongoing Congoing Attenda Report of table and Signed of table and Componing Monthly Ongoing Attenda Table procedure Well as to Docume procedure procedure proced	Induction training	Every worker before he/she starts work.	Attendance registers	3 444
Ongoing evaluation of procedure Updated and signed off at least monthly Drawn up before workers are exposed to new risks Weekly & daily List to be updated workmar of good so o	Awareness Training (Tool Box Talks)	At least weekly	Attendance registers	
Ongoing evaluation well as of procedure Updated and signed off at least monthly Drawn up before workers are exposed to new risks Weekly & daily Monthly List to be updated weekly Ongoing Congoing Ongoing Table a workmal of good Mandata	Health & Safety Reports	Monthly	Report covering: Incidents / accidents and investigations Non conformances by employees & contractors Internal & External H&S audit reports	
Updated and signed off at least monthly Drawn up before workers are exposed to new risks Weekly & daily Monthly List to be updated weekly Ongoing Ongoing Ongoing Docume procedus stateme signed of Report (and Contact and Contac	Emergency procedures	Ongoing evaluation of procedure	Table procedure in writing as well as tel. numbers	
Drawn up before workers are exposed to new risks signed of the new risks signe	Risk assessment	Updated and signed off at least monthly	Documented risk assessment	
Weekly & daily Monthly List to be updated and Con Ongoing Table a workman of good Congoing Table a Mandata	Safe work procedures	Drawn up before workers are exposed to new risks	Documented set of safe work procedures (method statements), updated and sinned off	
List to be updated and Con Ongoing Table a workman of good Congoing Table a Mandata	General Inspections	Weekly & daily	Report OHS Act compliance: Excavations Formwork & support work Explosive tools	
List to be updated and Con and Con Table a workman of good Table a Mandata	General Inspections	Monthly	Portable electrical equipment Liffing equipment/slings	
Ongoing	List of contractors Workman's	List to be updated weekly Ongoing	Table list, number of workers and Company tel. numbers Table a list of Contractors'	
	Compensation Construction site rules & Section 37.2 Manadatary Agreement	Ongoing	workman's compensation proof of good standing. Table a report of all signed up Mandataries.	

DR NKOSAZANA DLAMINI ZUMA MUNICIPALITY

CONTRACT No.: PWBS-B025/22/23

Construction of Artificial Turf Grass (phase 2)

				EXURE D ssessment		
Project:_						
TASK C	PRIENTATED RIS	SKS	····		DATE	= <u>;</u>
Rating	Task / situation	Personal protective equipment	Risk to safety	Preventative action	Risk to health	Risk to Environme
ENT RISI	ks					
Rating	Activity / Situation	Personal Protective Equipment	Risk to Safety	Preventative Action	Risk to Health	Risk to Environment
PHYSICA	L RISKS					
Rating	Situation	Personal Protective Equipment	Risk to Safety	Risk to Health	Preventative Action	Risk to Environment

DR NKOSAZANA DLAMINI ZUMA MUNICIPALITY CONTRACT No.: PWBS-B025/22/23

Construction of Artificial Turf Grass (phase 2)

ERGONOMICAL RISKS

Rating	Situation	Personal Protective Equipment	Risk to Safety	Risk to Health	Preventative Action	Risk to Environment

BEHAVIOURAL RISKS

Rating	Situation	Personal Protective Equipment	Risk to Safety	Risk to Health	Preventative Action	Risk to Environment

C3.7: PARTICULAR SPECIFICATIONS

SCOPE OF WORKS

	Comments:
Date	Signature of Client / Client's Agent
Date	Signature of Principal Contractor / Contractor
the content of the Pre-construction Health and ncipal Contractor / Contractor and its personnel ct thereof.	Contractor / Employer have satisfied myself with the content of the Pre-construction Health and Safety Specification and shall ensure that the Principal Contractor / Contractor and its personnel comply with all obligations / requirements in respect thereof.
Principal Contractor /	
	Acknowledgement of receipt:
URE E	ANNUXURE E

C3.7: PARTICULAR SPECIFICATIONS

SCOPE OF WORKS

C3.7.2 ENVIRONMENTAL MANAGEMENT PLAN

C4: SITE INFORMATION

SCOPE OF WORKS

C4: SITE INFORMATION

C4.1: CONDITIONS ON SITE

C4.1 Nature of Ground

No test pit data is available

by the Tenderer or his agents, while carrying out such excavations indemnify the Municipality against the cost of repairing any underground services damaged the position of any underground services, which may exist in the area. The Tenderer shall expense provided that they are properly safeguarded and reinstated. Should the Tenderer wish to excavate his own trial holes; he shall first ascertain, in conjunction with the Engineer, The Tenderer will be permitted to excavate trial holes in the area of the works at his own

