Province of the
EASTERN CAPE
TRANSPORT

TENDER No: SCMU10-23/24-0002

FOR

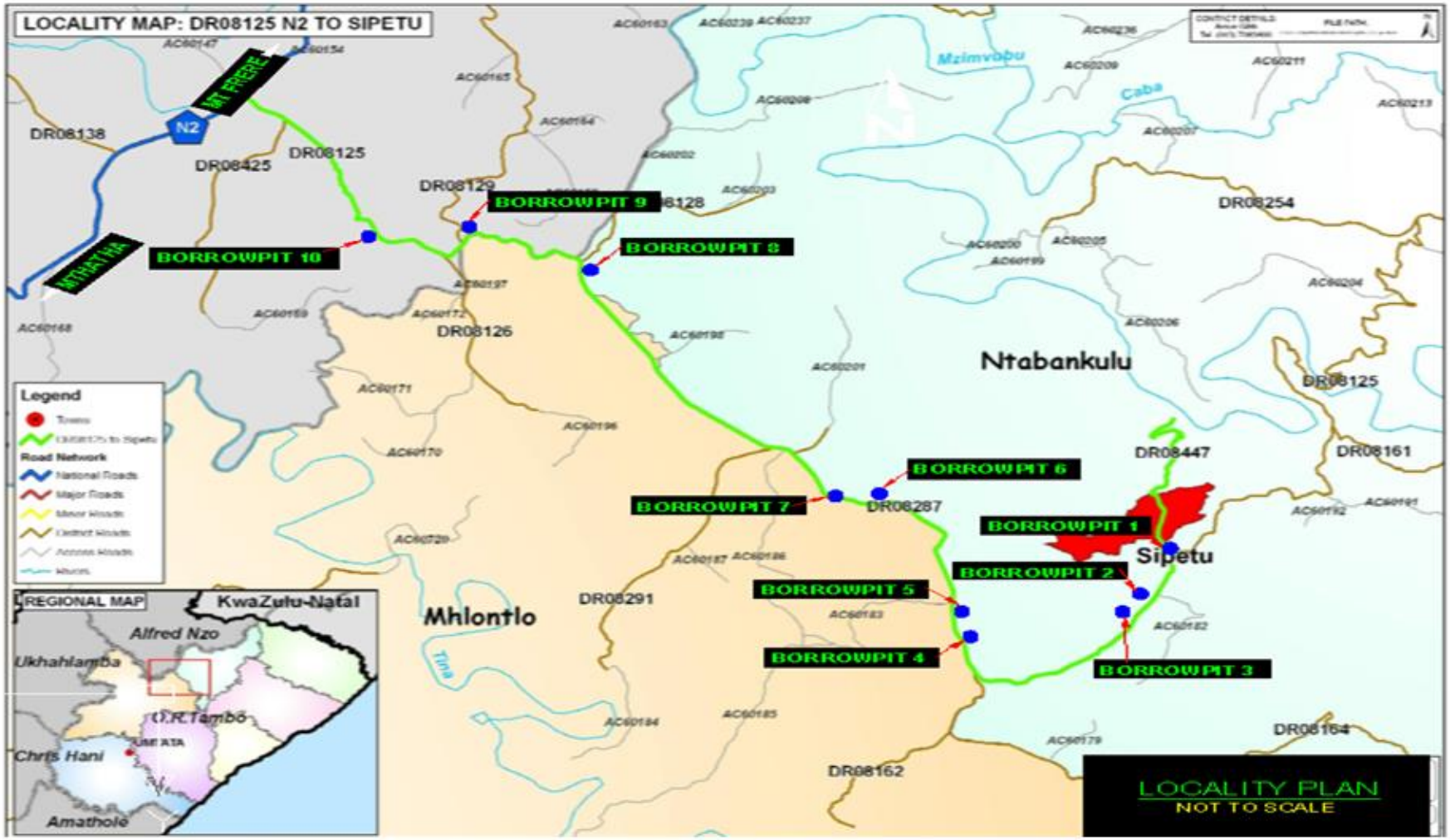
APPOINTMENT OF CIVIL ENGINEERING CONTRACTOR FOR THE UPGRADING OF DR08125 FROM THE N2 TO SIPETU HOSPITAL BETWEEN KM 10 AND KM 24 (14KM) PHASE 4A

Clarification Meeting 25 May 2023

AGENDA

- INTRODUCTION (PROJECT REPRESENTATIVE, ATTENDANCE REGISTER)
- LOCALITY MAP
- BRIEFING ON TENDER DOCUMENTS
- QUESTIONS
- TOUR OF THE SITE
- QUESTIONS
- ADMINISTRATION (ATTENDANCE REGISTER AND SIGNING OF FORM A)
- CLOSING

LOCALITY MAP



TENDERING VOLUMES

T1.2: TENDER DATA

F.1.2 Tender Documents

"The tender documents issued by the employer comprise:

VOLUME 1: The General Conditions of Contract for Construction Works [3rd Edition] 2015 are published by the South African Institution of Civil Engineering. This publication is available and tenderers must obtain copies at their own cost from the South African Institution of Civil Engineering [SAICE], Private Bag x200, Halfway House 1685, Tel: [011] 805 5971, email: civilinfo@saice.org.za

VOLUME 2: The Standard Specifications for Road and Bridge Works for State Road Authorities prepared by the Committee of Land Transport Officials. This publication is available and tenderers must obtain copies at their own cost from the South African Institution of Civil Engineering [SAICE], Private Bag x200, Halfway House 1685, Tel: [011] 805 5947, Fax [011] 805 5971, email: civilinfo@saice.org.za

TENDER VOLUMES

VOLUME 3: TENDER DOCUMENT

PART T1:	**TENDERING PROCEDURES**	
T1.1	TENDER NOTICE AND INVITATION TO TENDER	(WHITE)
T1.2	TENDER DATA	(PINK)
PART T2:	**RETURNABLE SCHEDULES**	
T2.1	LIST OF RETURNABLE DOCUMENTS	(YELLOW)
T2.2	RETURNABLE SCHEDULES	(YELLOW)
PART C1:	**AGREEMENTS AND CONTRACT DATA**	
C1.1	FORM OF OFFER AND ACCEPTANCE	(YELLOW)
C1.2	CONTRACT DATA	(YELLOW)
C1.3	DEED OF GUARANTEE	(YELLOW)
PART C2:	**PRICING DATA**	
C2.1	PRICING INSTRUCTIONS	(YELLOW)
C2.2	BILL OF QUANTITIES	(YELLOW)

PART T1:TENDERING PROCEDURES

PART C3: SCOPE OF WORK

C3.1 DESCRIPTION OF THE WORKS

C3.2 ENGINEERING

C3.3 PROCUREMENT

C3.4 CONSTRUCTION

C3.5 MANAGEMENT

PART C4: SITE INFORMATION

C4 SITE INFORMATION

VOLUME 4: THE ROAD WORKS DRAWINGS

(NOTE: THE VOLUME 4 DRAWINGS REFER TO THE ORIGINAL PHASE 4, THUS THEIR CONTRACT NUMBER DOES NOT MATCH THE CURRENT TENDER. THEY ARE HOWEVER DEEMED TO BE APPLICABLE TO THIS CONTRACT)

VOLUME 5: THE STRUCTURAL DRAWINGS (NOT APPLICABLE TO THIS CONTRACT)

VOLUME 6: ENVIRONMENTAL MANAGEMENT PLAN AND MATERIALS INVESTIGATION AND UTILISATION

PART T1: TENDERING PROCEDURES

T1.1 TENDER NOTICE

The Department of Transport of the Province of Eastern Cape hereby invites tenders from experienced civil engineering contractors for:

CONTRACT NO.: SCMU10-23/24-0002 for APPOINTMENT OF CIVIL ENGINEERING CONTRACTOR FOR THE UPGRADING OF DR08125 FROM THE N2 TO SIPETU HOSPITAL BETWEEN KM 10 AND KM 24 (14KM) PHASE 4A

Tenderers must be registered with the CIDB and have a valid CIDB contractor grading designation of **GRADE 9CE** for a Civil Engineering class of construction work.

To be considered for a Contract in terms of this Tender, the tenderer must be able to demonstrate the **completion of at least two (2) similar SURFACED ROAD UPGRADING PROJECTS in the past ten (10) years to the value of at least R 150 000 000 (One Hundred and Fifty Million Rand), within the South African Development Community (SADC) region.**

A similar road reseal project shall be defined as a surfaced road upgrading project. Details of roads related projects & supporting information must be entered in Form C of the Returnable Schedules. Copies of Completion Certificates must be attached, in order to qualify for this tender.

PART T1: TENDERING PROCEDURES

To be considered for a Contract in terms of this Tender, the tenderer must have in its employment or intend to employ, for the duration of the contract the following **key personnel** who comply with the minimum requirements as referred to T1.2: TENDER DATA of the document:

- **Construction Manager** with minimum of **ten (10) years**' experience in surfaced road upgrading project(s) as a Construction Manager and is **professionally registered** with ECSA as a Professional Engineer (Pr Eng.) or Professional Engineering Technologist (Pr Tech Eng) or Registered with SACPCMP as Professional Construction Manager (Pr CM).
- **Construction Health and Safety Officer** to manage the contractor's health and safety obligations on site with minimum of **five (5) years**' experience on road projects and is **professionally registered** with SACPCMP as a Professional Construction Health and Safety Agent (Pr CHSA) or Professional Construction Health and Safety Manager (Pr CHSM) or Professional Construction Health and Safety Officer (Pr CHSO) .

