



THE SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LIMITED

CONTRACT SANRAL NRA X.003-072-2023/1S

**FOR CONSULTING ENGINEERING SERVICES
FOR THE SUPERVISION OF THE ROAD
MARKINGS IN AMATHOLE, CHRIS HANI,
ALFRED NZO, AND JOE GQABI DISTRICT
MUNICIPALITY**

BASE DATE:
September 2024

**TENDER DOCUMENT
VOLUME 1
BOOK 2 of 3**

**CHIEF EXECUTIVE OFFICER
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC
LIMITED
48 TAMBOTIE AVENUE
VAL DE GRACE
PRETORIA
0184**

NAME OF TENDERER:



THE SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LIMITED

CONTRACT SANRAL NRA X.003-072-2023/1S

**CONSULTING ENGINEERING SERVICES FOR THE
SUPERVISION OF THE ROAD MARKINGS IN AMATHOLE, CHRIS
HANI, ALFRED NZO, AND JOE GQABI DISTRICT
MUNICIPALITIES**

THIS DOCUMENT COMPILED BY:

The Regional Manager (Southern Region)
The South African National Roads Agency SOC Ltd
20 Shoreward Drive
Bay West
Gqeberha
6025

Tel: (041) 398 3200

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PART C1: AGREEMENTS & CONTRACT DATA

**CONSULTING ENGINEERING SERVICES FOR THE SUPERVISION OF THE ROAD MARKINGS IN
AMATHOLE, CHRIS HANI, ALFRED NZO, AND JOE GQABI DISTRICT MUNICIPALITIES**

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Notes to tenderer

- 1. Should a tenderer wish to offer a different period of completion than that specified by the Employer, it shall be submitted as an alternative offer on a separate Form of Offer.**
- 2. If more than one alternative tender is submitted each shall be numbered and submitted on a separate Form of Offer duly completed and signed.**

C1.1 FORMS OF OFFER AND ACCEPTANCE

C1.1.1 FORM OF OFFER (Incorporating SBD7)

The South African National Roads Agency SOC Limited
PO Box 415
PRETORIA
0001

Sir,

CONTRACT SANRAL X.003-072-2023/1S

CONSULTING ENGINEERING SERVICES FOR THE SUPERVISION OF THE ROAD MARKINGS IN AMATHOLE, CHRIS HANI, ALFRED NZO, AND JOE GQABI DISTRICT MUNICIPALITIES

I/we, by signing this part of the forms of offer and acceptance, confirm that I/we practise the principles of corporate governance that abhors corruption and fraud and that we have examined the documents listed in the tender data and addenda thereto as listed in the returnable schedules and am/are duly authorised to represent and commit the tenderer to the contractual obligations contained therein.

I/we further confirm that by submitting this offer the tenderer accepts the conditions of tender and offers to perform all of the obligations and liabilities of the service provider under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the conditions of tender and the conditions of contract identified in the contract data.

A. PRICE OFFERED

THE OFFERED TOTAL OF THE PRICES (INCLUSIVE OF VALUE ADDED TAX) BROUGHT FORWARD FROM PART C2.3: PRICING SCHEDULE SUMMARY IS

.....

..... (in words)

(R in figures)

I/we confirm that if any difference between the total of the Pricing Schedule Summary and the amounts stated above exists, the total in the Pricing Schedule Summary shall apply.

B. PREFERENCE CLAIMED

I/we claim the following B-BBEE contributor status level as per Returnable Schedule Form D1: Tenderer's B-BBEE Verification Certificate subject to Tender Data 5.11.8. In the event of any difference between the above stated status level and the Verification Certificate attached to Form D1, the Verification Certificate shall apply.

You may accept this offer by signing and returning to the tenderer one copy of the acceptance part of the forms of offer and acceptance before the end of the period of validity stated in the tender data, (or at the end of any agreed extension thereof), whereupon the tenderer becomes the party named as the service provider in the conditions of contract identified in the contract data.

Notwithstanding anything contained in a covering letter to this tender, I/we declare this offer is submitted entirely without deviations or qualifications other than those stipulated in Form A4: Schedule of Deviations or Qualifications by the tenderer and that it is made free from any fraud, corruption and misrepresentation.

Yours faithfully

SIGNATURE: DATE:

NAME (IN CAPITALS):

CAPACITY:

Date and minute reference of Board resolution if different from returnable schedule Form A2.1:

Certificate of Authority for signature

NAME AND ADDRESS OF ORGANISATION:

.....

NAME AND SIGNATURE OF WITNESSES:

SIGNATURE: DATE:

NAME (IN CAPITALS):

SIGNATURE: DATE:

NAME (IN CAPITALS):

C1.1.2 FORM OF ACCEPTANCE (Incorporating SBD7)

FORM OF ACCEPTANCE

To

Dear Sir,

CONTRACT SANRAL X.003-072-2023/1S

ACCEPTANCE OF OFFER

1. It is our pleasure to inform you that the South African National Roads Agency SOC Ltd (the Employer) accepts your (*select if applicable corrected/corrected alternative/alternative*) offer in the amount of R..... (i.e. including VAT but excluding CPA and any contingent sum not in the priced schedule).
2. The amount due may not be the accepted price but payment shall be made in accordance with the Conditions of Contract identified in the Contract Data.
3. Acceptance shall form an agreement between us according to the terms and conditions contained in this form and in the contract that is comprised of:

Part C1: Agreements and Contract Data (including this Form of Acceptance),
Part C2: Pricing Data,
Part C3: Scope of the Work,
Part C4: Site Information and
Part C5: Annexure

together with issued drawings and other documents, or parts thereof, which may be incorporated by reference into Parts C1 to C5 listed above.
4. Deviations and/or qualifications included in your offer as well as any changes to the terms of the offer agreed by us during the process of offer and acceptance shall not be valid unless contained in the appended schedule of deviations. (*If no deviation state "There are no deviations, qualifications or changes to the documents."*) Addenda issued during the tender period are deemed not to be deviations to the tender documents and schedules.
5. Notwithstanding the need to agree the mandate required by Section 37 of the Occupational Health and Safety Act (Act 85 of 1993), a pro-forma of which is attached for your reference, we hereby appoint you as our Agent in terms of Regulation 5(5) of the Construction Regulations, GNR 84 of 2014.
6. In terms of the Employer's Supply Chain Management (SCM) Policy for Infrastructure Procurement and Delivery Management we hereby appoint you as a member/technical advisor of the following committees:

(i) Project Document Review Committee and
(ii) Bid Evaluation Committee (BEC). (Please note that this will be on another SANRAL project)
7. A SARS compliance check has been done on you and you are found to be (*select compliant or non-compliant*).
8. Within 14 calendar days of the date of this Form of Acceptance (including the schedule of deviations if any) you shall deliver to us:

(i) Proof of insurance in terms of the information provided in the Contract Data and clause 5.4 of the General Conditions of Contract. Proof of validity of insured cover shall be provided on a monthly basis until contract completion.
(ii) Completed Form of Banking Details which is attached hereto (Form C.1.1.4).
(iii) Completed Tax Compliance Permission Declaration which is attached hereto (Form C.1.1.5).
(iv) Proof of registration on the Employer's Project Information Module (ITIS).
(v) Proof that your OHS Specialist is registered with the South African Council for Project and Construction Management Professions (SACPCMP) as a **Professional Construction HSE**

Agent for the Design Phase and as a **Construction HSE Manager** for the Construction Phase.

(vi) Proof that the assistant to the Contracts Engineer (CE) (if applicable) meet the minimum requirements in terms of professional registration and experience as stated in the Scope of Works.

(vii) Copy of the Joint Venture Agreement. *(Note to compiler: Delete if JV is not applicable)*

Failure to fulfil this obligation shall constitute a repudiation of this agreement. In addition to any other rights of remedy the service provider shall, if (i) above has not been met, be automatically barred from tendering on any of our future tenders for a period to be determined by us, but not less than twelve (12) months, from the date of tender closure.

9. The effective date of the contract shall be the date of this Form of Acceptance unless you, within seven (7) calendar days of the effective date, notify us in writing of any justification why you cannot accept the contents of this agreement.
10. The commencement date of the performance of the Service shall be that on which the project hand-over meeting is held, which shall not be later than.... *(usually 28 calendar days after the date of this form, or earlier if circumstances demand and as agreed between tenderer/employer)*
11. Notwithstanding that a full, original-signed copy of the contract document containing all Contract Data and Schedules (including that of accepted deviations) will be delivered to you, this Form of Acceptance constitutes the binding contract between us.
12. The approved Key Person for this project is:

Key Position

Name

.....
.....

.....
.....

SIGNATURE: DATE:

NAME (IN CAPITALS):

CAPACITY:

REGIONAL MANAGER

EMPLOYER'S NAME AND ADDRESS: **South African National Roads Agency SOC Limited**

20 Shoreward Drive

Baywest

Gqeberha

6025

NAME AND SIGNATURE OF WITNESSES:

SIGNATURE: DATE:

NAME (IN CAPITALS):

SIGNATURE: DATE:

NAME (IN CAPITALS):

AUTHORITY TO ACT:

SANRAL's Delegation of Powers 2.4.1.2

C1.1.3 APPENDIX TO FORM OF ACCEPTANCE

Schedule of deviations

Notes:

- 1) The extent of deviations from the tender documents issued by the Employer before the tender closing date is limited to those permitted in terms of the conditions of tender.
- 2) A tenderer's covering letter shall not be included in the final contract document. Should any such letter, which constitutes a deviation as aforesaid, become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.
- 3) Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the parties becomes an obligation of the contract shall also be recorded here.
- 4) Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporate into the final draft of the Contract.

The deviations listed below constitute agreed variations/amendments to the tender document negotiated between the tenderer and the employer based on information provided in Form A4: Schedule of Variations or deviations by tenderer or imposed conditions of award. Addenda issued during the tender period are deemed not to be variations to the tender.

1. Subject:
Details:
2. Subject:
Details:
3. Subject:
Details:
4. Subject:
Details:

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

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

C1.1.4 FORM OF BANKING DETAILS

Notes to Tenderer

- 1. The Employer applies an Electronic Funds Transfer system for all payments.**
- 2. If you are already registered as a vendor with the Employer, you are not required to submit the documentation as per note 3.**
- 3. If you are not registered as a vendor with the Employer, you are required to supply:**
 - a completed SANRAL Vendor Application Form (a copy of the Application Form is provided below).**

APPLICATION FOR VENDOR REGISTRATION

Vat Reg: 4220186250

Vendor Name as per Company Registration

.....

Joint Venture (JV)	Yes	NO	*If yes provide JV agreement
---------------------------	-----	----	------------------------------

Business Physical Address	Business Postal Address
Town/City	Town/City
Country: South Africa	Country: South Africa
Postal Code:	Postal Code:

Tel No.		Fax No.	
----------------	--	----------------	--

Company Registration number	BBBEE Status Level

Income Tax Number	Vat Registration number

CSD Registration number	CSD unique code

THIS SECTION MUST BE COMPLETED FOR ALL ELECTRONIC PAYMENTS

Name of bank

--

Account number

Account Type

	Current
--	----------------

Branch name

Branch Code

--	--

Applicant's Authorisation Officer: PRINT NAME

--

Applicant's Authorisation Officer: SIGNATURE

--

The following documentation must be submitted with this form:

1. Full Central Supplier Database (CSD) Report.
2. If a Joint Venture is registered, provide all JV partners CSD Reports.
3. If a Joint Venture is registered, provide the JV agreement.
4. An indemnity letter on your letterhead stating your bank details as per CSD Report (use the pro-forma supplied), in case of a Joint Venture (JV) confirmation of the Leading Partner bank detail or the JV bank detail.
5. B-BBEE Certificate-Generic, EME or QSE. An EME may submit a sworn affidavit in accordance with the amended Construction Sector Code. The B-BBEE certificate.

All of the above should be emailed to the appropriate office as indicated:

	Head Office: procurementho@nra.co.za
	Northern Region: procurementnr@nra.co.za
	Eastern Region: procurementnr@nra.co.za
X	Southern Region: procurementSR4@sanral.co.za
	Western Region: procurementwr@nra.co.za

OFFICIAL USE ONLY

Region:

HO	NR	ER	SR X	WR
----	----	----	---------	----

Type of vendor:

CONTRACT	SUNDRY	PERSONNEL
----------	--------	-----------

Status of vendor:

NEW	CHANGE	BLOCK	UNBLOCK: REASON
-----	--------	-------	--------------------

AUTHORISING OFFICER REGION:

AUTHORISING OFFICER HO:

--	--

VENDOR NUMBER ALLOCATED:

**REFER TO EXISTING
VENDOR NUMBER**

--

--

SERVICE PROVIDER'S
LETTER HEAD AND
ADDRESS

Date

The South African National Roads Agency SOC Limited
P O BOX 415
PRETORIA
0001

Attention: Chief Financial Officer

Dear Madam

In consideration of your request to furnish your company with our banking details, we hereby undertake and agree to indemnify SANRAL in full against all consequences, liabilities of any kind whatsoever directly arising from or relating to the said request. This shall include but not limited to any incorrect information/ details provided by us.

We further confirm that the below ares correct bank account details, as per the attached CSD Report:

Account Name:
Bank:
Branch Name:
Branch Code:
Account No:

Please note that the undersigned is an authorised signatory of the company.

Kind Regards

Signature _____
Name:
Designation:
ID number:

Service Provider

C1.1.5 TAX COMPLIANCE PERMISSION DECLARATION

Note to Tenderer:

- **In terms of National Treasury Instruction No 3 of 2017/2018 with reference to the Public Finance Management Act, 1999 (Act No 1 of 1999) and Regulations, the Service Provider and sub-contractors are required to provide the employer with written confirmation to access the SARS Electronic Tax Compliance Status (TCS) system to verify and continuously track the tax compliance status of all persons conducting business with the State.**

The Service Provider shall complete the declaration below.

I, (name) the undersigned in my capacity as
..... (position) on behalf of
..... (name of company) herewith grant
consent that SARS may disclose to the South African National Roads Agency SOC Limited (SANRAL)
our tax compliance status on an ongoing basis for the contract term. For this purpose our unique
security personal identification number (PIN) is

In addition, the Service Provider shall obtain written consent from each of its sub-contractors,
undisclosed principals and partners involved in this contract confirming that SARS may, on an ongoing
basis during the contract term disclose the sub-contractors' tax compliance status to the Employer. For
this purpose the Service Provider shall provide the Employer with the unique security personal
identification number (PIN) for each of its sub-contractors, undisclosed principals and partners involved
in this contract.

In the event of a joint venture (JV) or a Targeted Enterprise each member shall comply with the above
requirement.

.....
SIGNATURE

.....
DATE

C1.2 CONTRACT DATA

C1.2.1 CONDITIONS OF CONTRACT

Note to tenderer:

1. The legislated Standard Conditions of Contract for Professional Services (as published and amended from time to time by the Construction Industry Development Board) are included together with SANRAL's special conditions of contract where the former is shown in standard format and SANRAL's amendments (i.e. special conditions) shown in italics. SANRAL's special conditions of contract are shown in italics as amending clauses of the Standard Conditions.

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CONDITIONS OF CONTRACT

1. DEFINITIONS

In the Contract, the following words and expressions shall have the meanings indicated, except where the context otherwise requires. Defined terms and words are signified in the text of the Contract by the use of capital initial letters.

Agent

The Service Provider appointed in terms of the Occupational Health and Safety Act No. 85 of 1993, including the relevant Regulations.

Black People

Black people has the meaning assigned to it in Section 1 of the Broad-Based Black Economic Empowerment Act, 2003 (Act No 53 of 2003).

Construction monitoring/ supervision

The process of managing and co-ordinating the Works Contract and over-seeing and/or inspecting the Works in accordance with the Employer's requirements.

Consulting Engineering Firm

A natural person or legal entity which provides independent technology-based intellectual services in the built, human and natural environment to clients for a fee, and does not engage in or is not a subsidiary or holding company that engages in manufacturing or construction and is not in substance owned by the State or a similar public body or is not in substance the design department of a development, manufacturing or construction enterprise.

Contract

The Contract signed by the Parties and of which these General Conditions of Contract form part.

Contract Data

Specific data, which together with these General Conditions of Contract, collectively describe the risks, liabilities and obligations of the contracting Parties and the procedures for the administration of the contract.

Contractor

The contracting party named as contractor in the letter of tender of the Works Contract accepted by the Employer.

Contract Price

The price to be paid for the performance of the Services in accordance with the Pricing Data.

Day

A calendar day.

Defect

A part of the Services, as performed, which does not comply with the requirements of the Contract.

Deliverable

Any measurable, tangible, verifiable outcome, result or item that must be produced or completed.

EME

EME is an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of Section 9(1) of the Broad-Based Black Empowerment Act, 2003 (Act No 53 of 2003).

Employer

The contracting party named in the Contract who employs the Service Provider.

Engineer

The natural or juristic person, partnership, Incorporated Company, Propriety Limited Company or Close Corporation appointed in writing by the Employer for the construction monitoring and management of the engineering Works undertaken by the Contractor.

Force Majeure

"For the purpose of this Contract the expression 'Force Majeure' shall mean an event or circumstance described in clause 8.3.1.

Key Persons

Persons who are named as such in the Contract Data who will be engaged in the performance of the Services.

Others

Persons or organizations who are not the Employer, the Service Provider or any employee, Sub-contractor, or supplier of the Service Provider.

Parties

The Employer and the Service Provider.

People with Disabilities

People with Disabilities has the meaning assigned to it in Section 1 of the Employment Equity Act, 1998 (Act No 55 of 1998).

Period of Performance

The period within which the Services are to be performed and completed.

Personnel

Persons hired by the Service Provider as employees and assigned to the performance of the Services or any part thereof.

Personnel Schedule

A schedule naming all personnel and key persons.

Pricing Data

Data that establishes the criteria and assumptions that were taken into account when developing the Contract Price and the record of the components that make up of the Contract Price.

Project

The project named in the Contract Data for which the Services are to be provided.

QSE

QSE is a Qualifying Small Business Enterprise in terms of a code of good practice on black economic empowerment issued in terms of Section 9(1) of the Broad-Based Black Economic Empowerment Act, 2003 (Act No 53 of 2003).

Scope of Work

The document which defines the Employer's objectives and requirements and specifies the Services which must, or may, be provided under the Contract.

Service Provider

The contracting party named in the Contract Data who is employed by the Employer to perform the Services described in the Contract, and legal successors to the Service Provider and legally permitted assignees.

Services

The work to be performed by the Service Provider pursuant to the Contract as described in the Scope of Work.

Sub-contractor

A person or body corporate who enters into a sub-contract with the Service Provider to perform part of the Services.

Targeted Enterprise

A Consulting Engineering firm who is an EME (BEP)* or QSE (BEP)*, contracted (either by Joint Venture, partnership or sub-contracting) by the Service Provider to perform a specified percentage of work stated in the Contract Data under his guidance and which complies with the following:

- a) is at least 51% owned by black people; and
- b) has a B-BBEE status* of “level one or level two contributor”; and
- c) does not share equity holding with the Service Provider; and
- d) is registered in terms of the Company’s Act, 2008 (Act No. 71 of 2008) or Close Corporation Act, 1984 (Act No. 69 of 1984); and
- e) is registered on the National Treasury’s Central Supplier Database (CSD).

* NOTE: All references to EME, QSE, B-BBEE status are in terms of the amended Construction Sector Codes published in Notice 931 of 2017 in Government Gazette No 41287 on 1 December 2017.

Technical Proposal

The Key Persons proposed by the Service Provider to undertake the respective functions/duties as defined under the Contract.

Works or Works Contract

That project or part of a project that the employer wishes to have delivered and for which the service provider has been appointed for the performance of the services specified in this contract.

Youth

For purposes of this contract, Youth means persons between the ages of 16 and 35.

2. INTERPRETATION

- 2.1 Unless inconsistent with the context, an expression which denotes:
 - a) any gender includes the other genders;
 - b) a natural person includes a juristic person and vice versa;
 - c) the singular includes the plural and vice versa.
- 2.2 *The documents forming the Contract are to be taken as mutually explanatory of one another. For the purposes of interpretation, the priority of documents shall be in accordance with the following sequence:*
 - a) *the Form of Acceptance*
 - b) *the Form of Offer*
 - c) *the Contract Data*
 - d) *the General Conditions of Contract*
 - e) *the Scope of Work*
 - f) *the Pricing Schedule and any other documents forming part of the Contract*
- 2.3 The clause headings shall not limit, alter or affect the meaning of the Contract.

3. GENERAL

3.1 Governing laws

“Law” means all national (or other spheres of Government) legislation, statutes, ordinances and other laws including the South African Common Law, and regulations and by-laws of any legally constituted public authority.

3.2 Change in legislation

If after the commencement of the Contract, the cost or duration of the Services is altered as a result of changes in, or additions to, any statute, regulation or bye-law, or the requirements of any authority having jurisdiction over any matter in respect of the Project, then the Contract Price and time for completion shall be adjusted in order to reflect the impact of those changes, provided that, within 14 days of first having become aware of the change, the Service Provider furnished the Employer with detailed justification for the adjustment to the Contract Price.

3.3 Language

- 3.3.1 The language of the Contract and of all communications between the Parties shall be English.

- 3.3.2 All reports, recommendations and reports prepared by the Service Provider under the Contract shall be in English.

3.4 Notices

- 3.4.1 Any notice, request, consent, or other communication made between the Parties pursuant to the Contract shall be in writing and shall be deemed to have been made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when *delivered* to such Party at the address *stated* in the Contract *Data*, or one week after having been sent by registered post.
- 3.4.2 If the sender requires evidence of receipt, he shall state such requirement in his communication and, wherever there is deadline for the receipt of the communication, he may demand evidence of receipt of his communication. In any event, the sender shall take all the necessary measures to ensure receipt of communications.
- 3.4.3 A Party may change its address for receipt of communications by giving the other Party 30 days advance notice of such change.

3.5 Location

The Services shall be performed at such locations as are specified in the Contract Data, and where the location of a particular task is not so specified, at such locations as the Employer may approve.

3.6 Publicity and publication

Unless otherwise agreed, the Service Provider shall not release public or media statements or publish material related to the Services or Project within two (2) years of completion of the Services without the written approval of the Employer, which approval shall not be unreasonably withheld.

3.7 Confidentiality

Both Parties shall keep all commercially sensitive information obtained by them in the context of the Contract confidential and shall not divulge it without the written approval of the other Party except to the *extent strictly necessary to carry out obligations under this Contract or to comply with applicable laws*.

3.8 Variations

- 3.8.1 The Employer may, without changing the objectives or fundamental scope of the Contract, order variations to the Services or may request the Service Provider to submit proposals, including the time and cost implications, for variations to the Services. *No variation shall have any force or effect unless reduced to writing and signed by both Parties.*
- 3.8.2 The reasonable cost of preparation and submission of such proposals and the incorporation into the Contract of any variations to the Services ordered by the Employer, including any change in the Contract Price, shall be agreed in writing between the Service Provider and the Employer, *prior to the change being implemented.*
- 3.8.3 Where a variation is necessitated by default or breach of Contract by the Service Provider, any additional cost attributable to such variation shall be borne by the Service Provider.

3.9 Sole agreement

The Contract constitutes the sole agreement between the Parties for the performance of the Services and no representation not contained therein shall be of any force or effect. No amendments will be of any force or effect unless reduced to writing and signed by both Parties.

3.10 Indemnification

The Service Provider shall, at his own expense, indemnify, protect and defend the Employer, its agents and employees, from and against all actions, claims, losses and damage arising from any *wilful or negligent act or omission* by the Service Provider *or his sub-contractors* in the

performance of the Services, including any violation of legal provisions, or rights of others, in respect of patents, trademarks and other forms of intellectual property such as copyrights.

3.11 Penalty

- 3.11.1 In the event that due to his negligence, or for reasons within his control, the Service Provider does not perform the Services within the Period of Performance, the Employer shall without prejudice to his other remedies under the Contract, be entitled to levy a penalty for every day or part thereof, which shall elapse between the end of the period specified for performance, or an extended Period of Performance, and the actual date of completion, at the rate and up to the maximum amount stated in the Contract Data.
- 3.11.2 If the Employer has become entitled to the maximum penalty amount referred to in 3.11.1, he may after giving notice to the Service Provider:
- a) terminate the Contract
 - b) complete the Services at the Service Provider's cost.
- 1.11.3 *In the event that due to his negligence or for reasons within his control, the Service Provider does not disclose sub-contracting arrangements, the Employer may be entitled to levy a penalty as stated in the Contract Data.*
- 1.11.4 *In the event that due to his negligence or for reasons within his control, the Service Provider does not perform the service of capturing structures inventory updates, the Employer shall be entitled to levy a penalty as stated in the Contract Data.*

3.12 Equipment and materials furnished by the Employer

- 3.12.1 Equipment and materials made available to the Service Provider by the Employer or purchased by the Service Provider with funds provided by the Employer for the performance of the Services shall be the property of the Employer and shall be marked accordingly. Upon termination or expiration of the Contract, the Service Provider shall make available to the Employer an inventory of such equipment and materials and shall dispose of them in accordance with the Employer's instructions.
- 3.12.2 *Unless otherwise stated in the Contract Data*, the Service Provider shall, at his own expense, insure the equipment and materials referred to in 3.12.1 for their full replacement value.

3.13 Illegal and impossible requirements

The Service Provider shall notify the Employer immediately, should he become aware that the Contract requires him to undertake anything which is illegal or impossible.

3.14 Programme

- 3.14.1 The Service Provider shall, within the time period set out in the Contract Data, submit to the Employer a programme for the performance of the Services which shall, *inter alia*, include:
- a) the order and timing of operations by the Service Provider and any actions required of the Employer and Others;
 - b) the dates by which the Service Provider plans to complete work needed to allow the Employer and Others to undertake work required of them; and
 - c) other information as required in terms of the Scope of Work or Contract Data.
- 3.14.2 The Employer may, during the course of the Contract, request the Service Provider to amend the programme. Where this is not practicable, the Service Provider shall advise the Employer accordingly and advise him of alternative measures, if any, which might be taken.
- 3.14.3 The Service Provider shall regularly update the programme to reflect actual progress to date and expected future progress.

3.15 Severability

If a court of competent jurisdiction holds that any provision of this Contract is severable by reason of it being invalid, illegal, unlawful or unenforceable and as a consequence of which prevents the accomplishment of the purpose of this Contract, the Employer and the Service Provider shall meet and review the matter to adopt means to fulfil the purpose of the Contract.

3.16 Waiver

No defence of a waiver of any of the provisions of this contract shall be effective unless it is expressly stated in writing, by the Party against whom such defence is raised, to be a waiver of such provisions and is communicated to the other Party in writing in accordance with the provisions of Clause 3.4.

4. EMPLOYER'S OBLIGATIONS

4.1 Information

- 4.1.1 The Employer shall timeously provide to the Service Provider, free of cost, all available information and data in the Employer's possession which may be required for the performance of the Services.
- 4.1.2 The Employer shall provide the Service Provider with any assistance required in obtaining other relevant information that the latter may require in order to perform the Services.
- 4.1.3 The Service Provider shall be entitled to rely on the accuracy and completeness of all information furnished by or on behalf of the Employer.

4.2 Decisions

The Employer shall, within a reasonable time, give his decision on any matter properly referred to him in writing by the Service Provider so as not to delay the performance of Services.

4.3 Assistance

The Employer shall co-operate with the Service Provider and shall not interfere with or obstruct the proper performance of the Services. The Employer shall as soon as practicable:

- 4.3.1 authorise the Service Provider to act as his agent insofar as may be necessary for the performance of the Services;
- 4.3.2 provide all relevant data, information, reports, correspondence and the like, which become available;
- 4.3.3 procure the Service Provider's ready access to premises, or sites, necessary for the performance of the Services;
- 4.3.4 assist in the seeking of all approvals, licenses and permits from state, regional and municipal authorities having jurisdiction over the Project, unless otherwise stated in the Contract Data;
- 4.3.5 designate in writing a person to act with his complete authority in giving instructions and receiving communications on his behalf and interpreting and defining his policies and requirements in regard to the Services.

4.4 Services of Others

- 4.4.1 The Employer shall, at his own cost, engage such Others as may be necessary for the execution of work necessary for the completion of the Project, but not included in the Services.
- 4.4.2 The Employer shall not enter into an agreement or contract with Others which describes any of the duties and responsibilities of the Service Provider in terms of the Contract or which imposes obligations on him, without first obtaining the Service Provider's written agreement thereto.

4.5 Notice of change by Employer

On becoming aware of any matter which will materially change, or has changed, the scope, cost or timing of the Services, or on becoming aware of any defect or deficiency in the Services, the Employer shall immediately advise the Service Provider thereof.

4.6 Issue of instructions

Where the Service Provider is required to administer the work or services of Others, or any contract or agreement, on behalf of the Employer, then the Employer shall issue instructions related to such work, services, contract or agreement only through the Service Provider.

4.7 Payment of Service Provider

The Employer shall pay the Service Provider the Contract Price in accordance with the provisions of the Contract.

5. SERVICE PROVIDER'S OBLIGATIONS

5.1 General

- 5.1.1 The Service Provider shall perform the Services in accordance with the Scope of Work with all reasonable care, diligence and skill in accordance with generally accepted professional techniques and standards *and shall be responsible for breach of professional duty by reason of any error, omission or neglect in connection with delivering the services*
- 5.1.2 Where the Services include the exercise of powers to certify, decide or otherwise exercise discretion in regard to a contract or agreement between the Employer and Others, then the Service Provider shall act in respect of that contract or agreement as an independent professional
- 5.1.3 If the Service Provider is a joint venture or consortium of two or more persons, the Service Provider shall designate one person to act as leader with authority to bind the joint venture or consortium. Neither the composition nor the constitution of the joint venture or consortium shall be altered without the prior consent in writing of the Employer, which shall not be unreasonably withheld.
- 5.1.4 *Unless specifically instructed differently, the Service Provider is delegated as the Employer's "Mandatar" in terms of the Occupational Health and Safety Act (Act no. 85 of 1993), and as the Employer's Agent as defined in Construction Regulations 4(2), (5) and (6) of the said Act.*
- 5.1.5 *The Service Provider, if requested by the Employer, shall provide any plans and calculations for checking by Others.*
- 5.1.6 *All design calculations shall be kept and safeguarded for the duration of the insurance(s) required in terms of clause 5.4.1.*

5.2 Exercise of authority

- 5.2.1 The Service Provider shall have no authority to relieve Others appointed by the Employer to undertake work on the Project of any of their duties, obligations, or responsibilities under their respective agreements or contracts, unless expressly authorised by the Employer in response to an application by the Service Provider in writing to do so.
- 5.2.2 *Whenever necessary to enter upon land for the performance of the Contract the service Provider shall do so in accordance with the provisions of the SANRAL Act, (Act 7 of 1998) and shall indemnify the Employer from all costs arising from any transgression committed by the Service Provider.*

5.3 Designated representative

The Service Provider shall designate in writing a person to act as his representative and such person shall have complete authority to receive instructions from and give information to the Employer on behalf of the Service Provider.

5.4 Insurances to be taken out by the Service Provider

- 5.4.1 The Service Provider shall, at his own cost, unless otherwise agreed, take out and maintain in force such insurance policies in respect of their own risks in performing the Services as are stipulated in the Contract Data, subject to the approval of the Employer, which approved shall not be unreasonably withheld.
- 5.4.2 The Service Provider shall, at the Employer's request, provide evidence to the Employer showing that the insurance required in terms of Clause 5.4.1 has been taken out *with an*

insurance company registered in the Republic of South Africa, or as otherwise approved by the Employer and maintained in force.

5.5 Service Provider's actions requiring Employer's prior approval

The Service Provider shall obtain the Employer's prior approval in writing before taking, inter alia, any of the following actions:

- a) appointing Sub-contractors for the performance of any part of the Services,
- b) appointing Key Persons not listed by name in the Contract Data.
- c) any other action that may be specified in the Contract Data.

5.6 Co-operation with Others

If the Service Provider is required to perform the Services in co-operation with Others he may make recommendations to the Employer in respect of the appointment of such Others. The Service Provider shall, however, only be responsible for his own performance and the performance of Subcontractors unless otherwise provided for.

5.7 Notice of change by Service Provider

On becoming aware of any matter which will materially change or has changed the scope, cost or timing of the Services, the Service Provider shall give notice thereof to the Employer, save that the Service Provider is empowered to make minor changes or variations within the overall programme or budget and within such parameters as are defined by the Employer, provided that such changes are reported timeously to the Employer.

5.8 Safeguarding the Employer's data

5.8.1 The Parties shall take reasonable precautions (each having regard to the nature of the other's respective obligations under the Contract) to preserve the integrity of the Employer's data including appropriate back-up procedures.

5.8.2 In the event that the Employer's data is corrupted or lost as a result of any default by the Service Provider, the Employer shall at the Service Provider's expense, have the option to:

- *require the Service Provider to restore or procure the restoration of such data; or;*
- *itself restore or procure restoration of such data.*

5.9 Performance Security

Where required, the Service Provider shall obtain (at his cost) a Performance Security for proper performance in the amount and currencies stated in the Contract Data. If an amount is not stated in the Contract Data, this sub-clause shall not apply.

The Service Provider shall deliver the Performance Security to the Employer within 14 days of the date of issue of the Letter of Acceptance. The Performance Security shall be issued by an insurance company or bank registered or licensed as an insurance company or bank to do business in the Republic of South Africa and approved by the Employer and having an office or banking facility in the Republic of South Africa. The Performance Security shall be subject to approval by the Employer and shall be in the form prescribed in the tender documents.

6. CONFLICTS OF INTEREST, CORRUPTION AND FRAUD

6.1 Service Provider not to benefit from commissions, discounts, etc.

The remuneration of the Service Provider under the Contract shall constitute the Service Provider's sole remuneration in connection with the Contract, or the Services, and the Service Provider shall not accept for his own benefit any trade commission, discount, or similar payment in connection with activities pursuant to the Contract, or in the discharge of his obligations under the Contract, and shall use his best efforts to ensure that the Personnel, any Sub-contractors, and agents of either of them shall, similarly, not receive any additional remuneration.

6.2 Royalties and the like

The Service Provider shall not have the benefit, whether directly or indirectly, of any royalty or of any gratuity or commission in respect of any patented or protected article or process used in or for the purposes of the Contract, or Project, unless so agreed by the Employer in writing.

6.3 Independence

The Service Provider shall refrain from entering into any relationship which could be perceived as compromising his independence of judgment, or that of Subcontractors or Personnel.

6.4 Corruption and Fraud

6.4.1 The Service Provider shall neither:

- (a) Offer or give or agree to give any person of the Employer any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forebore to do any act in relation to the obtaining or performance of this contract or any other contract with the Employer or for showing or forbearing to show favour or disfavour to any person in relation to this contract; nor
- (b) Enter into this contract if in connection with it commission or a reward of any type has been paid, offered or agreed to be paid to any person of the Employer by the Service Provider or on his behalf or knowledge.

6.4.2 In the event that the Employer, in good faith and on reasonable grounds, comes to the opinion, that a breach of any of the provisions of Clause 6.4.1 has been perpetrated by the Service Provider or anyone employed by him or acting on his behalf in relation to this contract or any other agreement with the Employer, the Employer may:

- i. summarily suspend the operation of this Contract by notice in writing to the Service Provider, informing him of the Employer's opinion and the grounds and reasons upon which it is based, and calling upon the Service Provider to show cause, in writing, within fourteen (14) days of receipt of the written notice why the Employer should not terminate this Contract on the grounds of the alleged breach(es) of Clause 6.4.1 of this Contract;
- ii. withhold all payments due;
- iii. terminate this Contract by notice in writing to the Service Provider, if the Service Provider fails to respond to the Employer's written response, to satisfy the Employer that his opinion is unfounded. Provided always that such termination shall not prejudice or affect any right of action or remedy, which shall have accrued or shall accrue thereafter to the Employer and provided also that the Employer may recover from the Service Provider such sum as the Employer deems equivalent to the amount or value of any such gift, consideration or commission.

6.4.3 In the event that the Employer, in good faith and on reasonable grounds, comes to the opinion that any contract with a Government or public sector body has been or was obtained by the Service Provider through actions that mutatis mutandis are similar in nature to those barred in terms of Clause 6.4.2 by the Service Provider or by anyone employed by the Service Provider or acting on the Service Provider's behalf in relation to such Contract, the Employer may:

- (a) summarily suspend the operation of this Contract by notice in writing to the Service Provider, informing him of the Employer's opinion and the grounds and reasons upon which it is based, and calling upon the Service Provider to show cause, in writing within fourteen (14) days of receipt of the written notice why the Employer should not terminate this Contract on the grounds of the alleged breach(es) of Clause 6.4.1 of this contract;
- (b) withholds all payments due
- (c) terminate this Contract by notice in writing to the Service Provider, if the Service Provider fails to respond to the Employer's written notice within the prescribed time, or fails, in his written response, to satisfy the Employer that this opinion is unfounded. Provided always that such termination shall not prejudice or affect any right of action or remedy, which shall have accrued or shall accrue thereafter to the Employer.

7. SERVICE PROVIDER'S PERSONNEL

7.1 Provision of Personnel

7.1.1 The Service Provider shall provide appropriate Personnel for such time periods as required in terms of the Contract and shall enter all data pertaining to Personnel including titles, job descriptions, qualifications and estimated periods of engagement on the performance of the Services in the Personnel Schedule.

- 7.1.2 The Services shall be performed by the Personnel listed in the Personnel Schedule for the periods of time indicated therein. The Service Provider may, subject to the approval of the Employer, make such adjustments to the data provided in terms of Clause 7.1.1 above as may be appropriate to ensure the efficient performance of the Services, provided that the adjustments will not cause payments to exceed any limit placed on the Contract Price.
- 7.1.3 The Service Provider shall:
- a) forward to the Employer for approval, within 15 days of the award of the Contract, the Personnel Schedule and a timetable for the placement of Personnel.
 - b) inform the Employer of the date of commencement and departure of each member of Personnel during the course of the Project.
 - c) submit to the Employer for his approval a timely request for any proposed change to Personnel, or timetables.

7.2 Staff and equipment

- 7.2.1 The Service Provider shall employ and provide all qualified and experienced Personnel required to perform the Services.
- 7.2.2 Where required in terms of the Contract, the Service Provider shall provide Key Persons as listed in the Contract Data to perform specific duties. If at any time, a particular Key Person cannot be made available, the Service Provider may engage a replacement who is equally or better qualified to perform the stated duty, subject to the Employer's approval, which approval shall not be unreasonably withheld.
- 7.2.3 Where the Service Provider proposes to utilise a person not named in the Personnel Schedule, he shall submit the name, relevant qualifications and experience of the proposed replacement person to the Employer for approval.
- 7.2.4 Where the fees for the Services are time-based, the fee payable for a person provided as a replacement shall not exceed that which would have been payable to the person replaced.
- 7.2.5 Except in the case of replacement resulting from death or where the Employer requests a replacement not provided for by the Contract, the Service Provider shall bear all additional costs arising out of or incidental to such replacement.
- 7.2.6 The Service Provider shall take all measures necessary and shall provide all materials and equipment necessary to enable Personnel to perform their duties in an efficient manner.

7.3 Working hours, overtime and leave

Where the fee for the Services are time-based, working hours, leave entitlement and holidays for Personnel provided in terms of Clause 7 are to be as stated in the Contract Data, or, if not stated, to be determined by the Service Provider. The Employer will not be responsible for overtime payments to Personnel *unless so specifically provided for in the Pricing Schedule*.