C4.2 Spoil Material

be spoiled off site to a spoil site/municipal dump, chosen by the Contractor No indiscriminate spoiling of material will be allowed. All unsuitable or surplus material shall

C4.3 Finishing – off the Site

requirements of all applicable environmental standards The site shall be finished-off in accordance with the specifications as well as ರ

C4.4 Existing Services

services. the area. Items have been allowed in the Schedule of Quantities for dealing with and protecting known, variations do arise and the Contractor shall exercise extreme care when working in telephone cables etc.), as accurately as possible on the contract drawings, insofar as they are Although every effort has been made to depict existing services (water mains, electric cables,

damage during the period of the Contract. The Contractor shall take whatever precautions are required to protect these services from

C4.5 Proving of Underground Services

that area It is stressed that all services in a particular area must be proven before commencing work in

Engineer carefully excavate by hand to expose and prove their positions where from site observations can reasonably be expected that such services are likely to exist where excavations are to take place, the Contractor shall without instructions from the Insofar as bulk earthworks are concerned, where services are indicated on the drawings or

action is to be carried out and shall instruct the Contractor accordingly. such circumstances to the Engineer who will decide what further searching or other necessary When a service is not located in its expected position the Contractor shall immediately report

found that the procedure laid down in this clause has not been followed than all costs Should any service be damaged by the Contractor in carrying out the works, and should it be ⊒.

C4: SITE INFORMATION

SCOPE OF WORKS

connection with the repair of service will be to the Contractors account.

Proving of services shall be completed at least two weeks in advance of the actual programmed date for commencing work in the area. The position of these services located must be coordinated and leveled by the Contractor, and the information given in writing to the Engineer's representative.

The requirements of this clause do not relieve the Contractor of any obligations as detailed under the General Conditions of Contract or the Special Conditions of Contract.

-

DR NKOSAZANA DLAMINI ZUMA MUNICIPALITY CONTRACT No.: PWBS-B025/22/23 Construction of Artificial Turf Grass (phase 2)

C4: SITE INFORMATION

SCOPE OF WORKS

C4.2 LOCALITY PLAN

C5: ANNEXURES

SCOPE OF WORKS

C4.3 CONTRACT NOTICE BOARD

C5: ANNEXURES

SCOPE OF WORKS

C5 ANNEXURES

C5.1 DRAWINGS

document. provisional and preliminary for the tenderer's benefit to generally assess the scope of work. The drawings may be issued as a separate book of drawings or else bound in as part of this The drawings issued to tenders as part of the tender documents must be regarded as

approved for construction (AFC) The work shall be carried out in accordance with the latest available revision of the drawings

defects correction of the works for construction purposes as may be necessary for adequate construction, completion and to time thereafter during the progress of the works, the Engineer may issue further drawings AFC drawings and any instructions required for the commencement of the works. From time At commencement of the contract, the Engineer shall deliver to the Contractor copies of the

Drawings issued separately are listed in the Book of Drawings

the Contractor shall return all drawings and copies thereof to the Employer at the completion of the contract. All drawings and specifications and copies thereof remain the property of the Employer, and

