

COMPULSORY CLARIFICATION BRIEFING MEETING

NRA 2024/1353

CONTRACT SANRAL R.061-060-2012/1

THE UPGRADING ON NATIONAL ROUTE R61 SECTION 6 FROM
TSOJANA (KM 7.3) TO TSOMO RIVER (KM 22.9)

WEDNESDAY, 9 JULY 2025

SANRAL



AGENDA



1 WELCOME

2 PROJECT OVERVIEW

3 DOCUMENTATION
(VOLUME 3)

4 SCOPE OF WORK

5 PROJECT SPECIFICATIONS

6 QUESTIONS AND ANSWERS

All questions during the tender period to be addressed to email address provided under clause C1.4 of the tender data. Any questions asked in this meeting will be recorded in the minutes and issued to all tenderers.

WELCOME



EMPLOYER:

1. SANRAL (Southern Region)
2. PLC and PLO (process to establish is underway)

REVISION OF CONTRACT NUMBER

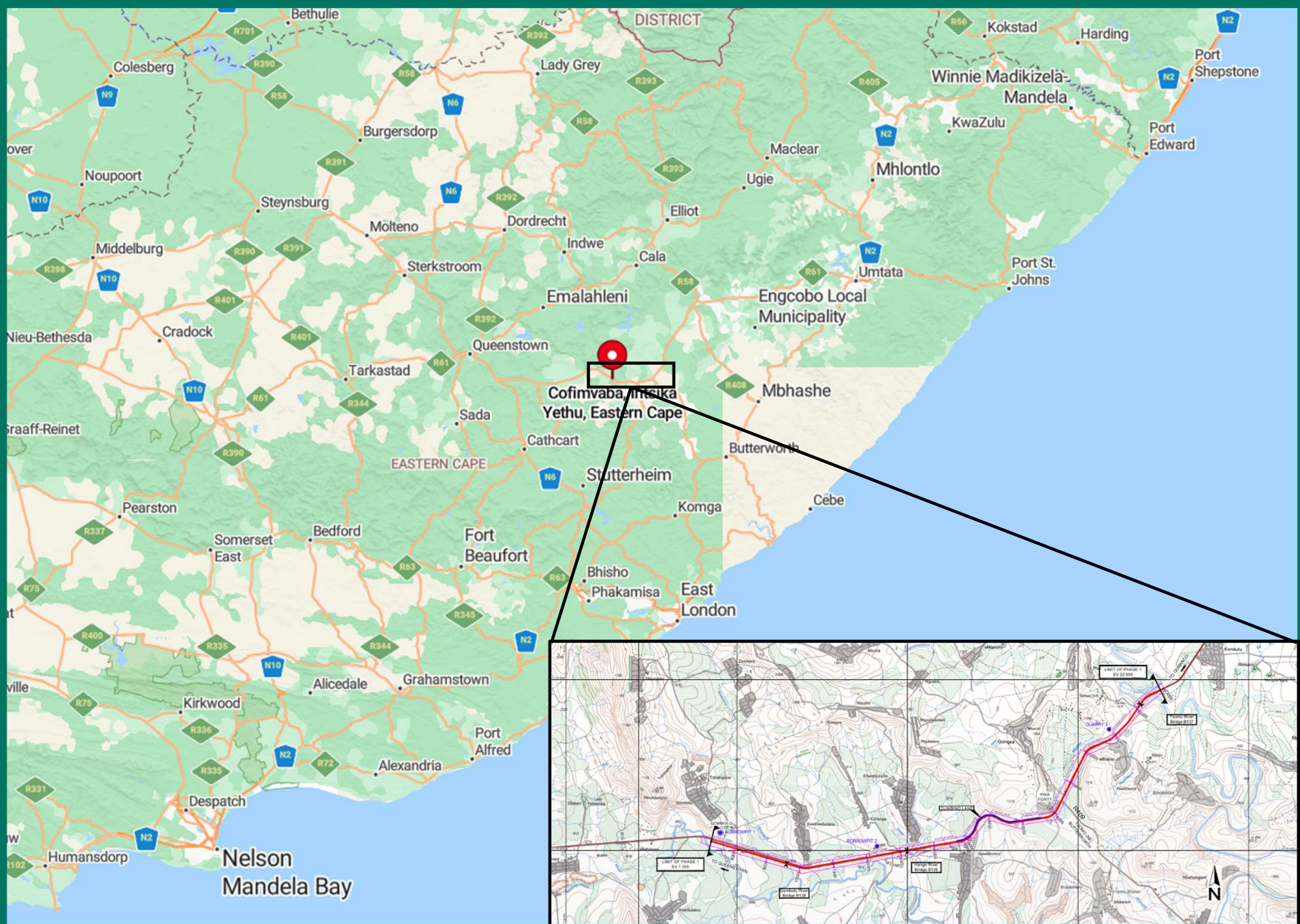
The Procurement Number for the Upgrading on National Route R61 Section 6 from Tsojana (km 7.3) to Tsomo River (km 22.9) is 2024/1353 and the Contract Number is CONTRACT SANRAL R.061-060-2012/1.

These two numbers shall be deemed to have the same meaning.

PROJECT OVERVIEW

PROJECT OVERVIEW

- The project entails the **upgrading** of the National Route R61 Section 6 from a **7.2 m surfaced width to a 13.4 m surfaced width**, starting from the Upper Tsojana intersection at km 7.3, on the eastern side of Cofimvaba, and ending at km 22.9 past the Tsomo River Bridge.
- It also includes ancillary works including the upgrading of intersections and accesses, drainage works, structural works, guardrails, road signs and road marking.
- The contract is located within the **Chris Hani District Municipality** and falls within the **province of the Eastern Cape**.



Locality Plan

DOCUMENTATION

DOCUMENTATION

CONTRACT DOCUMENTS

- Volume 1 :FIDIC Conditions of Contract (1999)
- Volume 2 :COTO Standard Specifications (Oct 2020)
- Volume 3 :Project Document
- Volume 4 :The Road Works Drawings.
- Volume 5: The structural drawings.
- Volume 6: Materials investigation and utilisation.
- Volume 7: Environmental Management Plan report.

DOCUMENTATION

CONDITIONS OF TENDER

- The conditions of tender are the standard conditions of tender as contained in Annexure C of the CIDB STANDARD FOR UNIFORMITY IN ENGINEERING AND CONSTRUCTION WORKS CONTRACTS as per Government Notice No. 423 published in Government Gazette No. 42622 of 08 AUGUST 2019 and as amended from time to time. (see www.cidb.org.za).