This project, which is a retender of Phase 4 of a four (4) phased Programme to upgrade the full 38 km length of road, is **14 km in length**. The scope of works involved in this project includes the full range of road works associated with the upgrading and reconstruction of an existing gravel road to a new surfaced road, which includes road widening and realignments.

PART T1: TENDERING PROCEDURES

The contract period is **24 months** which includes a 3 months mobilization and a 21 Months construction period.

Tender documents will be available as of Friday 12th MAY 2023 from the DoT Website (www.ectransport.gov.za) and Department of National Treasury eTender Publication website https://etenders.treasury.gov.za/www.etenders.gov.za ."

A **compulsory** clarification meeting will be held at Sipetu Hospital on the **25th May 2023 at 11:00 am**. No tender documents will be available at the clarification meeting.

Attendees who are 20 minutes late to the Briefing will not be permitted to sign the Attendance Register and therefore will be prohibited from tendering as per clause F.2.7.

Tenderers may seek clarification from the Employer in terms of this tender within 14 days from the date of advert and the **last day for accepting questions will be the 30th of MAY 2023.**

PART T1:TENDERING PROCEDURES

Tenderers are required to download any addenda issued by the Employer from the Eastern Cape Department of Transport Website www.ectransport.gov.za

The addenda will also be emailed to the contractors that attended the compulsory briefing. **Addenda will only be issued up to 7 (seven) days before the Tender Closing date**, ONLY addenda critical to the evaluation will be issued. NB: **The notice of the addenda will be issued on eTender portal of the Provincial Treasury.**

Furthermore, as a Condition of Contract the Contractor will be required to achieve minimum Employer's contract participation goals in terms of:

- **30% on Targeted subcontractors** employed by the Contractor, for the execution of portions of construction works, in the performance of the Contract; and
- **10% on Targeted suppliers** employed by the Contractor, subcontractor(s) and targeted subcontractors, for supplying materials, goods or services, in the performance of the Contract; and
- **10% on Targeted labour** employed by the Contractor, subcontractor(s) and targeted subcontractors in the performance of the Contract.

PART T1:TENDERING PROCEDURES

Completed tender documents (Volume 3 and any supporting documentation), placed in a sealed envelope, and clearly marked "CONTRACT NO.: SCMU10-23/24-0002: APPOINTMENT OF CIVIL ENGINEERING CONTRACTOR FOR THE UPGRADING OF ROAD DR08125 FROM N2 TO SIPETU HOSPITAL, BETWEEN KM 10 AND KM 24 (14KM) PHASE 4A" must be deposited in the Tender Box, located on the Ground Floor, Stellenbosch Park, Schornville, 32 Cowan Close, King William's Town, not later than **11:00am on the 13th June 2023** when tender offers will be opened in public.

PART T1:TENDERING PROCEDURES

A.PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT (PPPFA) POINTS WILL BEAWARDED AS FOLLOWS:

Maximum points on price - **90 points**
Maximum points for specific goals - **10 points**
Maximum points - **100 points**

PREFERENTIAL SPECIFIC GOALS POINTS TABLE		
The specific goals allocated points in terms of this tender	**Number of points allocated (90/10 system) (To be completed by the organ of state)**	**Number of points claimed (90/10 system)** **(To be completed by the tenderer)**
Historically Disadvantaged Individuals		
Black ownership	5	% ownership as per CIPC / CSD
Locality: -		
(a) Preferred address in the Eastern Cape in the last 3	5	
b) Alternative address in the Eastern Cape in the last 3 years	3	
(c) Outside Eastern Cape no satellite office in Eastern Cape: (i) including preferred address less than 3 years (ii) Alternative address less than 3 years	2	

PART T1:TENDERING PROCEDURES

Historically Disadvantaged Individual (HDI): Black Ownership

Means a South African Citizen: who, due to the apartheid policy that had been in place, had no franchise in national elections.

Central Supplier Database (CSD) report will be used.

It is the onus of the bidder to provide proof of ownership equity status

Locality:

Locality shall mean' Fully functional office within the Province of the Eastern Cape. Satellite shall mean an office with minimum staff of not more than 3 personnel running the office on fulltime.

Locality Points will be allocated for proof of local office operations in Eastern Cape. The primary address on CSD and proof of ownership under the bidding company will be used for choice Locality.