	103,12	103,11	103,10	103,09	103,08	103,07	103,06	103,05	103,04	103,03	103,02	103,01	103,00	102,04	102,03	102,02	102,00 102,01	101,12	101,11	101,10	101,09	101,08	101,07	101,05	101,04	101,03	101,02	100,00 101,00		ПЕМ
													8.4.2.1				8,40 8.4.1											8,30 8,30 8.3.1	1200 A	PAYMENT
Total Carried Forward	Allow for survey and submission of as-built survey data	Allow for percentage on above to cover overheads and profit	Allow for payment Community Student (S4)	Allow for percentage on above to cover overheads and profit	Allow for payment Community Liason Oficer (CLO)	Preparation of risk assessment, safe work procedures, the project H & S file, the H & S plan, the provision of PPE and protection clothing and any other H & S matters that the contractor deems necessary	Allow for percentage on above to cover overheads and profit	Allow for work to Undertaken by nominated environmental consultant for conducting EIA, full compliance with EMP specification and supervision during construction as directed by Project Manager.	Submission of Health and safety file	Contractor's time related obligation in respect of the OHSA and Construction Regulations	Contractor's initial obligation in respect of the OHSA and Construction Regulations	Offices and storage sheds	Eacilities for Contractor for the duration of Construction except where otherwise stated	Clearance of Site during Construction and on Completion	Setting Out	Supervision for Duration of Contract	TIME RELATED ITEMS Contractual Requirements	Removal of Site Establishment	Establishment of Facilities on the Site	Contract Notice Board	Tools and Equipment	Ablution and Latrine Facilities	Dealing with water (subclause 5.5)	Workman's Compensation	Third Party Insurance	Insurance of works,etc. and damage to persons and property	Sureties	PRELIMINARIES AND GENERAL FIXED CHARGES AND VALUE RELATED ITEMS Fixed Charges Contractual Requirements	SECTION 1	DESCRIPTION
	E E E E E E E E E E E E E E E E E E E	%	PC Sum	%	PC Sum	Sum	%	PC Sum	Sum	Sum	Sum	Sum		Sum	Sum	Sum	Sum	Sum	Sum	Sum	S I	SP	S	Sum ii	2 2	n u	2 0	o j		UNIT
	_	R 35 000,00	>	R 23 000,00	•	<u> </u>	R100 000,00	<u>.</u>	_	_	۵.	٠.		_	_	_	<u> </u>	_	٠.	٠ .	٠ .	٠ .								QUANTITY
	R 50 000,00		R 35 000,00		R 23 000 00			R 100 000,00																						RATE
	R 50 000,00		R 35 000,00	25000000	R 23 000 00			R 100 000,00										-												AMOUNT

	202,15	202,14	202, 13	3	202,12		202,11			202,10	202,09		202,08	202,07			202,06	202,05	202,04	202,00	202 03	202,02	202,01	202,00	202,00	201,00	200,00		пем ио
																5.2.3.3	5.2.3.2											SABS	ITEM NO PAYMENT
Total Carried Forward	Supply and install marking with white lines; 1 set of steel Goal posts and 4 comer flags including all fittings, nets and flags	Field Equipment Supply and install marking with white lines; 1 set of steel Goal posts and 4 comer flags including all fittings, nets and flags	Artificial Grass Turf	PRECAST CONCRETE	Supply and install geotextile membrane to floors	Membrane to floors	160mm Pipes laid covered with bidum including trenches not exceeding 1m deep	Class 12 Upvc pipes	DRAINAGE		02 To horizontal field surfaces.	Only poisining to be carried out by a registered pest control company and certificate to be supplied for weed killer and termites.	Soil Insecticide:	10mm thick including compaction and dressing	G1 material for Infill to final tolerance supplied by the contractor	19mm crush stone overlayed to field surface and compacted	Compaction of G5 surface including scarifying for a depth of 150mm, breaking down oversize material, adding suitable materil where necessary and compacting to 95% Mod AASHTO density.	Compaction of surfaces	150mm thick supply and dressing	CS material to subbase dilling supplied by the partners.	EXCAVATION FOR BULK EARTHWORKS	EXCAVATION.FILLING.ETC	Removal of existing bulk topsoil, shrubs debris etc	EXCAVATION FOR BULK EARTHWORKS	EXCAVATION FILLING ETC	Clear site for all rub, shrubs debris etc	EARTHWORKS	SECTION 2	
	Sum	Sum	3		m²		3			:	₹.			∄3	:	∃್ಯ	m³		3.	Ę	s.		∃,			m²			UNIT
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																	4386-												RATE
																													AMOUNT

		20;			20.		20			20			2			Ta
F		202,20			202,19		202,18			202,17			202,16			N W
																TEM NO PAYMENT
	02	2	_	8	9	5			02	3		ន	2			
Total Carried Forward to Summary	Mark up on the above item 202.20	Allow a Provisional Sum of R 2 400 000.00 for industrial complete unit for High Mast Lights with complete wiring, switches, lights and poles .	HIGH MAST LIGHTS	Mark up on the above item 202,19	Allow a Provisional Sum of R 450 000.00 for construction of combination court including synthetic surface finish, including 2 sports code marked with different colour lines.	Mark up on the above liem 202.18 COMBINATION COURT	Allow a Provisional Sum of R 500 000.00 for industrial complete unit 243m centrifungal Solar borehole solution including testing, drilling, installation of pipes, supply and install 10000l tank with galvanised steel stand and 75Kw Booster pump in a lockable cage as per specialist specification.	INDUSTRIAL SOLAR BOREHOLE	Mark up on the above item 202.17	Supply and install a 6 perret irrigation system including all water supply recliculation, valves, times, fittings etc.	IRRIGATION	Mark up on the above item 202.16	Supply and install Slide Max Pro 50 GreenFields Synthetic Turf system with a yam weight of 1311 girlsqm and comprises of a diamond shaped 365 micron yam or similar approved (Size 126m x 94m). This includes installation and all line markings, glue, glue tape as well as FIFA required rubber infill, Warrant of 7 years minimum and 7 years guarantee to be provided.	ARTIFICIAL TURF	PROVISIONAL SUMS	DESCRIPTION
	%	Prov Sum	;	%	Prov Sum	%	Prov Sum		%	Sum		%	Prov Sum			UNIT
	R 2 400 000,00	٠.		R450 000.00	٦	R 500 000,00	- 		R 535 000,00	1,00		R 4 300 000,00	_			QUANTITY
		R 2 400 000,00			R 450 000,00		R 500 000,00			R 535 000,00			R 4 300 000,00			RATE
		R 2 400 000,00			R450 000,00		R 500 000,00			R 535 000,00			R 4 300 000,00			AMOUNT