8. COMMENCEMENT, COMPLETION, MODIFICATION SUSPENSION AND TERMINATION OF THE CONTRACT

8.1 Commencement

The effective date of the contract shall be the date of the Form of Acceptance.

The Contract shall come into effect on the date that it is signed by both Parties or such later date as may be stated in the Contract Data. The Service Provider shall commence the performance of the Services within thirty (30) days after the date that the Contract becomes effective, or such date as may be specified in the Contract Data.

8.2 Completion

- 8.2.1 Unless terminated in terms of the Contract, or otherwise specified in the Contract Data, the Contract shall be concluded when the Service Provider has completed all Deliverables in accordance with the Scope of Work.

- 8.2.2 The Service Provider, may request an extension to the Period of Performance if he is or will be delayed in completing the Contract by any of the following causes:
- a) *variations to Services ordered by the Employer.*
 - b) *failure of the Employer to fulfil his obligations under the Contract.*
 - c) *any delay in the performance of the Services which is not due to the Service Provider's default.*
 - d) *Force Majeure*
- 8.2.3 The Service Provider shall within 14 days of becoming aware that a delay may occur, notify the Employer of his intention to make a request for the extension of the Period of Performance to which he considers himself entitled and shall within 30 days thereafter deliver to the Employer full and detailed particulars of the request, in order that it may be investigated at the time.
- 8.2.4 The Employer shall, within 30 days of receipt of a detailed request, grant such extension to the Period of Performance as may be justified, either prospectively or retrospectively, or inform the Service Provider that he is not entitled to an extension. Should the Service Provider find the decision of the Employer to be unacceptable he shall, nevertheless, abide by such decision in the performance of the services and the matter shall be dealt with as a dispute in terms of Clause 12.

8.3 Force Majeure

- 8.3.1 *In this clause "Force Majeure" means an exceptional event or circumstance:*
- (a) which is beyond party's control,*
 - (b) which such a party could not reasonably have provided against before entering into the Contract,*
 - (c) which, having arisen, such Party could not reasonably have avoided or overcome, and*
 - (d) which is not substantially attributable to the other Party*

Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below;

- (i) natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity*
- (ii) war, hostilities (whether war to be declared or not), invasion, act of foreign enemies,*
- (iii) rebellion, terrorism, revolution, insurrection, military or usurped power, or civil war,*
- (iv) riot, commotion, disorder, strike or lockout by persons other than the Service Provider's Personnel or other employees of the Service Provider and Sub-contractors,*

An event or circumstance which is attributable to a wilful act, neglect or failure to take reasonable precautions by the affected party, his employees agents, subcontractors or others shall, under no circumstances, be considered Force Majeure.

- 8.3.2 The failure of a Party to fulfil any of its obligations under the Contract shall not be considered to be a breach of, or default under, this Contract insofar as such inability arises from an event of *Force Majeure*, provided that the Party affected by such an event has taken all reasonable precautions, due care and reasonable alternative measures in order to meet the terms and conditions of this Contract, and has *notified* the other Party within 10 days of its occurrence and within a reasonable time of *its estimated duration and consequences*. *Failure to so notify shall terminate that Party's right to release from his obligations.*
- 8.3.3 In the event that the performance of the Services has to be suspended on the grounds of *Force Majeure*, the time for completion shall be extended by the extent of the delay plus a reasonable period for the resumption of work or, if the speed of performing certain Services has to be reduced, the time for their completion shall be extended as may be necessary in the circumstances.
- 8.3.4 During the period of his inability to perform the Services as a result of an event of *Force Majeure*, the Service Provider shall be entitled to continue to be paid under the terms of the Contract and shall be reimbursed for additional costs reasonably and necessarily incurred by him in suspending, delaying and re-activating the performance of the Services.
- 8.3.5 *If the Force Majeure event continues for more than 90 (ninety) days, either Party shall have the right to terminate this Contract with immediate effect.*

8.4 Termination

- 8.4.1 The Employer may in addition to his rights under sub-clauses 6.4.2, 6.4.3 and 10.5 terminate the Contract by giving not less than thirty (30) days written notice thereof to the Service Provider after the occurrence of any of the following events:
- (a) if the Service Provider does not remedy a failure in the performance of his obligations under the Contract within thirty (30) days after having been notified thereof, or within any further period as the Employer may have subsequently approved in writing;
 - (b) if the Service Provider becomes insolvent or bankrupt; or
 - (c) if, as the result of *Force Majeure*, the Service Provider is unable to perform a material portion of the Services for a period of not less than sixty (60) days;
 - (d) *commission of an offence in terms of clauses 6.1 and 6.4;*
 - (e) *if the Service Provider acts in such a way, on this contract or any other contract with the Employer, that a statute relating to the combating of fraud, corruption, uncompetitive practice and the like can be invoked.*
 - (f) *if the Employer, at any time in its sole discretion determines that it no longer requires the completion of the Service by the Service Provider."*
 - (g) *if the Employer, at any time in its sole discretion determines that it no longer requires the completion of the Service by the Service Provider."*

Upon delivery of such notice by the Service Provider he shall immediately vacate the site and deliver to the Employer all drawings, documents and papers relating to the Services and shall within fourteen (14) days after the date of termination submit an account for the Services satisfactorily performed prior to the date of notice. The Employer shall not be liable to the Service Provider for any loss of profit or damages suffered as a result of cancellation of the contract as contemplated in this clause.

- 8.4.2 The Service Provider may terminate the Contract, by giving not less than thirty (30) days written notice to the Employer after the occurrence of any of the following events:
- (a) if the Employer fails to pay any monies due to the Service Provider in terms of the Contract and not subject to dispute pursuant to Clause 12 within forty-five (45) days after receiving written notice from the Service Provider that such payment is overdue; or
 - (b) if, as the result of *Force Majeure*, the Service Provider is unable to perform a material portion of the Services for a period of not less than sixty (60) days; or
 - (c) when the Services have been suspended under Clause 8.5 and the period of suspension exceeds 6 months, or it is clear to the Service Provider that it will be impossible or impractical to resume the suspended Services before the period of suspension has exceeded 6 months; or
 - (d) if the Employer is in material breach of a term of the Contract and fails to rectify such breach within 30 days of the receipt of written notice requiring him to do so.
- 8.4.3 Upon termination of this Contract pursuant to Clauses 8.4.1 or 8.4.2, the Employer shall make the following payments to the Service Provider:
- (a) remuneration in terms of the Contract for Services satisfactorily performed prior to the effective date of termination *less any costs arising from termination.*
 - (b) except in the case of termination pursuant to events (a) and (b) of Clause 8.4.1, reimbursement of any reasonable cost incident to the prompt and orderly termination of the Contract.
- 8.4.4 Should the Service Provider, being an individual or the last surviving principal of a partnership or body corporate, die or be prevented by illness or any other circumstances beyond his control from performing the obligations implied by the Contract, the Contract shall be terminated without prejudice to the accrued rights or either Party against the other.
- 8.4.5 *Where required in terms of the contract data the surety delivered by the Service Provider in terms of this Contract shall remain in force until the completion of the project.*

8.5 Suspension

- 8.5.1 The Employer may temporarily suspend all or part of the Services by notice to the Service Provider who shall immediately make arrangements to stop the performance of the Services and minimise further expenditure.
- 8.5.2 When Services are suspended, the Service Provider shall be entitled to pro-rata payment for the Services carried out and reimbursement of all reasonable cost incident to the prompt and orderly suspension of the Contract.

8.6 Rights and liabilities of the Parties

Completion, suspension or termination of the Contract shall not prejudice or affect the accrued rights or liabilities of the Parties.

9. OWNERSHIP OF DOCUMENTS AND COPYRIGHT

- 9.1 Copyright of all documents prepared by the Service Provider in accordance with the relevant provisions of the copyright Act (Act 98 of 1978) relating to Project shall be vested in the party named in the Contract Data. Where copyright is vested in the Service Provider, the Employer shall be entitled to use the documents or copy them only for the purposes for which they are intended in regard to the Project and need not obtain the Service Provider's permission to copy for such use. Where copyright is vested in the Employer, the Service Provider shall not be liable in any way for the use of any of the information other than as originally intended for the Project and the Employer hereby indemnifies the Service Provider against any claim which may be made against him by any party arising from the use of such documentation for other purposes.
- 9.2 The ownership of data and factual information collected by the Service Provider and paid for by the Employer shall, after payment by the Employer, lie with the Employer. This shall include any research work, papers and presentations done using the Employer's resources and information.
- 9.3 The Employer shall have no right to use any documents prepared by the Service Provider whilst the payment of any fees and expenses due to the Service Provider in terms of the Contract is overdue.

10. SUCCESSION AND ASSIGNMENT

- 10.1 Except as defined in Clause 8.4.4 above, each Party binds itself and its partners, successors, executors, administrators, assigns and legal representatives to the other Party and to the other partners, successors, executors, administrators, assigns and legal representatives of the other Party in respect of all obligations and liabilities of the Contract.
- 10.2 An assignment including that of sub-contractor shall be valid only if it is a written agreement, by which the *Parties* transfer *their rights* and obligations under the Contract, or part thereof, to others.
- 10.3 The Service Provider shall not, without the prior written consent of the Employer, assign the Contract or any part thereof, or any benefit or interest there under, except in the following cases:
- (a) by a charge in favour of the Service Provider's bankers of any monies due or to become due under the Contract; or
 - (b) by assignment to the Service Provider's insurers of the Service Provider's right to obtain relief against any other person liable in cases where the insurers have discharged the Service Provider's loss or liability.
- 10.4 The approval of an assignment by the Employer shall not relieve the Service Provider of his obligations for the part of the Contract already performed or the part not assigned.
- 10.5 If the Service Provider has assigned his Contract or part thereof without authorization, the Employer may forthwith terminate the Contract.

11. SUB-CONTRACTING

- 11.1 A sub-contract shall be valid only if it is a written agreement by which the Service Provider entrusts performance of a part of the Services to others.
- 11.2 The Service Provider shall not sub-contract to nor engage a Sub-contractor to perform any part of the Services without the prior written authorization of the Employer. The services to be sub-contracted and the identity of the Sub-contractor shall be notified to the Employer. The Employer shall, within 14 days of receipt of the notification and a full motivation why such services are to be sub-contracted, notify the Service Provider of his decision, stating reasons, should he withhold such authorization, failing which the Sub-contractor shall be deemed to be approved by the Employer. If the Service Provider enters into a sub-contract with a Sub-contractor without prior approval, the Employer may forthwith terminate the Contract.

- 11.3 The Employer shall have no contractual relationships with Sub-contractors. However, if a Sub-contractor is found by the Employer to be incompetent, the Employer may request the Service Provider either to provide a Sub-contractor with qualifications and experience acceptable to the Employer as a replacement, or to resume the performance of the relevant part of the Services himself.
- 11.4 The Service Provider shall advise the Employer without delay of the variation or termination of any sub-contract for performance of all or part of the Services.
- 11.5 The Service Provider shall be responsible for the acts, defaults and negligence of Sub-contractors and their agents or employees in the performance of the Services, as if they were the acts, defaults or negligence of the Service Provider, his agents or employees. Approval by the Employer of the sub-contracting of any part of the Contract or of the engagement by the Service Provider of Sub-contractors to perform any part of the Services shall not relieve the Service Provider of any of his obligations under the Contract.
- 11.6 The Service Provider undertakes to pay the sub-contractor the full value as certified as being due in each interim monthly account. The Service Provider further undertakes to make payment within 7 (seven) days after payment by the Employer or by the 25th of the month following that in which the sub-contractor invoiced for the work, whichever date is earlier.
- 11.7 It is a condition of this contract that the Service Provider sub-contracts a minimum of 30% of Targeted Enterprise/s.
- *Minimum sub-contract requirement for all entities is 30%.*

12. RESOLUTION OF DISPUTES

12.1 Settlement

- 12.1.1 Any dispute between the Parties shall arise by either party presenting to the other in writing the nature of the dispute and the facts to be dealt with. The Parties shall negotiate in good faith with a view to settling any dispute or claim arising out of or relating to the Contract and may not initiate any further proceedings until either Party has, by written notice to the other, declared that such negotiations have failed.
- 12.1.2 Any dispute or claim arising out of or relating to the Contract which cannot be settled between the Parties shall in the first instance be referred by the Parties to either mediation or adjudication as provided for in the Contract Data.

12.2 Mediation

- 12.2.1 If the Contract Data does not provide for dispute resolution by adjudication, not earlier than ten working days after having advised the other Party, in terms of Clause 12.1, that negotiations in regard to a dispute have failed, an aggrieved Party may require that the dispute be referred, without legal representation, to mediation by a single mediator. The mediator shall be selected by agreement between the Parties, or, failing such agreement, by the person named for this purpose in the Contract Data. The costs of the mediation shall be borne equally by the Parties.
- 12.2.2 The mediator shall convene a hearing of the Parties and may hold separate discussions with any Party and shall assist the Parties in reaching a mutually acceptable settlement of their differences through means of reconciliation, interpretation, clarification, suggestion and advice. The Parties shall record such agreement in writing and thereafter they shall be bound by such agreement.
- 12.2.3 The mediator is authorised to end the mediation process whenever in his opinion further efforts at mediation would not contribute to a resolution of the dispute between the Parties and shall do so, if after a period of ninety days from entering into the mediation process, no resolution has been achieved.
- 12.2.4 If either Party is dissatisfied with the opinion expressed by the mediator or should the mediation fail, then such Party may require that the dispute be referred to arbitration or litigation in a competent civil court, as provided for in the Contract Data; *provided that the dissatisfied Party notifies the other in writing within 28 days of mediator's decision being issued or the mediator*

declaring the mediation to have ended, as provided for in the Contract Data. Claims not brought within the time periods set out herein will be deemed to be waived.

12.3 Adjudication

- 12.3.1 If the Contract Data does not provide for dispute resolution by mediation, an aggrieved Party may refer the dispute to adjudication. Adjudication shall be in accordance with the latest edition of the separately published CIDB Adjudication Procedures.
- 12.3.2 The adjudicator shall be appointed in terms of the Adjudicator's Agreement bound in the Construction Industry Development Board's Adjudication Procedure.
- 12.3.3 The Adjudicator shall be any person agreed to by the parties or, failing such agreement, shall be nominated by the person named in the Contract Data. The Adjudicator shall be appointed in accordance with the Adjudicator's Agreement contained in the CIDB Adjudication Procedure.
- 12.3.4 If a Party is dissatisfied with the decision of the Adjudicator, the Party may give the other Party *written* notice of dissatisfaction within 28 days of the receipt of that decision and refer the dispute to arbitration or litigation in a competent civil court as provided for in the Contract Data. If notice of dissatisfaction is *not* given within the specified time, the decision shall be final and binding on the Parties.

12.4 Arbitration

- 12.4.1 Arbitration, where provided for in the Contract Data, shall be by a single arbitrator in accordance with the provisions of the Arbitration Act of 1965 as amended and shall be conducted in accordance with such procedure as may be agreed between the Parties or, failing such agreement, in accordance with the Rules for the Conduct of Arbitrations, current at the date of the contract, published by the Association or Arbitrators.
- 12.4.2 The arbitrator shall be mutually agreed upon or, failing agreement, to be nominated by the person named in the Contract Data.

13. LIABILITY

13.1 Liability of the Service Provider

- 13.1.1 The Service Provider shall be liable to the Employer arising out of or in connection with the Contract if a breach of Clause 5.1 is established against him.
- 13.1.2 The Service Provider shall correct a Defect on becoming aware of it. If the Service Provider does not correct a Defect within a reasonable time and the Defect arose from a failure of the Service Provider to comply with his obligation to provide the Services, the Service Provider shall pay to the Employer the amount which the latter assesses as being the cost of having such Defect corrected by Others.

13.2 Liability of the Employer

The Employer shall be liable to the Service Provider arising out of or in connection with the Contract if a breach of an obligation of his in terms of the Contract is established. The Service Provider shall have no separate delictual right of action against the Employer.

13.3 Compensation

If it is established that either Party is liable to the other, compensation shall be payable only on the following terms:

- (a) Compensation shall be limited to the amount of reasonably foreseeable loss and damage suffered as a result of the breach.
- (b) The compensation payable by either Party shall be reduced by the arbitrator/mediator/adjudicator to such extent as is deemed just and equitable having regard to the degree in which the other Party or any third party was at fault in relation to the loss or damage. The liability of the Parties is not joint and each Party shall only be liable for that proportion of the compensation which is attributable to his fault.
- (c) In any event, the amount of compensation will be limited to the amount specified in Clause 13.5.

13.4 Duration of Liability

Notwithstanding the terms of the Prescription Act No. 68 of 1969 (as amended) or any other applicable statute of limitation neither the Employer nor the Service Provider shall be held liable for any loss or damage resulting from any occurrence unless a claim is formally made within the period stated in the Contract Data or, where no such period is stated, within a period of three years from the date of termination or completion of the Contract.

13.5 Limit of Compensation

13.5.1 The maximum amount of compensation payable by either Party to the other in respect of liability under the Contract is limited to:

- a) the sum insured in terms of 5.4. in respect of insurable event; or
- b) the sum stated in the Contract Data or, where no such amount is stated, to an amount *equal to twice the Contract Price (inclusive of VAT) payable to the Service Provider under the Contract.*

13.5.2 Each Party agrees to waive all claims against the other insofar as the aggregate of compensation which might otherwise be payable exceeds the aforesaid maximum amount payable.

13.5.3 If either Party makes a claim for compensation against the other Party and this is not established, the claimant shall reimburse the other for his reasonable costs incurred as a result of the claim or if proceedings are initiated in terms of Clause 12 for such costs as may be awarded.

13.6 Indemnity by the Employer

The Employer shall indemnify the Service Provider against all claims by third parties which arise out of or in connection with the performance of the Services save to the extent that such claims do not in the aggregate exceed the limit of compensation in Clause 13.5 or are covered by the insurances arranged under the terms of Clause 5.4.

13.7 Exceptions

13.7.1 Clauses 13.5 and 13.6 shall not apply to claims arising from deliberate misconduct.

13.7.2 The Service Provider shall have no liability whatsoever for actions, claims, losses or damages occasioned by:

- a) the Employer omitting to act on any recommendation, or overriding any act, decision or recommendation, of the Service Provider, or requiring the Service Provider to implement a decision or recommendation with which the Service Provider disagrees or on which he expresses a serious reservation; or
- b) the improper execution of the Service Provider's instructions by agents, employees or independent contractors of the Employer.

14. REMUNERATION AND REIMBURSEMENT OF SERVICE PROVIDER

The Employer shall remunerate and reimburse the Service Provider for the performance of the Services as set out in the Pricing Data *and Scope of Works*. If not otherwise stated in the Pricing Data, the following shall apply:

14.1 The Service Provider shall be entitled to render interim monthly accounts for fees and reimbursements throughout the duration of the Contract. Interim amounts of lump sum fees due *(or any specified fixed-progressed payments due that have been delayed by the acts of the Employer)* shall be based on progress.

14.2 Amounts due to the Service Provider shall be paid by the Employer within thirty (30) days of receipt by him of the relevant invoices. If the Service Provider does not receive payment by the due date, he shall be entitled to charge interest on the unpaid amount, which is payable by the Employer, at the overdraft rate charged him by his bank plus 2% per annum, compounded monthly and calculated from the due date of payment.

14.3 If any item or part of an item in an invoice submitted by the Service Provider is disputed by the Employer, the latter shall, before the due date of payment, give notice thereof with reasons to

the Service Provider, but shall not delay payment of the balance of the invoice. Clause 14.2 shall apply to disputed amounts which are finally determined to be payable to the Service Provider.

- 14.4 In respect of Services charged for on a time basis and all other reimbursable expenses the Service Provider shall maintain records in support of such charges and expenses for a period of six months after the completion or termination of the Contract. Within this period the Employer may, on not less than 14 days notice, require that a reputable and independent firm of accountants, nominated by him at his expense, audit any claims made by the Service Provider for time charges and expenses by attending during normal working hours at the office where the records are maintained.
- 14.5 *All accounts presented for payment shall be according to the Employers prescribed format with proof of ITIS data capture and shall be submitted to the Employer electronically and when required, delivered in hard copy to the Employer's relevant regional office.*
- 14.6 *Payments due shall be subject to the deduction of retention monies as stated in the Contract Data. The retention monies so deducted shall be released in accordance with the phases and conditions stated in the Contract Data.*
- 14.7 *If applicable, Contract Price Adjustment will be paid according to the method stated in the Contract Data.*

C1.2.2 CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER

Clause No Contract Data

The Employer is the South African National Roads Agency SOC Limited (SANRAL).

The Employer's domicilium citandi et executandi (permanent physical business address) is:

48 Tambotie Avenue
VAL DE GRACE, 0184

The authorised and designated representative of the Employer is:

The Regional Manager (Southern Region)
Tel: No.: 041 398 3200

3.4 The address for receipt of communications is:

Name: TBA
Tel: No.: TBA
E-mail: TBA

Address:
The South African National Roads Agency SOC Ltd
20 Shoreward Drive
Bay West
Gqeberha, 6025

3.5 The project is CONSULTING ENGINEERING SERVICES FOR THE SUPERVISION OF THE ROAD MARKINGS IN AMATHOLE, CHRIS HANI, ALFRED NZO, AND JOE GQABI DISTRICT MUNICIPALITIES

The location for the performance of the Project is on AMATHOLE, CHRIS HANI, ALFRED NZO, AND JOE GQABI DISTRICT MUNICIPALITIES

3.6 The Service Provider may only release public or media statements or publish material related to the Services or Project subject to the approval of the Employer.

3.11.1 The penalty payable for poor performance will be applied over the full-time duration of the Contract. Penalty charges shall be as follows:

- a) Failure to meet milestone dates in the project program = R2 000.00/day (excl. VAT) subject to a maximum of 10% of the Contract Value (excluding all Prime Cost and Provisional Sums).
- b) Failure to disclose Sub-contractors = up to 10% of the Contract value.
- c) Failure to meet the tendered target of work for Targeted Enterprises = 100% of the value by which the cumulative value of payments to the Targeted Enterprises fails to meet the tendered percentage.

3.14 The programme shall be submitted within 14 days of the award of the Contract.

5.4 The Service Provider is required to provide the Service with all reasonable care, diligence and skill in accordance with generally accepted professional techniques and standards.

The Service Provider is required to provide the following insurances:

1. Insurance against Professional Indemnity

Cover is: R 9.0 million without a limit on the number of claims. The limit of liability is only provided to cover the Employer's damages and does not allow for the Service Provider's cost for defending any claim

Period of cover: Structures – 25 years all other instances – 10 years

2. Insurance against General Public Liability

Cover is: R10 million

Period of cover: Structures – 25 years all other instances – 10 years

3. Third Party Liability

Cover is: R 9.0 million

Period of cover: Duration of contract only.

5.5 The Service Provider is required to obtain the Employer's prior approval in writing before taking any of the following actions:

1. Appointing Key Persons not listed by name in the Contract Data.
2. Appointing Sub-contractors for the performance of any part of the Service.
3. Expending any Provisional Sum in the Contract or Works Contract.
4. Authorising any work under a Works Authorisation for the Works Contract.
5. Authorising any work outside the contract limits.
6. Over-expenditure on the Works Contract.
7. Changing the scope of work for the Works Contract.
8. Acceptance of sub-standard work under the Works Contract.
9. All aspects requiring the Employers approval in terms of SANRAL's Works Manual.
10. Making statements to the media regarding the project.

5.9 The provision of a Performance Guarantee will not be required under this Contract.

7.2 The **Key Person** required for this project is:

- Contract Engineer

7.3 The working hours and holiday for site staff are:

- Site working hours 08:00 to 17:00 (24hrs per day and 7days per week on standby)
- Annual leave shall be taken during the recognized construction industry shutdown period.

8.1 The effective date of the contract shall be the date of the Form of Acceptance.

The time to commence the performance of the Services is within 8 (eight) calendar days after the date that the Contract becomes effective.

8.2 The Contract is concluded on the date when the Service Provider has completed all deliverables in accordance with the Scope of Work.

9.1 Copyright of documents prepared for the Project shall be vested with the Employer.

11.2 The Service Provider shall not sub-contract more than 25% of the tendered contract value excluding any services specified in the Scope of Works to be procured under a Provisional Sum through the Employer's Supply Chain Procurement process) to any other enterprise that does not have an equal or higher B-BBEE status level, unless the intended sub-contractor(s) is an Exempted Micro Enterprise that has the capability and ability to execute the sub-contract.

All sub-contractor(s) shall be registered on the National Treasury's Central Supplier Database (CSD).

The Service Provider shall disclose all sub-contracting arrangements. If the Service Provider fails to disclose, he shall be given 14 (fourteen) days to make representation as to why:

- (i) The contract shall not be terminated.
- (ii) The Service Provider shall not be penalised up to 10% of the value of the contract.

12. Interim settlement of disputes is to be by mediation.

Final settlement is by litigation.

In the event that the parties fail to agree on a mediator, the mediator is to be nominated by the President of the South African Institution of Civil Engineering.

- 13.4 Neither the Employer nor the Service Provider is liable for any loss or damage resulting from any occurrence unless a claim is formally made within 36 months from the date of termination or completion of the Contract.
- 13.5 The maximum amount of compensation payable by either Party to the other in respect of liability under the Contract is limited to R 9.0 million.
- 14.6 Retention monies shall be 10% of the value of completed works up to a maximum of R50 000.00 (excluding VAT). Such retention monies shall be released by the Employer on receipt of an approved Contract Report and As-built material records and drawings within 1 (one) month of the issue of the Performance Certificate.
- 14.7 Contract Price Adjustment: refer to pricing instructions in clause C2.1.6 of the pricing schedule. Base date shall be the date 28 days **prior** to the latest date for submission of tenders. Base date for this contract is June 2024.

C1.2.3 CONTRACT DATA – INFORMATION PROVIDED BY THE TENDERER

A: CONTACT DETAIL

The Service Provider is

Address:

Telephone:

Facsimile:

The authorised and designated representative of the Service Provider is:

Name:

The **postal address** for receipt of communications is:

.....

Telephone:

Facsimile:

Address:.....

E-mail Address:

B: KEY PERSON

Key Person	Name
Contract Engineer	
Alternate to Contract Engineer (if applicable)	

C: INFORMATION REQUIRED FOR THE PUBLICATION OF AWARD AS PER NATIONAL TREASURY INSTRUCTION NOTE

Name of Partners, Members or Directors	Appointment Date	Designation	Professional Registration Number

C1.3 OTHER STANDARD FORMS

C1.3.1 FORM OF GUARANTEE

Note to tenderer:

This pro-forma guarantee is included for information purposes only. Where required in terms of the Contract, a separate form of Guarantee will be issued to the successful tenderer for completion and signature

TO: The South African National Roads Agency SOC Limited
PO Box 415
Pretoria
0001

CONTRACT SANRAL X.003-072-2023/1S

1. I/We, the undersigned,

.....and.....

in our capacity as

.....and.....

and as such duly authorised to represent:.....

.....

(hereinafter referred to as "the Guarantor") (in the case of a company a Resolution to be attached) do hereby hold at your disposal the amount of.....

.....(R.....)

(the "guaranteed amount") for the due fulfilment by (insert the name of Service Provider) (hereinafter referred to as "the Service Provider") of its obligations to The South African National Roads Agency SOC Limited (hereinafter referred to as "SANRAL") in terms of the above stated contract between the Service Provider and SANRAL.

2. We hereby renounce the benefits of the exceptions *non numeratae pecuniae*, *non causa debiti*, *excussionis* and *divisionis*, the meanings and effect whereof we declare ourselves to be fully conversant.
3. We undertake and agree to pay to SANRAL the said guaranteed amount or such portion as may be demanded on receipt of a written demand from SANRAL, which demand may be made by SANRAL, if in your opinion and at your sole discretion, the said Service Provider fails and/or neglects to commence the work as prescribed in the contract or if he fails and/or neglects to proceed therewith or if, for any reason, he fails and/or neglects to complete the services in accordance with the condition of contract, or if he fails or neglects to refund to SANRAL any amount found to be due and payable to SANRAL, or if his estate is sequestrated or if he surrenders his estate in terms of the Insolvency Law in force within the Republic of South Africa.
4. Subject to the above and without in anyway detracting from your rights to adopt any of the procedures set out in the contract, the said demand can be made by you at any stage.
5. The said guaranteed amount or such portion as may be demanded may be retained by SANRAL on condition that after completion of the service as stipulated in the contract, SANRAL shall account to the Guarantor showing how this amount has been utilised and refund to the Guarantor any balance due.
6. This guarantee is neither negotiable nor transferable and
 - (a) must be surrendered to us at the time when SANRAL accounts to the Guarantor in terms of clause 5 above, or
 - (b) shall lapse upon the issue of the Taking-Over Certificate for the construction Works of the project, and

(c) shall not be interpreted as extending the Guarantor's liability to anything more than payment of the amount guaranteed.

7. This guarantee shall be governed by South African Law and subject to the jurisdiction of South African Courts.

THUS DONE AND SIGNED AT ON THIS DAY

OF 20

GUARANTOR

NAME (IN CAPITALS)

AS WITNESSES: 1 2

NAMES (IN CAPITALS) 1 2

ADDRESSES: 1 2

C1.3.2 AGREEMENT IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT 1993 (ACT NO 85 OF 1993) AND CONSTRUCTION REGULATIONS 2014

This AGREEMENT made at
on this the day of in the year
between THE SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LIMITED (hereinafter called "the Employer") on the one part, herein represented by
in his capacity as
and delegate of the Employer in terms of the Employer's standard powers of delegation pursuant to the provisions of Act No. 7 of 1998, and
(hereinafter called "the Mandatary") on the other part, herein represented by
.....
in his capacity as

WHEREAS the Employer is desirous that certain works be designed, viz CONTRACT SANRAL **X.003-072-2023/1S** FOR CONSULTING ENGINEERING SERVICES FOR THE SUPERVISION OF THE ROAD MARKINGS IN AMATHOLE, CHRIS HANI, ALFRED NZO, AND JOE GQABI DISTRICT MUNICIPALITIES and has accepted a tender by the Mandatary for the design and construction supervision of such works and has appointed the Mandatary in terms of Regulation 5(5) of the Construction Regulations 2014, and whereas the Employer and the Mandatary have agreed to certain arrangements and procedures to be followed in order to ensure compliance by the Mandatary with the provisions of the Occupational Health and Safety Act 1993 (Act 85 of 1993);

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. The Mandatary shall execute the work in accordance with the contract documents pertaining to this contract.
2. This Agreement shall hold good from its commencement date, to either :
 - a) the date of the construction contract Performance Certificate issued in terms of sub-clause 11.9 of the Conditions of Contract for Construction for Building and Engineering Works designed by the Employer (1999) published by Federation Internationale des Ingenieurs-Conseils (FIDIC), as contained in Volume 1 of the contract documents pertaining to this contract, or
 - b) the date of termination of this contract in terms of Clause 8 of the CIDB's Standard Conditions of Contract for Professional Services.
3. The Mandatary declares himself to be conversant with the following:-
 - a) All the requirements, regulations and standards of the Occupational Health and Safety Act (Act 85 of 1993), hereinafter referred to as "The Act", together with its amendments and with special reference to the following Sections of The Act.
 - i) Section 8: General duties of employers to their employees.
 - ii) Section 9: General duties of employers and self-employed persons to persons other than employees.

- iii) Section 37: Acts or omissions by employees or mandataries and
 - iv) Sub-section 37(2) relating to the purpose and meaning of this Agreement.
- b) The procedures and safety rules of the Employer as pertaining to the Mandatary and to all his sub-service providers.
- 4. In addition to the requirements of the agreed contract, the Mandatary further agrees to strictly adhere to his duties and responsibilities as set out in Regulation 6 of the Construction Regulations 2014.
- 5. The Mandatary is responsible for the compliance with the Act by all his sub-service providers, whether or not nominated and/or approved by the Employer.
- 6. The Mandatary warrants that all his and his sub-service provider's' employees are covered in terms of the Compensation for Occupational Injuries and Diseases Act 1993, which cover shall remain in force whilst any such employees are present on site. A letter of good standing from the Compensation Commissioner to this effect must be produced to the Employer upon signature of the agreement.
- 7. The Mandatary undertakes to ensure that he and/or his sub-service providers and/or their respective employees will at all times comply with the following conditions:
 - a) The Mandatary shall assume the responsibility in terms of Section 16.1 of The Act. The Mandatary shall not delegate any duty in terms of Section 16.2 of The Act without the prior written approval of the Employer. If the Mandatary obtains such approval and delegates any duty in terms of section 16.2 a copy of such written delegation shall immediately be forwarded to the Employer.
 - b) All incidents referred to in Section 24 of The Act shall be reported by the Mandatary to the Department of Labour as well as to the Employer. The Employer will further be provided with copies of all written documentation relating to any incident.
 - c) The Employer hereby obtains an interest in the issue of any formal enquiry conducted in terms of section 32 of The Act into any incident involving the Mandatary and/or his employees and/or its sub-service providers.

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

SIGNED FOR AND ON BEHALF OF EMPLOYER:

WITNESS 1:

NAME (IN CAPITALS)

WITNESS 2:

NAME (IN CAPITALS)

SIGNED FOR AND ON BEHALF OF THE MANDATARY

WITNESS 1:

NAME (IN CAPITALS):

WITNESS 2:

NAME (IN CAPITALS)

SANRAL

SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD



BUILDING SOUTH AFRICA
THROUGH BETTER ROADS

THE SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LIMITED

CONTRACT SANRAL NRA X.003-072-2023/1S

**FOR CONSULTING ENGINEERING SERVICES FOR
THE SUPERVISION OF THE ROAD MARKINGS IN
AMATHOLE, CHRIS HANI, ALFRED NZO, AND JOE
QABI DISTRICT MUNICIPALITY**

BASE DATE:
September 2024

TENDER DOCUMENT
VOLUME 1
BOOK 3 of 3

**CHIEF EXECUTIVE OFFICER
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LIMITED
48 TAMBOTIE AVENUE
VAL DE GRACE
PRETORIA, 0184**

NAME OF TENDERER:

THE SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LIMITED

CONTRACT SANRAL NRA X.003-072-2023/1S

**CONSULTING ENGINEERING SERVICES FOR THE
SUPERVISION OF THE ROAD MARKINGS IN AMATHOLE, CHRIS
HANI, ALFRED NZO, AND JOE GQABI DISTRICT
MUNICIPALITIES**

THIS DOCUMENT COMPILED BY:

The Regional Manager (Southern Region)
The South African National Roads Agency SOC Ltd
20 Shoreward Drive
Baywest
Gqeberha
6025

Tel: (041) 398 3200

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PART C2: PRICING DATA

PART C2: PRICING DATA

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C2.1 PRICING INSTRUCTIONS

C2.1.1 For the purposes of this Pricing Schedule, the following words shall have the meanings hereby assigned to them.

Unit:	The unit of measurement for each item of work as defined in the Scope of Works.
Quantity:	The number of units of work for each item.
Rate:	The payment per unit of work for which the Service Provider tenders to do the work.
Amount:	The product of the quantity and the rate tendered for an item.
Lump Sum:	An amount tendered for an item, the extent of which is described in the Pricing Schedule, the Scope of Work or elsewhere, but of which the quantity of work is not measured in units.
Provisional Sum:	An amount allowed for in the Pricing Schedule, for which the quantity of work is not known.
Prime cost:	Is a specific type of Provisional Sum where payment is made on the production of invoices showing the cost price of the implementation or installation of the service required. Services rendered in this manner carry a cost for which a rate or a lump sum is offered at tender stage to cover all the tenderer's handling, supervision and liability costs in providing the item or services.

C2.1.2 The quantities set out in the Pricing Schedule are only approximate quantities. The quantities of work finally accepted and certified for payment, and not the quantities given in the Pricing Schedule, will be used to determine payments to the Service Provider.

The validity of the Contract shall in no way be affected by differences between the quantities in the Pricing Schedule and the quantities finally certified for payment. Work is valued at the rates or lump sums tendered.

C2.1.3 Rates and lump sums shall include full compensation for overheads, profits, incidentals, tax (other than VAT), etc, and for the completed items of work as specified in the Scope of Works and Contract Data and for all the risks, obligations and responsibilities specified in the General Conditions of Contract, Particular or Special Conditions of Contract, except in so far as the quantities given in the Pricing Schedule are only approximate.

C2.1.4 The tenderer shall fill in a rate or a lump sum for each item where provision is made for it even where no quantities are given. Items against which no rate or lump sum has been entered in the tender will not be paid for when the work is executed, as payment for such work will be regarded as being covered by other rates or lump sums in the pricing schedule.

The tenderer shall fill in a rate against all items where the words "rate only" appears in the amount column. Although no work is foreseen under such item and no quantities are consequently given in the quantity column, the tendered rate shall apply should work under this item actually be required. Tenders should note the provisions of clause C2.1.10 of this preamble.

The tendered lump sums and rates shall be valid irrespective of any change in the quantities during the execution of the contract.

C2.1.5 The short descriptions of the payment items in the Pricing Schedule are only given to identify the items and to provide specific details. Reference shall, *inter alia*, be made to the Contract Data, General Conditions of Contract and Particular/Special Conditions of Contract and Scope of Works for more detailed information regarding the extent of work entailed under each item.

C2.1.6 Where so indicated under measurement and payment, prices or rates will be subject to adjustment for escalation as provided for below:

- The prices or rates shall be fixed for the first 12-month period determined from the tender base date and no change during this period will be allowed for escalation.

- On the 12-month anniversary date of the Contract base date the rates or sums shall be adjusted by the 12-month year on year CPI index (as published in the monthly bulletin PO141 of Statistics South Africa under table B) and fixed at this value for the following 12-month period. Subsequent 12-month periods shall be dealt with on the same basis.
- Adjustment of lump sum prices for escalation shall only be applicable to that portion of the relevant Service which is incomplete at the end of the 12-month anniversary date and shall not be applicable to any progress payments already claimed.

Adjustment for escalation shall only be applicable for services, or portions thereof, that are still within the prescribed programme and any approved extensions of time.

C2.1.7 Interim payments for lump sum payment items may be permitted. Such interim payments shall however be limited to proven progress achieved for that particular service deliverable. The sum of any progress payments made under a particular lump sum payment item shall be deducted prior to calculating any adjustments for escalation as described in clause C2.1.6 above.

C2.1.8 Provisional and Prime Cost Sums: Each Sum shall only be used, in whole or in part, in accordance with the Employer's instructions and the Contract Price shall be adjusted accordingly. The total sum paid to the Service Provider shall include only such amounts, for the work, supplies or services to which the Sum relates, as the Employer shall have instructed.

For each Sum, the Employer may instruct plant, materials or services to be procured by the Service Provider in accordance with the Employer's policies, and for which there shall be included in the Contract Price:

- The actual amounts paid (or due to be paid) by the Service Provider under the Sum, and
- An item for compilation and printing of procurement documentation, quotation/tender process and evaluation, and all overhead charges and profit, tendered in the Pricing Schedule. Provided that for Prime Cost Sums only, where a percentage mark-up or lump sum mark-up is tendered, which shall exclude profit.

The Service Provider shall produce all quotations, invoices, vouchers and accounts or receipts in substantiation of any claim under a Sum.

Any percentage adjustment or lump sum mark-up against the Sum for handling fee, profits, etc. shall not be negative.