PART T1:TENDERING PROCEDURES

F.1.4	The Employer's agent is GIBB [Pty] Ltd acting through a Director, an Associate or an official of the JV, authorised thereto in writing: Name: Mr S. Schroeder Address: GIBB House 9 Pearce Street Berea East London 5241 Tel: 403 706 3600 Fax: 043 721 0141 E-mail: sschroeder@gibb.co.za

PART T1:TENDERING PROCEDURES

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

b) **It is a condition of this contract that the Employer reserves the right to limit the expenditure on the works due to possible budget restraints. Should the tender sum exceed the budgeted amount, the scope of works may be reduced at any time, before or during the contract period, to ensure that the final contract amount does not exceed the budgeted amount.**

c) **It is condition of this contract that, if the lowest bidder items of price happens to be the bidder that had a contract that was terminated by any sphere of government or by the employer, and or should the lowest bidder be the bidder that has contract with the department and yet declared not performing as per the General condition of a contract, the employer therefore reserves a right not award the contract to such a bidder.**

PART T1:TENDERING PROCEDURES

d) Should these conditions be applied, such adjustments or limitations shall be deemed to be a variation of the form or quantity of the works or any part thereof in terms of Clause 6.3 of the General Conditions of Contract. The validity of the tender, the individual rates or sums tendered shall not be influenced by any such adjustments or limitations and no claim will be considered on the basis of such adjustments or limitations in terms of Clause 6.11 of the General Conditions of Contract.

e) The successful Tenderer will be required to submit a valid and certified copy of their **Letter of Good Standing from the Compensation Commissioner or FEMA within 21 days of receipt of their Letter of Award for this Tender.**

f) The successful Tenderer will be required to submit a valid and certified copy of their **Letter of Good Standing from Bargaining Council for Civil Engineering Industry (BCCEI), within 21 days of tender award.**

g) Where it is found that a specific tenderer is eligible for the award of more than one contract, the employer reserves the right not to award more than one contract to such a tendering entity only if the Tenderer has submitted separate suitable Key Personnel for each tender/project, may an additional contract be considered for award to a single tendering entity. **The two contracts involved are:**

1. SCMU10-23/24-0001: APPOINTMENT OF CIVIL ENGINEERING CONTRACTOR FOR THE UPGRADING OF ROAD DR08034 FROM N2 TO R61 VIA CLARKEBURY (20KM) PHASE1.
2. SCMU10-23/24-0002: APPOINTMENT OF CIVIL ENGINEERING CONTRACTOR FOR THE UPGRADING OF ROAD DR08125 FROM N2 TO SIPETU HOSPITAL, BETWEEN KM 10 AND KM 24 (14KM) PHASE 4A

PART T1:TENDERING PROCEDURES

Only those tenderers who satisfy the following eligibility criteria are eligible to submit tenders:

a) CIDB registration

Joint ventures are eligible to submit tenders provided that:

- every member of the joint venture is registered with the CIDB and in the CE class of work
- the combined contractor grading designation calculated in accordance with the Construction Industry Development Board Regulations is equal to or higher than a contractor grading designation Grade 9CE.
- a signed Joint Venture Agreement must be attached with the tender.
- Tenderers must submit copy of Certificates of Qualifications and Professional Registration, otherwise they will not score the relevant points.
- Failure to comply with the above eligibility criteria will cause the tender to be rejected.

b) Company Experience in Roads Contract Management

Tenderer must have completed two (2) surface road upgrade projects of at least the value of R150 000 000.00, in the last 10 years, within the South African Development Community (SADC) region.

c) Key Personnel

Must meet the criteria stated above

PART T1:TENDERING PROCEDURES

F.2.12 The criteria for alternative tenders are:

No alternative tenders will be accepted.

F.3.13 Tender offer will only be acceptable if the tenderer :

a) Is registered on the Central Supplier Database at National Treasury with compliant Tax Status
b) Submitted proof of registration with the Bargaining Council of Civil Engineering Industry (BCCEI).
c) Is registered with the Construction Industry Development Board in an appropriate contractor grading designation (CE)
d) the tenderer or any of its directors is not listed in the Register of Tender Defaulters or the List of Restricted Suppliers managed by the National Treasury
e) the tenderer has not abused the Employer's Supply Chain Management System;
f) the tenderer has not failed to perform on any previous contract with the Employer;
g) the tenderer has completed and signed Form B (Certificate of Authority for Signatory) if applicable;
h) the Form of Offer is duly completed and signed
i) completed and signed the Compulsory Enterprise Questionnaire
j) has completed and signed all SBD Forms (SBD1; SBD4; SBD6.1; SBD6.2;)

PART T2:RETURNABLE SCHEDULES

PART T2.1: LIST OF RETURNABLE SCHEDULES

TABLE OF CONTENTS PAGE

SBD1 INVITATION TO TENDER

A: CERTIFICATE OF TENDERER'S ATTENDANCE AT CLARIFICATION MEETING

B: CERTIFICATE OF AUTHORITY FOR SIGNATORY

C: SCHEDULE OF ROADS MAINTENANCE/ROADS CONSTRUCTION WORK CARRIED OUT BY THE TENDERER IN PAST 5 YEARS

D: SCHEDULE OF CONSTRUCTION PLANT

E: SCHEDULE OF PROPOSED SUBCONTRACTORS

F: CONTRACTOR'S ESTABLISHMENT ON SITE

G: NOTICES TO TENDERERS

H: JOINT VENTURE DISCLOSURE FORM

I: RATES FOR SPECIAL MATERIALS

J: CONTRACTOR'S KEY PERSONNEL AND DETAILED CV'S

K: BANKING AND AUDITOR DETAILS

L : DECLARATION – FULFILLMENT OF THE CONSTRUCTION REGULATIONS, 2014

M : PROOF OF REGISTRATION WITH THE CONSTRUCTION INDUSTRY DEVELOPMENT BOARD

N : CENTRAL SUPPLIERS DATABASE (CSD)