	TOTAL AMOUNT	
	ADD 15% VAT	
	SUB TOTAL EXCLUDING VAT	SUE
	ADD CONTIEGENCIES @ 10%	ADC
	TOTAL AMOUNT DUE	
	SPORTSFIELD	2
	PRELIMINARY AND GENERAL	
AMOUNT	SECTION	SECTION NO.
0,	FINAL SUMMARY OF SECTIONS	



CONSTRUCTION OF ARTIFICIAL **TURF GRASS (PHASE 2)**

Consulting Engineer

Masakhekulunge Project Managers 039 312 0856

Contractor

5 Months

Contract Duration

Municipal Infrastructure Grant (MIG)

Financiers:



& Traditional Affairs



Municipal Infrastructure Grant



cogta

Department: Co-operative Governace and Traditional Affairs

PROVINCE OF KWAZULU-NATAL







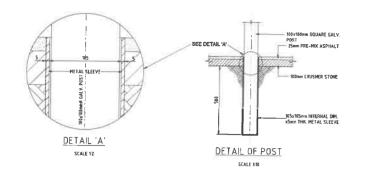


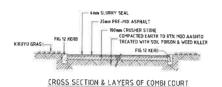




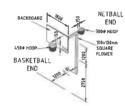




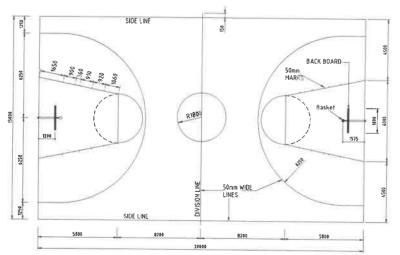




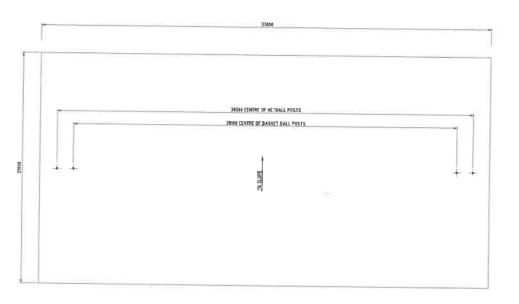
SCALE 1/20



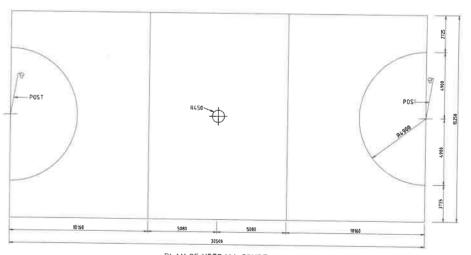
DETAIL OF COMBINED NETBALL & BASKETBALL HOOPS SCALE 1:100



PLAN OF BASKET BALL COURT SEALE 1:100



PLAN OF COMBI COURT A SCALE 1:100



PLAN OF NETBALL COURT

SCALE 1:100

FOR APPROVAL

DRAWING BEARED DESCRIPTION: SCALE SEET SHEET SHE

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COMBO COURT DETAILS

MASAKHEKUI LINGE PROJECT MANAGERS



DR. NKOSAZANA DLAMINI-ZUMA LOCAL MUNICIPALITY P.O.Sca. 53 CRESONTON 2013 Tel 500-823 1939 Fee DN-823 1939

CONSTRUCTION OF CREIGHTON SPORTC CENTRE

PORTS_CENTRE- C - 005 - T - 00