C2.1.9. Subject to the conditions stated in Clause C2.1.10 below, the rates and lump sums filled in by the tenderer in the pricing schedule shall be final and binding with regard to submitting the tender, and may not be adjusted should there be any mistakes in the extensions thereof and in the total sums appearing in the tender. Should there be any discrepancies between the tender sum and the correctly extended and totalled pricing schedule, the rates and the lump sums will be regarded as being correct, and the Employer shall have the right to make adjustments to the tender sum to reconcile the tender sum with the total of the pricing schedule. In such an event the tenderer will be consulted but, failing agreement between the parties, the decision of the Employer shall be final and binding. Adjustment of the tender sum will take place prior to the signing of the contract. In their own interest tenderers must make doubly sure of the correctness of their tendered rates and lump sums, the extensions and the tender sum.

C2.1.10 A tender may be deemed non-responsive if the unit rates or lump sums for some of the items in the Pricing Schedule are, in the opinion of the Employer, unreasonable or out of proportion, and if the tenderer fails, within a period of seven (7) days of having been notified in writing by the Employer to adjust the unit rates or lump sums for such items, to make such adjustments.

C2.1.11 All rates and sums of money quoted in the Pricing Schedule shall be in South African Rand and whole cents

C2.1.12 The item numbers appearing in the Pricing Schedule refer to the corresponding item numbers in the Scope of Work.

C2.2 PRICING SCHEDULE (INCORPORATING SBD3)

Note to tenderer:

The tenderer will be declared non-responsive if:

- **A signed Form of Offer is submitted with an incomplete Pricing Schedule.**
- **A signed Form of Offer is submitted without a Pricing Schedule, but only the Summary of Pricing Schedule submitted.**

C2.2 PRICING SCHEDULE (Incorporating SBD3) REFER TO EXCEL SPREADSHEET

Item	Description	Unit	Quantity	Rate		Total (R)	
3200	DETAILED ASSESSMENT PHASE						
32.01	Detailed assessment phase:						
	(a) Road Markings Condition Report	Lump Sum					
	(b) Travel and subsistence cost	Lump Sum					
	(c) Toll fees	Prime Cost					
32.02	Occupational Health and Safety requirements	Lump Sum					
	TOTAL CARRIED FORWARD TO SUMMARY						

Item	Description	Unit	Quantity	Rate		Total (R)	
3300	TENDER DOCUMENTATION						
33.01	Tender Documentation:						
	(a) Preparation of Tender Documents per Contract	Number					
	(b) Burning of Tender Documents on CD	Number					
	TOTAL CARRIED FORWARD TO SUMMARY						

Item	Description	Unit	Quantity	Rate		Total (R)	
3400	SITE INSPECTION(S) AND TENDER PERIOD						
34.01	Site inspection(s) and Tender period						
	(a) Service Providers' Cost per Contract	Number					
	(b) Provision for pre-recorded video of the scope of the works	Prime Cost					
	(c) Handling cost i.r.o. item 34.01(b)	%					
34.02	Tender Evaluation Report()						
	(a) Compilation of Tender Evaluation and Report(s)	Number					
	(b) Disbursements per tender evaluation	Number					
34.03	Preparation of Works contract documents	Number					
	TOTAL CARRIED FORWARD TO SUMMARY						

Item	Description	Unit	Quantity	Rate		Total (R)	
3500	ADMINISTRATION & MONITORING OF WORKS CONTRACT(S)						
35.01	Engineer and Head Office						
	(a) Cost to fulfil the duties of Engineer	Month					
	(b) Head Office overhead costs	Month					
	(c) Occupational Health and Safety obligations:						
	(i) Continuous compliance and monthly internal audits	Month					
	(ii) External audits	Prime cost					
	(iii) Handling costs i.r.o. sub-item 35.01(c)(ii)	%					
	(d) Training of Assistant Contract Engineer:						
	(i) Training by Contract Engineer	Prov. Sum					
	(ii) Remuneration of Assistant Contract Engineer	Prov. Sum					
	(iii) Disbursements	Prime cost					
	(e) Extra over items 35.01(a), (b) and (c)(i) for additional roads	Month					
35.02	Establishment of Supervisory team on site						
	(a) Relocation cost of individual site personnel	Prime Cost					
	(b) Handling cost i.r.o. sub-item 35.02(a)	%					
	(c) Establishment of office equipment	Lump Sum					
35.03	Provision of Supervisory Staff and Equipment						
	(a) Site Supervision Staff	Prov. Sum					
	(b) Mark-up i.r.o. sub-item 35.03(a)	%					
	(c) Project Liaison Officer(s)	Prov. Sum					
	(d) Handling cost i.r.o. sub-item 35.03(c)	%					
	(e) Accommodation						
	(f) Mark-up i.r.o. sub-item 35.03(e)	Prov. Sum					
	(g) Provision and monthly cost of office equipment.	% Month					
	(h) Trainee (student)						
	(i) Mark-up i.r.o. sub-item 35.03(h)	Prov. Sum %					
	(j) Provision and monthly cost of retro-reflectometer for retro-reflective testing of road markings.	Month					
35.04	Transport for site personnel and additional duties						

	(a) Travelling to perform duties (b) Handling cost i.r.o. item 35.04(a) (c) Toll fees	Prov sum % Prime Cost					
35.05	Assistance at Clarification Meeting, Tender Period and Tender Evaluation of sub-contract packages						
	(a) Service Provider's cost (b) Tender Evaluation (c) Evaluation Report(s)	Number Number Number					
	TOTAL CARRIED FORWARD TO SUMMARY						

Item	Description	Unit	Quantity	Rate		Total (R)	
3600	ADDITIONAL DUTIES						
36.01	Additional duties by Service Provider						
	(a) Personnel – Category A (b) Personnel – Category B (c) Personnel – Category C (d) Personnel – Category D (e) Design Drawings review (per km) (f) Design Drawing review (per interchange)	Hour Hour Hour Hour Km Number					
36.02	Additional duties by Employer	Hour	-	- 1,500	00	Rate only	
36.03	Disbursements						
	(a) Disbursements (b) Handling cost i.r.o. item 36.03(a)	Prime cost %					
36.04	Additional duties by sub-service provider						
	(a) Additional duties (b) Handling cost i.r.o. item 36.04(a)	Prime cost %					
36.05	Payment and Monthly reporting costs	Month					
36.06	Project Liaison Committee (PLC)						
	(a) Establishment of PLC (b) Liaison/meetings with the PLC during Design and Construction Phase (c) PLC stipend (d) Handling cost i.r.o. item 36.06(c) (e) Training of PLC members Handling cost i.r.o. item 36.06(d)	Lump sum Prov. Sum Prov. Sum % Prov. Sum %					
36.06	Market analysis and Databases						
	(a) Market analysis (b) Establishment and maintenance of Targeted Enterprise database (c) Establishment and maintenance of a Targeted Labour database	Lump sum month month					
	TOTAL CARRIED FORWARD TO SUMMARY						

Item	Description	Unit	Quantity	Rate		Total (R)	
3700	OFF-SITE MATERIALS TESTING						
37.01	Off-site materials testing						
	(a) Off-site testing by an external SANAS accredited laboratory	Prime cost					
	(b) Handling cost i.r.o. item 37.01(a)	%					
	TOTAL CARRIED FORWARD TO SUMMARY						

Item	Description	Unit	Quantity	Rate		Total (R)	
38.00	ADMINISTRATION & MONITORING DURING PRODUCT PERFORMANCE PERIOD						
38.01	Administration and Monitoring during Product Performance Period						
	(a) Second Inspection Certificate (at month 12 or 18) per contract	Number					
	(b) Final Inspection at issue of Performance Certificate (at month 24 or 36) per contract	Number					
	TOTAL CARRIED FORWARD TO SUMMARY						

C2.3 SUMMARY OF PRICING SCHEDULE

3200	Detailed assessment phase	R.....
3300	Tender Documentation	R.....
3400	Site inspection and tender period	R.....
3500	Administration and monitoring of the Works Contract	R.....
3600	Additional duties	R.....
3700	Off-site materials testing	R.....
3800	Administration and monitoring during Product Performance Period	R.....

SUB-TOTAL	R.....
VAT (15%)	R.....

TENDER SUM CARRIED FORWARD TO FORM OF OFFER (C1.1.1) R.....

SIGNED BY TENDERER:

FORM D1: PREFERENCING SCHEDULE: TENDERER'S B-BBEE VERIFICATION CERTIFICATE
(Incorporating SBD6.1)

Notes to Tenderer:

2. The tenderer shall attach to this form a valid original or original certified copy of the B-BBEE Verification Certificate issued in accordance with:
 - the amended Construction Sector Codes published in Notice 931 of 2017 of Government Gazette No 41287 on 1 December 2017 by the Department of Trade and Industry.
 - in the event that the Measured Entity operates in more than one sector or sub-sector (e.g. Contractor or BEP) the scorecard for the sector or sub-sector in which the majority of its core activities (measured in terms of Annual Revenue) are located will be acceptable, on condition that it complies with the annual revenue thresholds for EME or QSE or Generic in accordance with the Construction Sector Codes.
3. The certificate shall:
 - have been issued by a Verification Agency accredited by the South African National Accreditation System (SANAS); or
 - be in the form of a sworn affidavit (accompanied by an audited financial statement or management account on the latest financial year) or a certificate issued by the Companies and Intellectual Property Commission in the case of an Exempted Micro Enterprise (EME) with a total annual revenue of less than R1.8 million if issued in accordance with the amended Construction Sector Codes published in Notice 931 of 2017 of Government Gazette No 41287 on 1 December 2017 by the Department of Trade and Industry; and
 - be valid at the tender closing date; and
 - have a date of issue less than 12 (twelve) months prior to the tender closing date (see Tender Data 4.15).
4. In the event of a Joint Venture (JV), a project specific (SANRAL project number indicated) consolidated B-BBEE Verification Certificate in the name of the JV shall be attached, as well as a valid B-BBEE verification certificate for each member of the JV on which the JV certificate was calculated.
5. The attached Verification Certificate and the associated Assessment Report shall comply with the requirements of Tender Data, Clause 5.11.8 and shall identify:
 - (a) The name and domicilium citandi et executandi of the tenderer.
 - (b) The registration and VAT number of the tenderer.
 - (c) The dates of granting of the B-BBEE score and the period of validity.
 - (d) The expiry date of the Verification Certificate.
 - (e) A unique identification number.
 - (f) The standard and/or normative document, including the issue and/or revision used to evaluate the tenderer.
 - (g) The name and/or mark/logo of the B-BBEE Verification Agency.
 - (h) The scorecard (GENERIC, QSE, Exempt) against which the tenderer has been measured.
 - (i) The B-BBEE status level.
 - (j) The South African National Accreditation System (SANAS) logo on the Verification Certificate once verification agencies have been accredited.
 - (k) The B-BBEE procurement recognition level.
 - (l) The score achieved per B-BBEE element.
 - (m) The % black shareholding.
 - (n) The % black women shareholding.
 - (o) The % black persons with disabilities shareholding.
 - (p) The % black youth shareholding.
 - (q) the % black people living in rural or under-developed areas or townships shareholding.
 - (r) The % black military veterans shareholding.
 - (s) The value added status of the tenderer.

5. The Employer will not be responsible to acquire data that it needs for its own reporting systems and which may not form part of a Verification Agency's standard certificate format. The tenderer, at its own cost, must acquire the specified data listed in 3 above from its selected Verification Agency and have it recorded on the certificate. Alternatively, such missing data must be supplied separately, but certified as correct by the same Verification Agency and also attached to this form.

6. The tenderer will be declared non-responsive if:
 - a) The B-BBEE certificate is not submitted or submitted B-BBEE certificate that has expired or is not valid; or
 - b) The tenderer submits a B-BBEE certificated that does not comply with requirements (e.g. not SANAS); or
 - c) The tenderer submits the Scorecard assessment report only; or
 - d) In a case of a Joint Venture, the tenderer submits an unincorporated consolidated Joint Venture B-BBEE certificate which is not project specific; or
 - e) In a case of a Joint Venture, the tenderer submits an unincorporated consolidated Joint Venture B-BBEE certificate does not have a contract description and/or a tender number; or
 - f) A tenderer only submits 1 (one) B-BBEE certificate, where multiple tenders were issued by SANRAL; or
 - g) An EME (not start-up) submits a Sworn Affidavit with total revenue above R1.8 million instead of a B-BBEE certificate; or
 - h) A QSE submits a Sworn Affidavit instead of a B-BBEE certificate.
 - i) The Sworn Affidavit is not valid. A valid Sworn Affidavit must contain the following:
 - i. Name/s of deponent as they appear in the identity document and the identity number.
 - ii. Designation of the deponent as either the director, owner or member must be indicated in order to know that person is duly authorised to depose of an affidavit.
 - iii. Name of enterprise as per enterprise registration documents issued by the CIPC, where applicable, and enterprise business address.
 - iv. Percentage black ownership, black female ownership and whether they fall within a designated group.
 - v. Indicate total revenue for the year under review and whether it is based on audited financial statements or management accounts.
 - vi. Financial year-end (day, month and year) as per the enterprise's registration documents, which was used to determine the total revenue.
 - vii. B-BBEE status level. An enterprise can only have 1 (one) status level.
 - viii. Date deponent signed and date of Commissioner of Oath must be the same.
 - ix. Commissioner of Oath cannot be an employee or ex-officio of the enterprise because, a person cannot by law, commission a sworn affidavit in which they have an interest.
 - j) A valid BBBEE Certificates shall contain:
 - Name of enterprise as per enterprise registration documents issued by CIPC, and enterprise business address.
 - Value-Added Tax number, where applicable.
 - The B-BBEE Scorecard against which the certificate is issued, indicating all elements and scores achieved for each element. The actual score achieved must be linked to the total points as per the relevant Codes.
 - B-BBEE status with corresponding procurement recognition level.
 - The relevant Codes used to issue the B-BBEE verification certificate.
 - Date of issue and expiry (e.g. 9 June 2018 to 8 June 2019). Where a measured entity was subjected to a re-verification process, due to material change, the B-BBEE Verification Certificate must reflect the initial date of issue, date of re-issue and the initial date of expiry. Re-verification does not extend the lifespan of the B-BBEE Verification Certificate.
 - Financial period which was used to issue the B-BBEE Verification Certificate.

**PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT
REGULATIONS 2022 (SBD 6.1)**

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

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

1.2 **To be completed by the organ of state**

- (a) Either the 90/10 or 80/20 preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (b) Price; and
- (c) Specific Goals.

1.4 **To be completed by the organ of state:**

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80/90
SPECIFIC GOALS	20/10
Total points for Price and Specific Goals	100

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid

- invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

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

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

80/20	or	90/10
$Ps = 80 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)$	or	$Ps = 90 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)$

Where

- Ps = Points scored for price of tender under consideration
- Pt = Price of tender under consideration
- Pmin = Price of lowest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
 - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system, then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

The specific goals allocated points in terms of this tender	Criteria	Number of points allocated (90/10 system)	Number of points allocated (80/20 system)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
B-BBEE level scorecard of the tendering entity.	B-BBEE Level 1	10.00	20.00		
	B-BBEE Level 2	9.00	18.00		
	B-BBEE Level 3	6.00	14.00		
	B-BBEE Level 4	5.00	12.00		
	B-BBEE Level 5	4.00	8.00		
	B-BBEE Level 6	3.00	6.00		
	B-BBEE Level 7	2.00	4.00		
	B-BBEE Level 8	1.00	2.00		
	Non-compliant contributor	0.00	0.00		

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.

5. DECLARATION WITH REGARD TO COMPANY/FIRM

5.1. Name of company/firm.....

5.2. Company registration number:

5.3. TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
- ☐ One-person business/sole propriety
- ☐ Close corporation
- ☐ Public Company
- ☐ Personal Liability Company
- ☐ (Pty) Limited
- ☐ Non-Profit Company
- ☐ State Owned Company

[TICK APPLICABLE BOX]

5.4. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in

paragraph 1 of this form;

- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the audi alteram partem (hear the other side) rule has been applied; and

.....	
SIGNATURE(S) OF TENDERER(S)	
SURNAME AND NAME:	
DATE:	
ADDRESS:	
	

PART C3: SCOPE OF WORK

PART C3: SCOPE OF WORK

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C3 SCOPE OF WORKS

C3.1 GENERAL REQUIREMENTS

C3.1.1 Scope

This section covers matters that relate to the Contract as a whole. Definitions, phrases or wording that would otherwise require repetition in other sections of this document are also covered in this section. Matters covered by the General and/or Particular Conditions of Contract are not repeated in this section, except to provide more detailed information.

C3.1.2 Location of the project

The proposed project is in Amathole, Chris Hani, Alfred Nzo, and Joe Gqabi District Municipalities

A locality plan is included in Part C4: Appendix D of this document.

C3.1.3 Description of the project: Road Marking Maintenance Contract

The Service Provider shall be required to provide services relating to the letting, management and supervision of Road Marking in Amathole, Chris Hani, Alfred Nzo, and Joe Gqabi District Municipalities. The construction monitoring service shall be for the duration of the Works contract which has a contract period of 36 months. The site comprises of the following routes with a total length of approximately 2786.05 kilometres:

4 DISTRICT MUNICIPALITY DRIVE PLAN						
DM	Route	section	From (KM)	to (KM)	Distance	Total distance covered
AMATHOLE	R67	3	0	41	41	240.89
		2	0	70.65	70.65	
	R63	12	0	42.54	42.54	
		13	0	60.4	60.4	
		14	0	58.8	58.8	
		15	0	26.3	26.3	
		16	0	45.45	45.45	
	N2	15	0	45	45	268.45
		16	0	80	80	
		17	0	70	70	
		18	0	28	28	
		14	0	66	66	
	N6	1	0	73	73	317.9
		2	0	49	49	
	R72	3	0	68.9	68.9	
		4	0	61	61	
ALFRED NZO	N2	19X	69	96	27	109
		20X	0	70	70	
	R61	9	0	12	12	
	R61	10	0	80.58	80.58	311.88
	R415	1	0	32.6	32.6	
JOE NGQABI	R396	1	0	30	30	
	56	8	0	168.7	168.7	346.37
		7	0	68.8	68.8	
	R58	6	0	66.41	66.41	
		3	0	55.87	55.87	
		2	0	58.49	58.49	
1		0	39.8	39.8		
CHRIS HANI	N6	5	0	57	57	159
		4	0	107	107	
	R392	1	0	9	9	
	R410	1	0	43	43	266.65
		2	0	48	48	
		3	0	25	25	
	R58	7	0	40.7	40.7	
	R61	6	0	92.95	92.95	765.91
		5	0	60	60	
		4	0	63.1	63.1	
		3	0	71.16	71.16	
		2	17.25	85.7	68.45	
	N6	3	0	60	60	
	R67	5	0	33.3	33.3	
		4	0	55.6	55.6	
	N10	3	37	81.75	44.75	
		4	0	95	95	
		5	0	6.6	6.6	
	R56	1	0	80	80	
R390	2	0	35	35		
TOTAL						2786.05

The Services required of the Service Provider are divided into the following distinct phases:

- Administration and monitoring of the Works.
- Administration and monitoring of the Works during product performance period.
- Additional duties, Special Services and Specialist Advice.
- Quality Control: Works Contract.
- Close Out.

C3.1.4 Project Cost Estimate

For the purposes of this tender, the current budget for the Works is R150 million. The final cost of the Works will, however, depend on the strategy selected by the Employer based on the most appropriate and cost-effective options identified by the Service Provider during the design phase. Tenderers shall note that no adjustments to tendered rates will be applicable irrespective of the actual final cost of the Works.

C3.1.5 Stakeholder and Community Liaison and Social Facilitation

a) Purpose

To give effect to the need for transparency and inclusion in the process of delivering services, the Service Provider shall liaise with the project Stakeholders and affected Communities for the duration of the contract's life cycle. This shall be achieved through structured engagement with the PLC which was established for this purpose.

b) Existing contracts

The Employer currently has a routine road maintenance (RRM) contract in progress along the route. The Service Provider shall not visit the site for purposes of undertaking any investigation without first informing the Route Manager of the visit and what type of investigation is intended. The RRM contractor needs to be able to plan his accommodation of traffic duties and no inspection or investigation can take place without acquiring assistance from the RRM for safe conduct through the site or protection when undertaking intrusive or out-of-vehicle surveys and assessments. The Service Provider shall timeously liaise with the Employer and his appointed Route Manager in order to program the assistance required. The contact details of the parties involved in the RRM contract are as follows:

Route Manager: TBA
Contractor: TBA

c) Stakeholders

Any Stakeholder who is affected by the Employer's operations in the locality of the project and/or who has an interest or concern in the project, either as a decision maker, participant or affected party and may include, amongst others, the following entities:

- (i) Provincial departments;
- (ii) Municipal departments;
- (iii) Traditional authorities;
- (iv) Community interest groups;
- (v) Organised youth representation;
- (vi) Organised women representation;
- (vii) Organised disabled people representation;
- (viii) Organised labour representation;
- (ix) Other structured community groups such as religion, education, farming, etc.;
- (x) Transport industry forums;
- (xi) Business sector forums;
- (xii) Road user forums;
- (xiii) Environmental interest groups;
- (xiv) Road safety interest groups; and

- (xv) Any other recognised relevant and representative structure

The project is located within Amathole, Chris Hani, Alfred Nzo, and Joe Gqabi District Municipalities.

d) Target Area for the sourcing of Labour for Construction Contract

The target area for the sourcing of labour only needs to be defined in consultation with the Project Liaison Committee (PLC) and may typically include:

- (i) One or more Provinces;
- (ii) One or more Metropolitan and District Municipalities;
- (iii) One or more Local Municipalities; or
- (iv) One or more Wards that are wholly located within an area within a predefined radius of the construction activity.
- (v) One or more of the areas listed in the definition of Designated Groups.

e) Designated Group for sub-contracting to Works Contractor

Unless otherwise stated in the Works Contractor's documents, a minimum of 30% (thirty percent) sub-contracting provision will apply as a contractual obligation and will be restricted to:

- (i) Black designated groups as defined in the Codes of Good Practice issued in terms of Section 9(1) of the Broad-Based Black Economic Empowerment Act, 2003 (Act 53 of 2003);
- (ii) Black people as defined in Section 1 of the Broad-Based Black Economic Empowerment Act, 2003 (Act 53 of 2003);
- (iii) Black people who are women and who are South African citizens;
- (iv) Black people who are youth as defined in Section 1 of the National Youth Development Agency Act, 2008 (Act 54 of 2008);
- (v) Black people who are people with disabilities as defined in Section 1 of the Employment Equity Act, 1998 (Act 55 of 1998)
- (vi) Black people who are military veterans as defined in Section 1 of the Military Veterans Act, 2011 (Act 18 of 2011);
- (vii) Black people who are living in rural or under-developed areas or townships;
- (viii) Small enterprises as defined in Section 1 of the National Small Enterprise Act, 1996 (Act 102 of 1996);
- (ix) Exempted Micro Enterprises (EMEs) as defined in terms of the Code of Good Practice on black economic empowerment issued in terms of Section 9(1) of the Broad-Based Black Economic Empowerment Act, 2003 (Act 53 of 2003), with an annual turnover of R10 million or less (Amended Codes of Good Practice); and
- (x) Qualifying Small Enterprises (QSEs) as defined in terms of the Code of Good Practice on black economic empowerment issued in terms of Section 9(1) of the Broad-Based Black Economic Empowerment Act, 2003 (Act 53 of 2003), with an annual turnover of R10 million and R50 million.

f) Project Liaison Committee (PLC) and Project Management Team (PMT)

A Project Liaison Committee (PLC) has either been established prior to commencement of the contract or shall be established as soon as possible by the Service Provider. The PLC represents the project's Stakeholders. The PLC consist of representatives of project Stakeholders and affected communities from the following local municipalities Amathole, Chris Hani, Alfred Nzo, and Joe Gqabi District Municipalities, as well as the Project Management Team (PMT) and their representatives.

The PMT comprises representation from the Employer, the Service Provider and the Contractor (during construction phase). Together with the PLC, the PMT is responsible for successful project Stakeholder and community liaison and successful implementation of the Employer's Contract Participation Goals.

Where a PLC has not been established, the Service Provider, under the guidance of the Employer, shall establish such a committee within the boundaries of the Local and/or

District Municipality. Allowance has been made for these requirements in the Pricing Schedule under Additional Duties.

g) Duties of the PLC

The PLC is the official communication channel through which the PMT communicates with project Stakeholders and affected communities on project matters, as well as to communicate the impact that the project has or might have on project Stakeholders and affected communities.

The PLC is also the official communication channel through which project Stakeholders and affected communities communicates with the PMT on the impact that the project has on them, or is anticipated to have on them, or on any other project matters.

The Standard Terms of Reference (TOR) for PLCs requires of the PLC to execute specific duties during each stage of the project, i.e. from project initiation to project completion. Some of these duties overlap project stages and hence, a full description is provided here.

The PLC shall execute the following duties:

Project Initiation and Design Stages:

NOTE: The principles of the TOR shall not be amended, but duties and procedures may be altered to be project specific and to improve the functionality of the PLC.

- (i) Meet as often as required with the Employer and the Service Provider, to discuss and resolve the project's initiation and design stage matters, which are of interest or concern to project Stakeholders and affected communities, the Employer and the Service Provider;

Project Construction Stage:

Point 3: Community Liaison Officer (CLO) or Project Liaison Officer (PLO) selection to be done under the auspices of the PLC.

- (i) Assist the Employer and the Engineer to source suitable candidates where applicable, based on the Employer's prequalification criteria, for the position of PLO.
- (ii) Observe and verify that the pre-qualification criteria and procedures applied by the Employer and Engineer to select and employ the PLO were executed in a fair and transparent manner and were within the prescripts of the relevant legislation and regulations.

Point 4: Definition of a target area (sometimes referred to as a local area or traffic area) to be done under the auspices of the PLC.

- (i) Make recommendations to the Employer and Engineer in identifying the project's Target Area(s), from which Targeted Labour will be employed for inclusion in the tender documents and endorse the identified Target Area(s).
- (ii) Make recommendations to the Employer and Engineer in identifying the project's Target Groups for inclusion in the tender documents and endorse the identified Target Groups.

Point 5: Setup a database of contractors and suppliers (and consultants where relevant) to be done under auspices of the PLC. The final database to be signed off by the PLC.

- (k) Make recommendations to the PMT in establishing the eligibility criteria, pre-qualification criteria, and tendering processes and procedures to be followed to employ Targeted Labour and sub-contract Targeted Enterprises; endorse the agreed criteria and employment and sub-contracting methodology(ies).

Point 6: Setup of database of local labour for the targeted area to be done under auspices of the PLC. The final list to be signed off by the PLC. An agreed system of labour selection from the database is to be agreed at the PLC.

- (i) Peruse and endorse the Project Database(s) compiled by the PMT from which Targeted Labour will be employed.
- (ii) Verify that the criteria and methodology(ies) applied by the contractor to employ Targeted Labour and sub-contract Targeted Enterprises were executed in a fair and transparent manner, and within the Employer's and Government's Supply Chain Management Policies.

Point 7: Hand-over of signed-off databases for sub-contracting and labour to contractor for open tender process and recruitment respectively done by the PLC.

Point 8: Tender to be conducted by contractor using government principles (e.g. public opening of received bids, announcement of bidders and prices). Tabling of winning bidders in the PLC.

- (i) Receive reports and ensure transparency in the appointment of Targeted Enterprises in local projects of the Employer notwithstanding that the authority to appoint such Targeted Enterprises shall remain with the Employer. (Observer status)

Point 9: Appeals on the tender process to be escalated to the Employer for an independent review.

- (i) Agree with the PMT on a dispute resolution mechanism to resolve any disputes that may arise between the PMT and the PLC, project Stakeholders and/or affected communities.
- (ii) Assist the PMT to liaise with project Stakeholders and the affected communities to resolve any disputes between the Employer, Engineer and/or contractor and project Stakeholders and the affected communities, which occurred due to the project.
- (iii) The Employer's ruling on any dispute regarding the tender process shall be considered to be final.

Point 10: Capability assessments of contractors and suppliers to be done under auspices of PLC prior to tender stage, to identify any deficiencies in skills and experience. For labour, skills assessments are to be done at recruitment stage.

Point 11: Contractor development support and training to be coordinated and conducted, ahead under the auspices of the PLC, prior to project commencement.

- (i) Make recommendations to the PMT on the training needs, eligibility criteria and selection criteria, for the provision of training to Targeted Labour, Targeted Enterprises, Designated Groups, project Stakeholders and the affected communities.
- (ii) Observe and verify that training programmes and support programmes, which the contractor committed to, were implemented and executed as intended.

Point 12: Identification of works areas that are deliverable by local service providers, and areas where capabilities are not available locally. All works areas where capabilities are not available locally shall be imported and locals will be given an opportunity to learn.

Point 13: Formal contracting arrangements to be ensured for all projects.

- (i) Verify that the conditions of employment and the conditions of sub-contracting, in the employment of Targeted Labour and sub-contracting of Targeted Enterprises were applied in a fair and transparent manner and according to the Employer's employment and sub-contracting requirements.

Point 14: Communication to be streamlined through the PLC and used to manage expectations of local business and communities.

Additional Duties:

- (i) Inform the entities whom they represent of any project matters which the PMT wishes to communicate with project Stakeholders and the affected communities.
- (ii) Inform the entities whom they represent of any project matters that are impacting or may impact, either positively or negatively, on project Stakeholders and the affected communities.
- (iii) Inform the PMT of Stakeholder and/or community requests and/or needs which could possibly be addressed within the project's Scope of Work.
- (iv) Inform the PMT of any road safety concerns within the project's Targeted Area(s) and advise the PMT of possible mitigating measures and/or road safety programs that will be most feasible for acceptance by the affected communities to promote road safety.
- (v) Inform the PMT of any project matters that are impacting, or anticipated to impact, negatively on project Stakeholders and the affected communities.
- (vi) Meet prior to the monthly site meeting, or as may be required, to discuss and resolve project matters, which are of interest or concern to project Stakeholders and the affected communities, the Employer, the Engineer and/or the contractor.
- (vii) Inform the Employer of any training that members of the PLC require to execute its duties.
- (viii) The PLC shall have full powers to decide on any matter which they are empowered to decide on falling within the Project Area and outlined duties.
- (ix) The PLC may assign members to report back to specific sectors and/or constituencies within the PLC.
- (x) The PLC may establish working groups and/or ad-hoc committees to fulfill its work subject to fulfill tasks as per contract. This must be recommended by the PLO and authorized by the Employer.

h) Duties of the PMT

The PMT, which consists of the Employer, Service Provider and the Contractor, or their representatives, is a party to the PLC and hence, is co-responsible for successful project Stakeholder and community liaison. The PMT is also responsible for the successful implementation of the Employer's Targeted Labour and Targeted Enterprise utilisation and development goals.

In terms of implementing the Employer's Targeted Labour and Targeted Enterprise utilisation and development goals, the PMT shall, where required, execute the following duties:

- (i) Make recommendations to the Contractor in the identification and structuring of the work packages to be sub-contracted (if any) to Targeted Enterprises and agree to the scope and extent of the work packages;
- (ii) Verify that the Project Database(s) compiled by the PMT from which Targeted Enterprises will be sub-contracted, has been updated prior to the letting of every new set of sub-contracts;
- (iii) Approve all Databases, tender procedures, tender documents, tender submission requirements and adjudication processes for the sub-contracting of Targeted Enterprises;
- (iv) Review all tender adjudication reports and monitor that the criteria and procedures applied by the Contractor to sub-contract Targeted Enterprises are executed in a fair and transparent manner and are within the Employer's and Government's Supply Chain Management Policies;
- (v) Approve sub-contract agreements and ensure that the conditions of sub-contracting with Targeted Enterprises are fair and transparent and within the prescripts of the contract requirements;
- (vi) Monitor the management of Targeted Enterprise sub-contracts and ensure that conditions such as the application of penalties, the termination of contracts, etc. are applied in a fair and transparent manner and within the prescripts of the agreement;
- (vii) Verify that the Project Database(s) compiled by the PMT from which Targeted Labour will be employed is updated prior to every new labour intake;

- (viii) Monitor that the criteria and procedures applied by the Contractor to employ Targeted Labour are executed in a fair and transparent manner and is within the contract requirements;
- (ix) Monitor that the conditions of employment of Targeted Labour are applied in a fair and transparent manner and within the prescripts of the current and relevant Labour Legislation;
- (x) Make recommendations to the Contractor in the identification of the training requirements of Targeted Labour and Targeted Enterprises and approve the proposed training programmes; and
- (xi) Monitor that training programmes and support programmes, which the Contractor committed to, are implemented and executed as intended.

i) Targeted Labour Database

A Project Database of Targeted Labour will be compiled by the PLO, with input from the PLC and the Department of Labour, for the Target Area(s). Once endorsed by the PLC the PLO shall utilise this Database to source Targeted Labour as required by the Contractor.

The Project Database shall be updated as and when required to reflect new employment seekers in the labour market. Only labour recruited from the Project Database will be measured for Contract Participation Performance (CPP).

j) Targeted Enterprises Database

A Project Database of Targeted Enterprises from the Target Area(s) will be developed by the Service Provider during the Design Phase, from the National Treasury Central Supplied Database and from the CIDB contractor database, for each Target Area.

The Service Provider shall also assist Targeted Enterprises from the Target Area with registration on the National Treasury Central Supplier Database.

C3.1.6 Permits and authorisations

Procurement of sub-service providers shall be in accordance with the requirements of clause C3.1.15. As approvals are essential prior to the commencement of the Works, the Service Provider shall be responsible to ensure that all submissions to the relevant approving authorities is completed by the milestone date tabled in clause C3.1.7.

C3.1.7 Project Programme

The Service Provider shall programme its duties in such a manner so as to complete the various phases of the total project within the milestone dates specified below.

The Employer's programme for this project is as follows:

	Project Phase	Phase Completion Date
A	Submission of Tenders / Proposals	Jul-24
B	Appointment of Service Provider	Jan-25
C	Submission of Road Markings Condition Report	N/A
D	Submission of Draft Tender Documents for the Works	N/A
E	Submission of Final Tender Documents for the Works	N/A
F	Tender Advertisement	N/A
G	Site Inspection	N/A
H	Tender Closure	N/A
I	Submission of Tender Evaluation Report	N/A
J	Works Contract Handover	Feb-25
M	Submission of draft Contract Report and as-built data	Within 3 months of issue of Taking-over Certificate for the Works

N	Submission of final Contract Reports and as-built data	Within 1 month of issue of Performance Certificate for the Works
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The Service Provider shall submit a programme indicating these milestones to the Employer within 14 days of the date of the letter of acceptance of tender.

C3.1.8 Penalties and delays

Penalties shall be applied for each calendar day by which the Service Provider fails to meet the prescribed dates for submission of the required Road Condition Report, Tender Documentation for the Works or Tender Evaluation Report. The quantum of the penalty shall be as listed in the Contract Data. Draft reports and documents shall be submitted to the Employer at least seven working days prior to any meetings scheduled for the discussion and finalisation thereof. The Service Provider shall thus take this period into account in compiling their programme.

Any delays to the above programme that are attributable to the Employer, or to other approved mitigating circumstances, will not be subject to penalties. In the event of such instances arising, any extensions of time granted shall be limited to the equivalent number of calendar days attributable to each instance.

C3.1.9 Personnel Requirements

a. Key Persons

The Key Person required for this project is listed in Form C1.2.2 Contract Data: Information provided by the Employer. The tenderer must list proposed candidates for the prescribed position in the core team in Form C1.2.3 Contract Data: Information provided by the Tenderer. Each candidate must submit a CV of appropriate experience signed by the proposed candidate and the authorised person of the Service Provider and complete the relevant B1 and B2 forms included in the Returnable Schedules. The Key Person and the assistant Contract Engineer for this project will be limited to participate in a maximum number of 6 (six) concurrent contracts with the Employer. When a proposed candidate for any position is not in permanent employ of the tenderer, but a contracted person, this must be indicated on Form B2 and a signed letter of consent from the candidate must be scanned in and submitted with the relevant B-forms. The threshold of the Technical Proposal indicates the importance of the quality and standard of engineering and administration expected of the Service Provider. Any changes to the Key Person, as proposed in this tender, after award will thus only be permitted in exceptional circumstances. In such circumstances the competence and experience of any replacement personnel shall also meet the threshold of the Technical Proposal. Re-evaluation by the Employer of any replacement personnel shall be paid for by the Service Provider as specified in Clause C3.6.3.

b. Minimum Requirements

The minimum qualifications and requirements for the Service Provider's personnel shall be as indicated in the table below.

Position	Contracts up to 6SK or less than 7500 average daily traffic		Contracts 7SK or higher or more than 7500 average daily traffic	
	Minimum Technical Qualification or Registration	Minimum Relevant Experience (years) ¹	Minimum Technical Qualification or Registration	Minimum Relevant Experience (years) ¹
Contract Engineer	Pr Eng or Pr Tech Eng ²	10	Pr Eng or Pr Tech Eng ²	10
Assistant Contract Engineer	Pr Eng or Pr Tech Eng or Pr Techni Eng ²	Not applicable	Pr Eng or Pr Tech Eng or Pr Techni Eng ²	Not applicable

Engineer's Representative (RE)	Pr Eng or Pr Tech Eng or Pr Techni Eng ²	5	Pr Eng or Pr Tech Eng or Pr Techni Eng ²	10
Assistant Engineer's Representative ⁴	Candidate Engineering Technician ²	Not Applicable	Candidate Engineering Technician ²	1
OHS Specialist	Design Phase: SACPCMP ³ registration as a Professional Construction HSE Agent Construction Phase: SACPCMP ³ registration as a Construction HSE Agent or Manager	As required by SACPCMP ³	Design Phase: SACPCMP ³ registration as a Professional Construction HSE Agent Construction Phase: SACPCMP ³ registration as a Construction HSE Agent or Manager	As required by SACPCMP ³

¹ Relevant experience is the actual number of years, measured from the date of acquiring the **base** NQF qualification (either B.Eng / BSc.Eng / B.EngSci or BSc / B.Eng Tech (Hon) PGDip (Engineering) / M.Eng for Pr.Eng or National Higher Diploma / Masters Diploma / BTech / B.Eng Tech / Dip Eng / Adv Dip Eng / AdvCert (Engineering Practice) plus Adv Dip Eng for Pr.Tech Eng and National Diploma / Dip Eng / Dip Eng Tech / AdvCert (Engineering Practice) / Higher Certificate (Eng) / Adv Cert (Engineering) / Adv Cert (Engineering Practice) for Pr.Techni Eng), worked in the field of the specified position.

² Registered with the Engineering Council of South Africa (ECSA) or any other international body recognised by the Employer, i.e. Washington Accord, Dublin Accord and Sydney Accord.

³ South African Council for Project and Construction Management Professions (SACPCMP).

⁴ A minimum of 1(one) Assistant Engineer's Representative shall be required of which must be a black person and preferably be female.

C3.1.10 Meetings and Liaisons

a) Meetings and liaisons between the Employer and the Service Provider

Meetings between the Employer and the Service Provider are formal occasions. The Employer shall perform the duties of chairperson and the Service Provider the secretarial services. The Service provider shall submit draft minutes to the Employer for review before distribution which shall not be later than 14 (fourteen) calendar days after the meeting. Meetings and liaisons shall be scheduled according to the Service Provider's approved programme to discuss and record the progress of the Services.

Draft copies of all reports, design and tender documents submitted for review shall be discussed at specially convened meetings prior to their finalisation.