DOCUMENTATION

CONDITIONS OF TENDER – TENDER DATA

- Clause 3.11
- **Stage 1 Test for responsiveness** as outlined by the clause C3.8.
 - Tenderer must pass all Mandatory Criteria to proceed to next stage of Evaluation
- **Stage 2 Mandatory Administration Criteria**
 1. Completed in full and signed Form of offer
 2. Tenderer is registered with CSD
 3. Tenderer has Valid Letter of Good Standing issued in accordance COIDA.
 4. Attendance of compulsory briefing session.
 5. Lead Tenderer is CIDB contractor grading of 9CE (8CE Emerging Contractors will be **NOT** acceptable)
 6. 1X Contract Director has an active professional registration with Engineering Council of South Africa as Professional Engineer or Professional Technologist/ SACPCMP as Construction Manager/ Construction Project Manager

DOCUMENTATION

CONDITIONS OF TENDER

- Clause 3.11
- **Stage 2 Mandatory Administration Criteria...continue**
 - 7. 1X Contract Manager has an active professional registration with Engineering Council of South Africa as Professional Engineer or Professional Technologist/ SACPCMP as Construction Manager/ Construction Project Manager
 - 8. 1X Construction Manager has an active professional registration with Engineering Council of South Africa as Professional Engineer or Professional Technologist SACPCMP as Construction Manager/ Construction Project Manager
 - 9. 1X Construction Health and Safety Officer (CHSO) has an active registered as CHSO with SACPCMP

DOCUMENTATION

CONDITIONS OF TENDER

- Clause 3.11
- **Stage 3 Functionality Evaluation Criteria**
 - Overall **minimum** threshold of **75 points out of 100** is required to be achieved for the tender to be **eligible for further evaluation**.

Evaluation Criteria	Minimum points	Maximum points
<p>1.Relevant Company Project Experience</p> <p>Tenderer shall submit list of projects relevant to this tender scope of work which have been successfully completed within the last 15 years. Contactable client reference details/letter or Certificates of Practical Completion.</p> <p>Maximum of 4 projects will be evaluated:</p> <p>(i) If project has a construction value of R0 and up to but excluding R150 Million (inclusive of VAT) [0]</p> <p>(ii) If project has a construction value of R150 Million and up to but excluding R200 Million (Inclusive of VAT) [3]</p> <p>(iii) If project has a construction value of R200 Million or more (inclusive of VAT) [7]</p>	14	28



DOCUMENTATION CONDITIONS OF TENDER

• Clause 3.11: Stage 3 Functionality Evaluation Criteria...continue

<p>2. Key Personnel</p> <p>Tenderer shall submit list of projects relevant to this tender scope of work which have been successfully completed within the last 15 years.</p>		
<p>Maximum of 4 projects will be evaluated:</p> <p>2.1 Contract Director Relevant Project Experience</p> <ul style="list-style-type: none"> (i) If project has a construction value of R0 and up to but excluding R100 Million (inclusive of VAT) [0] (ii) If project has a construction value of R100 Million and up to but excluding R150 Million (Inclusive of VAT) [1] (iii) If project has a construction value of R150 Million and up to but excluding R200 Million (Inclusive of VAT) [2] (iv) If project has a construction value of R200 Million or more (inclusive of VAT) [4] 	<p>9</p>	<p>18</p>
<p>2.2 Contract Director Qualification</p> <ul style="list-style-type: none"> (i) Minimum National Diploma in Civil Engineering/NQF 6 in Civil Engineering [1] (ii) NQF 7 in Civil Engineering or higher degree [2] <p>Tenderer shall submit proof of qualification.</p>		

DOCUMENTATION

CONDITIONS OF TENDER

- Clause 3.11: Stage 3 Functionality Evaluation Criteria...continue

Maximum of 4 projects will be evaluated		
2.3 Contract Manager Relevant Project Experience		
(i) If project has a construction value of R0 and up to but excluding R100 Million (inclusive of VAT) [0]		
(ii) If project has a construction value of R100 Million and up to but excluding R150 Million (Inclusive of VAT) [1]		
(iii) If project has a construction value of R150 Million and up to but excluding R200 Million (Inclusive of VAT) [2]	9	19
(iv) If project has a construction value of R200 Million or more (inclusive of VAT) [4]		
2.4 Contract Manager Qualification		
(i) Minimum National Diploma in Civil Engineering/NQF 6 in Civil Engineering [1]		
(ii) NQF 7 in Civil Engineering or higher degree [3]		
Tenderer shall submit proof of qualification		



DOCUMENTATION CONDITIONS OF TENDER

• Clause 3.11: Stage 3 Functionality Evaluation Criteria...continue

<p>Maximum of 4 projects will be evaluated</p> <p>2.5 Construction Manager Relevant Project Experience</p> <p>(i) If project has a construction value of R0 and up to but excluding R100 Million (inclusive of VAT) [0]</p> <p>(ii) If project has a construction value of R100 Million and up to but excluding R150 Million (Inclusive of VAT) [1]</p> <p>(iii) If project has a construction value of R150 Million and up to but excluding R200 Million (Inclusive of VAT) [2]</p> <p>(iv) If project has a construction value of R200 Million or more (inclusive of VAT) [4]</p>	<p>9</p>	<p>19</p>
<p>Construction Manager Qualification</p> <p>(i) Minimum National Diploma in Civil Engineering/NQF 6 in Civil Engineering [1]</p> <p>(ii) NQF 7 in Civil Engineering or higher degree [3]</p> <p>Tenderer shall submit proof of qualification</p>		



DOCUMENTATION CONDITIONS OF TENDER

• Clause 3.11: Stage 3 Functionality Evaluation Criteria...continue

<p>2.3 Construction Health and Safety Officer Project experience.</p> <p>Maximum of 4 projects will be evaluated</p> <p>(i) If project has a construction value of R0 and up to but excluding R100 Million (inclusive of VAT) [0]</p> <p>(ii) If project has a construction value of R100 Million and up to but excluding R150 Million (Inclusive of VAT) [1]</p> <p>(iii) If project has a construction value of R150 Million and up to but excluding R200 Million (Inclusive of VAT) [2]</p> <p>(iv) If project has a construction value of R200 Million or more (inclusive of VAT) [4]</p>	8	16
<p>Total</p>		100%

DOCUMENTATION

CONDITIONS OF TENDER

- **Clause 3.11: Stage 4: Price and Preference Scoring**
 - This is the final stage of the evaluation process and will be based on the PPPFA preference point system
 - Tenderers will be ranked by applying the preferential point scoring 90/10 for bids with the rand value above R50 million.
- In addition to the electronic tender briefing, it is advised that tenderers conduct a physical site visit.
- Any questions and clarifications of a technical or contractual nature arising from the visits shall be submitted as Tender Clarification Questions.