O : PROOF OF REGISTRATION WITH THE BARGAINING COUNCIL (BCCEI)

PART T2:RETURNABLE SCHEDULES

P: COMPULSORY ENTERPRISE QUESTIONNAIRE

SBD 4 DECLARATION OF INTEREST
SBD 6.1 PREFERENCE POINTS CLAIM FORM
SBD 6.2 LOCAL PRODUCTION AND CONTENT

PART C1: AGREEMENTS AND CONTRACT DATA

C1.1 FORM OF OFFER AND ACCEPTANCE

C1.2 CONTRACT DATA

PART 1 : DATA PROVIDED BY THE EMPLOYER

CONTRACT SPECIFIC DATA (applicable to this contract)

1.1.1.13

The Defects Liability Period is 12 months measured from the date of the Certificate of Completion.

1.1.1.14

There will be a 3 month mobilisation period between the site handover date and the commencement of the Works. The time for completing the works is 21 Months including all relevant special non-working days.

1.1.1.15

The Employer is **THE DEPARTMENT OF TRANSPORT, EASTERN CAPE**, represented by the Head of Department and / or such other person or persons duly authorised thereto by the Employer in writing.

PART C1: AGREEMENTS AND CONTRACT DATA

1.1.1.26

The pricing strategy is a re-measurement Contract

1.1.1.35

Add the following Clause 1.1.1.35

"Value of Works" means the value of Works certified by the Employers Agent as having been satisfactorily executed and shall include the value of the work done, the value of the materials and/or goods and Contract Price Adjustments.

2.4.1

Add the following:

"In the event of any ambiguity, conflict or discrepancy between the various contract documents, lists and schedules, the order of precedence (from highest to lowest) shall be as follows:

1. Form of Offer and Acceptance and Schedule of Deviations
2. Contract Data
3. General Conditions of Contract (2015)
4. Scope of Works
5. Standard Specifications of Roads and Bridgeworks (1998)
6. Site Information
7. Construction Drawings
8. Bill of Quantities
9. The Returnable Schedules

PART C1: AGREEEMENTS AND CONTRACT DATA

"4.3.3 The Contractor shall assume responsibility for compliance with the Environmental Management Programme (**EMPR**) in respect of the sites and shall ensure that the sites are rehabilitated before the completion of the Contract."

(a) **The Contractor undertakes that the appropriate officials and employees of the Contractor will fully acquaint themselves with all relevant environmental documentation relevant to this project, namely:**

i] NEMA Authorisations for the project;

ii] MPRDA authorisations for the project;

iii] DAFF permits for the project;

iv] DWS authorisations for the project; and

v] DEDEAT approved EMPr.

4.4.2

Add the following:

The Contractor shall sub-let 30% of the Contract Value (excluding Provisional Sums) to SMME Sub Contractors who shall be registered on the National Treasury Central Supplier Database.

No separate payment shall be made for any costs incurred by the Contractor, whether direct or indirect, for his efforts in accomplishing the specified requirements of the Employer's Contract Participation Goals (CPG), and which are not recoverable from his rates tendered for the work packages sub contracted to SMME's

PART C1: AGREEEMENTS AND CONTRACT DATA

4.12.1

Add the following:

"**The Employer reserves the right, in his sole discretion, to remove any Contractor's superintendence on site which do not comply with the following qualification requirements:**

- Construction Manager	NQF 5 – Labour Intensive Construction
- Supervisor	NQF 4 – Labour Intensive Construction
- Team Leader	NQF 2 – Labour Intensive Construction

Clause 5.3.1:

The documentation required before commencement with Works execution are:

- An approved, project specific Health and Safety Plan (Refer Clause 4.3)
- Initial Programme (Refer Clause 5.6)
- Security/Performance Guarantee (Refer Clause 6.2)
- Insurances (Refer Clause 8.6)
- Signed agreement in terms of Section 37.2 of the OHS Act, 1993
- A valid Letter of Good Standing from the Compensation Commissioner or FEMA
- Proof of Registration and good standing with BCCEI

PART C1: AGREEEMENTS AND CONTRACT DATA

Clause 5.3.2:

The time to submit the documentation required before commencement with Works execution is within 14 days of receipt of the signed Form of Offer and Acceptance.

Clause 5.4.4:

Add the following new clause:

"The Contractor shall bear all costs and charges for special and temporary rights of way required by him in connection with access to the Site. The Contractor shall also provide at his own cost any additional facilities outside the Site required by him for the purposes of the Works."