Attendance at the meetings and liaisons shall include joint venture members and/or Targeted Enterprise(s) (if any), sub-service providers and the designated key persons. A key person shall not be substituted by another Service Provider employee unless express permission for this has been sought from and approved by the Employer in writing. The Employer shall have the right to delay a meeting because of the non-availability of a key person and any delay costs so incurred shall be for the account of the Service Provider.

i) Project hand-over meeting

The date of the meeting will have been fixed and notice for it and an agenda included with the letter of acceptance of the Service Provider's offer.

This meeting provides the opportunity for administration details to be finalised. Included among these, but without providing limits to what may be required shall be:

- Signing and initialling of the contract document;
- Confirmation of prescribed insurance cover, including that of joint venture members (if any);
- Confirmation of vendor registration;
- Delivery of a compact disc (CD) containing all relevant forms and procedures needed for effective project administration.

ii) Progress meetings

The date for the first progress meeting shall be fixed at the hand-over meeting mindful that it cannot take place until the Service Provider has conducted his *in loco* inspection of the project site. The first progress meeting shall not be scheduled longer than six calendar weeks after the hand-over meeting. Proposals for investigation and intrusive testing will be discussed at this first meeting.

The Service Provider's programme, as envisaged at the hand-over meeting shall be fine-tuned and approved at the first progress meeting. The approved programme shall identify the number and frequency of progress meetings. They may be reduced or increased as necessary to achieve the milestone date of delivery of the approved detailed design.

The purpose of progress meetings is to discuss the development of the project design and the minutes produced shall form the record of progress against programme. The minutes shall record the discussions held and the decisions made.

Duties of some sub-service providers are not directly related to the development and production of the project design; nevertheless, because of the severe impact their progress can place on the programme, their presence at, and participation in, design progress discussions is not negotiable. They shall attend progress meetings and any delays caused by postponements due to their non-availability shall be to the account of the Service Provider.

b) Other project related meetings

The Service Provider must ensure that proceedings of meetings (whether formal or informal) are formally documented. These meetings may be between the Service Provider, sub-service providers, the PSP and/or other Stakeholders. The Employer may attend these meetings.

i) Project Liaison Committee (PLC) meeting(s)

The PLC will meet on an ad-hoc basis during the Design Stage of the project to discuss and resolve project related issues and matters of interest or concern to the project Stakeholders and communities, the Employer and the Service Provider.

The PLC will meet prior to the monthly site meetings or as may be required from time to time during the Construction Phase to discuss and resolve project related issues and matters of interest or concern to the project Stakeholders and communities, the Employer and the Service Provider.

ii) Works Contract Hand-over meeting(s)

It is required that the Contract Engineer and the Engineer's Representative attend the works contract hand-over meeting.

C3.1.11 Risk Management

The concept of risk shall be discussed at all meetings, starting with the hand-over meeting. The Service Provider shall identify restrictions and limitations on the design development that the various processes may impose, estimate the probability that they will impact on performance, advise what measures are proposed to avoid them and what mitigating measures could be taken to mitigate in the event they do occur. This creates a risk register that must be raised and discussed at each successive progress meeting.

Used properly, the risk register will predict or pre-warn of change; as the probability of an event increases so will the need for a Works Authorisation to approve extensions of time or allocation of more funds become more certain.

A base risk register shall be discussed and recorded at the hand-over meeting. It shall be revisited at each successive progress meeting to confirm the status of each and record any changes. The opportunity to add more or remove others will also be discussed at the progress meetings.

A fundamental element of risk assessment, but by no means the only one, will be economic affordability meaning that each design strategy must be separately and broadly estimated for comparison against the basis of the Employer's budget for the project. In essence, this analysis relates to testing the economic and technical feasibility of the Employer's envisaged design strategy. Similarly, other identified risks will have a cost element to them and these must also be brought to the Employer's attention for discussion and decision. The Employer may require the Service Provider to make use of its standard risk reporting format.

C3.1.12 Document Management

Three (3) hard copies (or otherwise agreed with the Employer) of draft reports and/or documents shall be submitted 10 (ten) calendar days prior to the meeting dates for discussion purposes. All changes emanating from these meetings shall be incorporated into a final version. The record of the changes shall be by means of track changes to the draft version and submitted in CD format.

When a volume consists of more than 1 book, the number of the volume appears on the cover and on the title page, together with the number of the book, e.g. Volume 3: Book 1 of, or Volume 3: Book 2 of

All reports and/or documents shall utilise the Employer's pro-forma formatting without alteration unless specific request for a change has been submitted to and approved by the Employer. Pro-forma report formats are contained in Part C4: Site Information.

The table below lists the requirements of documentation that the Service Providers shall apply, unless otherwise agreed with the Employer.

Table 3.1.12: Documentation Requirements

Table 6.12-12: Documentation Requirements			Final	Reports/Documents
Document Characteristics		Draft Reports/Documents		
Books of Drawings				
Page	A4 80g/m ²	A4 80g/m ²	A2 80g/m ²	
Cover page layout	Employer's pro-forma works document cover page with appropriate wording for the specific report/document compiled			
Cover	White 80g/m ²	Reports: Tokai Blue 160g/m ²		
Documents:	Red 160g/m ²	Draft: White 80g/m ²		
Final:	Red 160g/m ²			
Printing				
All left hand margins to be 2.5cm				
Printing to be left justified	Back to back pages		Reports: back to back	
Contract document: back to back except:				
- New sections				
- All returnable schedules				
- Pricing schedule All on separate pages				
Binding				
Maximum thickness to be 3cm	Plastic ring binders		Reports: plastic ring binders	
Contract documents: stapled, glued and bound	Draft: Stapled and bound			
Final: stapled, glued and bound				

Number of paper copies 3 (three) Reports: 1 (one)
 Tender documents: 1 (one)
 Tender evaluation: 2 (two)
 Contract documents: 2 (two) original for signature and 1 (one) copy Draft: 3 (three)
 Final: 2 (two) original for signature and 1 (one) copy
 Number of electronic copies 1 (one) CD/DVD 1 (one) CD/DVD
 1 (one) CD/DVD of signed contract 1 (one) CD/DVD
 Electronic format MS Office 2013
 and PDF MS Office 2013 and PDF PDF

C3.1.13 Management of Drawings

When the Service Provider produces drawings he shall, where applicable, use the Employer's typical details and when doing so they shall become integrated into the Service Provider's detail design for which he will assume full professional responsibility.

The requirements shown on the Employer's pro-forma drawing, available on the Employer's web site, shall be used. Drawings shall incorporate what has been discussed and agreed at the various progress meetings. All drawings issued to the contractor shall be fully signed and any amendments thereof shall also carry full original signatures.

C3.1.14 Safety

This part of the specification has the objective to assist the Service Provider entering into contracts with the Employer that they comply with the Occupational Health and Safety (OH&S) Act, No 85 of 1993, as well as all applicable Regulations. Compliance with this document does not absolve the Service Provider from complying with minimum legal requirements and the Service Provider remains responsible for the health and safety of his employees and those of his Mandataries. The Service Provider shall therefore include this part of the specification to any contract that he may have with sub-service providers and/or suppliers.

This part also covers the development of a health and safety specification that addresses all aspects of occupational health and safety as affected by this contract. It provides the requirements that the Service Provider shall comply with in order to reduce the risks associated with this contract, which may lead to incidents causing injury and/or ill health. In this matter the spirit and intention of Regulation 5(1)(l) of the Construction Regulations, 2014, regarding negotiations between the parties, related to the contents and approval of the Health and Safety Plan, must be complied with.

The Service Provider shall on award or the contract become the Client's Agent in terms of Construction Regulation 5(5); (6) and (7) of the Occupational Health and Safety Act (Act 85 of 1993). The duties and responsibilities as the Client's Agent are as prescribed in Construction Regulation 5(7).

For purposes of clarity typical duties required of the service provider are given below, but they shall not be interpreted as being exhaustive and if any conflict between them and the legislated Construction Regulations occurs the latter shall rule.

a) Project Specific Requirements

The following is a list of Baseline Risk Assessment and project specific health and safety specifications prepared by the Client in terms of Construction Regulation 5(1)(a) and 5(1)(f).

i) Baseline Risk Assessment for Design Phase

- Working in elevated positions (e.g. Bridge Inspections)
- Working over water environments (e.g. Bridge Inspections)
- Excavation – locating existing underground services, digging test pits
- Manual handling – setting up surveying equipment
- Ergonomic risks
- High & Low voltage power lines – overhead & underground
- Work in close proximity to railway lines

- Uneven ground surfaces
- Personal safety & security risks
- Traffic Control (Ensure Correct Signage at Correct Distances)
- Working from ladders
- Exposure to noise
- Working in close proximity to traffic
- Working with hot materials
- Radio Active equipment
- Hazardous Chemical Substances
- Flammable Materials
- Driving to and from site
- Biological risks e.g. bees, snakes, spiders, etc.
- Environmental risks
 - Bad weather conditions,
 - rain,
 - lightning,
 - wind,
 - poor visibility
 - heat exposure – dehydration
 - cold environment

ii) Baseline Risk Assessment for Supervision Phase

- Clearing and grubbing of the area/site
- Site establishment including:
 - Office(s)
 - Secure/safe storage for materials, plant and equipment
 - Ablutions
 - Sheltered eating area
 - Maintenance workshop
 - Vehicle access to the site
 - Temporary fuel storage, where applicable
 - Laboratory establishment, where applicable (Client responsibility)
- Dealing with existing structures – possibility of asbestos
- Location of existing services, e.g. gas, telecommunications, electrical supply and similar
- Installation and maintenance of temporary construction electrical supply, lighting and equipment
- Adjacent land uses/surrounding property exposures
- Boundary and access control/public liability exposures (NB: The Employer is also responsible for the OH&S of non-employees affected by his/her work activities)
- Health risks arising from neighbouring as well as own activities and from the environment, e.g. threats by dogs, bees, snakes, lightning, etc.
- Exposure to a water environment
- Exposure to noise
- Exposure to vibration
- Protection against dehydration and heat exhaustion
- Protection from wet and cold conditions
- Hazardous Biological Agents that could lead to epidemics and pandemics
- Dealing with HIV/Aids and other diseases such as silicosis or asbestosis, where applicable
- Use of portable electrical equipment including:
 - Angle grinder
 - Electrical drilling machine
 - Circular saw
 - Generator
- Excavations including:
 - Ground/soil conditions
 - Trenching
 - Shoring
 - Drainage of trenches
- Welding including:
 - Arc welding

- Gas welding
- Flame cutting
- Use of LP gas torches and appliances
- Loading and off-loading of trucks
- Aggregate/sand and other materials delivery
- Manual and mechanical handling
- Lifting and lowering operations
- Driving and operation of construction vehicles and mobile plant including:
 - Trenching machine
 - Excavator
 - Bomag roller
 - Plate compactor
 - Front end loader
 - Mobile cranes and the ancillary lifting tackle
 - Grader
 - Parking of vehicles and mobile plant
 - Towing of vehicles and mobile plant
- Use and storage of flammable liquids and other hazardous substances, e.g. petrol, diesel, cement, asphalt, bituminous materials and similar
- Layering and bedding
- Installation of pipes in trenches
- Pressure testing of pipelines
- Backfilling of trenches
- Protection against flooding
- Gabion work
- Use of explosives
- Protection from overhead power lines (High and low)
- Work adjacent or in proximity of railway lines
- Work adjacent or in proximity of traffic
- Working at heights
- Working in confined spaces – tunnelling
- Formwork and support work (temporary works) including scaffolding
- Demolition work, where applicable
- Bulk mixing plant, where applicable
- Environmental impacts such as pollution of water, air or soil

b) Design Phase

The Service Provider or his registered Professional Construction Health & Safety Agent must identify elements of the design that are inherently dangerous or to the health and safety of Contractor employees during the construction phase and design in such a manner as to mitigate or eliminate the risk where possible. To this avail the Service Provider (or his Agent as outlined above) must prepare a baseline risk assessment for the intended construction work project, and make the same available to the Employer. This duty of identification continues into the construction phase of the project regardless that the designer may not be monitoring the construction phase. All identified dangers/hazards are to be listed and brought to the attention of potential contractors by means of the baseline risk assessment as outlined above and envisaged in Construction Regulations 5 (1) (a); (b) and (c).

For example, staging for bridge decks or shoring of unstable excavations is the designer's responsibility to identify and notify of the health and safety risk. It is also the designer's responsibility to undertake inspections at critical phases of construction to ensure that the identified risks are continuously and appropriately mitigated.

c) Construction Phase

During the construction phase the supervising Service Provider must ensure that the Employer's duties are continuously fulfilled, meaning that the Service Provider has to include amongst its permanent monitoring staff at least one appropriately trained member. In addition the Service Provider must conduct monthly internal audits to ensure the site personnel are adhering to the statutory requirements. Costs for performing this duty are recoverable via the rate offered for this scheduled item of work. An Occupational Health and Safety Audit Questionnaire is included in Appendix E in Part C4 for this purpose. This audit may be

conducted by either the appointed registered Professional Construction Health and Safety Agent (Pr. CHSA) or a registered Construction Health and Safety Manager that is contracting-in or employing a Pr. CHSA or who is contracted-in or employed by a Pr. CHSA..

The Employer may order external audits the costs of which are separately recoverable as a disbursement to the specialist sub-service provider selected to conduct the audits.

Furthermore, the Service Provider must, in compliance with Section 24 of the Occupational Health and Safety Act (Act 85 of 1993) report immediately to the Employer's Health and Safety Officer and the relevant Project Manager the details of a Section 24 incident, including confirmation that the Contractor has similarly reported the same incident directly to the Department of Labour.

d) Health related Epidemics and Pandemics

The Service Provider shall, as far as reasonably practicable make provision for health-related epidemics and pandemics that is declared by authorities. The employer is aware that this provision will not speak to specific cases. Once the nature and scale of the epidemic or pandemic is known, the Service Provider must ensure that the requirements stipulated in the Hazardous Biological Agents (HBA) Regulation are adhered to and in particular the following as described in the mentioned Regulation:

- Information and training of employees
- Duties of person that may be exposed to HBA's
- Risk Assessments by the employer (Service Provider)
- Monitoring exposure at the workplace
- Medical surveillance of employees
- Keeping of records
- Control of Exposure to HBA's
- Personal Protective Equipment and facilities
- Maintenance of control measures and facilities
- Prohibitions

e) General Occupational Health and Safety Provisions

Site specific health and safety specifications for the intended construction work based on the Baseline Risk Assessment is included in Appendix E in Part C4.

NOTE: The above duties shall not be interpreted as being exhaustive and if any conflict between them and the legislated Construction Regulation arises, the latter shall rule.

C3.1.15 Procedure for procurement of sub-service providers

A sub-service is taken to mean any service necessary for the production of the project design and later construction, which is performed by someone other than the Service Provider. A sub-service procured directly by the Service Provider requires the Service Provider to enter into a sub-service agreement with that sub-service provider. The relationship between the Service Provider and sub-service provider is that of contractor/sub-contractor.

Another type of sub-service is less direct because the service required has already been procured by the Employer under a separate agreement. The role of the Service Provider in the management of this sub-service is that of the Employer's agent.

In both cases the Service Provider is responsible for the performance of the sub-service.

Procurement of a sub-service shall be undertaken by means of a quotation/tender process. The Service Provider shall compile and issue relevant and approved terms of reference, together with the relevant work/pricing schedules, in accordance with the Employer's standard pro-formas and Supply Chain Management and procurement policies. This will require the Service Provider to advertise for an open tender process or invite quotations from identified potential sub-service providers and submit tender documents to the relevant regional office for collection and receipt of the tenders by that office. Submitted quotations/tenders, in a sealed envelope, directly to the Employer's regional office by the date and time agreed, will be

opened in public by the Employer's delegated staff. The Service Provider shall remove under signature all submitted offers for analysis and submit and report with recommendations to the Employer for approval prior to the appointment of any sub-service provider. Once approved, the Service Provider shall enter into an agreement with the sub-service provider with a copy of same submitted to the Employer.

C3.1.16 Payment and Monthly Reporting using the Employer's Integrated Transportation Information System

When submitting interim certificates for payment the Service Provider shall use the Employer's standard forms and formats. No payment can be made before the Service Provider is registered as a vendor on the Employer's system.

The Service Provider shall submit payment certificates for all work rendered in the Employer's financial year within that specific year.

The Service Provider shall submit and update on a monthly basis a cash flow forecast for the remuneration of the full service to be rendered.

The Service Provider shall complete monthly reports regarding training, empowerment, capacity building, small contractor development, labour and staff returns and any such aspects on the Employer's Integrated Transportation Information System (ITIS).

The Employer has developed a comprehensive information management tool called ITIS (Integrated Transportation Information System) to address all facets of its strategic and tactical planning, design, construction and maintenance of the entire road network. This provides support for the management tasks of the Employer and to allow the personnel to make technical decisions more quickly and efficiently.

ITIS is an integrated approach to the sharing and inter-relating of technical performance information for the Employer and relies on people following procedures to populate system with data. ITIS currently consist of the following platforms:

- ITIS Web – Web enabled portal providing online access to various functions, workflows and reports.
- ITIS Desktop – Offline data capture tool enabling the capture of information offline, validation and then synchronisation of data with the ITIS database.
- ITIS Mobile – Application (Android 6 or later) that allows the in-field capture of information using a smart phone or tablet (must have camera and GPS), validation and then synchronisation of data with the ITIS database.

The Employer then has several ITIS modules running on any of the above ITIS platforms which affect the Consultant and Contractor, who will need to use these modules to perform certain procedures and to provide required information. The current modules applicable to this contract and their description are as follows:

- (i) Contract Module – management of contracts;
- (ii) Project Information Module – uploading of employment and training data.

User manuals for the various functions can be downloaded from <https://itis.nra.co.za/Portal/MyAccount/UserManuals> after the successful registration as a public user. The ITIS public user registration procedure is explained in the document as attached in Part C4: Appendix G.

C3.1.18 Training

a) Service Provider's staff

The Employer encourages training of candidate engineers or undergraduates requiring experiential training on this project. Training of the Service Provider's own permanent staff, temporary staff involved in this project becomes a reportable monthly event in terms of time

and cost attributable to the Employer's spend from its allocated budget. Separate allowance has been made to train the Service Provider's staff as assistants to certain required positions.

b) Employer's trainees

The Employer may enter into a separate arrangement with the Service Provider for training of its own permanent employees as a secondment for the express purpose of providing its candidate engineers with design and/or site supervision experience. The Employer may also enter into an arrangement with the Service Provider to provide experiential training to students.

The design phase provides the opportunity for students and candidate engineers to receive training. Three distinct categories of training are recognised. The first, and most formal, is the placement of the Employer's candidate engineers with the Service Provider for training distinctly geared to professional registration with the Engineering Council of South Africa (ECSA). The training provided shall be predominantly, but not exclusively, related to this project and may be subject to scrutiny and inspection in loco by the Employer who is responsible for candidates' remunerations. The trainees are expected to work according to the Service Provider's terms and conditions of employment, especially those related to confidentiality. They are to be treated as if they were the Service Provider's own full-time personnel. No allowances shall be made for working overtime.

Less formal will be experiential training the Service Provider is requested to provide to university or university of technology undergraduate students. The training provided must be in accordance with the academic institution requirements.

The Service Provider, apart from providing the technical training, shall also provide trainees with all the tools (including appropriate information technology hardware and software) and space necessary to carry out engineering or survey work as if they were the Service Provider's own permanent staff.

Reporting on training progress of each candidate engineer and student shall be compiled according to the formats and intervals set by ECSA (for engineering students).

C3.2 DETAILED ASSESSMENT PHASE: ROAD MARKINGS CONDITION REPORT

C3.2.1 Scope

This section covers the part of the design process which requires detailed visual assessment surveys for the compilation of a Road Markings Condition Report.

C3.2.2 Standards

Detailed visual assessments shall be carried out. A Road Markings Condition Report shall be submitted to the Employer prior to the preparation of tender documents.

The standards to be used in the project shall be carried out in accordance with the following (as applicable):

- SADC Road Traffic Signs Manual (RTSM);
- The South African Road Traffic Signs Manual (SARTSM)
- Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO)
- Draft TMH 11: Standard Survey Methods
- SANRAL's Geometric Design Manual
- Conditions of Contract for Construction: FIDIC; 1999
- The Employer's relevant proforma documentation for services, sub-services, evaluations, etc.

The style, format and presentation of the documents prepared by the Service Provider shall be in accordance with the requirements of the Employer.

The latest versions and editions of these standards shall always be used. These standards are generally available on the Employer's website (www.sanral.co.za) or other industry role players' websites, e.g. CSIR website (www.csir.org.za). Others can be purchased from SANRAL and organisations such as CESA, SAICE, etc.

The above is not an exhaustive list but shall be viewed as being the minimum standards applicable to the project. The Service Provider must apply his own knowledge and experience and recommend to the Employer other appropriate standards for his consideration

C3.2.3 Existing data

Existing information with respect to the relevant project is given in Part C4: Site Information.

C3.2.4 Visual condition survey

The Service Provider shall carry out a detailed assessment survey of the condition and correctness of the existing road markings and road studs utilising experienced personnel. The assessment shall be done as follows:

1. Sample testing of the retroreflectivity of the existing markings against the minimum values in Table 7.2 of the SADC RTSM by means of a calibrated portable reflectometer.
2. Visual assessment of the existing markings during daytime and night time conditions.
3. Checking the correctness of the existing markings against the SADC RTSM and SARTSM manuals.
4. Visual checking of the start and end positions of the no-overtaking lines at curves and intersections. Any no-overtaking lines found to be questionable from the visual assessment, must be checked against design standards such as overtaking- and stopping sight distance wrt the posted speed on that section of road, and corrected if required.
5. Visual assessment of the visibility and correctness of existing road studs. Sections where major stud loss are visible, must also be reported.

The Service Provider will then compile and submit to the Employer a Detailed Road Markings Condition Report.

The content and format of the Road Markings Condition Report shall include, but not necessarily be limited to, the following, as may be relevant:

- a) Locality Plan
- b) Executive Summary
- c) Introduction
 - Terms of reference
 - General description of the Project
 - Objectives and strategies
 - Scope of the investigations
- d) Existing road markings
 - Random retro-reflective testing of the markings using a retro reflectometer
 - Visual condition survey
 - Traffic information shall be obtained and used as a basis for evaluation
 - Findings on the existing no-overtaking line survey shall be clearly referenced per road and kilometer referenced, tabled and remedial measures proposed.
 - Maintenance history of each road as well as historic road marking maintenance information
 - Future maintenance, rehabilitation and upgrade projects
 - Sub-contractor's information
- e) Summary of recommendations
 - Any other alternatives
 - Cost benefit analysis
 - Climatic influences
 - Estimated costs of alternative strategies and Construction programme
- f) Draft pricing schedules and cost estimates.
- g) Draft specifications differing from the COTO Standard and/or Employer's pro-forma document.

C3.2.6 Submission Process:

The Service Provider shall liaise and hold regular progress meetings with the Employer as appropriate.

The process of submission of the final Road Markings Condition Report shall be as follows:

- Compilation and submission of two copies of a draft report
- Discussion of draft report with Employer
- Amendment and submission of one hard copy and one electronic copy of the Road Markings Condition Report

The Service Provider shall submit the draft reports to the Employer a minimum of seven working days prior to the agreed date for the discussion thereof.

C3.2.6 Occupational Health and Safety obligations

Notwithstanding that this scope of works prescribes various procedures in terms of health and safety requirements the Service Provider cannot rely on these as the sole source of his obligations in terms of the Occupational Health and Safety Act (Act 85 of 1993) and accompanying Construction Regulations. Nothing herein shall absolve the Service Provider from conforming to all the requirements of the said Act and Regulations and in the event of conflict between the provisions of this scope of works and the statutory provisions, the latter shall prevail.

C3.2.7 Market Analysis and Databases

The Service Provider shall undertake a market analysis in terms of the CIDB guidelines for undertaking a feasibility study (CIDB grading, Central Supplier Database (CSD), etc.) of availability and type of Targeted Enterprises for the Works Contract. The Service Provider shall further set up databases for Targeted Enterprises and Targeted Labour, assist local Targeted Enterprises to register on the CSD and maintain and update these databases on a monthly basis. Provision for this service has been made under C3.6: Additional Duties.

C3.2.8 Measurement and payment

Item	Unit
32.01 Detailed assessment phase	
(a) Road Markings Condition Report	lump sum (LS)
(b) Travel and subsistence costs	lump sum (LS)
(c) Toll fees	prime cost sum (PC)

The unit of measurement for pay item 32.01(a) shall be the lump sum. The sum tendered shall include full compensation for personnel, materials, printing and all other costs for the following:

- i) Analysis of available information pertaining to the project.
- ii) Detailed condition survey, including assessing the existing marking for correctness as specified.
- iii) Compilation and submission of the Road Markings Condition Report as specified.

The unit of measurement for pay item 32.01(b) shall be the lump sum. The sum tendered shall include full compensation for all travel and subsistence associated with the detailed assessment phase.

The prime cost sum is to cover the cost of toll fees for staff performing their duties. Payment will only be made for E-tag transactions upon proof of an official statement via the Employer's Transaction Clearing House (TCH), which is the integrated fee collection and information management process for Electronic Toll Collection (ETC) accounts.

Payment for the lump sum tendered will be made on submission of the road condition report.

Item	Unit
32.02 Occupational Health and Safety requirements	lump sum (LS)

The unit of measurement under payment item 32.02 shall be the lump sum. The sum tendered shall include for all costs associated with compliance to the Construction Regulations of the Occupational Health and Safety Act (No 85 of 1993) as relevant for the design and documentation of the Works Contract.

C3.3 TENDER DOCUMENTATION

C3.3.1 Scope

This section covers the requirements and process for the compilation of tender documentation and invitation to tender for the Works Contract.

C3.3.2 Standards

The tender documentation for the Works Contract shall be compiled in accordance with the following:

- Conditions of Contract for Construction: FIDIC; 1999. The Standard Specifications for Road and Bridge Works for South African Road Authorities (Draft Standard October 2020 edition) prepared by the Committee of Transport Officials, (COTO), as amended.
- The Employer's pro-forma tender document.

The style, format and presentation of the tender documents shall be in accordance with the requirements listed in the Employer's pro-forma document.

C3.3.3 Tender Documentation

The following documents shall form the Tender Documents for the Works Contract:

- i) **VOLUME 1:** The FIDIC Conditions of Contract for Construction, 1999 issued by the International Federation of Consulting Engineers (to be purchased separately by tenderers).
- ii) **VOLUME 2:** The Standard Specifications for Road and Bridge Works for South African Road Authorities (Draft Standard October 2020 edition) prepared by the Committee of Transport Officials, (COTO), as amended.
- iii) **VOLUME 3:** The Project Document, which includes Conditions of Tender, Particular Conditions of Contract, Scope of Works and Forms, all in accordance with the Employer's standard pro-forma document.
- iv) **VOLUMES 4:** Books of Construction Drawings for tender purposes (if required).

C3.3.4 Submission procedure

The service provider shall adhere to the following process:

- i) Compile and submit two copies of a draft Volume 3 (Project Document) in accordance with the Employer's standard pro-forma document as well as two draft copies of Volume 4 for the purpose of discussion with and acceptance by the Employer.
- ii) Attendance at meetings with the Employer for the purposes of discussion and finalisation of the tender documentation.
- iii) Subsequent to discussion of the draft documentation, the service provider shall compile the final documents incorporating all the amendments arising there from and deliver the requisite number of complete sets in electronic format on CD's/DVD's to the Employer's regional office on or before the date specified in clause C3.1.7.

In the event where draft documentation is of sub-standard/poor quality, the above-mentioned process will be repeated. In such circumstances the additional time spent by the Employer shall be paid for by the Service Provider as specified in Clause C3.6.3.

C3.3.5 Tender Advertisement

The Employer will prepare and submit the tender advertisement to the relevant organisations.

C3.3.6 Measurement and payment

Item	Unit
33.01 Tender documentation	
(a) Preparation of Tender Documents per contract	number
(b) Burning of Tender Documents on CD	number

The unit of measurement for pay item 33.01(a) shall be per number. The sum tendered shall include for the compilation of two (2) full sets of draft tender documents per contract (comprising Volumes 3 and 4, as relevant) for discussion with the Employer. Payment of the number tendered shall be due on receipt, by the Employer, of the draft tender documents.

The rate tendered under payment item 33.01(b) shall include for all costs associated with the burning of a CD of each full set of final Tender Documents and shall include for all expenditure on labour and materials, communication, postage and packaging incurred by the service provider in the production of the documents (including drawings and plans) in accordance with clause C3.3.3. Delivery of the documents shall be on or before the date specified in clause C3.1.7.

C3.4 CLARIFICATION MEETING(S), TENDER PERIOD AND TENDER EVALUATION(S)

C3.4.1 Scope

This section covers the requirements and process for the Contractors' clarification meeting(s), tender period and evaluation of tenders received for the Works Contract(s).

C3.4.2 Clarification meeting(s) (on-line)

The Service Provider shall prepare a tender presentation or pre-recorded video of the scope of the works for a clarification meeting, and submit to the Employer's Procurement Office for uploading onto the Employer's website, for prospective tenderers for the Works Contract in accordance with the Employer's standard requirements, which shall, inter alia, include the following:

- i) Presenting an agenda for the meeting.
- ii) Introduction of the team, including the Employer's Project Manager and Procurement Officer, the Service Provider's personnel, other Stakeholders, if any (for example, Provisional Government Officials, members of the PLC and the PLO).
- iii) Describing the Conditions of Tender and Tender Data.
- iv) Describing the Conditions of Contract and Contract Data.
- v) Describing the Works with as much detail as is required for specific items or operations.
- vi) Describing by means of a pre-recording video important aspects of the project, e.g. limits of the Contract, etc. to provide a holistic overview.
- vii) Announce any amendments made to the tender documents.
- viii) Providing an Employer's email address for submission of any clarification questions.
- ix) The estimate for the cost of the Works shall not be divulged.

C3.4.3 Tender period

The Service Provider shall communicate with all tenderers during the tender period in accordance with Conditions of Tender for the works contract. The actions below need to be followed per contract:

- Compiling and distributing minutes of the clarification meeting as an addendum at least 5 (five) working days before the date and time of tender closure.
- Attending to any queries or points of clarification requested by tenderers.
- Compilation, distribution and confirmation of receipt by all tenderers of any addenda to the Tender Document.
- Informing and obtaining approval from the Employer of any unresolved enquiries, potential alternative proposals of which notice has been received from tenderers and changes to date for submission of tenders.

C3.4.4 Tender opening and tender evaluation

The Service Provider shall be invited to the opening of tenders for the Works Contract that shall take place via live streaming. The Employer will conduct the compliance of all tender responses and identify all responsive tenders. The Employer will issue copies of the responsive tenders electronically to the Service Provide, including the Compliance evaluation report.

The Service Provider shall evaluate all responsive tenders received from the Employer and compile a consolidated Tender Evaluation Report for submission to the Employer. During tender evaluation, the Service Provider shall:

- Conduct the technical and financial analysis and risk assessment.
- Advise tenderers in terms of Conditions of Tender through the Employer of any arithmetical, or other corrections made to errors in the extension of rates and/or totals in their tenders and the effect of such corrections, and receive written acceptance of such corrections.
- Identify imbalanced rates and request acceptable explanations and/or adjustments thereof in terms of Conditions of Tender through the Employer, which shall be taken into account in the tender evaluation process.

- Making available to the Employer (SANRAL Head Office) 1 (one) electronic copy of the Pricing Schedule of the lowest 2 (two) responsive tenders.

The Service Provider shall, during the tender evaluation, liaise closely with the Employer with respect to any possible disqualification of tenders or issues of a substantive nature identified prior to submission of the Tender Evaluation Report.

The Tender Evaluation Report shall conform to the requirements of the Employer's pro forma document with respect to content and format. One (1) electronic copy of the tender Evaluation Report shall be submitted to the Employer on or before the date specified in clause C3.1.7. **It is important to note that the evaluation of tenders and the compilation of a tender Evaluation Report will be on a similar SANRAL project from another Service Provider, in the case where the Service Provider compiled the tender documents for the Works Contract.**

C3.4.5 Alternative Tenders

The tenderers for the Works Contract are discouraged to submit alternative tenders.

C3.4.6 Contract Documents for the Works

The Service Provider shall, within 14 (fourteen) days of the award of the letter of acceptance, prepare and courier two (2) sets of contract documents for signature per contract. These documents shall be prepared in accordance with the requirements listed in the Employer's Pro-Forma document. One (1) electronic copy in PDF format of a fully signed (by all parties) contract shall also be submitted. The number of additional sets of contract documents for use by the Engineer and his site staff shall be at the discretion of the service provider.

The following shall be bound at the back of Volume 3, or bound together as a separate volume together with a table of contents:

- (i) All addenda issued, together with proof of receipt, completed and signed by the successful tenderer.
- (ii) All letters, statements and documents submitted by the successful tenderer with his tender
- (iii) All correspondence between the Service Provider and the successful tenderer prior to tender acceptance.
- (iv) The Employer's letter of acceptance of tender.
- (v) The Contractor's letter of acceptance, including any conditions.

The contract documents shall comprise all the documents mentioned above, together with Volumes 1 and 2 and the performance guarantee, which shall remain separate documents.

The Engineer shall assess the performance guarantee provided by the Contractor for conformance with the pro forma wording in the tender documentation and if satisfied, shall thereafter submit it to the Employer for safe keeping.

C3.4.7 Measurement and payment

Item	Unit
34.01 Clarification meeting and tender period	
(a) Service Provider's costs	number
(b) Provision for pre-recorded video of the scope of the works	prime cost sum (PC)
(c) Handling costs in respect of items 34.01(b)	percentage (%)

The rate tendered under this pay item shall include for all costs (excluding those for which a Prime Cost Sum has been provided) incurred by the Service Provider with respect to its obligations for the clarification meeting and tender period as specified in clauses C3.4.3 and C3.4.4.

The Prime Cost Sum item shall be paid for in accordance with clause C2.1.8.

The tendered percentage is a percentage of the amount actually spent under this prime cost sum, which shall include full compensation for the handling costs of the Service Provider.

Item	Unit
34.02 Tender evaluation Report(s)	
(a) Compilation of Tender Evaluation and Reports	number
(b) Disbursements per tender evaluation	number

The unit of measurement for pay item 34.02(a) shall be a number.

The lump sum shall include full compensation for time related costs associated with the evaluation of the tender and compilation of tender report. **It is important to note that the evaluation of tenders and the compilation of a tender Evaluation Report will be on a similar SANRAL project from another Service Provider, in the case where the Service Provider compiled the tender documents for the Works Contract.**

The unit of measurement for pay item 34.02(b) shall be a number.

The rate tendered shall include full compensation for all disbursements, materials, printing and all other costs associated with the evaluation of the tender(s) and compilation of tender report(s) and the submission to SANRAL Head Office 1 (one) electronic copy of the Pricing Schedule of the lowest 2 (two) responsive tenders.

The Provisional Sum item shall be paid for in accordance with clause C2.1.8.

Item	Unit
34.03 Preparation of Works contract documents	number

The rate tendered under this pay item shall be for the preparation of two (2) Contract Documents for each contract for signature by the Employer and the appointed Contractor for the Works in accordance with clause C3.4.6 and four (4) additional sets for use by the Employer (1), Contractor (1) and engineer (2) and provide an electronic copy of the signed Contract Documents on a CD. The rate tendered shall include for all expenditure on labour, materials, communication, postage and packing incurred by the Service Provider in the production and delivery of the documents. Payment of the rate will be made on receipt of two (2) copies for signature and four (4) additional of the Contract Documents and an electronic copy of the signed Contract Documents on a CD, as specified, by the Employer. The cost of producing any additional copies for use by the Service Provider shall be deemed to be included in rate tendered for this item.

C3.5 ADMINISTRATION AND MONITORING OF THE WORKS CONTRACT(S)

C3.5.1 Scope

This section covers the duties and obligations of the Service Provider in the provision of the Engineer and site supervisory staff for the administration, construction monitoring and measurement of the Works carried out by the Contractor appointed by the Employer.

C3.5.2 Standards

The Service provider shall administer and monitor the Works Contract in accordance with the following requirements and guidelines:

- Government legislation.
- The Contract Documents as issued for the Works Contract.
- The Employer's manuals of procedures and guidelines.
- Current industry good practice.

C3.5.3 Administration and Monitoring

(a) Fulfilling the functions of the Engineer

The appointed Engineer for the project shall be that person listed in the tender, who shall be authorized by the Service Provider to carry out the work intended by the specifications and the duties required by the FIDIC general conditions of contract. Any alternative person to that offered in the tender shall possess similar competencies and experience and shall only be approved by the Employer if such alternative offer is as a result of genuine unforeseen circumstances.

The duties of the Engineer shall be in accordance with the Employer's standard requirements and shall, inter alia, include:

- i) Conduct meetings with affected communities and relevant forums, if necessary, to establish communication channels and to determine issues impacting on the construction phase.
- ii) Appointment of suitable, able and competent site staff, together with the administration of such staff (including those of any independent service provider/s as approved).
- iii) Arranging and attending monthly technical and site meetings and keeping minutes of such meetings.
- iv) Making arrangements on behalf of the Employer for the provision and reproduction of such drawings and documents as may be required by the contractor and site staff for the execution of the works.
- v) Fulfilling all functions and obligations stated or implied for the Engineer, and delegated to the Engineer's Representative, in the Employer's Particular Conditions of Contract, Standard Specifications or Scope of Works or any other document applicable to the control and administration of a works contract.
- vi) Issuing instructions to the Contractor, co-coordinating and generally inspecting the execution of the Works for compliance with the contract at such intervals as appropriate for the purpose of the proper inspection of the works, directing site staff and delegating the detailed and day-to-day supervision/inspection of the works and site administration.
- vii) Advising the Employer regarding the inspection and testing of such materials and plant as are usually inspected and tested and arranging for such inspection and testing to be carried out in accordance with current appropriate codes, manuals and guidelines.
- viii) Arranging for the carrying out of performance or acceptance tests and surveys as required by the Employer.
- ix) Ensure regular inspections by the design specialists for all work on the project.
- x) Approve all materials and ensure compliance of materials to the specifications.
- xi) Actively manage, report and assist the Contractor on training, development and empowerment programmes committed to by the Contractor in relation to his tendered Contract Participation Goals. Monitor and report monthly on training, empowerment, capacity building, development of Targeted Enterprises, labour and

staff returns, and any such aspects on the Employer's Project Information Module. Separate allowance for payment for this duty has been made in the Pricing Schedule.

- xii) Monitor and report on conformance to all relevant Occupational Health and Safety legislation including regular internal audits to be conducted by the Service Provider's nominated specialist, arrangement for visits by the designer at identified critical phases of construction and recording/reporting of Section 24 incidents.
- xiii) Monitor and report on conformance to all relevant Environmental legislation and requirements.
- xiv) Checking and controlling of quantities measured and agreed by the Contractor and the site supervisory staff and settling any disputes that may arise in this regard.
- xv) Issuing certificates for payment to the Contractor in accordance with the conditions of contract.
- xvi) Review and analyse claims and/or disputes or differences that may arise between the Employer and Contractor. Present to the Employer the Engineer's ruling on a claim and/or dispute. All duties with regard to claims and/or disputes will be paid for under Additional Duties.
- xvii) Issuing works authorisations, as agreed with and approved by the Employer.
- xviii) Provide the Employer with progress, monthly materials and laboratory and other reports on all aspects of material importance regarding the Works.
- xix) Identification of risks to the Employer under the Works Contract, as well as communicating mitigations measures to the Employer.
- xx) Provide the Employer within 3 months of issuing the Taking-over Certificate of the works with such draft construction reports, materials as-built records, as-built plans in PDF format and all other documents normally associated with contract administration. The final reports/records shall be provided within 1 month of the issue of the Performance Certificate for the Works contract.
- xxi) Certain construction monitoring duties may be delegated to the Engineer's representative (RE).
- xxii) Receive the contractor's proposed programme, analyse it, comment on it and when found acceptable write to the contractor stating that the programme is acceptable.
- xxiii) Conducting interim monthly performance evaluations on the Contractor and a final written and signed report to be submitted to the CIDB as gazetted.