DOCUMENTATION

CONDITIONS OF CONTRACT

- FIDIC Conditions of Contract
- Particular Conditions of Contract – **Clause 1.5 Priority of Documents**
- **Clause 2.1** “Right of Access to the Site” subject to:
 - Performance Security
 - Permit from Department of Labour in place
 - Contract Participation Plan (CPG Plan) being accepted
- **Clause 2.1** “Delayed Access to part(s) of the Site”
 - The Contractor shall **programme the Permanent Works** to allow a period of **at least six (6) months after the Commencement Date** for the **relocation of existing services affected** by the Permanent Works.
- **Clause 4.2** “Performance Security”
 - Submit at least 7 working days prior to Commencement
 - **One** Performance Security **totaling 10%** of the Accepted Contract Amount (excluding VAT) is required.

DOCUMENTATION

CONDITIONS OF CONTRACT

- Clause 4.4 “Sub-Contractors and Suppliers”
- Clause 6.1 “Engagement of Staff and Labour”
 - Transport of labour shall be arranged through the **use of local public transport service providers.**
- Clause 6.9 “Black Contractor’s Personnel employed on the Site”
 - The **number of black people employed full-time** by the Contractor on Site and who are not paid an hourly wage, **shall exceed 40% of the total number of Contractor’s Personnel employed full-time.**
- Clause 8.1 “Commencement of Work”
 - Envisage that an **award** will take place in **Feb/Mar 2026** with a site handover / commencement in **Mar/Apr 2026.**

DOCUMENTATION

CONDITIONS OF CONTRACT

Clause 8.3 “Programme submission”

- The Contractor shall submit a programme for the Mobilisation Period to the Engineer at least 7 days prior to the Commencement Date.
- Time for completion of construction is 33 months, which excludes a 3 month’s Mobilisation Period (i.e. total time for completion is 36 months).
- Clause 8.3(m) “Restricted working conditions”
 - Additional restricted working conditions as listed in Volume 3 Book 3 Part C3: Scope of Works, clause(s) A1.5.7.3,
- Subcontractors and Suppliers
 - The contractor shall disclose ALL subcontracting arrangements. If the contractor fails to disclose, he shall be given 14 days to make representation as to why:
 - the contract shall not be terminated,
 - the contractor shall not be penalised up to 10% of the value of the contract.

DOCUMENTATION

CONDITIONS OF CONTRACT

Subcontractors and Suppliers... continued

- The percentage of the contract value that may be sublet is dependent on the Min. TE subletting targets and shall not exceed the Max. subcontracting allowed % as per the following table :

Minimum Targeted Enterprise (TE) subletting (%)	Maximum Subcontracting allowed (%)
≤30	50
>30 to ≤40	60
>40 to <45	65
≥45 to <50	70
≥50	80

DOCUMENTATION

CONDITIONS OF CONTRACT

Subcontractors and Suppliers... continued

- All subcontractors and suppliers shall be registered on the National Treasury's Central Supplier Database (CSD)
- All Subcontractors shall be in good standing in terms of COIDA and shall be registered with the Bargaining Council for the Civil Engineering Industry or other relevant Bargaining Council, i.e.
 - rates for wages and conditions of labour agreed by the Bargaining Council for the Civil Engineering Industry shall apply to the Contractor and all his Subcontractors except where a specific industry publishes its own wage rates and conditions of labour.
- All Subcontractors shall be registered with the CIDB in the appropriate category for the class of work to be performed.

DOCUMENTATION

CONDITIONS OF CONTRACT

- **Special Non-working days**
 - All designated public holidays (incl. foreseeable statutory declared election days)
 - SAFCEC annual shutdown period
 - Day before Easter Weekend
 - Day of State school term closure and day prior to State school term start
 - Sundays
 - Between sunset and sunrise
- **Embargo Period**
 - Seal Embargo Period for hot applied binders is the period during the months of May, June, July and August.
 - Where a Cape Seal is constructed, and as agreed by the Engineer, the use of a Class SC-E1(t) emulsion tack coat will be permitted during the Seal Embargo Period.

DOCUMENTATION

CONDITIONS OF CONTRACT

- Penalty for late completion R77 000.00 per day
- Other Non-compliance charges
 - Non-compliance to requirements of clause A8.3(m) for Accommodation of traffic restrictions during the contractor's annual shutdown period between December and January – R100 000.00 /day.
 - Accommodation of traffic non-compliance as specified in C3 Clause A1.5.3.7:
 - (i) Fixed penalty – R20 000.00/occurrence.
 - (ii) Time related penalty – R2 000.00/hour.
 - Overloading – $2 \times \text{Unit Rate of material hauled} \times \text{overload factor} \times \text{distance hauled}$ as specified in Part C3 clause A1.7.7 the Scope of Works.
 - Contract Participation Targets – Calculated as per D1003.05
 - Contract Skills Development Goal Penalty – Calculated as per D1010.02
 - Subcontracting without disclosure or non-compliance to subcontract agreement requirements or failure to comply with responsibilities towards Targeted Enterprises (as per D1008(b))
 - Layer irregularities – $\text{Base quantity}/100\text{m} \times \text{unit rate} \times \text{payment adjustment factor}$.

DOCUMENTATION

CONDITIONS OF CONTRACT

- Special Materials
 - None (There are no Special Materials specified on this Contract)
 - Indices for the Materials in the CPA formula now includes bitumen
- Retention money
 - Percentage: 10% of the value of work.
 - Limit: 5% of the Accepted Contract Amount (Including VAT).
 - Guarantee: This will be considered provided that the tenderer submits his proposal as an alternative tender and provided that a discount equal to or more than R 8 000 000.00 is offered.

DOCUMENTATION

CONDITIONS OF CONTRACT

- Appointment of DAB shall comprise of **three (3) Member** and its **appointment to be no later than 60 days after Access to Site**, or in the event that a dispute arises prior to Access to Site, **not later than 30 days** after a dispute arises between the Parties.
- For a 3 Member DAB:
DAB Chairperson to comply with the following minimum requirements:
 - **Senior Counsel / Attorney**; and
 - **More than 15 years' experience** in commercial, construction, administrative and contract law
 - Experience in the application of **FIDIC Conditions of Contract** not required but preferred.OR
 - **Pr.Eng or Pr. Tech Eng** with 25 years' experience; and
 - **Formal qualification** in adjudication, arbitration and/or experience in mediation; and
 - **15 years' experience in Contract Management** (as the Engineer to the Contract) and **Dispute Resolution** (as per the FIDIC Conditions of Contract).

DOCUMENTATION

CONDITIONS OF CONTRACT

- For a 3 Member DAB:
Two DAB Members (Roads & Bridges) each to comply with the following minimum requirements:
 - **Pr.Eng or Pr. Tech Eng** (with civil engineering background) or be on the latest SAICE President's list of alternative dispute resolution professionals; and
 - **More than 20 years' experience** in the type of construction involved in the Works – Roads & Bridges; and
 - **Formal qualification** in adjudication, arbitration and/or experience in mediation; and
 - **Experience in Contract Management** as the Engineer of the Contract; and
 - **Experience in Dispute Resolution** as per the FIDIC Conditions of Contract.