Clause 5.8.1:

The non-working days are Sundays.

The special non-working days are:

All gazetted public holidays and the Contractor's year-end break as specified by SAFCEC.

Clause 5.13.1:

The penalty for failing to complete the Works is 1.00 cents/R 100 of Contract Sum per calendar day or part thereof.

Clause 5.14.5.5 and replace with:

"Insurance of the works shall continue until the expiration of the Defects Liability Period."

PART C1: AGREEEMENTS AND CONTRACT DATA

Clause 5.16.3:

The Latent Defects Liability Period is 10 years measured from the date of the Certificate of Completion.

6.2.1

The security to be provided by the Contractor shall be a Performance Guarantee to the value of 10% of the Contract Sum.

PART C1: AGREEEMENTS AND CONTRACT DATA

Clause 6.8.2:

The value of the certificates issued shall be adjusted in accordance with the Contract Price Adjustment Schedule with the following values:

The value of "x" is 0,15

The values of the coefficients are :

a = [0,20] (labour)

b = [0,40] (contractor's equipment)

c = [0,25] (material)

d = [0,15] (fuel)

The base month and year is the month prior to the month in which tenders close.

Clause 6.8.3:

Add the following:

"Price adjustments for variations in the costs of special materials (such as bitumen-based products) shall only be considered with supporting documentary evidence. Details of special materials are indicated in the Contract Data."

Clause 6.10.1.5:

The percentage advance on materials not yet built into the Permanent Works is 80%.

PART C1: AGREEEMENTS AND CONTRACT DATA

6.10.1.9

Add the following new clause:

> "The Contractor is required to submit completed, accurate and signed monthly Expanded Public Works Programme (EPWP) reports, attached to this tender document as Appendix C, together with all monthly payment certificates. Payment to the Contractor will not be processed until the EPWP reporting for a specific month is provided.

Clause 6.10.2:

Add the following:

> **"Payment for materials on site will only be considered for those materials which are physically on site. Any statement in which a claim for materials off site is included, shall have attached a declaration that the materials listed in the statement are owned by the Contractor, accompanied by proof of ownership. The ownership of materials shall be transferred to the Employer in accordance with the relevant pro-forma"**

Clause 6.10.3:

> The percentage retention on the amounts due to the Contractor is **10%. The limit of retention money is R 5 000 000.00**

6.11.1.3

Delete the words "15 percent and replace with "30 percent".

PART C1: AGREEEMENTS AND CONTRACT DATA

Clause 8.2.2.3

Add the following to the end of Clause 8.2.2.3

"risk arising from political riot and malicious damage, unless these risks are insurable with The South African Special Risk Insurance Association at the time of tendering, and it is stipulated in the Contract that the Contractor is to effect insurance against these risks".

Clause 8.6.1.1.2:

The value of Plant and materials supplied by the Employer to be included in the insurance sum is zero (R 0.00) rand.

Clause 8.6.1.1.3:

The amount to cover professional fees for repairing damage and loss to be included in the insurance sum is zero (R 0.00) rand.

Clause 8.6.1.3:

The limit of indemnity for liability insurance is **R15 000 000.00** for any single claim with the number of claims unlimited.

10.7.1

The determination of disputes shall be by ad hoc arbitration.

PART C4: SITE INFORMATION

C4.2 EMPLOYER'S OBJECTIVES

The Employer's objectives are to upgrade District Road DR08125 from Km 10 to Km 24 from gravel to surfaced standard. The project constitutes the 4th Phase of the upgrading of DR08125. Upgrading of Km 0 to Km 10 was completed in July 2015 (Phase 1) and upgrading of the section between Km 24 and the Sipetu Hospital was completed in March 2018 (Phase 2). Phase 3 was the operation of the hard rock quarry in the cutting at Km 22.

The opening and operation of the hard rock quarry was implemented prior to Phase 1 and 2 (of the road upgrade), under the control of Coega Development Corporation, but funded by ECDOT. The quarry operation was recently included on ECDOT's project list and since Phases 1 and 2 had already been included in their respective Project Descriptions, the quarry has been listed as Phase 3.

The description of the project contained in the Scope of Work is merely an outline of the Contract Works and shall not limit the work to be carried out by the Contractor under this Contract. Details of some of the major items are given in this Section and detailed quantities for each type of work to be carried out in accordance with the Contract Documents are included in the Bill of Quantities.

C4.3 OVERVIEW

This Contract (PHASE 4A) is a retender of Phase 4 for construction of approximately 14km of upgrading of gravel road to surfaced standard. The original contract for Phase 4 was terminated due to non performance. The current status of the works is indicated in the Table below.