(b) Head office administration

The Service Provider shall supply sufficient head office administrative support to the site personnel to ensure efficient and timeous administration of the Works Contract(s).

The Service Provider shall furthermore be responsible for the safe keeping of all original documentation related to the different phases of the project, for a period of at least 5 (five) years after the defects notification period. No additional payment will be made for this.

(c) Occupational Health and Safety obligations

The Service Provider shall execute the duties of the employer, as his appointed agent, as contemplated in the Construction Regulations (2014) to the Occupational Health and Safety Act (Act No. 85 of 1993).

The Service Provider shall arrange, formally and in writing, for the Works Contractor to provide documentary evidence of compliance with all the requirements of the said Act. The Service Provider shall also carry out regular site audits to ensure compliance thereto. Should the Service Provider not have "in-house" capacity to undertake such duties, an external recognized specialist shall be appointed. This individual needs to be registered with the SACPCMP as a Professional Construction Health and Safety Agent or a Construction Health and Safety Manager. Provision for payment for all OHS obligations during the construction phase has been included in the Pricing Schedule.

(d) Assistance at Clarification Meeting(s), Tender Period and Tender Evaluation of sub-contract packages

The Service Provider shall be required to assist the contractor with regards to the procurement of sub-contractors to comply with Part D of the Construction Contract. The specifications

for the clarification meetings, tender period and tender evaluation of sub-contract packages shall be similar to those in Clauses C3.4.2, C3.4.3 and C3.4.4.

Allowance has been made for these requirements in the Pricing Schedule under Additional Duties.

C3.5.4 Establishment of supervisory personnel on site

(a) Supervisory team

The Service Provider shall be required to provide a team on site to monitor, administer and measure the Works in accordance with the requirements of the Works Contract, Employer's standard requirements and industry good practice.

Provision has been made in the Pricing Schedule for the envisaged staffing requirement. The establishment of such staff shall however be subject to the approval of the Employer. For the envisaged scope of the Works, the supervisory team will consist of the following:

- i) Engineer's Representative (RE)
- ii) Assistant Resident Engineer (x4)
- iii) Project Liaison Officer (x4)
- iv) Administrative Assistants (data capture) (x3)
- v) Trainee Technicians (x4)
- vi) Trainee Students (x4)
- vii) Mentors/Coaches for Targeted Enterprises (x4)

The minimum requirements for qualification and experience of the supervisory team are specified in Clause C3.1.9.

Provision has been made in the Pricing Schedule to cover the total annual cost of employment (TACE) of the supervisory staff which shall include the following:

- i) Basic salary.
- ii) Other benefits not reflected in the basic salary, which may include:
 - normal annual bonus (maximum of one month's salary) but excluding any performance bonuses or merit bonuses;
 - consulting firm's contribution to medical aid;
 - group life assurance, accident and disability insurance;
 - pension/provident fund contributions by the consulting firm;
 - allowances forming part of the remuneration package which are pensionable (car allowances, etc.);
 - computer and cell phone allowance if part of package; and
 - other justifiable costs and allowances approved by the Employer.
- iii) costs payable due to all applicable statutory requirements such as:
 - Workmen's compensation fund contributions;
 - Unemployment insurance contributions; and
 - Other applicable statutory levies.

A standardised site staff overhead factor of 1.44 will be applied to the TACE of the supervisory staff (excluding the trainee (student) and Project Liaison Officer) which is made up as follows:

Description	Site staff overheads
Salaries (Technical) TACE	1.00
Salaries (Non-technical) TACE	0.24
Telephone and communication	Tendered item
Rental of premises, electricity, water	Provided by Client
Transport not recovered from project	Pay item
Paper, stationary, consumables	Tendered item
Audit, bank charges, interest, insurance	0.08

Marketing	0.02
Office equipment	Tendered item
Training and development	0.02
Project direct expenses not recoverable	0.08
Head Office expenses	Tendered item
Net Overhead Factor before profit	1.44

Provision has also been made in the Pricing Schedule for additional overhead costs related to the employment of the relevant personnel, which may include the following:

- overtime by salaried professional and semi-professional staff (qualified Engineers, Technologists and Technicians) and all such other staff for which overtime is not payable in terms of the Labour Act;
- ordinary leave and sick leave (one month);
- administration related to salaries, legislation, etc.; and
- other overhead expenses and profit.

Replacement of staff as a result of any extended period of leave or sick leave outside the normal contractor's year end break shall be to the approval of the Employer.

Three (3) months prior to the commencement of the works contract the Service Provider shall submit for consideration and approval to the Employer a detailed proposal in the Employer's prescribed format which shall include a CV of appropriate experience and qualifications as well as a cost estimate for each required and/or proposed person. In addition, the Service Provider shall also complete Returnable Schedule Forms B1 and B2 for at least the Engineer's Representative (RE) for evaluation. Amongst other evaluation criteria to be used, shall be the individual threshold of **70%**, for each of the above-mentioned site staff.

The annual salaries for those approved staff shall be substantiated by an auditor's certificate at the start of the project and whenever salary or staff changes occur thereafter. Prior approval is required for any salary adjustments/increases.

The Employer shall be entitled to instruct the Service Provider to remove forthwith from the Works any person employed by the Service Provider on or about the execution of the Works who, in the opinion of the Employer, misconducts himself or is incompetent or negligent in the proper performance of his duties, or whose presence on site is otherwise considered by the Employer, on reasonable grounds, to be undesirable.

(b) Relocation of site staff

Provision has been made in the Pricing Schedule for the costs to relocate the core supervisory team to site.

(c) Accommodation

Appropriate housing for the supervisory team will be required to be provided by the Service Provider. A provisional sum has been allowed in the Pricing Schedule for this purpose. Accommodation of the site staff shall be located as near to the Works as practically possible.

Where site staff elect to occupy their own housing and approved by Employer, payment will be made in accordance with the table below.

Table C3.5.4: Monthly accommodation allowance rates (April 2022)

ANNUAL BASIC SALARY	AREA IN WHICH HOUSING UNIT IS LOCATED	
	OTHER	METROPOLITAN AREAS
Up to – R130 000	R 3 628	R 4 180
R130 000 – R260 000	R 4 597	R 5 494
R260 000 – R500 000	R 5 635	R 7 061
R500 000 and over	R 6 731	R 7 987

NOTE:

- The amounts in this table are fixed for 1 (one) year only (April-March of each year) regardless of the Stage of the Project. The Employer will publish revised amounts on a yearly basis.

(e) Establishment of site office

The Employer's preference for the establishment of a Site Office(s) is/are the town(s) of *TBA*.

Provision for the erection and maintenance of a site office building and all related services, will be made under the Works Contract. The Service Provider shall however provide sufficient office equipment to perform all required duties for the monitoring of the Works Contract. This shall, inter alia, include the following:

- all cell phones,
- safety equipment in accordance with the OHS requirements, e.g. safety jackets, rotating amber lights, safety boots, etc.
- photo copiers, fax machines, modems, personal computers and printers (including all hardware and software)
- consumables and stationary
- digital camera

One (1) landline, including rental, call and data costs for work related office and fax usage shall be provided through the Works Contract. Should fixed connectivity not be available mobile connectivity with data shall be provided through the Works Contract.

Provision has been made in the Pricing Schedule for supplying the equipment as well as the monthly operational costs thereof.

In addition, the Resident Engineer as his/her assistants shall be equipped with mobile phones for the Employer's ITIS mobile application, with the following minimum specification:

- Operating system: Android or higher
- Camera resolution: 5 Meg pixels or greater – 8MP recommended
- Screen resolution: 480 x 800 pixels or greater
- GPS facility: Yes, with geo-tagging for images
- Data connection: 3G or greater

C3.5.5 Monitoring of the Works Contract

The Service Provider shall ensure that all the work required under the Works Contract is carried out in accordance with the requirements of the Works Contract and current best practice and shall include effective financial control. Construction monitoring shall be carried out in a pro-active manner and in accordance with the Employer's standard requirements and current best practice.

The Service Provider shall be responsible for the normal duties associated with the management and supervision of a works contract, which duties shall, *inter alia*, include:

- Monitoring and reporting of the Contractor's programme.
- Implement Engineer's quality control plan.
- Monitor Contractor's quality control plan.
- Site audits, inspection, quality control testing, approval, rejection of work.
- Measurement and certification of completed work inclusive of cash flow forecasts.
- Management of ITIS software which includes the following modules:
 - contract module: contract management
 - project information module: uploading of data including personnel and employment data
- Provide a final cost estimate for the work contract on a monthly basis, including estimated costs of claims.
- Regular Site Meetings with Contractor and Employer.
- Monitoring of the third party claims.
- Monitoring and reporting of Contractor's CPG commitments.
- Supervision of traffic accommodation arrangements.
- Attend Project Liaison Committee (PLC) and Project Management Team (PMT) and all other meetings relating to the Targeted Enterprises and Targeted Labour.
- Monitoring and reporting of the project's EMP and NEMA requirements.
- Implement the Engineers requirements in terms of compliance with the OH&S Act.
- Monitor the Contractor's compliance with the OH&S Act.
- Compile all reports and as-built data in accordance with the Employer's standard requirements.

C3.5.6 Project Liaison Officer(s) (PLO)

The PLO is a person who acts as the liaison officer for the PLC and PMT.

The PLO shall facilitate the employment of Targeted Labour and shall coordinate communication between the PMT and the PLC to address the day-to-day project, Stakeholder and community matters that impact on the parties to the project.

The Standard TOR for PLOs requires of the PLO to execute specific duties during each stage of the project, i.e. from project initiation to project completion. Some of these duties overlap project stages and hence, a full description is provided here.

The PLO shall execute the following duties:

- i) Except for taking the minutes of PLC meetings, which is a duty of the Engineer or his representative, the PLO shall provide a secretarial function to the PLC which includes, amongst others, the following:
 - a. Schedule meetings;
 - b. Compile meeting agendas;
 - c. Compile document packages for meetings;
 - d. Distribute minutes of meetings;
 - e. Assist PLC to formulate their communication in writing;
 - f. Distribute written communication to and from the PMT and the PLC;
 - g. Keep records of all the above and any other PLC documentation; and
 - h. Provide any other reasonable secretariat function pertaining to the PLC.
- ii) Attend all PLC meetings to report on the day-to-day project, Stakeholder and community matters that impact on the parties to the project.
- iii) Attend all monthly site meetings to report on the day-to-day project, Stakeholder and community matters that impact on the parties to the project.

- iv) Attend any other meetings related to the project and in which any of the project Stakeholders, affected communities, Local/Targeted Labour and Local/Targeted Enterprises are involved.
- v) Maintain a full-time presence on site to monitor and address the day-to-day project, Stakeholder and community matters that impact on the parties to the project.
- vi) Maintain a full-time presence on site to assist the PMT in the day-to-day liaison with project Stakeholders and affected communities. Typical information to be disseminated by the PLO includes:
 - a. Basic scope of works and how it will affect the community;
 - b. Project programme and regular progress opportunities;
 - c. Anticipated employment and sub-contracting opportunities;
 - d. Project programme as it pertains to the employment of Targeted Labour and sub-contracting of Targeted Enterprises;
 - e. Occupational Health and Safety precautions; and
 - f. Any other information relevant to project Stakeholders and the affected communities.
- vii) Be well acquainted with the contractual requirements as it pertains to Targeted Labour employment and training requirements.
- viii) Assist the PMT and PLC to establish and agree the eligibility and selection criteria to be followed when employing Targeted Labour.
- ix) Assist the PMT in its resources and skills audits by providing a coordinating function between the PMT, project Stakeholders and the affected communities.
- x) Ensure that Targeted Labour databases, compiled from the resources and skills audits, are based on the agreed eligibility and selection criteria and that it is updated as and when required.
- xi) Coordinate the selection and employment of Targeted Labour based on the agreed eligibility and selection criteria and based on the Contractor's labour requirements.
- xii) Ensure that each labourer enters into an employment contract which adheres to current and relevant labour legislation.
- xiii) Ensure that each labourer understands the conditions of his/her employment with an emphasis on the employment start date, end date and wages payable.
- xiv) Identify and inform the PMT of any relevant training required by the Targeted Labour.
- xv) Attend all disciplinary proceedings to ensure that hearings are fair and conducted in accordance to the current and relevant labour legislation.
- xvi) Be pro-active in identifying PLC, project Stakeholder, affected communities (including Targeted Labour and/or Targeted Enterprise sub-contractor), requirements, disputes, unrest, strikes, etc. and bring it to the attention of the PMT.
- xvii) Assist the PMT to liaise with the PLC, project Stakeholders and the affected communities to resolve any disputes, which occurs due to the project.
- xviii) Other than the document records to be kept as mentioned in (i) above, keep record of all other documents and processes pertaining to the employment of Targeted Labour and any other records that may be of relevance to the functions of the PLC.
- xix) Produce and submit a monthly report to the PMT and the PLC on PLC meetings, other meetings attended by the PLO, Targeted Labour employment, and project Stakeholder, affected community and any other project matters that impact on the parties to the project.

C3.5.7 Transport for site supervisory staff and additional services

The Service Provider shall provide sufficient appropriate vehicles on site to carry out the duties as specified in clause C3.5.5 and C3.5.6 including materials sampling and testing. Only travel in the execution of these duties, as well as any other travel necessary as a result of any additional duties as ordered by the Employer, shall be claimable. Travel costs incurred as a result of week end travel by site staff to their place of permanent residence shall not be claimable and shall be deemed to be included in the monthly rate tendered for the relevant site staff. Travel between site staff's residence and Site Office shall be deemed as **private travel**.

Travel log sheets for each vehicle utilised shall be certified by the Engineer and included under cover of the payment certificates submitted to the Employer. The total kilometres for all travel per calendar month for all supervisory staff, including PLO; shall be limited to **10 000 kilometers**. Any excess travel above **10 000 kilometers** shall be for the Service Provider's account.

The vehicle type for all supervisory staff (including PLO) shall be limited to a Category A and B with a 1800 Engine Volume cc. In exceptional cases the Employer may consider a different category vehicle and/or engine volume.

Fuel rates can be downloaded monthly by following the link:
<https://www.transport.gov.za/web/department-of-transport/roads>.

C3.5.8 Measurement and payment

Item	Unit
35.01 Engineer and Head Office	
(a) Cost to fulfil the duties of the Engineer including acting as “Agent” for the Employer in terms of the Construction Regulations to the OHS Act	month
(b) Head Office overhead costs	month
(c) Occupational Health and Safety obligations	
(i) Continuous compliance and monthly internal audits	month
(ii) External audits	provisional sum (PS)
(iii) Handling costs i.r.o. sub-item 35.01(c)(ii)	percentage (%)
(d) Training of Assistant Contract Engineer	
(i) Training by Contract Engineer	provisional sum (PS)
(ii) Remuneration of Assistant Contract Engineer	provisional sum (PS)
(iii) Disbursements	prime cost
(e) Extra over items 35.01(a), (b) and (c)(i) for additional roads	month

The unit of measurement under pay item 35.01(a) shall be the rate per month (pro rata for part of a month). The tendered rate shall include full compensation for all costs, including personnel, transport, accommodation and subsistence etc. associated with fulfilling the duties of the Engineer as specified in clause C3.5.3.

The unit of measurement under pay item 35.01(b) shall be the rate per calendar month (pro rata for part of a month). The tendered rate shall include for all overhead costs, including levies, taxes, insurances, provision of sureties, profit etc. associated with the engineering services.

The unit of measurement under pay item 35.01(c)(i) shall be the rate per calendar month (pro rata for part of a month). The tendered rate shall include full compensation for all costs, including personnel, transport, accommodation and subsistence of the Occupational Health and Safety Specialist for fulfilling the Service Providers obligations as the Employers agent with respect to the requirements of the Construction Regulations of the Occupational Health and Safety Act (Act No. 85 of 1993).

The services required under 35.01(c)(ii) shall be undertaken by an independent auditor whom the Service Provider shall procure and be approved by the Employer. The provisional sum shall cover all the independent auditor's costs for travel, accommodation and fulfilment of the service (including reports).

The provisional sum shall be paid for in accordance with Clause C2.1.8.

The percentage tendered for handling costs under 35.01(c)(iii) shall include for all costs associated with the planning, scheduling, compilation of quotations, issuing of **3 (three)** quotations in electronic and/or paper format and evaluation for the procurement of the sub-service, as well as handling fees.

The provisional sum for pay item 35.01(d)(i) shall include full compensation for the Service Provider's cost of training the Assistant Contract Engineer as understudy to the Contract Engineer (CE) including for all personnel and other costs, overheads and profit.

The provisional sum for pay item 35.01(d)(ii) shall include full compensation for the remuneration of the Assistant Contract Engineer but shall be limited per month to 75% of the tendered rate under item 35.01(a).

The prime cost sum under pay item 35.01(d)(iii) is to cover the disbursement cost of the Assistant Contract Engineer for attending monthly meetings.

The unit of measurement under item 35.01(e) shall be the rate per calendar month (pro-rata for part of a month). The tendered rate shall include full compensation for additional services by the engineer and head office as an extra over item, for additional roads if these do not initially form part of the scope of works.

Payment under these pay items may only be claimed from the date of official handover of the Works to the Contractor up to and including the issue of the Taking-Over Certificate.

Contract price adjustment shall be applicable in accordance with clause C2.1.6.

Item	Unit
35.02 Establishment of supervisory personnel on site	
(a) Relocation costs of individual site personnel	prime cost (PC)
(b) Handling costs i.r.o sub item 35.02(a)	percentage (%)
(c) Establishment of office equipment	lump sum (LS)

The unit of measurement for pay item 35.02(a) shall be the prime cost sum.

Payment under this pay item shall be made for all costs related to establishing the individual supervisory personnel on site and their removal after completion of the Works, as approved by the Employer and shall be paid in accordance with Clause C2.1.6.

The unit of measurement for pay item 35.02(b) shall be the percentage. Payment under this sub item shall be made on the amount actually spent and shall include full compensation for the handling costs of the service provider.

The unit of measurement under pay item 35.02(c) shall be the lump sum. The sum tendered shall be for establishing and de-establishing of all office equipment on site and shall include for all associated costs. Payment shall only be made once all office equipment has been established on site.

Item	Unit
35.03 Provision of Supervisory Staff and Equipment	
(a) Site Supervision Staff	provisional sum (PS)
(b) Mark-up i.r.o. sub-item 35.03(a)	percentage (%)
(c) Project Liaison Officer(s)	provisional sum (PS)
(d) Handling costs i.r.o. sub-item 35.03(c) above	percentage (%)
(e) Accommodation	provisional sum (PS)
(f) Mark-up i.r.o. sub-item 35.03(e)	percentage (%)
(g) Provision and monthly cost of office equipment	month
(h) Trainee (student)	provisional sum (PS)
(i) Handling costs i.r.o. sub-item 35.03(h) above	percentage (%)
(j) Provision and monthly cost of a Retro-Reflectometer for retro-reflective testing of road markings.	month

The sum under pay item 35.03(a) is to cover the monthly (pro rata for part of a month) Total Annual Cost of Employment (TACE) (including a 1.44 site staff overhead factor) of the supervision staff (excluding Project Liaison Officer (PLO))) as listed in Clause C.3.5.4 and approved by the Employer.

Payment under this pay item shall only be applicable for the period actually established on site and shall in no instance be prior to the date of official hand-over of the Works to the contractor or after 28 days of the date of the Taking-Over Certificate for the Works contract. The TACE shall be verified by means of an audited statement.

The unit of measurement for pay item 35.03(b) shall be the percentage.

The percentage tendered shall include full compensation for all additional overhead costs related to the employment of the relevant personnel as specified in Clause C3.5.4(a).

Contract price adjustment shall be applicable in accordance with Clause C2.1.6.

The provisional sum under pay item 35.03(c) is to cover the costs of a PLO on site as specified in Clause C3.5.6.

The unit of measurement for pay item 35.03(d) shall be the percentage.

The percentage tendered shall include for all costs associated with the sourcing, employment and mentoring of the PLO.

The provisional sum under pay item 35.03(e) is to cover the cost of accommodation for supervisory staff.

The unit of measurement for pay item 35.03(f) shall be the percentage.

The percentage tendered shall include for all costs associated with the reimbursement by the Service Provider for rented accommodation, as well as handling fees and profit.

The unit of measurement for pay item 35.03(g) shall be the month (pro rata for part of a month).

The provisional sum under pay item 35.03(h) is to cover the costs of a trainee on site as specified in clause C3.5.4. The provisional sum item shall be paid for in accordance with Clause C2.1.8.

Contract price adjustment shall be applicable in accordance with Clause C2.1.6.

The % tendered for handling costs under pay item 35.03(h) shall include for all costs associated with the sourcing, employment, training, mentoring, scheduling, compilation of reports for the trainee, in order for him/her to complete their studies or to aid them to register with a Professional body, as well as handling fees and profit.

The rate tendered for office equipment shall include full compensation for supplying and maintaining all office equipment as specified in Clause C3.5.4(e), including all incidentals, all monthly charges and costs such as cellphone and mobile data costs and insurance to operate the equipment.

The unit of measurement for pay item 35.03(j) shall be the month (pro rata for part of a month).

The rate tendered for retro-reflectometer shall include full compensation for supplying and maintaining (including calibration and colour correction) of the retro-reflectometer able to take reliable measurements of both flat markings and profiled/ structured markings and complying with SANS 6261:2008, and as specified in Clause C3.5.4(e), including all incidentals, all monthly charges and insurance to operate the device.

The provisional and prime cost sum items shall be paid for in accordance with Clause C2.1.8.

Contract price adjustment shall be applicable to sub-item 35.03(j) in accordance with Clause C2.1.6.

Contract price adjustment shall be applicable in accordance with Clause C2.1.6.

Item	Unit
35.04 Transport for site personnel and additional duties	
(a) Travelling to perform duties	provisional sum (PS)
(b) Handling cost i.r.o. item 36.04(a)	percentage (%)
(c) Toll fees	prime cost sum (PC)

The provisional sum is to cover the costs for travelling to perform the duties as specified in clause C3.5.5 and C3.5.6 and any additional duties as may be ordered by the Employer. The provisional sum shall cover all costs associated in providing transport as specified in Clause C3.5.8. The transport per calendar month for all site personnel including PLO in excess of 10 000 kilometers shall not be paid under this pay item and shall be for the Service Provider's account. Completed log sheets for each vehicle shall be certified by the Engineer and included in the monthly payment certificate.

The % tendered for handling cost under pay item 35.04(b) shall include for all costs associated with providing transport for site personnel, as well as handling fees and profit.

The prime cost sum is to cover the cost of toll fees for site supervisory staff performing their duties. Payment will only be made for E-tag transactions upon proof of an official statement via the Employer's Transaction Clearing House (TCH), which is the integrated fee collection and information management process for Electronic Toll Collection (ETC) accounts.

Item	Unit
35.05 Assistance at Clarification Meeting, Tender Period and Tender Evaluation of sub-contract packages	
(a) Service Provider's cost	number
(b) Tender Evaluation	number
(c) Evaluation Report(s)	number

The unit of measurement for sub-item 35.05(a) shall be the number of clarification meetings held. The rate tendered shall include for all cost incurred by the Service Provider with respect to the duties for assisting the contractor at the clarification meeting and tender period as specified.

The unit of measurement for sub-item 35.05(b) shall be the number of sub-contract/work packages evaluated. The rate tendered shall include full compensation for time related costs associated with the evaluation of each sub-contract/work package and the compilation of a Tender Report.

The unit of measurement for sub-item 35.05(c) shall be the number of evaluation reports compiled. The rate tendered shall include full compensation for all disbursements, material, printing and other costs associated with the evaluation and compilation of the Tender Evaluation Reports.

Contract price adjustment shall be applicable in accordance with Clause C2.1.6.

C3.6 ADDITIONAL DUTIES

C3.6.1 Scope

This section covers additional work, other special services and specialist advice, reporting and other duties etc. that the Service Provider or the Employer may be required to undertake over and above the normal duties and obligations as specified.

It also covers the cost of structured engagement with Community Stakeholders and Project Liaison Committee (PLC) including the development and ongoing maintenance/updating of a Targeted Enterprise and Targeted Labour database.

C3.6.2 Additional Duties

(a) By the Service Provider

The Employer may order duties that fall outside the scope of the project as tendered. Such additional duties may involve, but not be limited to:

- Additional investigations
- Additional design requirements
- Evaluation of alternative tenders
- Diverse other services
- Special Services and specialist advice
- Establishment and liaison with PLC during Design and Construction Phases
- Establishment and maintenance of databases

Allowance is made in the Pricing Schedule for payment on a time basis for any such additional services that may be required. The level of expertise necessary for any such additional work shall be concomitant with the issues to be addressed. The category of personnel necessary to undertake the work shall be approved by the Employer in accordance with the following definitions:

- i) **Category A** shall mean a top practitioner whose expertise is nationally or internationally recognised and who provides advice at a level of specialisation where such advice is recognised as that of an expert.
- ii) **Category B** shall mean a partner, a sole proprietor, a director, or a member who, jointly or severally with his other partners, co-directors, or co-members, bears the risks of business, takes full responsibility for the liabilities of such practice, performs work of a conceptual nature in engineering design and development, provides strategy guidance in planning and executing a project and/or carries responsibility for quality management pertaining to a project (e.g. The Engineer for the project).
- iii) **Category C** shall mean all salaried senior professional and technical staff performing work of an engineering nature and who carry the direct technical responsibility for one or more specific activities related to the project. A person referred to in Categories A or B may also fall in this category if such person performs work of an engineering nature at this level (e.g. The Engineer's Representative for the project).
- iv) **Category D** shall mean all other salaried technical staff performing work of an engineering nature under the direction and control of any person contemplated in categories A, B or C.

Any additional identified service shall be fully scheduled and submitted to the Employer for approval prior to the commencement therewith.

(b) By the Employer

Additional duties performed by the Employer may involve, but not be limited to:

- re-evaluation of any replacement personnel by the Tender Evaluation Panel
- reviewing draft documentation submitted more than once.

Allowance is made in the Pricing Schedule for payment on a time basis for any such service performed more than once.

C3.6.3 Payment and monthly reporting

When submitting interim certificates for payment, the Service Provider shall use the Employer's standard forms and formats. No payment can be made before the Service Provider is registered as a vendor on the Employer's system.

The Service Provider shall submit payment certificates for all work rendered in the Employer's financial year within the specific year.

The Service Provider shall submit and update on a monthly basis a cash flow forecast for the remuneration of the full service to be rendered.

The Service Provider shall use the ITIS platform and modules to perform certain duties and to provide required information as listed in C3.1.16.

This includes using the Employer's different ITIS platforms:

- ITIS Web
- ITIS Desktop
- ITIS Mobile

The current modules applicable to this contract (modules can be running on any of the above platforms) and their description are as follows:

- (i) Contract Module – management of contracts
- (ii) Project Information Module – uploading of employment and training data
- (ii) Structures Module – uploading of structures details

Allowance has been made for these requirements in the Pricing Schedule under 36.05 Monthly Reporting Costs. Failure to fully comply with the duties as listed above may result in payments being withheld and/or termination in terms of Clause 8.4 of the Conditions of Contract.

C3.6.4 Measurement and payment

Item	Unit
36.01 Additional duties by the Service Provider	
(a) Personnel - Category A	hour (hr)
(b) Personnel - Category B	hour (hr)
(c) Personnel - Category C	hour (hr)
(d) Personnel - Category D	hour (hr)
(e) Design Drawings review (per km)	kilometre(km)
(f) Design Drawings review (per interchange)	Number (no)

The rates tendered (a) to (d) shall be for the carrying out of any additional duties extra-over the normal Services as specified and as ordered by the Employer. The rates tendered shall include for all personnel costs including overheads and profit. Transport, if required, shall be paid at the rates under payment item 35.04.

The rates tendered (e) shall (f) shall provide for the review of the design drawings for road marking on other SANRAL contracts by an ECSA registered Geometric Design Specialist provided by the Service Provider.

Item	Unit
36.02 Additional duties by Employer	hour

The unit of measurement shall be the hour of Employer personnel utilised for additional duties.

The provided negative rate shall be for carrying out additional duties as specified in Clauses C3.1.9, C3.3.4 and C3.5.4 and shall be deducted from the service provider's interim payment certificate immediately after having being informed by the Employer.

The minimum time will always be 2 (two) hours per key person re-evaluated and actual hours will be charged for proof reading draft documentation submitted more than once.

Item	Unit
36.03 Disbursements	
(a) Disbursements	prime cost (PC)
(b) Handling cost i.r.o. item 36.03(a)	percentage (%)

The prime cost sum under item 36.03(a) is to cover the disbursement cost of personnel, equipment, accommodation, subsistence and documentation associated with undertaking additional duties.

The Prime Cost shall be paid in accordance with Clause C2.1.8.

The rate tendered for handling cost under item 36.03(b) is for the mark-up or other incidental costs incurred by the Service Provider.

Item	Unit
36.04 Additional duties by sub-service provider	
(a) Additional duties	prime cost (PC)
(b) Handling cost i.r.o. item 36.04(a)	percentage (%)

The prime cost sum under item 36.04(a) is to cover the cost of all work carried out by external sub-service providers as approved by the Employer.

The Prime Cost shall be paid in accordance with Clause C2.1.8.

The rate tendered under item 36.04(b) shall include full compensation for all costs associated with:

- (i) producing a schedule of other work envisaged
- (ii) compiling a quotation/tender document
- (iii) evaluation of quotations or tenders received
- (iv) procurement of sub-service providers on approval by the Employer.

Item	Unit
36.05 Payment and Monthly Reporting cost	month

The unit of measurement shall be the month.

The rate tendered shall include full compensation for registering on the Employer's ITIS Project Information Module and for the management of the ITIS software modules(Contract, and Information Modules) specified in Clause C3.1.16 .It shall also include full compensation for using the ITIS software to capture job instructions and compiling the monthly payment certificates. It shall also include the full compensation for capturing and submitting the required information regarding training, empowerment, capacity building,

targeted enterprise development, labour and staff returns during the design and construction stage for both contractor and consultant. It shall further include for all personnel and other costs, disbursements, overheads and profit.

Item	Unit
36.06 Project Liaison Committee (PLC)	
(a) Establishment of PLC	lump sum (LS)
(b) Liaison/meetings with the PLC during Design and Construction Phase	provisional sum (PS)
(c) PLC stipend	provisional sum (PS)
(d) Handling cost i.r.o. item 36.06(c)	percentage (%)
(e) Training of PLC members	provisional sum (PS)
(f) Handling cost i.r.o. item 36.06(d)	percentage (%)

The unit of measurement for pay item 36.06(a) shall be the lump sum. The sum shall include full compensation for all costs associated with the establishment of the PLC.

The provisional sums shall be paid in accordance with Clause C2.1.8.

The provisional sum allowed under pay item 36.06(b) is to cover all costs associated with liaison/attending meeting with the established PLC during the Design and Construction Phases.

The provisional sum allowed under pay item 36.06(c) is to cover the monthly payments to PLC members as prescribed by the Employer.

The rated tendered for handling cost under item 36.06(d) is for the mark-up or other incidental costs incurred by the Service Provider.

The provisional sum allowed under pay item 36.06(e) is to cover all costs associated with training PLC members on their duties and responsibilities.

The rate tendered under item 36.06(f) shall include full compensation for all costs associated with producing a schedule of training requirements, compiling a quotation/tender document, evaluation of quotations or tenders received and for the procurement of a training service provider on approval by the Employer

Item	Unit
36.07 Market Analysis and Databases	
(a) Market analysis	lump sum (LS)
(b) Establishment and Maintenance of a Targeted Enterprise database	month
(c) Establishment and Maintenance of a Targeted Labour database	month

The unit of measurement for item 36.07(a) shall be a lump sum.

The sum tendered for item 36.07(a) shall include full compensation for all costs associated with the market analysis in terms of the CIDB guidelines for undertaking a feasibility study (CIDB grading, CSD, etc.).

The units of measurement for items 36.07(b) and (c) shall be the month.

The rate tendered for item 36.07(b) shall include full compensation for all costs associated with the compilation and monthly maintenance of a Targeted Enterprise database during the Design and Construction Phase.

The rate tendered for item 36.07(c) shall include full compensation for all costs associated with the compilation and monthly maintenance of a Targeted Labour database during the Construction Phase.

C3.7 OFF-SITE MATERIALS TESTING

C3.7.1 Scope

This section covers the requirements for the provision of testing to be undertaken in an off-site facility.

C3.7.2 Standards

The off-site facility shall operate under the umbrella of a SANAS accredited main laboratory that shall be responsible for ensuring that all sampling and testing is carried out accurately and strictly in accordance with the relevant, SANS test methods and accreditation requirements.

The Service Provider shall be responsible for the acts, defaults or neglects of any sub-service provider, his agents, servants or workmen as fully as if they were the acts, defaults or neglects of the Service Provider, his agent, servants or workmen.

C3.7.3 Testing of materials off-site

All testing shall be carried out in an off-site SANAS accredited commercial laboratory. Provision for the costs of this testing has been made in the Pricing Schedule under a Provisional Sum pay item.

C3.7.4 Measurement and payment

Item	Unit
37.01 Off-site materials testing	
(a) Provisional sum for off-site laboratory testing by an external SANAS accredited laboratory	prime cost (PC)
(b) Handling costs in respect of item 37.01(a) above	percentage (%)

Expenditure under this pay item shall be for all laboratory testing of materials carried out off-site by an external sub-service provider as approved by the Employer.

The % tendered shall include full compensation for costs associated with:

- producing a schedule of all testing envisaged
- compiling a quotation/tender document
- evaluation of quotations/tenders received

procurement of sub-service provider on approval by the Employer

C3.8 ADMINISTRATION AND MONITORING OF THE WORKS DURING THE PRODUCT PERFORMANCE PERIOD

C3.8.1 Scope

This section specifies the obligations of the Service Provider during the Product Performance Period

C3.8.2 Taking-over Certificate(s)

Upon a request from the contractor for the Taking-over Certificate (TOC) to be issued in terms of the Conditions of Contract the engineer shall establish compliance with the Works Contract for a TOC to be issued.

The Service Provider shall undertake a full inspection of the Works to identify any outstanding minor works, defects and/or damages for the compilation of a snag list per Section. The inspection shall be undertaken by the Engineer and his representative for the Works.

After the inspection and only when the Engineer is of the opinion that a TOC can be issued, the Service Provider shall arrange an on-site meeting and further inspection with representatives of the Employer, Contractor and RRM Service Provider. At this meeting, parties will be presented with the snag list for consideration. There-after an inspection will follow with all the parties involved to add additional items to the snag list.

After the above meeting the engineer shall re-establish compliance with the Works Contract with involvement of the Employer for a TOC to be issued, failing which the whole process is to be repeated.

The engineer's representative shall be present on the site during the period required to complete the items on the snag list and monitor the completion thereof, unless otherwise agreed with the Employer.

C3.8.3 Contractor's CIDB performance evaluation(s)

The Service Provider shall undertake the required final performance evaluation of the contractor according to the CIDB's requirements as soon as the contractor requests the issuing of the TOC. The Service Provider shall submit the above to the Employer at the date of issuing of the TOC.

C3.8.4 Contract administration during product performance period.

After the issuing of the First Inspection Certificate (Taking-Over Certificate) per Section, the Service Provider shall continue to administer the Contract in accordance with the Conditions of Contract for the Works for the product performance period up to and including the issuing of the Performance Certificate to the Contractor and conclusion of the final payment certificate. The Service Provider shall undertake:

- Site audits, inspection, quality control testing, approval, rejection of work as required for the Second Inspection Certificate.
- Measurement and certification of completed work inclusive of cash flow forecasts.
- Full inspection and performance tests of the Works to identify any defects or non-conformance prior to the issuing of the Performance Certificate to the Contractor.

The inspections shall be undertaken by the Engineer and Resident Engineer for the Works or, failing the availability of one or both of them, a person having sufficient knowledge of the work to be assessed.

After the inspection the Service Provider shall arrange an on-site meeting and further inspection with representatives of the Employer, Contractor and RRM Service Provider. At this meeting, parties will be informed of the defects and/or damages identified during the inspection. There-after an inspection will follow with all the parties involved to identify any further defects and/or damages.

Once identified defects and/or damages are addressed the engineer shall notify the Employer that the Performance Certificate can be issued.

C3.8.5 Co-ordinate and Monitor Remedying of Defects

The Service Provider shall co-ordinate and monitor the remedying of any defects and/or damages identified during the defects notification period and/ or product performance period in line with the requirements and specifications of the Works Contract.

Prior to the provision of any service under this sub-clause the Service Provider shall submit to the Employer for approval a schedule of personnel necessary to undertake the additional services including a cost estimate. Payment for this service shall be made in terms of Clause C.3.6.4

C3.8.6 Final Payment Certificate

Prior to the compilation of the final payment certificate the engineer shall ensure that all items on the Employer's checklist are complied with. The signed off checklist shall be submitted with the final payment certificate.

The engineer shall only compile and submit the final payment certificate once the Performance Certificate has been issued by the Employer and all unfulfilled financial obligations have been resolved.

C3.8.7 Extended Guarantees

Where the Service Provider is required to perform services (e.g. inspections after the completion date of the Works Contract) relating to extended guarantees for the Works Contract (e.g. Product Performance Guarantees) separate arrangements for remuneration will be made by the Employer outside this Contract.

C3.8.8 Measurement and payment

Item		Unit
38.01	Administration and Monitoring During Product Performance Period	
	(a) Second inspection certificate (month 12 or 18) per contract	Number(no)
	(b) Performance certificate (month 24 or 36) per contract	Number (no)

The unit of measurement for pay item 38.01(a) and (b) shall be a number. The rate tendered shall include for all costs, including personnel, transport, accommodation and subsistence costs, associated in carrying out the inspections and testing of the Works **(including the cost for the provision of a retro- reflective testing equipment (reflectometer))**, prior to the issuing of the Second Inspection Certificate (s) and Performance Certificate(s) after final inspection(s) to the Contractor(s).

PART C4: SITE INFORMATION

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C4.1 LOCATION OF THE PROJECT

The proposed project is in Amathole, Chris Hani, Alfred Nzo, and Joe Gqabi District Municipalities.