SCOPE OF WORK – SITE INFORMATION

SCOPE OF WORK – SITE INFORMATION

PROJECT LIMITS

(a) Contract Start

The contract starts at **km 7.3**, before the intersection of the **Quombola Village (km 7.6)**.

(b) Contract End

The contract end at **km 22.9**, 700 meters past the **Tsomo River Bridge**.

(c) Intersection Roads

The **R409 (Tsomo/N2 Butterworth)** has an at-grade intersection at **km 18.34**.

There are also **seven** other formalised intersections at existing accesses to villages along the route (**km 7.62; km 10.42; km 12.7; km 13.28; km 14.65; km 20.62; km 21.60**).

(d) Bridges

Five river bridges and four major culverts

SCOPE OF WORK – SITE INFORMATION

UPGRADING/WIDENING

- Cross section
 - The existing National Route R61 is a single carriageway with 2 x 3.6 m lanes and 2.5 m gravel shoulders.
 - To be upgraded to 2 x 3.7 m lanes with 3.0 m surfaced shoulders and a 0.5 m rounding on both sides, providing a total formation width of 13.4 m for a standard cross section.
- Climbing lanes
 - Climbing lanes will be constructed between km 15.02 to km 17.58 on the left-hand side (Eastbound direction), to accommodate 2 x 3.7 m outer lanes and 1 x 3.5m through lane with a 1.0 m surfaced shoulder and a 0.5 m rounding.

SCOPE OF WORK – SITE INFORMATION

PAVEMENT – TEMPORARY DEVIATIONS

- Construct surfaced temporary deviations as may be required as indicated below.
- Clear the road reserve and strip topsoil as required.
- Construct cuts as required by the deviation vertical alignment.
- Compact the roadbed to a depth of 150mm to 93% (100% for sand) of MDD.
- Construct fills with material from cuts or borrow pits as required by the deviation vertical alignment with compaction to 93% (100% for sand) of MDD.
- Using material imported from quarries or commercial sources construct a 200mm cement stabilized C3 upper (base) layer (using G5A subbase material) compacted to 98% of MDD.
- Prime the layer using conventional bitumen emulsion prime (quick drying).
- Construct a single seal and slurry surfacing using 65% cationic spray grade emulsion, 10mm precoated Class A aggregate and a layer of fine slurry (fine grade).
- Complete the deviation by applying the necessary road marking allowing for two 3.5 m wide lanes.

PAVEMENT – TEMPORARY EXISTING ROAD WIDENINGS

- Construct temporary surfaced road widening adjacent to the edge of the existing surfacing to provide a minimum 3.5m wide lane for use by the public traffic while the first half width of the new carriageway is completed.

SCOPE OF WORK – SITE INFORMATION

PAVEMENT – TEMPORARY EXISTING ROAD WIDENINGS

- The total width of additional surfacing to be provided will be approximately 2.5 m and the width is to be adjusted according to site conditions, and agreed by the Engineer, to allow for the minimum 3.5 m lane width plus any other width required for the erection of traffic control signs/devices and the width required for the first half width construction.
- Clear the road shoulder and strip topsoil as required.
- If the existing shoulder material is not considered to be suitable for in situ reconstruction of a temporary widening, box out the in situ material to a depth of 200 mm if only a base is required or 350mm if a subbase is also required.
- Compact the floor (roadbed) of box to a depth of 150mm thick to 93% (100% for sand) of MDD.
- If a lower layer is required use material imported from cuts or borrow pits construct a 150mm lower (subbase) layer (using G7 selected material) compacted to 95% of MDD.
- Using material imported from commercial sources construct a 200mm cement stabilized C3 upper (base) layer (using G5A subbase material) layer compacted to 98% of MDD.
- Prime the layer using conventional bitumen emulsion prime (quick drying).
- Construct a single seal and slurry surfacing using 65% cationic spray grade emulsion, 10 mm precoated Class A aggregate and a layer of fine slurry (fine grade).
- Complete the temporary widening by applying any necessary road marking to allow for one 3.5 m wide lane which will be used to accommodate one-way traffic using stop/go controls during the construction of the first half of the permanent works.

SCOPE OF WORK – SITE INFORMATION

PAVEMENT - PERMANENT

- Roadbed treatment, compaction to 93% of MDD or roller pass compaction as instructed by the Engineer.
- Fill construction, **normal and coarse fill** compaction to **93% of MDD**.
- 150 mm lower selected layer, **G7 quality** compacted to 95% of MDD.
- 150 mm upper selected layer, **G7 quality** compacted to **95% of MDD**.
- 250 mm subbase layer, **G5A quality** cement stabilised to **C3** compacted to **97% of MDD**.
- 150 mm base layer, **G1 quality** compacted to **88% of AD**.
- **Priming** using either **MC-10** or **MC-30 cut-back bitumen** or a **conventional bitumen emulsion** prime (quick drying) as instructed by the Engineer.
- **Cape seal surfacing** using 20 mm aggregate and two slurries (**1st slurry a Fine slurry "Medium" to "Coarse" grade & the 2nd slurry a Fine slurry "Fine" grade**). The tack coat shall either be, a hot applied polymer modified binder (**Class S-E1**) or a homogenous cold applied modified binder (spray-grade emulsion binder (**Class SC-E1 (t) (70-73)**)). If the tack coat is a Class SC-E1 (t) (70-73) emulsion, **a cover spray** using a diluted cationic spray-grade emulsion (60% bitumen) diluted 50% emulsion / 50% water **shall be applied**.
- **Bridge decks** - 65 mm continuously graded sand skeletal mix asphalt using 14 mm NMPS aggregate, and PG58S-22 elastomer modified (A-E2) binder.
- **3 major intersections** will be surfaced **using a 45 mm thick sand skeletal mix continuously graded surfacing** (binder: PG58S-22 (A-E2 modified), NMPS: 14 mm).

SCOPE OF WORK – SITE INFORMATION

STRUCTURAL WORKS

(a) Bridges

- There are five (5) bridges on this section of the R61 Section 6 between km 7.3 and km 22.3 all of which will require widening to accommodate the road's new cross-section as follows:

Bridges			
Location	Bridge No.	River Name	Structure Type
Km 9.595	R.061_06E_T138	Qombolo	Simply supported 4 spans
Km 13.175	R.061_06E_IDB 0221	Hange Tributary1	Simply supported single span
Km 13.324	R.061_06E_B136	Hange	Simply supported 2 spans
Km 20.664	R.061_06E_IDB0220	Mkwinti	Simply supported single span
Km 22.136	R.061_06E_T137	Tsomo	Simply supported 4 spans

(b) Major Culverts

- There are four (4) major culverts on this section of the road between km 7.3 and km 22.3.