PART C4: SITE INFORMATION

MAJOR ACTIVITIES	Progress % Complete
UPGRADING OF DR08125 FROM N2 TO SIPETHU HOSPITAL - PHASE 4	
Crushing & Screening (Cutting at Km 21)	33%
Traffic Accommodation	
Bypass Construction	
By Pass - B (Km 12 to Km 18)	75%
By Pass - C (Km 18 to Km 21)	75%
By Pass - D (Km 21 to Km 24)	60%
By Pass - E Mpongweni 2.56km (Km 8.8 to Km 11.36)	40%
By Pass - E Mpongweni 0.640km (Km 11.36 to Km 12)	30%
Section 1 from KM 10 to Km 12	
Earthworks	40%
Roadbed treatment (Ripping/blasting or pioneer layer)	0%
G7 SSG	0%
Subbase	0%
G2 Base	0%
Cape Seal	0%
Section 2 from KM 12 to Km 18	
Earthworks	30%
Roadbed treatment (Ripping/blasting or pioneer layer)	30%
G7 SSG	0%
Subbase	0%
G2 Base	0%
Cape Seal	0%
Section 3 from KM 18 to Km 21	
Earthworks	40%
Roadbed treatment (Ripping/blasting or pioneer layer)	0%
G7 SSG	0%
Subbase	0%
G2 Base	0%
Cape Seal	0%
Section 4 from KM 21 to Km 24	
Earthworks	0%
Roadbed treatment (Ripping/blasting or pioneer layer)	0%
G7 SSG	0%
Subbase	0%
G2 Base	0%
Cape Seal	0%
Resurfacing of Phase 1 from Km 0+000 to Km 10+000	0%
Resurfacing of Phase 2 from Km 24+000 to Km 38+000	0%
Finishing	0%
SMME Work Packages	4%
Procurement of materials	22%
Taxi Rank at Sipetu Hospital (Position Unknown)	0%
Phase 1 Additional Works - N2 to Km10 (stone pitching)	0%
Phase 2 Works from Km24 to Km38 (stone pitching)	0%

PART C4: SITE INFORMATION

The work to be executed under this contract comprises the following:

General

- Establishment of the contractor on site;
- Provision of offices and housing for the Engineer as well as a shared laboratory that will be under the control of the Engineer;
- Accommodation of traffic and the construction of deviations;
- The opening up and rehabilitation of borrow pits and quarries to source road construction materials;
- Mining of road construction materials in the cutting at Km 22, followed by earthworks to fill and shape the “quarry” to become a road cutting;
- The maintenance of the existing road and/or deviations until the contract has been handed over to the Employer; and
- Removal of site establishment.

Drainage

- The construction of small in situ box culverts with prefabricated deck slabs and in-situ inlet and outlet structures;
- The installation of sub-soil drains in cuttings as well as other locations;
- The construction of concrete lined side drains and grid inlets in cuttings;
- The construction of asphalt berms and down chutes on high fills;
- The construction of berms and down chutes at cuts; and
- The construction of erosion protection measures where required;
- The construction of pipe culverts complete, with inlet and outlet structures, to feed stormwater run-off through adjacent properties.

Roadworks

- Clearing and grubbing;
- Removal of topsoil for widening of the road;
- Roadbed preparation for widening of the road;
- Widening of existing cuts and fills including benching into old fills;
- Removal of existing road layer works to stockpile;

- The construction of imported selected layers;
- The construction of a stabilised subbase layer;
- The construction of a crushed stone base;
- The placing of a Cape Seal surfacing as per design.

Material Crushing Operations

- The operation of a hard rock quarry at the designated rock cutting (at SV 22.000) and production of road building material will form a crucial part of this Contract, since there is currently no fill (including pioneer layer), selected or G2 base material available. The crushed materials remaining in the quarry which consists mainly of subbase, will be available free of charge to the Contractor on this project.

- The onus rests on tenderers to verify the remaining quantities of crushed aggregates and price their tenders accordingly. Note that whilst every attempt has been made to secure the remaining stockpiles, the employer shall assume no liability for the quantity or quality thereof, which can be used for construction of the works.

- On completion of Phase 4 the Contractor will be responsible to rehabilitate the cutting in which the hard rock quarry is situated. Due the huge extent of such rehabilitation quantities have been allowed under Section B3300 for such rehabilitation.

- For the purposes of this tender the Contractor should allow for crushing all layer works, roadstone, concrete stone, road stone and gabion stone.

- Allowance has been made for establishment and re-erection of single, two stage crusher and multi stage crushers for this purpose.

Ancillary Roadworks

- Construction of bus/taxi stops without shelters;
- Construction of roundabouts and intersections;

- Fencing of the road reserve;
- The provision of road markings – retro-reflective, thermoplastic lines and cold plastic symbols and lettering.
- The installation of road studs;
- The installation of new road signs;
- The erection of guardrails;
- Top soiling and grassing of cut and fill slopes; and
- Finishing off the road reserve, spoil areas and borrow pits.

Labour-intensive Construction

It will be required that as much of the construction work as practically possible and feasible be undertaken by means of labor-intensive construction methods. This work shall be done in accordance with Part E: Labour Specifications of the Works Specification.