The site comprises of the following routes with a total length of approximately 2786.05 kilometres:

4 DISTRICT MUNICIPALITY DRIVE PLAN						
DM	Route	section	From (KM)	to (KM)	Distance	Total distance covered
AMATHOLE	R67	3	0	41	41	240.89
		2	0	70.65	70.65	
	R63	12	0	42.54	42.54	
		13	0	60.4	60.4	
		14	0	58.8	58.8	
		15	0	26.3	26.3	
		16	0	45.45	45.45	268.45
	N2	15	0	45	45	
		16	0	80	80	
		17	0	70	70	
		18	0	28	28	
		14	0	66	66	317.9
	N6	1	0	73	73	
		2	0	49	49	
	R72	3	0	68.9	68.9	
		4	0	61	61	
ALFRED NZO	N2	19X	69	96	27	109
		20X	0	70	70	
	R61	9	0	12	12	
	R61	10	0	80.58	80.58	311.88
	R415	1	0	32.6	32.6	
JOE NGQABI	R396	1	0	30	30	346.37
	56	8	0	168.7	168.7	
		7	0	68.8	68.8	159
	R58	6	0	66.41	66.41	
		3	0	55.87	55.87	
		2	0	58.49	58.49	
		1	0	39.8	39.8	266.65
	N6	5	0	57	57	
		4	0	107	107	
	R392	1	0	9	9	
	R410	1	0	43	43	765.91
		2	0	48	48	
		3	0	25	25	
	R58	7	0	40.7	40.7	
	R61	6	0	92.95	92.95	2786.05
		5	0	60	60	
		4	0	63.1	63.1	
		3	0	71.16	71.16	
		2	17.25	85.7	68.45	
	N6	3	0	60	60	
	R67	5	0	33.3	33.3	
		4	0	55.6	55.6	
	N10	3	37	81.75	44.75	
		4	0	95	95	
		5	0	6.6	6.6	
	R56	1	0	80	80	
	R390	2	0	35	35	
TOTAL						2786.05

C4.2 AVAILABLE INFORMATION

Information obtained from recent instrument surveys is available from the Employer's pavement management system and will be made available to the successful tenderer in electronic format:

- Traffic information
- Macro Texture

C4.3 ANY ADDITIONAL INFORMATION AS REQUIRED FOR THE PROJECT

C4.3.1 Reference Documents

SANRAL File reference numbers

None.

Design reference documents

None.

C4.3.2 Traffic and Road Condition

Information will be provided to successful tenderer.

C4.3.3 Incident Management Systems Report (RIMS Report)

Current information will be provided to successful tenderer.

C4.3.4 Road Condition Report (RRM)

Current information will be provided to successful tenderer.

C4.3.5 Limiting Factors

Priorities

- i. Road Safety of travelling public, engineering staff and construction personnel.
- ii. Minimum user delays and damage.
- iii. High standard of work.
- iv. Accurate budgeting.
- v. Achievement of BBBEE goals.
- vi. Successful completion of contract.

Constraints

- i. Two lanes open to traffic where geometry allows.
- ii. No night time work.
- iii. Road safety not to be compromised under any circumstances.
- iv. Relative high traffic volumes.
- v. No overspending of budget.

Customers

Road Users – the level of service to remain high and user delays and damage to property to be kept to a minimum.

Key Stakeholders

- i. Roads users
- ii. Contractor
- iii. Engineer

C4.3.6 Risks Analysis

Risk Register			
No	Key Risk	Identified Risk	Mitigating Factors
1	Road Safety	Loss of life and property	Road safety audits & Co-ordination with road and law enforcement authorities
2	Funding	Legal actions, claims for damages sustained by users due to potholes etc,	Prioritization of work Insurance
3	Environmental Management	Non-compliance with legislation. level of public scrutiny SANRAL is exposed	Environmental management policies in achievement of SANRAL's primary objectives are pursued Consulting engineers to oversee compliance to standards by contractors
4	Expanded training	Reputation Risk	Adequate funding in contract Pro-active awareness for training need
5	Proficient consulting services (Project Management)	Inadequate knowledge transfer within companies.	Knowledge transfer and capacity building Project managers closely monitor contractors and consulting resident engineers.
6	All payments are accurate and valid.	Actual project progress does not correlate payment certificate. Collusion between the resident engineer and the contractor used	Site audits should be performed. All Works Authorisations to be approved in advance for all work not covered by rates in the contract. Minimum of three quotations

Risk Register			
No	Key Risk	Identified Risk	Mitigating Factors
		as the basis of payment. Work performed without prior approval Works Authorisations. Prov Sums used without quotes and Works Authorisations approval	required for Prov Sum items.
7	Accurate and timeous cash flow projections	Cash flow projections prepared by project managers are inaccurate	Project engineers to exercise greater financial diligence in preparation of monthly/annual cash flow projections. Reasons for variance greater than 10% on monthly forecasts to be provided with each payment certificate.
8	OHS legislation	Compliance Risk	Safety audits
9	Equity targets.	Employment Equity targets have not been met	Awareness of economic Empowerment and job creation results should be improved

C4.3.7 Appendices

- Appendix A: Example of Road Marking Condition Report
- Appendix B: Locality Plan
- Appendix C: Occupational Health & Safety
- Appendix D: Integrated Transport Information System
- Appendix E: 2nd Tier Procurement Procedure

APPENDIX A

ROAD MARKING CONDITION REPORT

SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD



Reg.No. 1998/009584/30

**BUILDING SOUTH AFRICA
THROUGH BETTER ROADS**

SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LIMITED

CONTRACT No NRA X.003-072-2023/1S

**FOR CONSULTING ENGINEERING SERVICES FOR THE
SUPERVISION OF THE ROAD MARKINGS IN AMATHOLE, CHRIS
HANI, ALFRED NZO, AND JOE GQABI DISTRICT MUNICIPALITIES**

GENERAL INFORMATION

DATE

REPORT

ISSUED BY:

**THE SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LIMITED
P O BOX 415
PRETORIA
0001**

DISCLAIMER

This report has been compiled by the South African National Roads Agency SOC Limited for the use of its routine road maintenance contracts on the national road network.

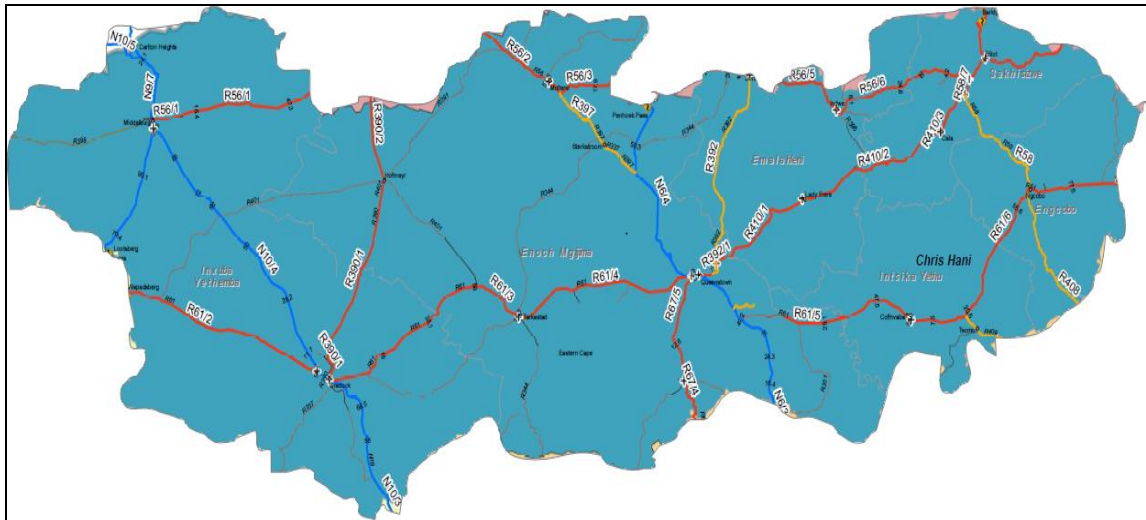
The information provided in this report is based on data which has been collected on ROAD MARKING contracts over the past three years. The South African National Roads Agency SOC Limited takes no responsibility for the accuracy or adequacy of each item, which is offered in good faith.

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LOCALITY PLAN



APPENDIX C

OCCUPATIONAL HEALTH & SAFETY

- E1: Health & Safety Specification for Service Provider during Construction**
- E2: Health & Safety Specification for Contractors during Construction**
- E3: OHS Audit Questionnaire**

THE SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LIMITED

**OCCUPATIONAL HEALTH AND SAFETY
SPECIFICATIONS for SERVICE PROVIDER**

CONTRACT SANRAL X.003-072-2023/1S

**SCOPE OF WORKS: FOR CONSULTING ENGINEERING
SERVICES FOR THE SUPERVISION OF THE ROAD
MARKINGS IN AMATHOLE, CHRIS HANI, ALFRED NZO, AND
JOE GQABI DISTRICT MUNICIPALITIES**

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E1: Health and Safety Specification for Service Provider during Construction

1. NOTE TO CONSULTING ENGINEERS

- a) The Occupational Health and Safety Act, Act 85 of 1993 and its Regulations together with SANS Codes set out minimum standards with regards to Occupational Health and Safety. The South African National Roads Agency SOC Limited (SANRAL), has developed this Occupational Health and Safety Specifications with these minimum standards in mind and in certain stages the requirements of SANRAL exceeds the minimum legal requirements to follow best practices and to ensure a healthy and safe workplace for all.
- b) SANRAL in no way assumes the Consultants legal liabilities and responsibilities. The Consultant is and remains accountable for the quality and execution of his health and safety programme for his employees. This Health and Safety Specification reflects minimum legal and SANRAL requirements and should not be construed as all encompassing.
- c) It is very important for the Consultant to note that when the Consultant carry out any type of construction work, as per the definition, the Consultant will be regarded as a Contractor, as per the definition and must then comply with the requirements of the Construction Regulations and in particular Section 7.
- d) It is realized that the Consultant may have its own Health and Safety Management system and safe work practices. The intention of this Health and Safety Specification is not to change the Consultants Health and Safety management system, but for the Consultant to use its current Health and Safety management system to draw up a project specific Health and Safety plan according to these specifications as well as to legally comply with the Construction Regulations, GNR.84 of 2014.
- e) It is the responsibility of the Consultant to make themselves conversant and comply with the requirements and conditions contained in the various legislation pertaining to their profession and scope of works at all times.
- f) This document is not exhaustive of all duties imposed by the Occupational Health and Safety Act, Act 85 of 1993 and its Regulations, governing the duties and obligations of a Consultant / Designer performing duties in terms of an agreement with the client (SANRAL). These duties are fully described in the Occupational Health and Safety Act, Act 85 of 1993 and its Regulations and it is the duty of every Consultant / Designer to acquaint themselves therewith before commencing work.
- g) Words used herein in the singular shall be deemed to include the plural and male shall include female and vice versa, unless the context otherwise requires.

2. PURPOSE

This document is compiled to ensure that the Professional Consultant are aware of the Occupational Health and Safety requirements when working on a SANRAL contract, as well as to make them aware of their legal liabilities and responsibilities as per the Occupational Health & Safety Act, Act 85 of 1993, and its Regulations.

3. DEFINITIONS AND ABBREVIATIONS

Assessment – An opinion or a judgment about someone or something that has been thought about very carefully.

At-risk behavior – Conduct that unnecessarily increases the likelihood of an injury or incident.

Audit – A systematic and documented review of the effectiveness of implementation of processes, programmes and procedures, based on general process criteria.

Baseline risk assessment – This is the initial assessment of risk in a workplace. It is a broad assessment and includes all activities taking place on site, but does not include risk control measures or safeguards.

CIDB – Construction Industry Development Board

Client – Any organization or person for whom construction work is performed. For the purpose of this document, the client is the South African National Roads Agency SOC Limited.

Communicate – The process of two way dialogue which is understood by both parties.

Competence – A combination of attributes such as knowledge, training, experience and qualifications to assure successful performance.

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

Consequence – Outcome or impact of an event.

Continual Improvement – A recurring process of enhancing performance to achieve consistent improvements in overall performance.

Contractor – An employer as defined in section 1 of the OHS Act, who performs construction work

Construction Work – According to the Construction Regulations, any work in connection with:

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

Corrective Action – An action taken to eliminate the cause of a detected non-conformity or other undesirable situation.

Construction Regulations (CR) – Construction Regulations, GNR. 84 of 2014

Contractor – An employer who performs construction work.

Critical equipment – A piece of equipment or a structure whose failure to perform to design specification, has the potential to result in a major accident event.

Design – in relation to any structure, includes drawings, calculations, design details and specifications.

Designer –

- a) competent person who:
 - Prepares a design
 - Checks and approves a design
 - Arranges for a person at work under his or her control to prepare a design, including an employee of that person where he or she is the employer; or
 - Designs temporary work, including its components
- b) an architect or engineer contributing to, or having overall responsibility for a design
- c) a building services engineer designing details for fixed plant
- d) a surveyor specifying articles or drawing up specifications;
- e) a contractor carrying out design work as part of a design and building project; or
- f) an interior designer, shop fitter or landscape architect

DMR – Driven Machinery Regulations, GNR. 295 of 26 February 1988

Documents – Structured units of recorded information and its supporting medium (paper or electronic). Most records are documents, but not all documents are records. A document becomes a record when it is part of a business transaction, is kept as evidence of that transaction and is managed within a record-keeping system.

EIR – Electrical Installation Regulations, GNR. 242 of 6 March 2009

Emergency – An abnormal occurrence that pose a threat to the safety or health of employees, customers, or local communities, or which can cause damage to assets or the environment.

Employee – An individual who is employed by or works for an Employer and who receives or is entitled to receive any remuneration or who works under the direction or supervision of an employer or any other person.

Employer – Any person who employs or provides work for any person and remunerates that person or expressly or tacitly undertakes to remunerates him, but excludes a labour broker as defined in section 1(1) of the Labour Relations Act, 1956 (Act No. 28 of 1956). For the purpose of this document, the employer is the South African National Roads Agency SOC Limited.

EMR – Electrical Machinery Regulations, GNR. 250 of 25 March 2011

Environment – The surroundings or conditions in which a person, animal or plant lives or operates, including air, water, land, natural resources and habitats.

Excavation work – The making of any man-made cavity, trench, pit or depression formed by cutting, digging or scooping

GAR – General Administrative Regulations, GNR. 929 of 25 June 2003

GMR – General Machinery Regulations, GNR. 1521 of 5 August 1988

GSR – General Safety Regulations, GNR. 1031 of 30 May 1986

Harm – A significant and or long lasting adverse effect on people, the environment or the community.

Hazard – A source, situation or act with a potential for harm in terms of human injury or ill health.

Health and Safety File – Means a file, or other record in permanent form, containing the information in writing as required by the Construction Regulations, GNR. 84 of 7 February 2014, Section 7(1)(b).

Health and Safety Plan – Means a project specific documented plan in accordance with the client's health and safety specifications, as required by the Construction Regulations, GNR. 84 of 7 February 2014, Section 7(1)(a).

Health and Safety Specification – Means a project specific document prepared by the client pertaining to all health and safety requirements related to construction work, as required by the Construction Regulations, GNR. 84 of 7 February 2014, Section 5(1)(b).

HSE – Health, Safety and Environment. Commonly used in the format HSE.

Incident – Work-related events (including accidents which give rise to injury, ill health, fatality or emergencies) that have resulted in, or has the potential to result in adverse consequences to people, the environment, property, reputation or a combination of these.

Likelihood – A description of probability or frequency, in relation to the chance that something will occur.

Lost Time Injury (LTI) – When a person is injured during the execution of his/her duties and as a result of the injury is unable to perform his/her regular duties for one full shift or more on the day following the day on which the injury has incurred, whether a scheduled work day or not(weekend).

Management System – Management processes and documentation that collectively provide a systematic framework for ensuring that tasks are performed safely, correctly, consistently and effectively to achieve a specified outcome and to drive continual improvement in performance.

Mandatory – An agent, contractor or sub-contractor for work, but without derogating from his status in his own right as an employer or a user.

MSDS – Material Safety Data Sheet

Near Hit / Near Miss – Any occurrence or situation which had the potential for adverse consequences to people, the environment, property, reputation or a combination of these.

Non-conformance – Any deviation from work standards, practices, procedures, regulations that could either directly or indirectly lead to injury or illness, property damage, damage to the environment or a combination of these.

OHS Act – Occupational Health & Safety Act, 85 of 1993

Policy – Statement by an organization of its intentions and principles in relation to its overall performance which provides a framework for action and for the setting of its objectives and targets.

PPE – Personal Protective Equipment

Preventive Action – An action implemented to eliminate the cause of a potential non-conformity or other undesirable potential situation.

Principal Contractor – An employer appointed by the client to perform construction work and who is in overall control and management of a part of or the whole construction site.

Procedure – A specific documented way to carry out an activity or a process.

Records – Recorded information, in any form that is kept as evidence. Records include monitoring results, evidence of training, audits, inspections and calibration reports.

Risk Assessment – A process of evaluating the risk(s) arising from hazards taking into account the adequacy of any existing controls and deciding whether or not the risk(s) is acceptable.

Risk Management – The ongoing treatment of risks through the application of management policies, processes, procedures and risk control measures.

Risk – A combination of the likelihood of an occurrence of a hazardous event or exposure and the severity of injury or ill health that can be caused by the event or exposure.

Root Cause – The cause of the incident that, when rectified, will prevent the recurrence of not just incidents with those exact circumstances, but others with similar causes.

SACPCMP – South African Council for Project and Construction Management Professions

SANRAL - South African National Roads Agency SOC Limited

Supplier – A person or company that supplies material or equipment to a contractor on a construction site, but does not physically carry out construction work on the construction site.

The Act – The Occupational Health and Safety Act No. 85 of 1993

The Site – The area where work is carried out for SANRAL as defined on the front page of this document.

WAH – Acronym for Working at Heights

4. HEALTH AND SAFETY POLICY

Consultants are expected to have their own written Health and Safety Policy. The policy should declare their attitude and approach to the health, safety and welfare of their employees and others. Provision must be made to review the policy annually and the CEO or Managing Director must sign and date the policy to indicate his commitment to ensuring the health and safety of his employees.

5. ROLES & RESPONSIBILITIES

Every Consultant is considered to be an employer in his own right and shall comply with all legal requirements pertaining to an employer, which include the responsibility to provide as far as reasonably practicable a safe and healthy working environment for his employees, as per Section 8 of the OHS Act.

In conjunction with Section 8 of the OHS Act, all employees on the project are responsible for their own safety as well as the safety of persons who may be affected by their acts, as per Section 14 of the OHS Act. It is the responsibility of each employee to ensure that he acts in a safe manner before, during and after work is carried out.

The consultant shall ensure that where required by the OHS Act and Regulations, competent employees are appointed in writing. These appointments must be project / contract specific and specific to the tasks that will be performed. Every appointment must display the duties of the person appointed and training certificates from a registered training provider must be attached to such appointment (where applicable).

6. HSE TRAINING AND COMPETENCE

Where appropriate qualifications and training are registered in terms of the provisions of the National Qualifications Framework Act, 2000 (Act No. 67 of 2000), those qualifications and training must be regarded as the required qualifications and training and employees must have attended courses of the aforementioned nature to be considered competent in the task.

All employees that forms part of the construction work must be trained and competent. Employees formally appointed to perform a certain duty must be in possession of a training certificate, received from a registered training provider. All consultant employees must as a minimum have received site specific safety induction training as well as task specific risk assessment training from the Principal Contractor.

Training Needs – There shall be a system in place to determine the training requirements of each individual, based on the tasks that the employee will perform as well as to ensure the health and safety of fellow employees and the public. Special attention should be given to employees who are new hires, new to the task or have combined responsibilities.

Basic Safe Work Training (Induction Training) – Every Consultant shall ensure that his employees are inducted into his own company Health and Safety System and must ensure that his employees receive site specific safety induction and task specific risk assessment training from the Principal Contractor. The Consultant must have evidence that his employees have been trained on the relevant procedures prior to and during the project duration.

Formal Training – All qualifications for which there are SAQA registered training courses, must be regarded as the minimum required qualifications and training. To be deemed “competent” an employee must have received training at a registered training provider, the training course must be registered and if there is an assessment, the employee must have been found competent after the assessment. A person cannot be deemed competent after awareness training only.

The Consultant shall ensure that his employees, have received appropriate training for the type of work that will be performed, e.g. Working at Heights, Risk Assessment training etc.

Records – Record of all training shall be kept by the Consultant and shall be readily available. Records shall make provision for refresher training where applicable. Where an employee is legally appointed with certain duties and responsibilities a copy of the training certificate must be attached to the appointment.

7. NOTIFICATION OF CONSTRUCTION WORK

Construction Regulation, 2014 Section 4 requires that the provincial director of the Department of Labour is notified at least 7 days prior to the execution of excavation work, elevated work where there is a risk of falling (working at heights), demolition work or work where explosives are used. Therefore, if the Consultant needs to e.g. dig test pits, or do a bridge inspection and the risk of falling exists, the Consultant needs to notify the provincial director in writing on a form similar to Annexure 2 in the Construction Regulations

8. DUTIES

The Consultant is the Designer of the structures to be build. As a Designer, the Consultant need to comply and adhere to the requirements of Section 6 of the Construction Regulations. The Consultant

needs to take health and safety into consideration when designing the structure as well as for future maintenance on the structure.

When the Consultant carry out any type of construction work, as per the definition, the Consultant will be regarded as a Contractor, as per the definition, and must then comply with the requirements of the Construction Regulations and in particular Section 7.

The Consultant is the Clients managing agent, who will manage the construction work on behalf of the client.

9. DESIGNING FOR HEALTH, SAFETY AND THE ENVIRONMENT

Designing for safety is a process aimed at minimizing injury, death, property damage or destruction and harm to the environment, by utilizing an approach to identify and eliminate or control hazardous areas. The Consultant / Designer must implement a process that ensures safety is incorporated in the design process, which includes temporary works as contemplated in the Construction Regulations, 2014 Section 12.

The Consultant must communicate the anticipated risks and hazards resulting from the design to the Client and the Client Construction Health and Safety Agent who will ensure that such anticipated risks and hazards reflects in the tender documentation for Contractors.

10. MANAGEMENT AND SUPERVISION

The Consultant will manage the construction project on behalf of SANRAL and must ensure that the construction work is carried out safely and legal compliance is adhered to at all times. As the managing agent, the Consultant must appoint a competent person in writing as agent to act as the Clients representative in terms of health and safety on the project.

11. RISK MANAGEMENT

When the Consultant carry out any type of construction work, Section 9 of the Construction Regulations must be adhered to. A formal risk-based approach must be followed to ensure hazard control measures are implemented to an acceptable reasonable practical level. The Consultant and his employees shall be responsible to ensure all hazards pertaining to his scope of activity are proactively identified, the risks assessed and appropriately eliminated or minimized and managed on an ongoing basis. Risk assessments shall also identify possible and potential environmental, health and hygiene issues pertaining to each hazard with potential exposures and limits.

a) Hazard Identification and Risk Assessment (Construction Regulation 9)

i. Development of Risk Assessments

The Consultant shall, before carrying out any type of construction work and during such work, conduct a risk assessment by a competent person, appointed in writing. The baseline risk assessment as provided by the client may be used to draw up a in-depth task specific risk assessment that can be used on site. Please note that the risk assessment must be site specific.

The risk assessment shall include, as far as is reasonably practicable, at least:

- The task and task step
- the identification of the risks and hazards to which persons may be exposed to during the task or task step;
- the analysis and evaluation of the risks and hazards identified, inclusive of a residual risk rating methodology. The method to be used is not prescribed;
- a documented plan of safe work procedures, to mitigate, reduce or control those residual risks that have been identified as unacceptably high, by means of the rating system;
- a monitoring plan;
- a review plan, inclusive of dates to be adhered to; and

- ergonomic related risks are to be analysed, evaluated and addressed as part of the process.

b) Risk Assessment Monitoring

The Consultant shall ensure that a monitoring plan for all risk assessments are in place. Risk assessments must be monitored to ensure effectiveness and employee understanding. The monitoring of risk assessments shall be formal and records thereof shall be available for audit purposes.

c) Review of Risk Assessment

The Consultant shall review the hazard identification, risk assessments and standard safe working procedures prior to any construction related work activity and shall ensure that the risk assessment is site specific.

Activities carried out without conducting a risk assessment or found to be non-compliant with the risk assessment, will be stopped until such time a risk assessment is compiled and work is carried out according to the risk assessment.

Risk assessments must be fully communicated to all relevant personnel and must be considered when establishing training, awareness and competency requirements.

11.1 Baseline Risk Assessment

Based on the baseline risk assessment as per 20.1 below, SANRAL has developed this health and safety specification which shall act as a set of OH&S rules that shall be applied to regulate the OH&S aspects of the Consultants construction work to be carried out. The baseline risk assessment must be used by the Consultant to develop task specific risk assessments before any construction related work commences.

The Baseline Risk Assessment will not identify risks or control measures, this must be identified by Consultant when preparing the Issue Based Risk Assessments. The Baseline Risk Assessment will highlight all work for which the Consultant must prepare safe work procedures and or work method statements.

11.2 Continuous Risk Assessment

The Consultant shall continuously assess the risks of the activities that are carried out. Risk assessments must be in writing, site specific and must be reviewed continuously to ensure it is current and it address all the relevant hazards and risks associated with the specific activity at the specific site.

The Risk assessment must be discussed with the whole work crew before the activity starts and the work crew must acknowledge in writing having discussed the risk assessment and that they understand it. This acknowledgement must be on site and must be available to the client for audit purposes.

12. LEGAL COMPLIANCE & DOCUMENT CONTROL

The Consultant is required to implement systems and procedures to ensure legal compliance through:

- Identification of all relevant HSE legislation, standards and codes applicable to its operations.
- Have available copies of all relevant HSE legislation, standards and codes for reference purposes.
- Update legislation, standards and codes with any changes
- Communicate to all employees any changes that may affect their accountabilities and conformance
- Incorporate any legal requirements into their HSE management system and designs.
- Monitor and review their HSE management system for effectiveness.

The Consultant shall, as a minimum, comply with:

- The Occupational Health and Safety Act and Regulations (Act 85 of 1993), an up-to-date copy of which shall be available on site at all times.

- The Compensation for Occupational Injuries and Diseases Act (Act 130 of 1993), an up-to-date copy of which shall be available on site at all times.
- Where work is being carried out on a “mine”, the Consultant shall comply with the Mines Health and Safety Act and Regulations (Act 29 of 1960) and any other OH&S requirements that the mine may specify. An up-to-date copy of the Mines Health and Safety Act and Regulations shall be available on site at all times.

Wherever in the Construction Regulations or this specification there is reference to other regulations (e.g. Construction Regulation 24: Electrical Installations and Machinery on Construction Sites) the Consultant shall be conversant with and shall comply with these regulations.

12.1 Legal Appointments

All legal appointments of the Consultant regarding the Health and Safety of his employees who are to carry out construction work on the project are addressed and governed by the OHS Act and applicable Regulations.

i. Overall Supervision and Responsibility for OH&S

The client will appoint the Consultant who shall be the managing agent of the client on the project once construction works start. A Mandatory agreement as per Section 37.2 of the OHS Act, shall be signed between the client and the Consultant.

It is a requirement that the Consultant, when he appoints sub service providers, includes a Mandatory agreement in his agreement with such sub service providers

ii. Specific Supervision Responsibilities for OH&S

The Consultant shall appoint designated competent employees and/or other competent persons as required by the OHS Act and Regulations, as well as this specification. Appointments shall be in writing and the responsibilities clearly stated together with the period for which the appointment is made. This information shall be communicated to and agreed with the appointees. Where applicable, the training certificate must be attached to the appointment. Notice of appointments shall be submitted to the Employer. All changes shall also be communicated to the Employer.

Below is a list of possible appointments for the project, which is not an all-inclusive list, but for reference purposes only:

Appointment	Legal Reference
Assistant to CEO	OHS Act 16(2)
Construction Health & Safety Agent	CR 5(5)(6)
Risk Assessor	CR 9(1)
Fall Protection Plan Developer	CR 10(1)(a)
Structure Inspector	CR 11(2)(a)
Temporary Works Designer	CR 12(1)
Excavation Supervisor	CR 13(1)(a)
Incident investigator	GAR 9(2)
Ladder inspector	GSR 13(a)
First Aider GSR	GSR 3(4)

13. OPERATIONAL INTEGRITY

The operational integrity of plant, equipment, structures and protective systems must be monitored and assured on an ongoing basis throughout the project cycle. Hazards must be identified, assessed and as far as reasonably practicable, eliminated or the risks treated to as low as reasonable practicable (ALARP).

13.1 Plant & Equipment Integrity

13.1.1 Construction Plant & Equipment

The Consultant shall maintain all his items of plant and equipment necessary to perform the required construction work in a safe condition.

The client reserves the right to inspect items of plant and equipment brought to site and used on site by the consultant. Should it be found that any item is inadequate, faulty, unsafe or in any other way unsuitable for the safe and satisfactory execution of the work for which it is intended, the consultant will be advised of such observation / inspection, and the Consultant shall be required to repair, make safe or remove such item from operation and replace it with a safe and adequate substitute.

The Consultant shall ensure that all plant, equipment, and power tools that he brings onto and use on site for construction work purposes are:

- Appropriate for the type of work to be performed
- Placed on a register and inspected by a competent person or the authorized operator before use, daily or monthly dependent on Legislation and project requirements.
- Record inspection findings on a register that must be kept on site.
- The inspection register shall reflect the serial number of the plant, equipment or power tool.
- Maintained and used in accordance with the manufacturers recommendations
- Have adequate machine guarding fitted to all exposed rotating or moving parts, as reasonably practicable, that have the potential to cause harm
- All electrical power supply units are protected with operational earth leakage devices.
- Any defective, damaged or sub-standard equipment must be marked as unsafe for use and removed from operation as soon as possible

13.1.2 Standards and Registers

For construction work purposes, the Consultant is expected to:

- Set up an initial set of registers as per the requirements of the OHS Act and Regulations.
- Complete the registers for each piece of plant, tool and equipment brought on and used on site by the Consultant or his employees.
- Maintain a complete, continuous and comprehensive inspection and service history in these registers or checklists
- Ensure daily, weekly, monthly inspections are done and recorded for all plant, tools & equipment by a competent person as required by the OHS Act and Regulations.

14. OCCUPATION HEALTH & HYGIENE

14.1 Medical Fitness for Duty

All Consultant employees that carry out construction work activities, shall undergo medical examinations and be certified fit for duty by an Occupational Health Practitioner before they are allowed to work on site.

The medical certificate must be in the form of Annexure 3 of the Construction Regulations and stipulate the possible exposures the employee might be exposed to during the execution of the construction work.

It is recommended and in the best interest of the Consultant to implement pre-employment as well as exit medical surveillance, especially with regards to Section 8 of the Noise Induced Hearing Loss Regulation.

14.2 First Aid

According to GSR 3(4), where more than 10 employees are employed at a workplace / worksite, the Consultant shall ensure that there is at least one trained first aider for every group of 50 employees at the workplace / site. First Aid boxes must be provided where more than 5 employees are employed and must be readily available and accessible for the treatment of injured persons at the workplace.

To ensure immediate treatment of an injured person, it is recommended that all work crews have at least one trained first aider, with a fully stocked first aid box, irrespective of the number of people in the work crew. This is especially important when Consultants work at great distances from the nearest emergency facility or town. These persons shall be appointed in writing as the first aiders with their certificates attached as proof of competency.

The minimum contents of the first aid box shall be as per the supplied list in the General Safety Regulations.

All treatments done must be recorded on a register and kept with the first aid box. A trained and appointed first aider must be responsible for the first aid box and its content. Used content must be replenished as soon as possible.

In order to ensure prompt response at the emergency facility it is recommended that the W.Cl 2 forms be partially completed with the employers' details, for medical treatment cases.

14.3 Workers Compensation Registration

The Consultant shall ensure that his employees are covered for any occupational injuries and illnesses in terms of the Occupational Injuries and Diseases Act 130 of 1993, which cover shall remain in place and up to date for the duration of the project.

14.4 Hygiene Facilities

The Consultant shall ensure compliance to Section 30 of the Construction Regulations with regards to facilities on the construction site as well as where accommodation is provided to employees on remote sites. The Consultant shall ensure that the facilities are kept clean at all times, either through a service provider or self-employed persons.

14.5 Health related Epidemics and Pandemics

The Service Provider shall, ensure that the requirements stipulated in the Hazardous Biological Agents (HBA) Regulation are adhered to and in particular the following as described in the mentioned Regulation:

- Information and training of employees
- Duties of person that may be exposed to HBA's
- Risk Assessments by the employer (Service Provider)
- Monitoring exposure at the workplace
- Medical surveillance of employees
- Keeping of records
- Control of Exposure to HBA's
- Personal Protective Equipment and facilities
- Maintenance of control measures and facilities
- Prohibitions

15. WASTE MANAGEMENT

The Consultant shall comply with all applicable and relevant Waste management legislation, as well as municipal bylaws applicable to waste management.

It is recommended that the Consultant have a waste management plan which must be implemented on the construction site and which will have the objective to ensure that waste is managed according to the Waste Management Hierarchy:

- Reduce what you can. If you cannot reduce then,
- Re-use what you can. If you cannot re-use then,
- Recycle what you can. What you cannot recycle,
- Convert into energy sources. If it cannot be converted to an energy source,

- Dispose of in a landfill – this is only to be done as a last resort and disposed without endangering human health and without using processes or methods which could harm the environment.

16. HAZARDOUS SUBSTANCE MANAGEMENT

The Consultant shall ensure that hazardous substances brought onto site are easily identifiable and stored according to the requirements of the General Safety Regulations, GNR. 1031 of 1986, Section 4.

Where flammable liquids are being used or stored, this must be done in a manner which would not cause a fire or explosion hazard.

The Consultant shall have Material Safety Data Sheets (MSDS) readily available for flammable, hazardous and toxic chemical substances and materials brought onto site and shall ensure that his employees are trained in these MSDS's.

Flammable, hazardous or toxic chemical substances may not be stored in empty food or drink containers. Empty flammable, hazardous and toxic containers must be disposed of in a safe manner, which will prevent further use of such a container.

Asbestos

A survey of the construction site must be done during site establishment, to locate any asbestos. Should asbestos be located, the conditions of the Asbestos Regulations, GNR. 155 of 2002 must be followed and complied with.

17. OPERATIONAL PROCEDURES

Each construction activity shall be assessed by the Consultant so as to identify operational procedures that will mitigate against the occurrence of an incident during the execution of each activity. This specification requires the Consultant:

- to be conversant with all relevant Regulations;
- to comply with their provisions;
- to include them in his OH&S plan where relevant

18. HSE NON-COMPLIANCE

The Client has a legal duty in terms of Construction Regulation 5(1)(q) to stop any unsafe work on the construction site. Any unsafe construction related activity that the Consultant performs will be stopped until such time as the Consultant has rectified the non-compliance or unsafe act/condition.

The Consultant as managing agent for the Client has a legal duty according to the Construction Regulation 5(1)(q) to stop a contractor from executing any activity which poses a threat to the health and safety of persons. Depending on the seriousness of the non-compliance only the specific activity may be stopped until the non-compliance is rectified or the whole operation may be stopped.

It is also the duty of every employee to take reasonable care of his own health and safety and of other persons who may be affected by his acts as per OHS Act, Section 14(a). Keeping this in mind, it is required of the Consultant to ensure his employees has the right to remove themselves from any unsafe situation or work activity, without any negative consequence to them until such time as the Consultant has made the unsafe situation or activity as safe as practicable possible.

18.1 Contracting Philosophy

Any site specific hazards and safety management expectations will be made known to the Consultant prior to the work commencing on site. Legal OHS requirements contained in the OHS Act and Regulations as well as SANS Codes are the minimum requirements the Consultant must apply during this contract with regards to Occupational Health and Safety. The Consultant shall apply, implement and enforce the minimum OHS Act & Regulations and SANS Codes requirements.

18.2 Indemnity by Consultant

The Consultant shall indemnify the Employer against and from all damages, losses and expenses (including legal fees and expenses) resulting from:

- (a) the loss of output and delay caused by the slowing down or partial or total stoppage of work caused by:
 - i. Unsafe acts caused by all or any of the Consultants employees;
 - ii. Unsafe conditions which resulted from the failure to carry out any legal obligation by all or any of the Consultants employees;
- (b) any unlawful, riotous or disorderly conduct by or amongst the Consultants employees.

18.3 Consultant Conduct

Guidelines to the most important rules that shall be implemented and maintained by the Consultant:

- Complete compliance to the OH&S Act and Regulations
- Hazard identification and Risk Assessments for all construction related activities
- DSTI talk before construction work commences
- Safe access and egress to and from work areas.
- Compulsory use of lifelines, Safety Harnesses and Fall Arrestors (Lanyards to be attached at all times) when working in elevated positions
- Good housekeeping
- Securing of tools, equipment and material at heights
- Wearing of appropriate personal protective equipment as identified in the risk assessment

Personal Conduct

No person shall act in a manner that endangers or is likely to endanger, the safety of any other person, or cause harm to any other person.

An employee who observes any dangerous situation, shall as soon as possible inform the person who is responsible for that section of the site.

Any employee who becomes aware of any person disregarding any safety rules, shall remind that person of the rules. If he persists in disregarding the rules, the matter must be reported to his supervisor.

No person shall damage, alter, remove, render ineffective or interfere with anything that has been provided for the protection of the site, or for the health and safety of persons.

No person shall interfere with or use firefighting equipment without authority and training.

No person in a state of intoxication or condition that render him incapable of controlling himself shall enter or be allowed to enter the site.

No alcohol or illegal drugs shall be taken onto the site.

All safety and warning signs shall be obeyed.

Always be alert of construction vehicles as well as traffic. Never turn your back to oncoming traffic or construction vehicles / mobile plant, always have a line of sight.

18.4 Sub Service Providers

The Consultant shall establish, maintain and ensure that all his Sub Service Providers establish and maintain HSE standards and systems as necessary and to comply with the Legal requirements as well as these HSE specifications.

18.5 Public Health and Safety

The Consultant shall, as far as is reasonably practicable, be responsible for ensuring that non-employees affected by the construction work are made aware of the dangers likely to arise from said construction work as well as the precautionary measures to be observed to avoid or minimise those

dangers. During the construction phase of the project, this can be done through the Principal Contractors HSE Officer.

This includes:

- Non-employees entering the site for whatever reason
- The surrounding community
- Passers-by to the site

19. INCIDENT MANAGEMENT

The Consultant shall ensure that a culture exists within his company that promotes the recognition, response, reporting and investigation of incidents, including near misses (near hits). The Consultant must implement a procedure for reporting and investigating accidents, incidents and near misses as prescribed in the General Administrative Regulation, Section 8. The Consultant should have a clear objective and target to obtain zero injuries for the duration of the project and such an objective must be communicated to all employees.

Appropriate corrective actions must be implemented and the applicable learnings must be shared within the Consultants business to prevent a recurrence of the incident or to prevent the minor incidents from becoming serious incidents in future.

19.1 Incidents and Accidents

The Consultant shall investigate all accidents/incidents where employees were injured to the extent that he had to be referred for medical treatment by a doctor, hospital or clinic. The results of the investigation shall be entered into an accident/incident register, which must be updated with each accident/incident.

The Consultant shall notify the relevant SANRAL Project Manager and or SANRAL OHS Specialist of any incident / accident within the Consultants area of responsibility in writing as soon as possible.

Although the accident / incident is reported to the client, the Consultant has a responsibility and is required by law to report any Section 24 accidents and incidents to the Department of Labour. Any road traffic accident must be reported to the relevant authorities.

It is essential that the Consultant demonstrate that corrective and preventative action has been taken to prevent a similar incident in future and that it is communicated to all affected employees. A copy of the investigation, corrective and preventative action taken as well as the attendance register of the employees who attended the discussion of the incident and the action implemented to prevent a similar incident, must be forwarded to the SANRAL Project Manager and or the SANRAL OHS Specialist.

In addition to medical treatment cases it is recommended that Near Miss incidents and First Aid cases are also investigated to establish root causes and implement preventative measures.