Location	Culvert number	Structure size (existing)
Km 10.929	C192	1.8m x 2.55m box culvert
Km 11.781	C191	(4.5m + 4.3m) x 3.6 box culvert
Km 17.858	C0894	New structure
Km 18.572	IDC217 / C0830	(2m x 2.5m) x 1.8m box culvert

SCOPE OF WORK – SITE INFORMATION

ANCILLARY WORKS

- Intersections / Accesses
 - Upgrading of eight (8) intersections, with turning lanes and bus-bays. Closing of informal accesses.
 - Two new intersections with turning lanes
 - Provision also made for concrete edge beams and cattle grids as directed by Engineer.
- Drainage
 - Installation/replacement of approx. 39 minor culverts.
 - Construction of new concrete side drains.
 - Subsoil drains: to be installed along the new concrete side drain sections. Provision also made to test the existing drainage systems.
 - Construction of down chutes at high fills and guardrails.
 - Construction of new earth drains, and re-shaping of existing earth drains.
- New gabions and gabion mattresses

SCOPE OF WORK – SITE INFORMATION

ANCILLARY WORKS (CONT.)

- Guardrails and Type-A concrete drains
 - Removal and reinstatement of existing guardrails to the standard height of 600mm.
 - Provision of new guardrail sections.
 - Type-A concrete drains at guardrail sections as indicated.
- Fencing
 - Provision made to remove and replace fencing.
- Road signs
 - Replacement of all signs.
 - Replacement of all danger plates.
 - Provision of new road signs and km markers.
- Road markings and studs
 - Temporary (completion of asphalt inlay) and permanent road marking (solvent-based).
 - Installation of temporary and permanent road studs.
 - Thermoplastic markings before the end of DLP.

SCOPE OF WORK – SITE INFORMATION

SERVICES

- Telkom overhead fibre (to be relocated)
 - km 7.30 to km 18.33 on the contract right-hand side
 - crossing at km 18.33
 - km 18.33 to km 22.90 on the contract left-hand side
- Eskom overhead
 - Crossings at km 13.32; km 15.35;
 - Crossings at km 17.835 (relocate); km 18.005 (relocate); km 18.33 (relocate)
 - km 18.00 to km 18.005 RHS (relocate); km 18.005 to km 18.33 LHS (relocate)
- Water pipes
 - km 13.175 steel water pipe crossing (protect in sleeve);
 - km 13.175 to km 13.200 LHS, steel water pipe (protect in sleeve under bridge sidewalk);
 - km 17.700 water pipe crossing (protect in sleeve);
 - km 20.645 80mm water main crossing to be relocated.

SCOPE OF WORK – SITE INFORMATION

SMALL CONTRACTOR DEVELOPMENT, TRAINING AND COMMUNITY LIAISON

- There are **expectations** in the local communities that they will be **given employment and business opportunities** to **participate in the completion of the contract**.
- The **Contractor shall therefore ensure** that some **opportunities are provided** for the local community from the commencement of construction and, in order to **avoid problems arising** with the local community
- **Section D of the Scope of Works** covers the contractor's requirements in detail, as well as defining the targets that comprise the **Contract Participation Goal (CPG)**.
- In order to assist the Contractor in achieving the required minimum percentage of work to be subcontracted to Targeted Enterprises as specified in the Contract Data, provision has been made in Section D1000 for the following:

Roadworks

- Section 3.2 Culvert head and wing walls
- Section 3.3 Concrete lined drains
- Section 11.1 Concrete sidewalks
- Section 11.2 Gabions

Provisional schedules for the work envisaged by Targeted Enterprises above have been included in Appendix 3.

SCOPE OF WORK – SITE INFORMATION

EMPLOYER'S OTHER CONTRACT

- The Employer will carry out other Community Development (CD) road work (NRA 2024/1349 / Contract SANRAL C.003-051-2018/1) adjacent to the Site through a separate concurrent contract while this contract NRA 2024/1353 / SANRAL R.061-060-2012/1 is completed. The Contractor shall co-operate with the Employer's other contractor in accordance with clause 4.6 of the Conditions of Contract.
- It is a requirement of this Contract that aggregate be crushed for use by the contractor appointed for CD Contract NRA 2024/1349 / SANRAL C.003-051-2018/1. The agreed quantities of crushed material shall be crushed, stockpiled and then loaded when the CD contractor needs to collect the material.
- An indication of the crushed material required for the CD contractor is provided under Part C4.11 in Part C4 of Book 3 in Volume 3.
- It is also a requirement of this Contract that the Employer's CD contractor be permitted to extract gravel material from the Employer's borrow pits (Borrow Pits 1 and 2). The CD contractor will be responsible to excavating, breaking down, stockpiling as may be required, loading and transporting the borrow pit material required for the CD contract. The CD contractor will be responsible for removing/rehabilitating any stockpile areas used but will not be responsible for the overall rehabilitation of the borrow pits as required by the environmental authorisation and such responsibility shall rest with the Contractor.
- An indication of the gravel material required for the CD contractor is provided under Part C4.11 in Part C4 of Book 3 in Volume 3.

SCOPE OF WORK – SITE INFORMATION

WORK BY EMPLOYER'S OTHER CONTRACTORS

- The Employer may carry out other road work adjacent to the Site through separate concurrent contract/s while this contract R.061-060-2012/1 is completed. The contract/s may include work on the adjacent sections of the R61 and a Community Development (CD) contract on roads that link onto the R61 at the new intersections constructed under this Contract.
- The Contractor shall co-operate with the Employer's other contractors in accordance with clause 4.6 of the Conditions of Contract.

SCOPE OF WORK – SITE INFORMATION

VOLUME 6 - CONSTRUCTION MATERIALS: SOURCES OF CONSTRUCTION MATERIALS

1. MATERIAL FROM THE ROAD RESERVE

- There is limited scope for the production of material from the road reserve in this Contract.
- The existing pavement layer materials that have to be cut due to the new road prism and new pavement layer profile may be used to widen the existing fills as required.
- Where permitted by the horizontal, vertical and cross section design existing pavement layer material may be incorporated in the final lower selected layer (in situ material reworked together with imported material).