SMME Contractor Development Programme

The Employer has ring-fenced approximately 30 % of the budget in this project, for construction by SMME sub-contractors. This forms part of the Employer's SMME Development Programme, whereby the following will be expected of the Contractor:

- Identification of Works opportunities for SMME's
- Entering into sub-contract agreements
- Manage, supervise, train and mentor SMME's.

In addition the following work will be carried out in this project:

Phase 1 Km 0 – 10

- Construction of 882m of trapezoidal drain with stone pitching at Km 3
- Sandblasting of existing road marking, islands and symbols
- Removal of road studs

- Construction of a double seal using 14mm and 7mm aggregate
- Road marking after seal using retro reflective paint
- Cold plastic marking of symbols, lettering and islands
- Thermo plastic road marking of lines, 6 months after completion of Phase 4.

Phase 2 Km 24 – 37.19 including the access road to the hospital

- Demolishing of the old Sipetu Bridge
- Construction of the taxi rank at the hospital
- Fencing Km 24 to Km 30 and Km 33 to Km 37
- Construction of approximately 1 600m of 450Ø culverts between houses
- Approximately 1 200m of stone pitched trapezoidal drain
- 2 causeways consisting of 900Ø culverts with concrete slabs
- Cold plastic marking of symbols, lettering and islands
- Thermo plastic road marking of lines

C4.4 EXTENT OF THE WORKS

C4.4.2 Road Pavement

C4.4.2.1 Pavement Design

Surfacing: 20 mm Cape Seal.

Base: 150mm thick dense-graded un-weathered crushed stone (G2) base compacted to 86% of Bulk Relative Density

Sub-base: 150mm thick C4 chemically stabilized gravel sub-base layer compacted to 97% of Mod. AASHTO density. 0.75< UCS< 1.50Mpa @ 100 % Mod AASHTO density.

Upper Selected Layer	150 mm thick G7 natural gravel selected layer compacted to 95% of Mod. AASHTO density
Lower Selected Layer	150 mm thick G7 natural gravel selected layer compacted to 93% of Mod. AASHTO density
Roadbed:	Roadbed preparation per engineers instruction
Fill:	Min G7 quality natural gravel material from geometric improvements or sourced from borrow areas, compacted to 90% Mod AASHTO density up to 200mm below top of formation. The final 200 mm thick layer to be compacted to 93% Mod AASHTO density

C4.4.2.2 Pavement Materials

Crushed aggregate

The Contractor shall be required to crush blasted rock from the cutting at Km 22 for the G2 base and surfacing stone .

There are large quantities of oversize, blasted rock at the quarry at Km 22. Where possible the Contractor shall be required to break the oversize material down to a size that can fit into the crusher. No blasting of additional rock from the quarry shall be permitted without prior approval from the Engineer.

Sub-base

Limited quantities of crushed aggregates are available in stockpile at the cutting at Km 22 for the subbase. The remaining Sub-base material will be dolerite material obtained from either cuttings Provision has been made for the erection and re- erection of a mobile crusher to crush material from these sources. Sub-base material shall be type G6/G7 before stabilization.

Upper selected layer

Mudstone and/or siltstone may not be used for the upper selected layer, only dolerite or sandstone from the cuttings or borrow areas as indicated in Volume 6 or from cuts shall be used. Allowance has been made for crushing the selected layers.

Lower selected layer/fill

Suitable material for the construction of fills and the lower selected layer shall be imported from cuts and/or selected borrow pits as indicated in Volume 6.

Water

The Contractor shall monitor the quality of the water obtained from all sources on a regular basis and the contractor shall ensure that only water of an acceptable quality is used in concrete and the construction of the pavement layers and fills.

C4.4.4 Structures

C4.4.4.1 Bridges

There are no bridges on this section.

C.4.4.4.2 Major Box Culverts

There is one major box culverts on this section which has been completed, only backfill and headwalls are outstanding.

C4.11 CONTRACTOR'S CAMP SITE

The contractor will make his own arrangements regarding the location of his campsite, housing for site staff and facilities for the engineer. The contractor will have to liaise with the local council and/or the local community to find a suitable site. The chosen site shall also be subject to the approval of the Engineer and the Environmental Control Officer (ECO)

Prior to the establishment of the construction site, the Contractor shall produce a plan showing the positions of all buildings, yards, vehicle wash areas, fuel storage areas and other infrastructure. This plan shall be subject to the approval of the engineer and the Environmental Control Officer.

At the end of the contract, the site shall be restored as closely as possible to its natural state. The camp area shall be top soiled and grassed.

C4.16 COMMUNITY LIAISON OFFICER (CLO)

It will be required from the Contractor to employ a Community Liaison Officer (CLO) during the execution of the Works as specified in Part E: Labour Specification of this Works Specification.

PART C4: SITE INFORMATION

Questions?