20. PROJECT SPECIFIC CONSTRUCTION REQUIREMENTS

20.1 Baseline Risk Assessment

The following is a list of risks identified which forms the Baseline Risk Assessment for the project prepared by the Client in terms of Construction Regulation 5(1)(a):

Risks in connection with:

- Working in elevated positions (e.g. Bridge Inspections)
- Working over water environments (e.g. Bridge Inspections)
- Excavation – locating existing underground services, digging test pits
- Manual handling – setting up surveying equipment
- Ergonomic risks
- High & Low voltage power lines – overhead & underground
- Work in close proximity to railway lines
- Uneven ground surfaces
- Personal safety & security risks
- Traffic Control (Ensure Correct Signage at Correct Distances)
- Working from ladders

- Exposure to noise
- Working in close proximity to traffic
- Working with hot materials
- Radio Active equipment
- Hazardous Chemical Substances
- Flammable Materials
- Driving to and from site
- Biological risks e.g. bees, snakes, spiders, etc.
- Environmental risks
 - Bad weather conditions,
 - rain,
 - lightning,
 - wind,
 - poor visibility
 - heat exposure – dehydration
 - cold environments

During the construction phase of the project, the employees of the Consultant must be inducted and trained on the risk assessments and Safe Operating Procedures of the Principal Contractor before entering the site and record of such induction / training must be kept on file, e.g.

- Work in close proximity of Mobile Plant (e.g. Bomag Roller, Pneumatic roller, etc)
- Falling Objects
- Suspended Loads
- Crane Operations
- Asphaltting

20.2 Site Attendance Register

All site visitors shall report to security / reception upon arrival at site. All visitors need to sign an attendance register when visiting the site. Visitors include all persons which are not permanently working on the site, but excludes temporary site workers. Visitors must undergo site induction training before they are allowed on site to make them aware of the site dangers. During the construction stage of the project, the HSE Officer of the Principal Contractor should conduct the site induction with visitors before they are allowed on the construction site.

20.3 Personal Protective Equipment

Comply with General Safety Regulations, Section 2

The Consultant shall identify the hazards in the workplace and remove them or, where impracticable, take steps to protect employees and make it possible for them to work safely and without risk to health under the hazardous conditions.

Personal protective equipment (PPE) should, however, be the last resort. The hierarchy of hazard elimination must be followed before the option of personal protective equipment is considered. The following hierarchy of controls must be followed:

- Elimination
- Passive Controls
 - Substitution – Using a cherry picker or man-lift instead of a ladder.
 - Engineering Controls – Installing barrier railings; Installing stairs instead of using vertical ladders.
- Active Controls
 - Administrative policies and procedures
 - Personal protective equipment

Where it is not possible to create an absolutely safe and healthy workplace the Consultant shall inform employees regarding this and issue, free of charge, suitable equipment to protect them from any hazards being present and that allows them to work safely and without risk to health in the hazardous environment.

It is a further requirement that the Consultant maintain the said equipment, that he instructs and trains the employees in the use of the equipment and ensures that the prescribed equipment is used by the employee/s.

Employees do not have the right to refuse the use/wear of the equipment prescribed by the Employer and, if it is impossible for an employee to use or wear prescribed protective equipment through health or any other reason, the employee cannot be allowed to continue working under the hazardous condition/s for which the equipment was prescribed but an alternative solution has to be found that may include relocating the employee.

The Consultant shall ensure that all his personnel, excluding those who are permanently office bound, are equipped with reflective safety jackets and that these are worn at all times when working on site. Any person found not wearing a reflective jacket on site must be removed from the site until such time as he is in possession of and wearing a reflective jacket. Reflective safety jackets shall be kept in good condition and any jackets that are ineffective must immediately be replaced by the Consultant.

20.4 Site Security

Certain areas where work must be carried out, is recognized unsafe areas and certain other areas may from time to time become unsafe, due to 3rd party actions. The Consultant must as far as reasonably possible anticipate unsafe areas and must ensure that his site staff is safe from 3rd party actions, which include but is not limited to:

- Unrests,
- Violent Demonstrations,
- Theft,
- Injury from 3rd parties at all times.

The Consultant must, when work is to be carried out in the above-mentioned areas, make provision for security services to accompany site staff during the execution of their work, as the Consultant is responsible for the Health, Safety and Security of his own staff. The provision for security services must form part of the Consultants tender.

20.5 Working in Elevated Positions

Comply with Construction Regulation, Section 10

The Consultant shall ensure that a fall protection plan, developed by a competent person who is designated as the Fall Protection Plan Developer, is available on site and understood by all employees who will be working in elevated positions.

All employees working in elevated positions shall protect themselves from falls by wearing a full body harness and the lanyard shall be attached as far as possible above the head of the employee to a life line or other approved and tested anchor point.

In addition to obvious elevated work activities, work activities which include:

- Working on the edge of an excavation where there is a risk of falling into the excavation;
- Work on the edge of a vertical drop where there is a risk of falling;
- Work on top of trucks and tanks;

Shall be considered work in elevated positions and Section 10 of the Construction Regulations must be adhered to at all times. The hierarchy of controls must be implemented when such activities are carried out. As a minimum the employee must wear PPE, which shall include a full body harness attached to a restraint.

Only suitable ladders that have been inspected and has been certified "safe for use" may be used for elevated work. The top two rungs on the ladder may not be used for elevation, as this will render the ladder unstable. A second person should hold the ladder stable whenever working from it.

20.6 Excavations

Comply with Construction Regulations, Section 13

The Consultant shall ensure that all excavations are carried out under the supervision of a competent person who has been appointed in writing as Excavation Supervisor.

The Consultant must evaluate the stability of the ground before excavation work begins as well as during excavation work.

Excavations must be barricaded to prevent unauthorized access.

Material removed from excavations, as well as heavy machinery and construction vehicles, must not be closer than 1 meter of the edge of the excavation, to prevent additional loads on the excavation edge, which could cause cave-ins, to prevent construction vehicles from falling into the excavation and to prevent the accumulation of carbon monoxide gas inside the excavation.

People working in the excavation must be adequately protected from cave-ins, by means of protection systems such as shoring and bracing and must have a safe means of access into the excavation and egress from the excavation.

20.7 Construction Vehicles

Comply with Construction Regulation, Section 23, National Road Traffic Act, 1996

Construction vehicle operators must have received training to operate the class of construction vehicle or mobile plant and must be in possession of an operator's card as proof of competency. Construction vehicle operators must be authorised in writing and have a medical certificate of fitness issued by an occupational health practitioner to operate the construction vehicle and/or mobile plant.

20.8 Electrical Equipment

Comply with Construction Regulations, Section 24

The Consultant shall take adequate steps to ascertain the presence of and guard against danger to workers from electrical cables or apparatus which is under, over or on the site.

The exact location of underground electric power cables must be determined before any excavators are used for excavation purposes.

The location of overhead electrical cables must be assessed when working with equipment that has booms that can extend. Injury may be possible from touching the electrical cables with the equipment boom, or from arching when the equipment boom comes too close to the electrical cable.

Electrical machinery and extension cords must be in a serviceable condition and must be inspected before use on the construction site by the authorised operator and the inspection checklist must be kept on the construction site.

20.9 Temporary Storage of Flammable Liquids

Comply with Construction Regulation, Section 25 and General Safety Regulations, Section 4

The Consultant must ensure storage areas of flammable liquids are well ventilated and "No Smoking" signs are placed at the entrances and ventilation ducts of the storage areas. Firefighting equipment must be available in suitable positions around the storage areas.

The Consultant must ensure that good housekeeping is practiced in and around the flammable storage areas.

20.10 Water Environments

Comply with Construction Regulation, Section 26

The Consultant must ensure that a lifejacket forms part of the employees PPE and is worn when the employee is exposed to the risk of drowning, by falling into water.

The risk assessment must make provision for the rescuing of persons in danger of drowning and for preventing employees from falling into the water.

When working over water environments, Section 10 of the Construction Regulations – Fall Protection will also apply.

20.11 Manual Handling / Ergonomic Risks

The Consultant must ensure that the health of his employees are not affected through the handling of heavy equipment and safe lifting techniques are applied by his employees. Manual handling and

ergonomic risks must be included in the risk assessments of the Consultant and employees must be aware of it and trained in it.

20.12 Traffic Control

When the Consultant carries out construction related activities on site, during the design stage of the project, sufficient and adequate traffic control must be implemented. Traffic control signage must be displayed and employees must be aware of approaching traffic, facing oncoming traffic at all times.

20.13 Radioactive Equipment

The Consultant, when working with radioactive equipment, must ensure that all appropriate safety measure are implemented, employees are made aware of the dangers of the equipment and the equipment is used according to the manufacturer's instructions.

20.14 Intoxicating Liquor and Drugs

Comply with General Safety Regulations, Section 2A

The site limit for intoxication is set to zero to complement a vision of zero tolerance

Any person found to be intoxicated, or consuming intoxicating liquor or illegal drugs, must not be allowed onto the premises and/or must be removed from the premises.

The Consultant has the right to test any person entering the premises for intoxicating liquor or illegal drugs and may refuse entrance on the basis of the outcome of the test.

The Consultant shall ensure that employees taking prescription medicine informs the Consultant of such and shall ensure that the side effect of such medicine does not constitute a hazard to the employee himself or people working in close proximity to the employee.

THE SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LIMITED

OCCUPATIONAL HEALTH AND SAFETY SPECIFICATIONS

CONTRACT SANRAL X.003-072-2023/1S

**SCOPE OF WORKS: FOR CONSULTING ENGINEERING
SERVICES FOR THE SUPERVISION OF THE ROAD
MARKINGS IN AMATHOLE, CHRIS HANI, ALFRED NZO, AND
JOE GQABI DISTRICT MUNICIPALITIES**

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1. NOTE TO PRINCIPAL CONTRACTORS AND CONTRACTORS

The Occupational Health and Safety Act, Act 85 of 1993 and its Regulations together with SANS Codes set out minimum standards with regards to Occupational Health and Safety. The South African National Roads Agency SOC Limited (SANRAL), has developed this Occupational Health and Safety Specifications with these minimum standards in mind and in certain stages the requirements of SANRAL exceeds the minimum legal requirements to follow best practices and to ensure a healthy and safe workplace for all.

SANRAL in no way assumes the Contractors legal liabilities and responsibilities. The Contractor is and remains accountable for the quality and execution of his health and safety programme for his employees. This Health and Safety Specification reflects minimum legal and SANRAL requirements and should not be construed as all encompassing.

It is realized that the Contractor have its own Health and Safety Management system and safe work practices. The intention of this Health and Safety Specification is not to change the Contractors Health and Safety management system, but for the Contractor to use its current Health and Safety management system to draw up a project specific Health and Safety plan according to these specifications as well as to legally comply with the Construction Regulations, GNR.84 of 2014.

It is the responsibility of the Principal Contractor and other Contractors to make themselves conversant and comply with the requirements and conditions contained in the various legislation pertaining to their profession and scope of works at all times.

This document is not exhaustive of all duties imposed by the Occupational Health and Safety Act, Act 85 of 1993 and its Regulations, governing the duties and obligations, of a Designer, Principal Contractor and Contractor performing duties in terms of an agreement with the client (SANRAL). These duties are fully described in the Occupational Health and Safety Act, Act 85 of 1993 and its Regulations and it is the duty of every Designer, Principal Contractor and Contractor to acquaint themselves therewith before commencing work.

Words used herein in the singular shall be deemed to include the plural and male shall include female and vice versa, unless the context otherwise requires.

2. PURPOSE

This document is compiled to ensure that the Principal Contractor and any other Contractors working for SANRAL directly or through a Principal Contractor, are aware of the Occupational Health and Safety requirements when working on a SANRAL contract, as well as to make them aware of their legal liabilities and responsibilities as per the Occupational Health & Safety Act, Act 85 of 1993, and its Regulations.

3. DEFINITIONS AND ABBREVIATIONS

Assessment – An opinion or a judgment about someone or something that has been thought about very carefully.

At-risk behavior – Conduct that unnecessarily increases the likelihood of an injury or incident.

Audit – A systematic and documented review of the effectiveness of implementation of processes, programmes and procedures, based on general process criteria.

Baseline risk assessment – This is the initial assessment of risk in a workplace. It is a broad assessment and includes all activities taking place on site, but does not include risk control measures or safeguards.

CIDB – Construction Industry Development Board

Client – Any organization or person for whom construction work is performed. For the purpose of this document, the client is the South African National Roads Agency SOC Limited.

Communicate – The process of two way dialogue which is understood by both parties.

Competence – A combination of attributes such as knowledge, training, experience and qualifications to assure successful performance.

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

Consequence – Outcome or impact of an event.

Continual Improvement – A recurring process of enhancing performance to achieve consistent improvements in overall performance.

Contractor – An employer as defined in section 1 of the OHS Act, who performs construction work and includes Principal Contractors and Sub-Contractors.

Construction Work – any work in connection with:

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

Corrective Action – An action taken to eliminate the cause of a detected non-conformity or other undesirable situation.

Construction Regulations (CR) – Construction Regulations, GNR. 84 of 2014

Critical equipment – A piece of equipment or a structure whose failure to perform to design specification, has the potential to result in a major accident event.

Design – in relation to any structure, includes drawings, calculations, design details and specifications.

Designer –

- a) competent person who:
 - Prepares a design
 - Checks and approves a design
 - Arranges for a person at work under his or her control to prepare a design, including an employee of that person where he or she is the employer; or
 - Designs temporary work, including its components
- b) an architect or engineer contributing to, or having overall responsibility for a design
- c) a building services engineer designing details for fixed plant
- d) a surveyor specifying articles or drawing up specifications;
- e) a contractor carrying out design work as part of a design and building project; or
- f) an interior designer, shop fitter or landscape architect

DMR – Driven Machinery Regulations, GNR. 295 of 26 February 1988

Documents – Structured units of recorded information and its supporting medium (paper or electronic). Most records are documents, but not all documents are records. A document becomes a record when it is part of a business transaction, is kept as evidence of that transaction and is managed within a record-keeping system.

EIR – Electrical Installation Regulations, GNR. 242 of 6 March 2009

Emergency – An abnormal occurrence that pose a threat to the safety or health of employees, customers, or local communities, or which can cause damage to assets or the environment.

Employee – An individual who is employed by or works for an Employer and who receives or is entitled to receive any remuneration or who works under the direction or supervision of an employer or any other person.

Employer – Any person who employs or provides work for any person and remunerates that person or expressly or tacitly undertakes to remunerates him, but excludes a labour broker as defined in section 1(1) of the Labour Relations Act, 1956 (Act No. 28 of 1956). For the purpose of this document, the employer is the South African National Roads Agency SOC Limited.

EMR – Electrical Machinery Regulations, GNR. 250 of 25 March 2011

Environment – The surroundings or conditions in which a person, animal or plant lives or operates, including air, water, land, natural resources and habitats.

Excavation work – The making of any man-made cavity, trench, pit or depression formed by cutting, digging or scooping

GAR – General Administrative Regulations, GNR. 929 of 25 June 2003

GMR – General Machinery Regulations, GNR. 1521 of 5 August 1988

GSR – General Safety Regulations, GNR. 1031 of 30 May 1986

Harm – A significant and or long lasting adverse effect on people, the environment or the community.

Hazard – A source, situation or act with a potential for harm in terms of human injury or ill health.

Health and Safety File – Means a file, or other record in permanent form, containing the information in writing as required by the Construction Regulations, GNR. 84 of 7 February 2014, Section 7(1)(b).

Health and Safety Plan – Means a project specific documented plan in accordance with the client's health and safety specifications, as required by the Construction Regulations, GNR. 84 of 7 February 2014, Section 7(1)(a).

Health and Safety Specification – Means a project specific document prepared by the client pertaining to all health and safety requirements related to construction work, as required by the Construction Regulations, GNR. 84 of 7 February 2014, Section 5(1)(b).

HSE – Health, Safety and Environment. Commonly used in the format HSE.

Incident – Work-related events (including accidents which give rise to injury, ill health, fatality or emergencies) that have resulted in, or has the potential to result in adverse consequences to people, the environment, property, reputation or a combination of these.

Likelihood – A description of probability or frequency, in relation to the chance that something will occur.

Lost Time Injury (LTI) – When a person is injured during the execution of his/her duties and as a result of the injury is unable to perform his/her regular duties for one full shift or more on the day following the day on which the injury has incurred, whether a scheduled work day or not(weekend).

Management System – Management processes and documentation that collectively provide a systematic framework for ensuring that tasks are performed safely, correctly, consistently and effectively to achieve a specified outcome and to drive continual improvement in performance.

Mandatory – An agent, contractor or sub-contractor for work, but without derogating from his status in his own right as an employer or a user.

MSDS – Material Safety Data Sheet

Near Hit / Near Miss – Any occurrence or situation which had the potential for adverse consequences to people, the environment, property, reputation or a combination of these.

Non-conformance – Any deviation from work standards, practices, procedures, regulations that could either directly or indirectly lead to injury or illness, property damage, damage to the environment or a combination of these.

OHS Act – Occupational Health & Safety Act, 85 of 1993

Policy – Statement by an organization of its intentions and principles in relation to its overall performance which provides a framework for action and for the setting of its objectives and targets.

PPE – Personal Protective Equipment

Preventive Action – An action implemented to eliminate the cause of a potential non-conformity or other undesirable potential situation.

Principal Contractor – An employer appointed by the client to perform construction work and who is in overall control and management of a part of or the whole construction site.

Procedure – A specific documented way to carry out an activity or a process.

Records – Recorded information, in any form that is kept as evidence. Records include monitoring results, evidence of training, audits, inspections and calibration reports.

Risk Assessment – A process of evaluating the risk(s) arising from hazards taking into account the adequacy of any existing controls and deciding whether or not the risk(s) is acceptable.

Risk Management – The ongoing treatment of risks through the application of management policies, processes, procedures and risk control measures.

Risk – A combination of the likelihood of an occurrence of a hazardous event or exposure and the severity of injury or ill health that can be caused by the event or exposure.

Root Cause – The cause of the incident that, when rectified, will prevent the recurrence of not just incidents with those exact circumstances, but others with similar causes.

SACPCMP – South African Council for Project and Construction Management Professions

SANRAL - South African National Roads Agency SOC Limited

Supplier – A person or company that supplies material or equipment to a contractor on a construction site, but does not physically carry out construction work on the construction site.

The Act – The Occupational Health and Safety Act No. 85 of 1993

The Site – The area where work is carried out for SANRAL as defined on the front page of this document.

WAH – Acronym for Working at Heights

4. HEALTH AND SAFETY POLICY

Contractors are expected to have their own written Health and Safety Policy. The policy should declare their attitude and approach to the health, safety and welfare of their employees and others. Provision must be made to review the policy annually and the CEO or Managing Director must sign and date the policy to indicate his commitment to ensuring the health and safety of his employees.

5. ROLES & RESPONSIBILITIES

Every Contractor is considered to be an employer in his own right and shall comply with all legal requirements pertaining to an employer, which include the responsibility to provide as far as reasonably practicable a safe and healthy working environment for his employees, as per Section 8 of the OHS Act.

In conjunction with Section 8 of the OHS Act, all employees on the project are responsible for their own safety as well as the safety of persons who may be affected by their acts, as per Section 14 of the OHS Act. It is the responsibility of each employee to ensure that he acts in a safe manner before, during and after work is carried out.

The contractor shall ensure that where required by the OHS Act and Regulations, competent employees are appointed in writing. These appointments must be project / contract specific and specific to the tasks that will be performed. Every appointment must display the duties of the person appointed and training certificates from a registered training provider must be attached to such appointment (where applicable). A list of possible appointments can be found in section 11.1 below.

6. HSE TRAINING AND COMPETENCE

Where appropriate qualifications and training are registered in terms of the provisions of the National Qualifications Framework Act, 2000 (Act No. 67 of 2000), those qualifications and training must be regarded as the required qualifications and training and employees must have attended courses of the aforementioned nature to be considered competent in the task.

All employees that forms part of the construction work must be trained and competent. Employees formally appointed to perform a certain duty must be in possession of a training certificate, received from a registered training provider. All employees must as a minimum have received site specific safety induction training and must receive daily safe task instruction training (DSTI) before any work commences.

Training Needs – There shall be a system in place to determine the training requirements of each individual, based on the tasks that the employee will perform as well as to ensure the health and safety of fellow employees and the public. Special attention should be given to employees who are new hires, new to the task or have combined responsibilities.

Basic Safe Work Training (Induction Training) – Every contractor shall ensure that his employees are inducted into his own company Health and Safety System as well as basic safe work training (HSE Induction Training). The Principal Contractor shall ensure that his, all his Sub-Contractor employees and visitors are inducted on the specific site safety procedures.

A Daily Safe Task Instruction (DSTI) must be conducted on site with all employees involved in the project. The DSTI must be carried out each day before work commences and proof thereof must be available on site. Each work crew may conduct their own specific DSTI to discuss the hazards, risks and control measures associated with their task for the day.

Where two or more contractors or work crews work in the same area, they should have a combined DSTI to ensure they know of the additional hazards the other contractor or work crew will introduce to their operations and what precautions to put in place.

The contractor shall have evidence that employees have been trained on the relevant procedures prior to and during the project duration.

Formal Training – All qualifications for which there are SAQA registered training courses, must be regarded as the minimum required qualifications and training. To be deemed “competent” an employee must have received training at a registered training provider, the training course must be registered and if there is an assessment, the employee must have been found competent after the assessment. A person cannot be deemed competent after awareness training only.

The Contractor shall ensure that his employees, as well as the employees of any sub-contractors that may be used, have received appropriate training for the type of work that will be performed, e.g. First Aid, Flag Man, Mobile Plant Operator, Working at Heights, Risk Assessment training etc.

Records – Record of all training shall be kept by the employer and shall be readily available. Records shall make provision for refresher training where applicable. Where an employee is legally appointed with certain duties and responsibilities a copy of the training certificate must be attached to the appointment.

7. APPLICATION FOR CONSTRUCTION WORK PERMIT

Construction Regulation, 2014 Section 3 requires that the client apply for a construction work permit at least 30 days before construction work is started, if the intended construction work is of a value exceeding forty million rand or CIDB grading level 8 and will start on or after 7 February 2017. If approved, the provincial director will issue a construction work permit in writing to perform construction work within 30 days of receiving the application and assign a site specific number for the construction site. It is the intention of SANRAL to apply for a construction work permit as soon as the Contractor is appointed and his Health and Safety Plan is received, in order to minimize construction delays.

The site specific construction work permit number must be displayed at the main entrance to the site and a copy of the construction work permit must be kept in the principal contractors health and safety file for inspection purposes.

8. DUTIES

Various duties are imposed on the client, designer, principal contractor and other contractors by the Construction Regulation, 2014, Sections 5, 6 & 7. SANRAL will comply and carry out the required duties as contemplated in section 5 of the Construction Regulations, 2014 and it is expected from the designer and every contractor to make themselves conversant with the requirements and duties imposed on them and to ensure that they comply with the requirements of section 6 & 7 at all times.

9. MANAGEMENT AND SUPERVISION

The contractor shall ensure that the project is managed safely and legal compliance is ensured at all times.

A full-time competent person must be appointed as a Construction Manager to manage all construction work, including health and safety compliance. The construction manager may not be appointed to manage more than one single construction site.

The construction manager must appoint construction supervisors responsible for construction activities and ensuring occupation health and safety on the construction site.

The contractor must appoint a full-time or part-time construction health and safety officer, who is registered with the SACPCMP, to assist in the control of health and safety aspects on site.

10. RISK MANAGEMENT

The Contractor must follow a formal risk based approach to ensure hazard control measures are implemented to an acceptable reasonable practical level. The contractor and his employees shall be responsible to ensure all hazards pertaining to his scope of activity are proactively identified, the risks assessed and appropriately eliminated or minimized and managed on an ongoing basis. Risk assessments shall also identify possible and potential environmental, health and hygiene issues pertaining to each hazard with potential exposures and limits.

a) Hazard Identification and Risk Assessment (Construction Regulation 9)

i. Development of Risk Assessments

The contractor shall, before the commencement of any construction work or work associated with the aforesaid construction work and during such work, conduct a risk assessment by a competent person, appointed in writing and the risk assessment so produced shall form part of the OH&S plan and be implemented and maintained as contemplated in Construction Regulation 9(1). Competence is a factor of training, knowledge, experience and/or appropriate qualifications.

The risk assessment shall include, as far as is reasonably practicable, at least:

- The task or task step
- the identification of the risks and hazards to which persons may be exposed during the task or task step;
- the analysis and evaluation of the risks and hazards identified, inclusive of a residual risk rating methodology. The method to be used is not prescribed;
- a documented plan of safe work procedures, to mitigate, reduce or control those residual risks that have been identified as unacceptably high, by means of the rating system;
- a monitoring plan;
- a review plan, inclusive of dates to be adhered to; and
- ergonomic related risks are to be analysed, evaluated and addressed as part of the process.

Based on the risk assessments, the contractor shall develop a set of site-specific OH&S rules that shall be applied to regulate the OH&S aspects of the construction. The risk

assessments, together with the site-specific OH&S rules shall be submitted to the Employer before construction on site commences. SANRAL has conducted a Baseline Risk Assessment as per 11.1 below, which must be used by the contractor to develop task specific risk assessments before work commences. This does not mean that all possible Risk Assessments must be attended to before work commences, but that all relevant Risk Assessments receive the necessary attention as the contract progresses, and this is the responsibility of the contractor.

All variations to the scope of work shall similarly be subjected to a risk assessment process.

b) Risk Assessment Monitoring

The contractor shall ensure that a monitoring plan for all risk assessments are in place. Risk assessments must be monitored to ensure effectiveness and employee understanding. The monitoring of risk assessments shall be formal and records thereof shall be available for audit purposes.

c) Review of Risk Assessment

The contractor shall review the hazard identification, risk assessments and standard safe working procedures prior to any work activity commencement and at each production planning and progress report meeting as the contract work develops and progresses and each time changes are made to the designs, plans and construction methods and processes. The contractor shall provide the Employer, sub-contractors and all other concerned parties with copies of any changes, alterations or amendments as contemplated above.

Activities carried out without conducting a risk assessment or found to be non-compliant with the risk assessment, will be stopped until such time a risk assessment is compiled and work is carried out according to the risk assessment.

Risk assessments must be fully communicated to all relevant personnel and must be considered when establishing training, awareness and competency requirements.

10.1 Baseline Risk Assessment

SANRAL will prepare a Baseline Risk Assessment from which the Health and Safety Specifications for the project will be prepared. The Baseline Risk Assessment will highlight all work for which the Contractor must prepare safe work procedures and or work method statements. In this case the Baseline Risk Assessment will not identify risks or control measures, this must be identified by Contractor when preparing the Issue Based Risk Assessments.

The Baseline Risk Assessment for this Project can be found on page 17 section 19.1 of this document.

10.2 Continuous Risk Assessment

The Contractor shall continuously assess the risks of the activities that are carried out. Risk assessments must be in writing, site specific and must be reviewed continuously to ensure it is current and it address all the relevant hazards and risks associated with the specific activity at the specific site.

The Risk assessment must be discussed with the whole work crew before the activity starts and the work crew must acknowledge in writing having discussed the risk assessment and that they understand it. This acknowledgement must be on site and must be available to the client for audit purposes.

11. LEGAL COMPLIANCE & DOCUMENT CONTROL

The contractor is required to implement systems and procedures to ensure legal compliance through:

- Identification of all relevant HSE legislation, standards and codes applicable to its operations.
- Have available copies of all relevant HSE legislation, standards and codes for reference purposes.

- Update legislation, standards and codes with any changes
- Communicate to all employees any changes that may affect their accountabilities and conformances
- Incorporate any legal requirements into their HSE management system
- Monitor and review their HSE management system for effectiveness.

The contractor shall, as a minimum, comply with:

- The Occupational Health and Safety Act and Regulations (Act 85 of 1993), an up-to-date copy of which shall be available on site at all times.
- The Compensation for Occupational Injuries and Diseases Act (Act 130 of 1993), an up-to-date copy of which shall be available on site at all times.
- Where work is being carried out on a "mine", the contractor shall comply with the Mines Health and Safety Act and Regulations (Act 29 of 1960) and any other OH&S requirements that the mine may specify. An up-to-date copy of the Mines Health and Safety Act and Regulations shall be available on site at all times.

Wherever in the Construction Regulations or this specification there is reference to other regulations (e.g. Construction Regulation 24: Electrical Installations and Machinery on Construction Sites) the contractor shall be conversant with and shall comply with these regulations.

11.1 Legal Appointments

All legal appointments of the Contractor regarding the Health and Safety of his employees who are to work on the project are addressed and governed by the OHS Act and applicable Regulations. Legal appointments must be in place and must reflect in the project safety file before work commences.

i. Overall Supervision and Responsibility for OH&S

SANRAL will appoint the Principal Contractor in terms of Construction Regulation 5(1)(k). A Mandatory agreement as per Section 37.2 of the OHS Act, shall be signed between SANRAL and the Principal Contractor.

It is a requirement that the Principal Contractor, when he appoints other contractors in terms of Construction Regulations 7(1)(c), 7(1)(d), 7(1)(f) and 7(3) includes in his agreement with such Contractors the following:

- OH&S Act (85 of 1993), Section 37(2) agreement: "Agreement with Mandatory"
- OH&S Act (85 of 1993), Section 16(2) appointee(s) as detailed in his/her/their respective appointment forms. (Where applicable)

The signed Mandatory agreements shall be placed in the project file for reference and for audit trail purposes.

ii. Specific Supervision Responsibilities for OH&S

The contractor shall appoint designated competent employees and/or other competent persons as required by the OHS Act and Regulations, as well as this specification. Appointments shall be in writing and the responsibilities clearly stated together with the period for which the appointment is made. This information shall be communicated to and agreed with the appointees. Where applicable, the training certificate must be attached to the appointment. Notice of appointments shall be submitted to the Employer. All changes shall also be communicated to the Employer.

Below is a list of possible appointments for the project, which is not an all-inclusive list, but for reference purposes only:

Appointment	Legal Reference
Assistant to CEO	OHS Act 16(2)
Health and Safety Representative	OHS Act 17(1)
Nominated Health and Safety Committee Member	OHS Act 19(3)
Contractor (Sub-contractor)	CR 7(1)(c)(v)

Appointment	Legal Reference
Construction Manager & Alternate Construction Manager	CR 8 (1)
Assistant Construction Manager	CR 8(2)
Health and Safety Officer	CR 8(5)
Construction Supervisor	CR 8(7)
Assistant Construction Supervisor	CR 8(8)
Risk Assessor	CR 9(1)
Fall Protection Plan Developer	CR 10(1)(a)
Structure Inspector	CR 11(2)(a)
Temporary Works Designer	CR 12(1)
Temporary Works Supervisor	CR 12(2)
Excavation Supervisor	CR 13(1)(a)
Demolition Supervisor	CR 14(1)
Competent Person in the use of Explosives	CR 14(11)
Scaffold Supervisor	CR 16(1)
Suspended Platform Supervisor	CR 17(1)
Rope Access Supervisor	CR 18(1)(a)
Material Hoist Inspector	CR 19(8)(a)
Bulk Mixing Plant Supervisor	CR 20(1)
Explosive actuated fastening device Inspector	CR 21(2)(b)
Explosive actuated fastening device cartridge Controller	CR 21(2)(g)(i)
Construction Vehicle & Mobile Plant Operator Authorised	CR 23(1)(d)(i)
Temporary Electrical Installation Controller	CR 24(c)
Stacking and Storage Supervisor	CR 28(a)
Fire Equipment Inspector	CR 29(h)
Incident investigator	GAR 9(2)
Lifting tackle inspector	DMR 18(10)(e)
Ladder inspector	GSR 13(a)
Certified Explosives Manager	ER 12(1)
First Aider GSR	GSR 3(4)
Hazardous Chemical Substance Supervisor	

In addition to the above, the Employer requires that a Traffic Safety Officer be appointed.

It is a requirement that the contractor shall provide the Employer with an organogram of all sub-contractors that he/she has appointed or intends to appoint and keep this list updated and prominently displayed on site.

iii. Designation of OH&S Representatives (Section 17 of the OH&S Act)

Where the contractor employs more than 20 persons (including the employees of sub-contractors) he has to appoint 1 (one) OH&S representative for every 50 employees or part thereof. This is a minimum (legal) requirement. The contractor may at his own discretion appoint more OH&S representatives according to site specific requirements. General Administrative Regulation 6 requires that the appointment or election of the OH&S representatives be conducted in consultation with employee representatives or employees (Section 17 of the Act and General Administrative Regulation 6 & 7). OH&S representatives shall be designated in writing and the designation shall include the area of responsibility of the person and term of the designation. OH&S representatives must be experienced, permanently employed by the contractor or his sub-contractors, trained and able to move freely within their designated area of responsibility.

iv) Duties and Functions of the OH&S Representatives (Section 18 of the OH&S Act)

The contractor shall ensure that the designated OH&S representatives perform their functions in respect of the workplace or section of the workplace for which they have been appointed. These functions include: conduct continuous monitoring and monthly inspections of their respective areas of responsibility, focusing on unsafe acts and unsafe conditions and report thereon to the contractor. OH&S representatives shall participate in accident or incident investigations. OH&S representatives shall attend all OH&S committee meetings. The complete list of functions can be found in Section 18 of the OHS Act.

v) Appointment of OH&S Committee (Sections 19 and 20 of the OH&S Act)

The contractor shall establish an OH&S committee, which shall meet at least once a month, where two or more Health and Safety Representatives have been appointed. OH&S representatives must be appointed as OH&S committee members. The number of management appointed members may not exceed the number of OH&S representatives on the committee.

12. OPERATIONAL INTEGRITY

The operational integrity of plant, equipment, structures and protective systems must be monitored and assured on an ongoing basis throughout the project cycle. Hazards must be identified, assessed and as far as reasonably practicable, eliminated or the risks treated to as low as reasonable practicable (ALARP).

12.1 Plant & Equipment Integrity

12.1.1 Construction Plant & Equipment

The Contractor shall maintain all items of plant and equipment necessary to perform the work in a safe condition.

SANRAL reserves the right to inspect items of plant and equipment brought to site and used on site by the contractor. Should it be found that any item is inadequate, faulty, unsafe or in any other way unsuitable for the safe and satisfactory execution of the work for which it is intended, the contractor will be advised of such observation / inspection, and the contractor shall be required to repair, make safe or remove such item from operation and replace it with a safe and adequate substitute.

The contractor shall ensure that all plant, equipment, and power tools that are brought onto and used on site are:

- Appropriate for the type of work to be performed
- Placed on a register and inspected by a competent person or the authorized operator before use, daily or monthly dependent on Legislation and project requirements.
- Record inspection findings on a register that must be kept on site.
- The inspection register shall reflect the serial number of the plant, equipment or power tool.
- Maintained and used in accordance with the manufacturers recommendations
- Have adequate machine guarding fitted to all exposed rotating or moving parts, as reasonably practicable, that have the potential to cause harm
- All electrical power supply units are protected with operational earth leakage devices.
- Any defective, damaged or sub-standard equipment must be marked as unsafe for use and removed from operation as soon as possible

12.1.2 Standards and Registers

As standard project procedures, the contractor is expected to:

- Set up an initial set of registers as per the requirements of the OHS Act and Regulations.
- Complete the registers for each piece of plant, tool and equipment brought on and used on site
- Maintain a complete, continuous and comprehensive inspection and service history in these registers or checklists

- Ensure daily, weekly, monthly inspections are done and recorded for all plant, tools & equipment by a competent person as required by the OHS Act and Regulations.
- Have the inspection and maintenance records available for audit purposes.

13. OCCUPATION HEALTH & HYGIENE

13.1 Medical Fitness for Duty

All contractor employees shall undergo medical examinations and be certified fit for duty by an Occupational Health Practitioner before they are allowed to work on site.

The medical certificate must be in the form of Annexure 3 of the Construction Regulations and stipulate the possible exposures the employee might be exposed to during the execution of the project.

It is recommended and in the best interest of the Contractor to implement pre-employment as well as exit medical surveillance, especially with regards to Section 8 of the Noise Induced Hearing Loss Regulation.

13.2 First Aid

According to GSR 3(4), where more than 10 employees are employed at a workplace / worksite, the Contractor shall ensure that there is at least one trained first aider for every group of 50 employees at the workplace / site. First Aid boxes must be provided where more than 5 employees are employed and must be readily available and accessible for the treatment of injured persons at the workplace.

To ensure immediate treatment of an injured person, it is recommended that all work crews have at least one trained first aider, with a fully stocked first aid box, irrespective of the number of people in the work crew. This is especially important when contractors work at great distances from the nearest emergency facility or town. These persons shall be appointed in writing as the first aiders with their certificates attached as proof of competency.

The minimum contents of the first aid box shall be as per the supplied list in the General Safety Regulations.

All treatments done must be recorded on a register and kept with the first aid box. A trained and appointed first aider must be responsible for the first aid box and its content. Used content must be replenished as soon as possible.

In order to ensure prompt response at the emergency facility it is recommended that the W.Cl 2 forms be partially completed with the employers' details.

13.3 Hygiene Facilities

The Contractor shall ensure compliance to Section 30 of the Construction Regulations with regards to facilities on the construction site as well as where accommodation is provided to employees on remote sites. The contractor shall ensure that the facilities are kept clean at all times, either through a service provider or self-employed persons.

13.4 Health related Epidemics and Pandemics

The contractor shall, as far as reasonably practicable describe in his health and safety plan how health related epidemics and pandemics will be dealt with. The employer is aware that this section in the health and safety plan will not speak to specifics, but generic procedures. The Contractor must ensure that the requirements stipulated in the Hazardous Biological Agents (HBA) Regulation are adhered to and in particular the following as described in the mentioned Regulation:

- Risk Assessment and risk assessment reviews;
- Prevention measures;
- Response measures;
- Employee training / information sharing;

- Employee health monitoring;
- Management of infected persons;
- Isolation rooms;
- Employee transportation;
- Employee accommodation;
- Eating facilities;
- Meetings / toolbox talks / Daily safety talks;
- Cleaning of offices / facilities;
- Duties of person that may be exposed to HBA's
- Monitoring exposure at the workplace
- Medical surveillance of employees
- Keeping of records
- Personal Protective Equipment and facilities
- Maintenance of control measures and facilities

Once the nature and scale of the epidemic or pandemic is known, the Contractor must update his health and safety plan with the relevant information and send the updated plan to the relevant appointed OHS Agent for approval. Once approved, the Contractor must implement the updated health and safety plan and maintain the updated plan on site.

14. WASTE MANAGEMENT

The contractor shall comply with all applicable and relevant Waste management legislation, as well as municipal bylaws applicable to waste management.

The contractor shall remove all waste generated at the construction site on a daily basis or as soon as possible after generation to ensure good housekeeping at all times. The contractor shall have a waste management plan which must be implemented on the construction site and which will have the objective to ensure that waste is managed according to the Waste Management Hierarchy:

- Reduce what you can. If you cannot reduce then,
- Re-use what you can. If you cannot re-use then,
- Recycle what you can. What you cannot recycle,
- Convert into energy sources. If it cannot be converted to an energy source,
- Dispose of in a landfill – this is only to be done as a last resort and disposed without endangering human health and without using processes or methods which could harm the environment.

15. HAZARDOUS SUBSTANCE MANAGEMENT

The contractor shall ensure that hazardous substances brought onto site are easily identifiable and stored according to the requirements of the General Safety Regulations, GNR. 1031 of 1986, Section 4.

Where flammable liquids are being used or stored, this must be done in a manner which would not cause a fire or explosion hazard.

The contractor shall have Material Safety Data Sheets (MSDS) readily available for flammable, hazardous and toxic chemical substances and materials brought onto site and shall ensure that his employees are trained in these MSDS's.