2. MATERIAL FROM BORROW PITS AND QUARRIES

Material Sources	Material	Co-ordinates
Borrow Pit 1	G7 and G9 material	S32° 00' 48.09" E27° 40' 21.28"
Borrow Pit 2	G7 and G9 material	S32° 01' 06.73" E27° 43' 11.80"
Quarry 3	G1, G5A, seal aggregate and gabion rock etc	S31° 59' 10.45" E27° 47' 26.88"

SCOPE OF WORK – SITE INFORMATION

CONSTRUCTION MATERIALS: SOURCES OF CONSTRUCTION MATERIALS

3. MATERIAL FROM COMMERCIAL SOURCES

- The nearest known commercial hard rock quarries are Transkei Quarries in Mthatha and Blue Rock Quarries outside Mthatha (Libode and Tsolo).

PROJECT SPECIFICATIONS

PROJECT SPECIFICATIONS

PRICING SCHEDULE

- A Microsoft Excel version of the schedule is provided to tenderers.
- No responsibility can be accepted for any possible errors in summation or calculations that may occur on the spreadsheet. Tenderers are required to satisfy themselves that calculations are correct.
- A printout of the entire completed pricing schedule must be signed and scanned and saved in .pdf format and an electronic copy of the priced pricing schedule must be saved in Microsoft Excel format.
- The signed pdf copy will be deemed to be the official schedule.

PROJECT SPECIFICATIONS

GENERAL

- 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, shall apply to this contract. The amendments are those issued by COTO and reproduced in Section A1, together with additional amendments as set out in Section A2 and Project specific Specification Data as set out in Section B.
- **READ THE FULL STANDARD SPECIFICATION FOR RELEVANT SECTIONS**

PROJECT SPECIFICATIONS

READ THE FULL AMENDMENTS TO THE STANDARD SPECIFICATION FOR RELEVANT SECTIONS

- COTO CHAPTER 1 – GENERAL:
 - Specifications for contract, time, establishment, clearing & grubbing, loading, hauling, etc.
 - A1.2.3.4 Extension of Time for Delays
 - Method 3 (Critical path method without consequential delays) is specified.
 - Consequential delays are expressly excluded from the measurement of “N” days.
 - On this Contract 30 working days is to be allowed for weather delays (33 months for the execution of the works).
 - A1.2.3.12 Ownership of assets and disposal of non-usable assets
 - The Non-usable assets to be disposed by the Contractor are listed in the following disposal plan

Disposal plan

Asset description	Estimated quantity	Disposal requirement
Guardrails	515 m	Disposal by Contractor
Road signs	200 m ²	
Fencing	30 kms	

PROJECT SPECIFICATIONS

- PA1.2.3.15 Routine maintenance
 - The road reserve within the defined limits of the contract falls within the limits of another contract that has already been let to a routine maintenance contractor who is obliged to conduct regular maintenance on the routes on which this contract is sited.
 - The Routine Road Maintenance Contractor shall retain all routine maintenance responsibility, and Contractor shall be responsible for monthly liaison with the Routine Road Maintenance Contractor for the duration of the contract. (under pay items C1.2.3.11 and C1.2.3.12).
 - Provision is made in the Pricing Schedule for the Contractor to undertake ad-hoc routine maintenance works on instruction by the Engineer (under pay items C1.2.3.11 and C1.2.3.12). This maintenance work may include work on local community / access roads as determined by the Employer.

PROJECT SPECIFICATIONS

- **A1.2.3.20 Road safety audits**
 - A **Work zone traffic management audit** as well as a **Pre-opening stage road safety audit**, shall be carried out if instructed by the Engineer.
- **A1.2.3.22 Wayleaves/Agreements and Permits**
 - The Contractor shall be responsible for applying for all the applicable wayleaves including but limited to:
 - (a) Eskom
 - (b) Telkom
 - (c) Municipal (District and Local)
- **PA1.2.7.1 Programme of work**
 - A scheme 2 programme shall apply.
 - The contract programme shall take in to account the following:
 - Embargo periods**
 - **No embargo period** is applicable to the construction of asphalt layers.
 - An embargo period does apply to the Cape seal work. Refer to clause A10.1.3.2.
 - Refer to Volume 3 Book 2 Part B Section C1.2.2 clause A2.1 regarding the programming for service relocations.

PROJECT SPECIFICATIONS

READ THE FULL AMENDMENTS TO THE STANDARD SPECIFICATION FOR RELEVANT SECTIONS

ACCOMMODATION OF TRAFFIC (AoT)

- A1.5.3.2 General requirements
 - The Contractor shall be fully responsible for all the traffic accommodation on site, including for work undertaken by sub-contractors.
 - All traffic accommodation in accordance with the requirements in Chapter 1 of COTO of the project specifications, the drawings and latest edition of SARTSM Volume 2 Chapter 13.
 - Traffic will be accommodated **in half widths** for majority of the route, refer to Accommodation of Traffic (AoT) drawings.

PROJECT SPECIFICATIONS

READ THE FULL AMENDMENTS TO THE STANDARD SPECIFICATION FOR RELEVANT SECTIONS

ACCOMMODATION OF TRAFFIC (AOT) (CONT.)

- A1.5.7.3 Accommodation of traffic where the road is constructed in half or partial widths
 - The Contractor shall submit a plan of work indicating closure lengths and work zones for approval by the Engineer.
 - The maximum length of the half or partial width sections shall not exceed three (3) km unless otherwise agreed by the Engineer.
 - The maximum number of 3 km half or partial width sections for roadworks that will be allowed to be in operation at any time shall not exceed two (2).
 - In addition to the two half or partial width sections for roadworks at least one additional short half or partial width section for bridge work, as agreed by the Engineer, will be allowed to be in operation at any one time.
 - Minimum length of full width unrestricted road sections to be open between half or partial width construction sections shall be 2.0 kms.

PROJECT SPECIFICATIONS

READ THE FULL AMENDMENTS TO THE STANDARD SPECIFICATION FOR RELEVANT SECTIONS

ACCOMMODATION OF TRAFFIC (AOT) (CONT.)

- A1.5.7.3 Accommodation of traffic where the road is constructed in half or partial width:
 - Temporary deviations, to allow two-way traffic flow, shall only be constructed where agreed by the Engineer.
 - The Contractor shall programme the Works in such a way to ensure that there are no STOP / GO one-way traffic sections in operation and that two-way traffic can be accommodated safely within the contract limits during periods specified in Volume 3 Book 2 Part C1.2.2 clause A8.3(m).
 - Close liaison is required between Contractor at the interface between this Contract and all of the Employer's other concurrent contract/s (contracts on both the R61 and Community Development (CD) contracts) for traffic accommodation planning, programming and execution purposes.

PROJECT SPECIFICATIONS

READ THE FULL AMENDMENTS TO THE STANDARD SPECIFICATION FOR RELEVANT SECTIONS

ACCOMMODATION OF TRAFFIC (AOT) (CONT.)

- A1.5.7.3 Accommodation of traffic where the road is constructed in half or partial width:
 - The location of traffic control devices shall be such that adequate sight stopping distances are attained. Refer to requirements of COTO Chapter 1.5 clause 1.5.7.3 in this regard. The approaches to, and the start or ends of closures on steep grades or sharp curves are to be avoided.

PROJECT SPECIFICATIONS

READ THE FULL AMENDMENTS TO THE STANDARD SPECIFICATION FOR RELEVANT SECTIONS

- COTO CHAPTER 2 – SERVICES
 - A2.1.3.2 Location, identification, protection and relocation of existing services
 - Telkom overhead fibre (to be relocated)
 - Eskom overhead (to be relocated and protected)
 - Water pipes (to be relocated and protected)
- COTO CHAPTER 3 – DRAINAGE
 - Refer to Clauses
- COTO CHAPTER 4 – EARTHWORKS AND PAVEMENT LAYERS: MATERIAL
 - A4.1.3.1 Employer identified borrow pits and quarries
 - Gravel Sources: Borrow Pit 1 & 2
 - Hard Rock Quarry: Quarry 3
 - A4.1.7.2 - Contractor shall have a full-time contract materials manager to manage and control the operation of the borrow pits or quarries.
 - A4.1.5 Materials – refer to A4.1.5.4 and A4.1.5.8 (Fill material and material for pavement layers)

PROJECT SPECIFICATIONS

READ THE FULL AMENDMENTS TO THE STANDARD SPECIFICATION FOR RELEVANT SECTIONS

- COTO CHAPTER 4 – EARTHWORKS AND PAVEMENT LAYERS: MATERIAL
 - A4.1.7.2 Borrow pit and Quarry operations
 - As directed by the Engineer the Contractor shall carry out **supplementary exploration work at the Employer's quarry and borrow pits** to verify the material hardness and available material compliance with the Contract Documentation (**Payment items C4.1.2.1 & C4.1.2.2**)
 - The results of **laboratory tests, trial pits and borehole drilling of materials** carried out during the design stage are included in **Volume 6 of the Contract Documentation**.
 - The closing of all borrow pits shall be carried out in accordance with the **approved Mine Plans and environmental authorizations** included in **Volumes 4 and 7**
 - A4.3.5.3 Bituminous Seal Surfacing
 - Milled existing bituminous seal surfacing material is to be stockpiled and mixed in with gravel materials as directed by the Engineer.
 - A4.4.3.1 Employer identified commercial materials
 - Materials from commercial suppliers - Refer to Volume 6 of the Contract Documents.
 - Materials from the Employer's own sources - No material is available from the Employer's own sources.

PROJECT SPECIFICATIONS

- COTO CHAPTER 5 – EARTHWORKS AND PAVEMENT LAYERS: CONSTRUCTION
 - A5.1 Roadbed
 - A5.2 Fill
 - A5.3 Road Pavement Layers
 - A5.3.5.1 - Where there is a discrepancy between any pavement materials and construction details (layer thicknesses, quality, density etc) provided in this Volume 3 Book 3 and those shown on the Drawings the details shown in this Volume shall take precedence.
 - A5.3.5.2 (a) – Pavement layer thickness requirements (Part C4 clause C4.1.2 and as shown on the drawings in Volume 4)
 - A5.3.5.2 (b) – Amended pavement layer compaction densities
 - Upper and lower selected layer – 95% of MDD.
 - Subbase layer – 97% of MDD for chemically stabilised layers.
 - A5.3.5.2 (c) – Crushed stone pavement layer compaction requirements
 - The G1 base layer shall be compacted to a minimum dry density of 88% of AD
 - A5.3.7.2 Combining Materials
 - Where directed by the Engineer the Contractor shall combine existing road pavement layer and imported G7 material to construct the lower selected layer.
 - Payment items C5.3.2.1(b), C5.3.7 and C5.3 / C5.5.9.

PROJECT SPECIFICATIONS

- COTO CHAPTER 5 – EARTHWORKS AND PAVEMENT LAYERS: CONSTRUCTION
 - A5.3 Road Pavement Layers (continued)
 - A5.3.7.3 (d) – To ensure thorough mixing in a transverse direction when using a recycler, cross-mixing of the material shall be required on this Contract unless otherwise agreed by the Engineer. This requirement shall be applicable to gravel or crushed stone materials.
 - PA5.3.8.5 Surface regularity
 - Surface regularity, or riding quality of the base layer, shall be assessed by using a profiler
 - A5.4 Stabilisation
 - A5.4.5.3 Cementitious stabilising agents – stabilising agent for the C3 subbase layer will be class CEM II / B-L 32.5 N cement. The nominal stabiliser content is 3.5% by mass.
 - A5.4.7.3(b) Chemical pre-treatment and stabilization - The spreading of the cementitious agent shall be done by hand on this Contract.
 - A5.4.7.3(e) Chemical pre-treatment and stabilization - Mixing in the cementitious binder for the subbase layers shall be done by using a recycler on this Contract. The full width of top of the subbase layers shall be mixed by the recycler.
 - A5.4.7.7 Protection and curing of chemically stabilised layers - The damp protective layer curing method as per clause A5.4.7.7b) shall apply to this Contract.
 - A5.4 Reconstruction of pavement layers

PROJECT SPECIFICATIONS

READ THE FULL AMENDMENTS TO THE STANDARD SPECIFICATION FOR RELEVANT SECTIONS

- COTO CHAPTER 8 – PRETREATMENT AND REPAIR OF EXISTING LAYERS:
 - The priming material shall be one of the following as specified in Part C: Measurement and Payment:
 - MC-10 cut-back bitumen
 - MC-30 cut-back bitumen
 - Conventional bitumen emulsion prime (quick drying)
- COTO CHAPTER 9 – ASPHALT LAYERS:
 - A9.1.2 Definitions:
 - Asphalt mix types (on bridge decks, taxi rank and at 3 intersection areas):
 - Mix Type: Sand Skeletal (Sa)
 - Continuously graded
 - NMPS: 14 mm
 - Speed & loading condition: Standard (S)
 - Binder: PG58S-22
 - Modifier: Elastomer modified (EMB: A-E2)
 - Mix Design: Level II
 - Warm mix technology is not required or specified.