Flammable, hazardous or toxic chemical substances may not be stored in empty food or drink containers. Empty flammable, hazardous and toxic containers must be disposed of in a safe manner, which will prevent further use of such a container.

Asbestos

A survey of the construction site must be done during site establishment, to locate any asbestos. Should asbestos be located, the conditions of the Asbestos Regulations, GNR. 155 of 2002 must be followed and complied with.

16. CONTRACTORS

16.1 Consultations, Communications and Liaison

OH&S liaison between the Employer, the contractor, the subcontractors, the designer and other concerned parties will be through the OH&S committee. In addition to the above, communication may be directly to the Employer or his appointed agent, verbally or in writing, as and when the need arises.

Consultation with the workforce on OH&S matters will be through their construction managers and supervisors, OH&S representatives and the OH&S committee. The contractor shall be responsible for the dissemination of all relevant OH&S information to the subcontractors e.g. design changes agreed with the Employer and the designer, instructions by the Employer and/or his/her agent, exchange of information between subcontractors, the reporting of hazardous/dangerous conditions/situations etc. The contractors' most senior manager on site shall be required to attend all OH&S meetings.

16.2 Operational Procedures

Each construction activity shall be assessed by the contractor so as to identify operational procedures that will mitigate against the occurrence of an incident during the execution of each activity. This specification requires the contractor:

- to be conversant with all relevant Regulations;
- to comply with their provisions;
- to include them in his OH&S plan where relevant

16.3 Checking, Reporting and Corrective Actions

- i. Monthly Audit by Employer (Construction Regulation 5(1)(o))

The Employer will conduct monthly health and safety and document verification audits in compliance with Construction Regulation 5(1)(o) in order to ensure that the contractor has implemented and is maintaining the agreed and approved OH&S plan.

- ii. Other Audits and Inspections by the Employer

The Employer reserves the right to conduct other ad hoc audits and inspections as deemed necessary. This will include site safety walks.

- iii. Contractor's Audits and Inspections

The contractor must conduct his own regular internal audits to verify compliance with his own OH&S management system, as well as with this specification. The contractor shall furthermore ensure that each subcontractor's health & safety plan is being implemented by conducting periodic audits at intervals mutually agreed between the contractor and subcontractors, but at least once per month.

- iv. Inspections by OH&S Representatives and other Appointees

OH&S representatives shall conduct weekly inspections of their areas of responsibility and report thereon to their foreman or supervisor whilst other appointees shall conduct inspections and report thereon as specified in their appointments e.g. vehicle, plant and machinery drivers, operators and users must conduct daily inspections before start-up.

- v. Recording and Review of Inspection Results

All the results of the abovementioned inspections shall be in writing, reviewed at OH&S committee meetings, endorsed by the chairman of the meeting and placed on the OH&S File.

16.4 Project Health and Safety Management Plan

As per Section 5(1)(l) and Section 7(1)(a) of the Construction Regulations of 2014, the contractor shall develop, implement and administer a Health and Safety Management Plan. The plan shall be in writing and shall be negotiated between the Contractor and SANRAL or designated OHS Agent and

must be approved by SANRAL or the designated OHS Agent prior to the commencement of work on site. The plan shall demonstrate management's commitment to ensure employee health and safety as their primary objective during the contract. As a suggestion, the following elements may be used to develop the H&S plan:

Introduction

- Mission
- Purpose & Scope
- Health, Safety and Environmental Policy
- Health, Safety and Environmental Goals
- Plan Objectives

Leadership and Commitment

- Values supporting commitment
- Roles, Responsibilities and Accountability

Hazard and Risk Management Process

- Effective Consultation
- Planning

Contractor HSE Alignment

- Sub-Contractors
- On-Site

Learning and Competency

- Project HSE Training and Competency Requirements
- Contractor & Sub-Contractor Duties
- Minimum Training Requirements
- Medical and Induction
- Employee details
- Visitors to site
- Induction

Involvement, Communication and Motivation

- Health & Safety Meetings
- Health & Safety Behaviour
- Information and Learning

Hazard and Risk Management on site

- Hazardous Activities
- Hazardous Areas
- Hierarchy of Hazard Control
- Hazard and Risk Identification
- Risk Analysis and Evaluation
- Documented safe work procedures for hazardous activities
- Hazard and Risk monitoring plan
- Hazard and Risk review plan

Occupational Health and Hygiene

- Fitness for Work
- Hazardous Substances
- Airborne Chemical Substances
- Noise and Vibration
- Personal Hygiene
- Protection of Outdoor Workers
- Occupational Health Services on Site

Performance Tracking and Accountability

- Positive Performance Indicators
- Workplace Observations and Audits
- Reporting

Incident Management

- Emergency Preparedness and Response
- Incident Management

Injury Management

Waste Management

Hazardous Waste

Non Hazardous Waste - Recyclable

Non Hazardous Waste – Non recyclable

16.5 Project Health and Safety File

The contractor shall compile a project specific Health and Safety File that consist of all the relevant project specific documentation. The Health and Safety file may consist of multiple files, which when combined should contain all the required documentation.

It is recommended that the project specific Health and Safety file contain at least the following:

- Scope and summary of the project as well as any scope changes.
- Notification of Construction Work to DoL / Copy of Work Permit
- Proof of COID registration (Letter of Good Standing)
- Contractor Health and Safety Policy statement signed by management, as well as any other relevant Health and Safety Policies e.g. Smoking Policy, Cell Phone use Policy
- Appointment of Contractor and Mandatory Agreement – OH&S Act 37.2 (Between Employer and Principal Contractor)
- Signed Client Health and Safety specification
- Latest copy of the OHS Act and relevant Regulations
- Company Organogram depicting Health and Safety Responsibilities, including sub-contractors
- Employee list including copy of IDs and medicals
- Project specific Health and Safety Management Plan agreed with the Employer – See point 16.4 above
- Relevant OH&S Legal appointments which includes duties and responsibilities as well as competencies (training certificate)
- Minutes of meetings - OH&S committee and other relevant OH&S meeting agenda templates
- Site specific Fall Protection Plan (if applicable)
- Risk Assessments, Work Method Statements / Safe Operating Procedures
- Contractor Induction material
- List of toolbox talks
- Waste management Plan
- Emergency preparedness (first aid, firefighting, emergency plan, etc.)
- Incident Investigation Procedure
- Emergency Contact Telephone numbers
- HIV awareness program
- List of hazardous chemical substances to be used on site
- Material Safety Data Sheets of hazardous chemicals on site
- List of plant & equipment to be used on site
- Templates of Inspection Checklists/Registers of plant & equipment and emergency equipment
- List of Sub-contractors including type of work
- Sub-contractor 37.2 Mandatary Agreements
- Sub-contractor appointments which shall include the type of work the contractor is appointed for.

At the end of the project, the Principal Contractor shall hand over a consolidated health and safety file to the client (SANRAL) which shall include all the above-mentioned documents, as well as the following:

- Client Health and Safety Audits
- Department of Labour Inspections
- Internal audits conducted
- Audits conducted on sub-contractors
- Health and Safety Statistics
- List and records of Incident Investigation Reports
- Record of designs, drawings and materials used in the structure [Construction Regulation 7(1)(e)]
- Final structural reports [CR 6(1) (i)]
- Attendance register of people inducted
- List of toolbox talks, copies of discussions and attendance registers

- Copies of minutes of meetings - OH&S committee and other relevant OH&S meeting minutes
- Completed Inspection Checklists/Registers of plant & equipment and emergency equipment
- Health and safety files of any other contractors used on site.

16.6 Contracting Philosophy

Any site specific hazards and safety management expectations will be made known to the Contractor prior to the work commencing on site. Legal OHS requirements contained in the OHS Act and Regulations as well as SANS Codes are the minimum requirements the Contractor must apply and enforce during this contract with regards to Occupational Health and Safety. In addition, the Contractor shall apply, implement and enforce these health and safety specifications as required SANRAL.

16.7 Workers Compensation Registration

The Contractor shall ensure that his employees are covered for any occupational injuries and illnesses in terms of the Occupational Injuries and Diseases Act 130 of 1993, which cover shall remain in place and up to date for the duration of the project.

16.8 HSE Non-Compliance

It is a legal duty of the client according to the Construction Regulation 5(1)(q) that a contractor is stopped from executing any activity which poses a threat to the health and safety of persons. Depending on the seriousness of the non-compliance only the specific activity may be stopped until the non-compliance is rectified or the whole operation may be stopped.

It is also the duty of every employee to take reasonable care of his own health and safety and of other persons who may be affected by his acts as per OHS Act, Section 14(a). Keeping this in mind, it is required of the contractor to ensure his employees has the right to remove themselves from any unsafe situation or work activity, without any negative consequence to them until such time as the contractor has made the unsafe situation or activity as safe as practicable possible.

16.9 Indemnity by Contractor

The Contractor shall indemnify the Employer against and from all damages, losses and expenses (including legal fees and expenses) resulting from:

- (a) the loss of output and delay caused by the slowing down or partial or total stoppage of work caused by:
 - i. all or any of the Contractor's workforce as a result of a dispute between all or any of the Contractor's workforce and the Contractor; or
 - ii. all or any of the Contractor's suppliers' difficulty or impossibility to deliver goods or materials needed to perform the Works;
- (b) any unlawful, riotous or disorderly conduct by or amongst the Contractor's personnel."

16.10 Contractor Conduct

Guidelines to the most important rules that shall be implemented and maintained by the Contractor:

- Complete compliance to the OH&S Act and Regulations
- Hazard identification and Risk Assessments for all activities
- Daily communication of DSTI talk before work commences
- Safe access and egress to and from work areas.
- Compulsory use of lifelines, Safety Harnesses and Fall Arrestors (Lanyards to be attached at all times)
- Scaffold shall comply with Legal and SANS standards at all times
- Good housekeeping and stacking practices
- Safe lifting, rigging and slinging practices
- Complying to Legal standards for lifting machinery & equipment
- No lifting in wind conditions exceeding 30km/h (This is a guide and is dependent on risk assessments)
- Securing of tools, equipment and material at heights
- Wearing of appropriate personal protective equipment as identified in the risk assessment

Personal Conduct

Supervisors in charge are responsible for ensuring that the employees are aware of the hazards / risks involved in the work they will be doing / are doing and shall ensure the safety rules are obeyed.

No person shall act in a manner that endangers or is likely to endanger, the safety of any other person, or cause harm to any other person.

An employee who observes any dangerous situation, shall as soon as possible inform the person who is responsible for that section of the site.

Any employee who becomes aware of any person disregarding any safety rules, shall remind that person of the rules. If he persists in disregarding the rules, the matter must be reported to his supervisor.

No person shall damage, alter, remove, render ineffective or interfere with anything that has been provided for the protection of the site, or for the health and safety of persons.

No person shall interfere with or use firefighting equipment without authority and training.

No person in a state of intoxication or condition that render him incapable of controlling himself shall enter or be allowed to enter the site.

No alcohol or illegal drugs shall be taken onto the site.

All safety and warning signs shall be obeyed.

Always be alert of construction vehicles as well as traffic. Never turn your back to oncoming traffic, always have a line of sight.

16.11 Contractor and Sub-Contractor Management

The Principal Contractor shall establish, maintain and ensure that all his contractors establish and maintain HSE standards and systems as necessary and to comply with the Legal requirements as well as these HSE specifications.

The Contractor shall be solely responsible for carrying out work on the project, having the highest regard for the health and safety of his employees and people in the vicinity of his work area.

16.12 Public Health and Safety

The contractor shall, as far as is reasonably practicable, be responsible for ensuring that non-employees affected by the construction work are made aware of the dangers likely to arise from said construction work as well as the precautionary measures to be observed to avoid or minimise those dangers.

This includes:

- Non- employees entering the site for whatever reason
- The surrounding community
- Passers by to the site

17. DESIGNING FOR HEALTH, SAFETY AND THE ENVIRONMENT

Designing for safety is a process aimed at minimizing injury, death, property damage or destruction and harm to the environment, by utilizing an approach to identify and eliminate or control hazardous areas. The project Designer and Contractor must implement a process that ensures safety is incorporated in the design process, which includes temporary works as contemplated in the Construction Regulations, 2014 Section 12.

The Contractor must communicate the anticipated risks and hazards resulting from the design to his employees and establish safe work procedures for the temporary works.

18. INCIDENT MANAGEMENT

The Contractor shall ensure that a culture exists within his company that promotes the recognition, response, reporting and investigation of incidents, including near misses (near hits). The Contractor must implement a procedure for reporting and investigating accidents, incidents and near misses. The Contractor should have a clear objective and target to obtain zero injuries for the duration of the project and such an objective must be communicated to all employees.

Appropriate corrective actions must be implemented and the applicable learnings must be shared within the Contractors business to prevent a recurrence of the incident or to prevent the near miss from becoming an incident in future.

18.1 Incidents and Accidents

The contractor and his subcontractors shall coordinate their investigation of all accidents/incidents where employees and non-employees were injured to the extent that he had to be referred for medical treatment by a doctor, hospital or clinic. The results of the investigation shall be entered into an accident/incident register, which must be updated with each accident/incident.

The Contractor shall notify the relevant SANRAL Project Manager and or SANRAL OHS Specialist of any incident / accident within the Contractors or his Sub-Contractors area of responsibility in writing as soon as possible.

Although the accident / incident is reported to the client, the Contractor has a responsibility and is required by law to report any Section 24 accidents and incidents to the Department of Labour. Any road traffic accident must be reported to the relevant authorities.

It is essential that the Contractor demonstrate that corrective and preventative action has been taken to prevent a similar incident in future and that it is communicated to all the Contractors affected staff. A copy of the investigation, corrective and preventative action taken as well as the attendance register of the employees who attended the discussion of the incident and the action implemented to prevent a similar incident, must be forwarded to the SANRAL Project Manager and or the SANRAL OHS Specialist.

Investigations must be completed for:

- Near Miss Incidents (To prevent it from becoming an incident)
- First Aid case Incidents
- Medical treatment case Incidents
- Fatalities

18.2 Incident Reporting

The contractor shall provide the Employer with copies of all statutory reports required in terms of the Act within 7 days of the incident occurring. In addition, the contractor shall update monthly the Disabling Injury Frequency Ratio (DIFR) and display this information on a signboard at the site office.

The Contractor is responsible for collecting, recording, calculating and reporting his and his sub-contractors Health & Safety statistics to the SANRAL OHS Specialist.

The statistics should contain at least the following for all employees of all contractors working on the project:

- Total Number of workers
- Total Number of hours worked (on the SANRAL project)
- Total Number of Near Miss Incidents
- Total Number of First Aid case Incidents
- Total Number of Medical Treatment case Incidents (Excluding Section 24 type incidents)
- Total Number of Section 24 type Incidents
- Preventative actions taken on incidents that have occurred
- Communication to employees and contractors of incidents and preventative actions.

19. PROJECT SPECIFIC CONSTRUCTION REQUIREMENTS

Section 1 to 18 of this document is generic and is applicable to all projects carried out on behalf of the South African National Roads Agency SOC Ltd.

The following section contains specific requirements for Contract SANRAL X.003-072-2023/1S, which must be adhered to in addition to minimum legislative requirements.

19.1 Baseline Risk Assessment

The following is a list of risks identified which forms the Baseline Risk Assessment for the project prepared by the Client in terms of Construction Regulation 5(1)(a):

Risks in connection with:

- Personal health risks in connection with ablution facilities, eating areas, drinking water.
- Secure/safe storage of materials, plant and equipment
- Secure/safe storage and use of hazardous and/or flammable materials
- Maintenance workshop - onsite repairs to construction vehicles, mobile plant & equipment.
- Possibility of asbestos in existing structures
- Existing services, e.g. gas, telecommunications, electrical supply and similar
- Temporary electrical installations
- Adjacent land uses/surrounding property exposures
- Boundary and access control/public liability exposures (NB: The Employer is also responsible for the OH&S of non-employees affected by his/her work activities)
- Biological hazards, e.g. bees, snakes, spiders
- Environmental risks, e.g. lighting, strong winds, heavy rains, dark environments, hot/cold and wet environments
- Exposure to a water environment
- Exposure to noise
- Exposure to vibration
- HIV/Aids and other diseases such as silicosis or asbestosis, where applicable
- Hazardous Biological Agents which could lead to epidemics and pandemics
- Use of portable electrical equipment including, but not limited to:
 - Angle grinder
 - Electrical drilling machine
 - Circular saw
 - Generator
- Excavations including, but not limited to:
 - Ground/soil conditions
 - Trenching
 - Shoring
 - Drainage of trenches
- Welding including, but not limited to:
 - Arc welding
 - Gas welding
 - Flame cutting
 - Use of LP gas torches and appliances
- Loading and off-loading of trucks, including material deliveries
- Manual and mechanical handling
- Lifting and lowering operations
- Driving and operation of construction vehicles and mobile plant including:
 - Trenching machine
 - Excavator
 - Bomag roller
 - Plate compactor
 - Front end loader
 - Mobile cranes and the ancillary lifting tackle
 - Grader
 - Parking of vehicles and mobile plant
 - Towing of vehicles and mobile plant
- Layering and bedding
- Installation of pipes in trenches
- Pressure testing of pipelines
- Backfilling of trenches

- Protection against flooding
- Gabion work
- Use of explosives
- Overhead Electrical Cables
- Work adjacent or in proximity of railway lines
- Work adjacent or in proximity of traffic
- Working in elevated positions
- Working in confined spaces – tunnelling
- Formwork and support work (temporary works) including scaffolding
- Demolition work, where applicable
- Bulk mixing plant, where applicable
- Environmental impacts such as pollution of water, air or soil

19.2 Daily Site Attendance Register

The Contractor shall keep a daily site register so as to be able to identify the entire Contractors personnel on site in case of an emergency or evacuation situation. The attendance register must include permanent as well as temporary workers working on the site.

All site visitors and any new contractors shall report to security / reception upon arrival at site. The Contractor will only be granted first time access to work on the site if all required documentation has been provided and approved.

All visitors need to sign an attendance register when visiting the site. Visitors include all persons which are not permanently working on the site, but excludes temporary site workers. Visitors must undergo site induction training before they are allowed on site to make them aware of the site dangers.

19.3 Emergency Numbers / Emergency Evacuation

A list with emergency numbers must be readily available to first aiders and supervisors. Emergency numbers must be site specific and must display the nearest emergency facilities.

The contractor shall identify and formulate emergency procedures in the event an incident does occur. The emergency procedures thus identified shall also be included in the contractor's OH&S plan, and communicated as part of induction training. It is the responsibility of the first aid worker, together with the construction supervisor, to make an assessment regarding the severity of injuries and which actions are appropriate. For example: transfer to a medical facility by ambulance or helicopter.

The Contractor must implement an emergency evacuation procedure on site to ensure that in case of an emergency, all staff will leave their place of work when the emergency siren is sound and proceed to the demarcated emergency assembly point. The emergency assembly point must display the sign "Emergency Assembly Point".

An evacuation route diagram must be displayed and visible at strategic points in buildings and on notice boards.

All staff working on site must be given awareness training on the emergency evacuation procedure and evacuation drills must be exercised to ensure all staff know the correct procedure to follow in case of an emergency.

19.4 Site Security

Certain areas where work must be carried out, is recognized unsafe areas and certain other areas may from time to time become unsafe, due to 3rd party actions. The Contractor must as far as reasonably possible anticipate unsafe areas and must ensure that his site staff is safe from 3rd party actions, which include but is not limited to:

- Unrests,
- Violent Demonstrations,
- Theft,
- Injury from 3rd parties at all times.

The Contractor must, when work is to be carried out in the above-mentioned areas, make provision for security services to accompany site staff during the execution of their work, as the Contractor is responsible for the Health, Safety and Security of his own staff. The provision for security services must form part of the Contractors tender.

19.5 Personal Protective Equipment

Comply with General Safety Regulations, Section 2

The contractor shall identify the hazards in the workplace and deal with them. He must either remove them or, where impracticable, take steps to protect workers and make it possible for them to work safely and without risk to health under the hazardous conditions.

Personal protective equipment (PPE) should, however, be the last resort and there should always first be an attempt to apply engineering and other solutions to mitigating hazardous situations before the issuing of PPE is considered. The hierarchy of hazard elimination must be followed before the option of personal protective equipment is considered. The following hierarchy of controls must be followed:

- Elimination
- Passive Controls
 - o Substitution – Using a cherry picker or man-lift instead of a ladder.
 - o Engineering Controls – Installing barrier railings; Installing stairs instead of using vertical ladders.
- Active Controls
 - o Administrative policies and procedures
 - o Personal protective equipment

Where it is not possible to create an absolutely safe and healthy workplace the contractor shall inform employees regarding this and issue, free of charge, suitable equipment to protect them from any hazards being present and that allows them to work safely and without risk to health in the hazardous environment.

It is a further requirement that the contractor maintain the said equipment, that he instructs and trains the employees in the use of the equipment and ensures that the prescribed equipment is used by the employee/s.

Employees do not have the right to refuse to use/wear the equipment prescribed by the Employer and, if it is impossible for an employee to use or wear prescribed protective equipment through health or any other reason, the employee cannot be allowed to continue working under the hazardous condition/s for which the equipment was prescribed but an alternative solution has to be found that may include relocating the employee.

The contractor shall include in his OH&S plan the PPE he intends issuing to his employees for use during construction and the sanctions he intends to apply in cases of non-conformance by his employees. Conformance to the wearing of PPE shall be discussed at the weekly inspection meetings.

The contractor shall ensure that all his personnel, excluding those who are permanently office bound, are equipped with reflective safety jackets and that these are worn at all times when working on site. Any person found not wearing a reflective jacket on site must be removed from the site until such time as he is in possession of and wearing a reflective jacket. Reflective safety jackets shall be kept in good condition and any jackets that are ineffective must immediately be replaced by the contractor.

19.6 Site Supervision

Comply with Construction Regulation, Section 8

The Contractor shall appoint a competent Construction Manager who shall be responsible for the construction activities and for ensuring occupational health and safety compliance on the construction site.

19.7 Working in Elevated Positions

Comply with Construction Regulation, Section 10.

The contractor shall ensure that a fall protection plan, developed by a competent person who is designated as the Fall Protection Plan Developer, is available on site and understood by all employees who will be working in elevated positions.

All employees working in elevated positions shall protect themselves from falls by wearing a full body harness and the lanyard shall be attached as far as possible above the head of the worker to a life line or other approved and tested anchor point.

In addition to obvious elevated work activities, work activities which include:

- Working on the edge of an excavation where there is a risk of falling into the excavation;
- Work on the edge of a vertical drop where there is a risk of falling;
- Work on top of tanker trucks and tanks;

shall be considered work in elevated positions and Section 10 of the Construction Regulations must be adhered to at all times. The hierarchy of controls must be implemented when such activities are carried out. As a minimum the employee must wear PPE, which shall include a full body harness attached to a restraint.

19.8 Structures

Comply with Construction Regulations, Section 11.

The contractor shall ensure that all practicable measures are taken to prevent the uncontrolled collapse of new or existing structures or any part thereof, which may become unstable or is in a temporary state of weakness or instability due to the carrying out of construction work. No structure may be loaded in a manner which would render it unsafe.

When a structure is of temporary nature, all conditions as required by the Construction Regulations Section 12 - Temporary Works, must also be complied with.

19.9 Excavations

Comply with Construction Regulations, Section 13

The Contractor shall ensure that all excavations are carried out under the supervision of a competent person who has been appointed in writing as Excavation Supervisor.

The Contractor must evaluate the stability of the ground before excavation work begins as well as during excavation work.

Excavations must be barricaded to prevent unauthorized access.

Material removed from excavations, as well as heavy machinery and construction vehicles, must not be closer than 1 meter of the edge of the excavation, to prevent additional loads on the excavation edge, which could cause cave-ins, to prevent construction vehicles from falling into the excavation and to prevent the accumulation of carbon monoxide gas inside the excavation.

People working in the excavation must be adequately protected from cave-ins, by means of protection systems such as trench boxes and shielding and must have a safe means of access into the excavation and egress from the excavation.

19.10 Scaffolding

Comply with Construction Regulations, Section 16, General Safety Regulations, Section 6 and SANS 10085 – The Design, erection, use and inspection of access scaffolding

The Contractor shall appoint a competent person in writing as scaffolding Supervisor. Scaffolding Inspectors and Scaffolding Erectors must be trained and found competent to carry out scaffolding work. It is important to note that only competent scaffold erectors are allowed to build the scaffolding. The scaffold inspector is not allowed to build the scaffold with the scaffold erector team.

Scaffolding shall be erected according to SANS 10085 and shall be tagged “safe for use” after inspection indicated that the scaffold is safe to use. The inspection of the scaffold shall be in writing and proof thereof shall be available for any user of the scaffold as well as for audit purposes.

Scaffold left erected while the Contractor is not in attendance, must be tagged with a “Not Safe for Use” tag and all reasonably practicable measures must be taken to prevent unauthorised access to the scaffold.

Scaffold must be inspected by the competent scaffold inspector on completion of the scaffold build, weekly thereafter or following severe weather conditions.

Hazards such as overhead power lines must be identified before the scaffold is build and must be reflected in the risk assessment.

When using mobile scaffold, employees and materials must be removed from scaffold before moving the mobile scaffold. Hazards such as overhead power lines must be identified before moving mobile scaffold and must reflect in the risk assessment.

19.11 Suspended Platforms

Comply with Construction Regulation, Section 17, SANS 10295-2 - Suspended access equipment Part 2: Temporary suspended platforms (TSPs)

All suspended platform work must be carried out under the supervision of a competent appointed Suspended Platform Supervisor. Suspended platform erectors, operators and inspectors must be competent.

The contractor must be in possession of a certificate of design for the use of the suspended platform system.

19.12 Cranes

Comply with Construction Regulation, Section 22, General Machinery Regulation, Section 18.

Crane operators must be competent to carry out their work safely and must be in possession of a valid medical certificate of fitness, issued by an occupational health practitioner.

19.13 Construction Vehicles & Mobile Plant

Comply with Construction Regulation, Section 23, National Road Traffic Act, 1996

Construction vehicle operators must have received training to operate the class of construction vehicle or mobile plant and must be in possession of an operators card as proof of competency. Construction vehicle operators must be authorised in writing and have a medical certificate of fitness issued by an occupational health practitioner to operate the construction vehicle and/or mobile plant.

19.14 Electrical Equipment

Comply with Construction Regulations, Section 24.

The contractor shall take adequate steps to ascertain the presence of and guard against danger to workers from electrical cables or apparatus which is under, over or on the site.

The exact location of underground electric power cables must be determined before any excavators are used for excavation purposes.

The location of overhead electrical cables must be assessed when working with cranes and lifting equipment. Injury may be possible from touching the electrical cables with the crane boom, or from arching when the crane boom comes too close to the electrical cable.

All temporary electrical installations must be inspected at least once a week by a competent person and the records of the inspections must be recorded in a register which must be kept on site.

Electrical machinery and extension cords must be in a serviceable condition and must be inspected on a daily basis before use on a construction site by the authorised operator and the inspection checklist must be kept on the construction site.

Electrical Installations

Comply with Electrical Installation Regulations.

All electrical installations shall be inspected and approved by an accredited electrical inspector and a valid Certificate of Compliance must be issued for the installation.

All electrical installations carried out on site (permanent and temporary) must be in accordance and comply with the Electrical Installation Regulations.

All power supplies and generating units must be fitted with a functional earth leakage device.

19.15 Temporary Storage of Flammable Liquids

Comply with Construction Regulation, Section 25 and General Safety Regulations, Section 4.

The Contractor must ensure storage areas of flammable liquids are well ventilated and “No Smoking” signs are placed at the entrances and ventilation ducts of the storage areas. Firefighting equipment must be available in suitable positions around the storage areas.

The Contractor must ensure that good housekeeping is practiced in and around the flammable storage areas.

19.16 Water Environments

Comply with Construction Regulation, Section 26.

The Contractor must ensure that a lifejacket forms part of the employees PPE and is worn when the employee is exposed to the risk of drowning, by falling into water.

The risk assessment must make provision for the rescuing of persons in danger of drowning and for preventing employees from falling into the water.

When working over water environments, Section 10 of the Construction Regulations – Fall Protection will also apply.

19.17 House-keeping

Comply with Construction Regulation, Section 27, Environmental Regulations for Workplaces, Section 6(3).

The Contractor shall ensure that suitable and acceptable house-keeping is continuously implemented and maintained on the construction site. Off-cuts and waste must be removed by the end of the shift or as soon as practicable.

19.18 Stacking & Storage of Material & Equipment

Comply with Construction Regulations, Section 28 and General Safety Regulations, Section 8.

The Contractor shall appoint a competent person in writing with the duty of supervising all stacking and storage operations on site.

Stacking shall only take place in areas specifically demarcated for this purpose. Circular items must be secured with wedges or chocks.

Items removed from a stack shall only take place from the top most layer of the stack.

Stacks shall not obstruct any fire extinguishing equipment, first aid equipment, electrical switchgear (DB Boxes) and ventilation or lighting installations.

Unstable stacks must be broken down immediately.

19.19 Fire Precautions

Comply with Construction Regulation, Section 29.

The Contractor must provide his own firefighting equipment that is within the service date and safe for use. Firefighting equipment must be on a register and inspected by a competent person who has been appointed in writing.

Suitable and sufficient fire extinguishing equipment must be placed at strategic locations and a sufficient number of firefighters must be available, which must be trained in the use of it.

19.20 Intoxicating Liquor and Drugs

Comply with General Safety Regulations, Section 2A.

The site limit for intoxication is set to 0 (zero) to complement a vision of zero tolerance.

Any person found to be intoxicated, or consuming intoxicating liquor or illegal drugs, will not be allowed onto the premises and/or will be removed from the premises.

The Contractor has the right to test any person entering the premises for intoxicating liquor or illegal drugs and may refuse entrance on the basis of the outcome of the test.

The Contractor shall ensure that employees taking prescription medicine informs the Contractor of such and shall ensure that the side effect of such medicine does not constitute a hazard to the employee himself or people working in close vicinity to the employee.

19.21 Confined Space Work & Tunnelling

Comply with Construction Regulation, Section 15 and General Safety Regulations, Section 5.

The Contractor shall ensure that only authorized persons enter confined spaces.

An entrance log must be kept to ensure people are not left inside the confined space. Adequate air monitoring must be carried out before entering the confined space. When air monitoring indicated the oxygen to be less than 20% by volume, the confined space must be purged and ventilated to obtain a safe atmosphere or self-contained breathing apparatus must be used.

19.22 Site Services

The Contractor shall provide and maintain on the Site adequate and suitable sanitary services and a supply of potable water for the Contractor's, the Employer's and the Engineer's personnel engaged on the Contract and, if necessary, similar facilities elsewhere for such personnel off the Site

Drinking Water

The Contractor must ensure that an adequate supply of potable drinking water is available for the Contractor's, the Employer's and the Engineer's personnel engaged on the Contract and, if necessary, similar facilities elsewhere for such personnel off the Site. Employees working in hot conditions must consume enough water per hour to prevent dehydration.

Where water is unsafe for human consumption, it must be so indicated by means of adequate signage.

Accommodation

The Contractor shall comply with the requirements of Construction Regulation 30 with regards to employee's facilities and accommodation. Reasonable and suitable living accommodation must be provided to employees who are far removed from their homes.

I _____, duly authorised to sign this Health and Safety Specification on behalf of _____ (the Contractor), do hereby declare that I acknowledge having read and understand this Health and Safety Specifications.

Signed at _____ on this _____ day of _____ 20_____.

Contractor Representative Name

Signature

Date

E3: OHS Audit Questionnaire

Refer to EXCEL file on CD

APPENDIX D

Integrated Transport Information System

ITIS Public User Registration

July 2018

Publication Details

Documentation Details

This document was developed for the South African National Road Agency (SANRAL). For content revisions, questions, or comments, contact the writer at itisissues@nra.co.za.

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Revision History

Revision	Description of Change	Author	Effective Date
0	Initial Release	K Niebuhr	July 2018

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Technical Support

For technical support please send an email to ITIS Support at itisissues@nra.co.za. The email needs to contain a short description of the problem in the Subject field. Please note that emails without a subject will be rejected. In the body of the email please describe your problem and provide your contact details.

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1. Registration

To register a new ITIS user, go to the ITIS website <https://itis.nra.co.za>

- i. Click on Register and accept the Term and Conditions and click on Next

The screenshot shows a web form titled "Register - Registration Category". At the top, it says "Please select service provider or authority user". Below this is a dropdown menu labeled "Registration Category" with "Public User" selected. To the right of the dropdown is a small blue downward arrow icon. Below the dropdown, there are two definitions: "Service Provider: Any person who has authorisation to work for a relevant roads authority and is not a direct employee of the authority." and "Authority User: Any person who is employed directly by a relevant roads authority. Please do not attempt to register here if you are not a direct employee as your registration will be declined." Below these is a red-bordered box containing the text: "Public User: Any person who is not employed directly by a relevant roads authority. Please do not register here if you are a direct employee." At the bottom of the form, there is a navigation bar with a green checkmark icon, the text "Registration Category", and three red buttons: "Previous", "Next", and "Close".

- ii. Select Public User from the dropdown on the registration category screen. Click on Next

Figure 1: Registration Category

- iii. Complete the User details form:

The screenshot shows a web form titled "Register - User Details". It contains several input fields: "e-Mail address", "Confirmation e-mail address", "Password", "Confirm password", "Security Question" (a dropdown menu with "Please select" as the selected option), "Security answer", "Name", and "Surname". Below these fields is a checkbox labeled "I have a valid RSA ID number" which is checked. At the bottom of the form, there is a navigation bar with a green checkmark icon, the text "User Details", and three buttons: "Previous", "Next", and "Close".

Figure 2: User Details

- **E-Mail Address** - This email address will be used as your user name to access this website and the ITIS software. Each user must have their own email address and users will not be allowed to share an email address
- **Password** - This password will be required when trying to access the website and the ITIS software. The password must contain at least 1 UPPERCASE letter, 1 lowercase letter, 1 special character and 1 number
- **Security Question** - Select a security question from the dropdown. This question will be used for confirmation when resetting your password
- **Security Answer** - Enter the answer to the question selected above
- **Name** - Your name
- **Surname** - Your surname
- **Telephone Number** - Your telephone number at the office
- **Mobile Number** - Your mobile number
- **Fax Number** - Your Fax number

- iv. Click on Next
- v. Enter the characters as seen on the Captcha Image and click on Register
- vi. Clicking on Register will send a verification email to the email address you specified. Open the email and click on the email verification link.

ITIS : User Account

New account

A request for access to <http://itisqa.nra.co.za/Portal/> was made:

User: Kallie Niebuhr

Organization: SANRAL

Product/s:

- Incident Capture - Module used for capture of Incident Data
- Project Info - Module used for capture of employment data
- RRM - Module used for the administration of routine road maintenance

[Click here](#) to verify your e-mail address.

Thanks,
The ITIS team

Figure 3: Verification Email

- vii. After a successful email verification, you should be able to Login

APPENDIX E

2nd TIER PROCUREMENT PROCEDURE

Procurement of Sub-services

Second (2nd) tier procurement include the procurement of any work where either the work is not scheduled or priced, or where the process of procurement of the sub-Service Provider is by means of a prescribed 2nd tier pro-forma document provided by the Employer. It includes the procurement of work where rates have been omitted or where allowance for work is made under provisional sum or prime cost sum.

The following procurement methods is to be followed:

- a) Where work is not scheduled but existing rates for similar work exist in the contract and the work can therefore be executed by the Service Provider or his Targeted Enterprise at existing rates.

No separate procurement process is required. The work is to be quantified and scheduled utilising existing rates and approved through the Works Authorisation process.

- b) Where work is scheduled and the payment calculation is based on a formula specified in the contract document, or where the payment rate is pre-determined or fixed by the Employer.

No separate procurement process is required. The work is to be quantified and approved through the Works Authorisation process.

- c) Where the supplier/sub-Service Provider is not selected by the Service Provider and actual cost is re-imbursable and no procurement process is possible.

No separate procurement process is required. The work is invoiced by supplier/sub-Service Provider on completion and approved through the Works Authorisation process at the end of the contract.

- d) Where there are omitted items as part of the existing scheduled scope of work and no existing rates for similar work exist in the contract.

A proposal for a new rate shall be submitted by the Service Provider and evaluated by the Employer, by comparing with either adjusted relevant rates in the contract, or by comparing with similar rates on similar contract, or by comparing 3 (three) informal quotes to substantiate the rate. The new agreed rate is approved through the Works Authorisation process.

- e) Where work is scheduled under a provisional sum or prime cost sum and the Employer prescribes a 2nd tier pro-forma either by quotation process or open tender process.

The work is to be procured by means of the 2nd tier pro-forma and approved through the Works Authorisation process.

- f) Where work is scheduled under a provisional sum or prime cost sum and there is no approved 2nd tier pro-forma available from the Employer and the estimated cost of the work is equal or less than R1 million.

A minimum of 3 (three) quotations shall be obtained from sub-Service Providers and approved through the Works Authorisation process.

The following is the minimum requirements for this process:

- Pre-qualification B-BBEE level 1-4 (approval to deviate must be granted by Transformation based on a market research.
- Quotation to include form of quotation, CSD registration, tax compliance certificate/PIN number and an original or certified copy of the original B-BBEE certificate.
- Quotations to be evaluated on price and preference.

- g) Where work is scheduled under a provisional sum or prime cost sum and there is not a approved 2nd tier pro-forma available from the Employer and the estimated cost of the work is more than R500 000.00.

The work is to be procured through an open tender and approved through the Works Authorisation process. The following is the minimum requirements for this process:

- Tenders to close at the office of the Employer.
- Pre-qualification B-BBEE level 1-4 (approval to deviate must be granted by Transformation based on a market research.
- Tender documents to include Form of Offer, CSD registration, tax compliance certificate/PIN number, an original or certified copy of the original B-BBEE certificate, SBD1, SBD4, SBD8, SBD9, SBD6.2 and Form A2.2.
- Tenders to be evaluated on price and preference.

- h) The following list of items is exempted from the provisions of paragraphs (f) and (g) and an indication of the method or minimum requirements are given under "Procurement Requirements".

Item no	Description	Unit	Procurement Requirements
32.01(c)	Toll fees	Prime cost	Method (c)
34.01(b)	Hiring of venue and/or coach	Prime cost	3 (three) quotations and B-BBEE for over *R30 000.00
35.01(d)(i)	Training by Contract Engineer	Prov sum	Method (b)
35.01(d)(ii)	Remuneration of ACE	Prov sum	Method (b)
35.01(d)(iii)	Disbursements	Prime cost	3 (three) quotations and B-BBEE for over *R30 000.00
35.03(a)	Site supervision staff	Prov sum	Salaries to be agreed with the Employer
35.03(c)	Project Liaison Officer	Prove sum	Method (b)
35.03(e)	Accommodation	Prov sum	3 (three) quotations and B-BBEE for over *R30 000.00
35.03(h)	Trainee (student)	Prov sum	Method (b)
35.04(a)	Travelling to perform duties	Prov sum	Method (b)
35.04(c)	Toll fees	Prime cost	Method (c)
36.03(a)	Disbursements	Prime cost	3 (three) quotations and B-BBEE for over *R30 000.00
36.06(b)	Liaison with PLC	Prov sum	Method (b) or (d)
36.06(c)	PLC stipend	Prov sum	Method (b)

* CSD to be checked first for service providers, if not available. CSD registration for the awarded service provider to be done.

PART C5: ANNEXURE