PROJECT SPECIFICATIONS

READ THE FULL AMENDMENTS TO THE STANDARD SPECIFICATION FOR RELEVANT SECTIONS

- A9.1.2 Definitions (contin...):
 - Asphalt mixes:

Hot mix asphalt (HMA) shall be used for the wearing course on this contract. No reclaimed/recycled asphalt shall be used in the wearing course mix.
 - Aggregate:

The surfacing on bridge decks, the taxi rank and at the specified intersection areas shall use the following aggregate:

 - 14 mm NMPS, Grading Class 2 as per COTO Table A9.1.5.4.
- PA9.1.5.4 Aggregates: Rapid degradation of aggregate
 - The Ethylene Glycol Durability Index for the coarse aggregate, tested according to SANS 3001-AG14 shall be < 3.
- A9.1.5.5 Fillers
 - For tender purposes the active filler shall be hydrated lime.
- A9.1.5.9 Asphalt Reinforcing
 - Glass grid 8502 or similar shall be used at bridge expansion joints where indicated on the Drawings or instructed by the Engineer

PROJECT SPECIFICATIONS

READ THE FULL AMENDMENTS TO THE STANDARD SPECIFICATION FOR RELEVANT SECTIONS

- COTO CHAPTER 10 – SURFACE TREATMENTS
 - PA10.1.3.2 Weather limitations:
 - The Seal Embargo Period for hot applied binders is the period during the months of May, June, July and August. Winter grade binders shall not be used in any seal work and the Contractor's program shall reflect this limitation.
 - Where a Cape Seal is constructed, and as agreed by the Engineer, the use of a Class SC-E1(t) emulsion tack coat will be permitted during the Seal Embargo Period.
 - A10.1.3.11 Opening to traffic:
 - No traffic shall be permitted onto a section, unless permitted by the Engineer on limited areas due to traffic accommodation constraints, where only the tack coat and the first layer of aggregate has been applied. Normally traffic shall only be permitted to use a completed section once the first slurry has been completed and has cured.
 - Where partial width construction is carried out the application of the second layer of slurry shall be delayed until the full width of the surfacing has been constructed.

PROJECT SPECIFICATIONS

READ THE FULL AMENDMENTS TO THE STANDARD SPECIFICATION FOR RELEVANT SECTIONS

- COTO CHAPTER 10 – SURFACE TREATMENTS
 - PA10.1.3.14 Nominal rates of application for tender purposes - The following seal types are to be utilised:
 - Final surfacing and including the intersection areas (As instructed by the Engineer the seal shall either be):
 - (a) 20 mm Cape Seal using Grade A aggregate and a tack coat using a hot applied polymer modified binder (Class S-E1) or a;
 - (b) 20 mm Cape Seal using Grade A aggregate and a tack coat using a homogenous cold applied modified binder (spray-grade emulsion binder (Class SC-E1 (t) (70-73)) excluding fluxing agent or cutters) and a cover spray using a diluted cationic spray-grade emulsion (60% bitumen) diluted 50% emulsion/50% water.
 - For both types (a) and (b) above two slurry applications are required. The first slurry shall be a Fine slurry "Medium" to "Coarse" grade. The second slurry shall be a Fine slurry "Fine" grade.
 - Temporary surfacing (temporary road widenings or temporary diversions / by-passes):
 - (c) 10 mm Single seal using Grade A aggregate and a cold applied 65% cationic spray grade emulsion tack coat and one slurry application (Fine slurry "Fine" grade).
 - Nominal application rates are as per the COTO specification.

PROJECT SPECIFICATIONS

READ THE FULL AMENDMENTS TO THE STANDARD SPECIFICATION FOR RELEVANT SECTIONS

- COTO CHAPTER 10 – SURFACE TREATMENTS
 - A10.1.5.4 Bituminous binders for slurry seals
 - Cationic stable grade emulsion shall be used in the slurry mix. Mix designs shall however be carried out before slurry is placed to keep the water demand in the working mix below 16 parts by mass.
 - A10.1.5.10(a) Single sized aggregate - Grading
 - Grade A aggregates shall be used for this Contract.
 - A10.1.5.14 Precoating of Hydrophilic aggregates
 - The 20mm aggregate for Cape Seal shall be precoated as directed by the Engineer.
 - A10.1.5.17 Aggregate and fillers for slurry seals
 - The aggregate used for the Cape Seal slurry shall comply with the following:
 - The first slurry shall be a Fine slurry "Medium" to "Coarse" grade as per Table A10.1.5-11.
 - The second slurry shall be Fine slurry "Fine" grade as per Table A10.1.5-11.
 - A10.1.6.12 Spreader box for slurry
 - The use of a spreader box to place the slurry for a Cape Seal is not permitted. The slurry shall be spread by hand.

PROJECT SPECIFICATIONS

READ THE FULL AMENDMENTS TO THE STANDARD SPECIFICATION FOR RELEVANT SECTIONS

- COTO CHAPTER 11 – ANCILLARY ROAD WORKS
 - Specifications for Gabions, Road Restraint Systems, Fencing, Road Signs and Markings, Landscaping, etc.
- COTO CHAPTER 12 – GEOTECHNICAL APPLICATIONS
 - Specifications for Piling & Geosynthetics, etc.
 - A12.1.3.4 - **Piling is required** at Bridge B137 over the Tsomo River at km 22.136.
- COTO CHAPTER 13 – STRUCTURES
 - **Specifications for structural works**
- COTO CHAPTER 20 – QUALITY ASSURANCE
 - Specifications for Quality Assurance
 - Testing will be undertaken by an **independent site laboratory** as indicated under A20.1.3.3 a)(i)3.
 - The independent **site laboratory** will carry out the **Contractors control testing and the Engineers acceptance control testing**.

PROJECT SPECIFICATIONS

SANRAL STANDARD SPECIFICATION SECTIONS

- SECTION C: ENVIRONMENTAL MANAGEMENT PLAN
 - C1004(d) A **full-time Dedicated** Environmental Officer **is required** on this contract.
- **SECTION D: STAKEHOLDER AND COMMUNITY LIAISON, AND TARGETED LABOUR AND TARGETED ENTERPRISES UTILISATION AND DEVELOPMENT**

Section D1000 to be carefully examined with special attention to the following clauses:

D1002 – Definitions and applicable legislation

- **D1002.01 Definitions**
 - (d) CPG
 - (i) Specific Goal for Targeted Enterprises (TE's)
Minimum of **30%** of the Final Contract Value by the end of the contract to TE's.
 - (ii) Specific Goal for Targeted Labour is a minimum of **8%** of the Final Contract Value by the end of the contract to Targeted Labour

The **Final Contract Value** for purposes of this clause is **defined in clause D1003.04**

(t) Target Area(s): For **Targeted Labour**: Intsika Yethu Local Municipality

- (u) **Targeted Enterprise**: Target Group for Targeted Enterprise:
- a. **EMEs or QSEs which are at least 51% owned by black people.**

PROJECT SPECIFICATIONS

D1002 – Definitions and applicable legislation (continue..)

- D1002.01 Definitions

- (z) Targeted Labour: Target Group for Targeted Labour:

- a. Unemployed black people who:
 - i. are citizens of the Republic of south Africa by birth or descent; or
 - ii. became citizens of the Republic of South Africa by naturalisation before 27 April 1994; or
 - iii. became citizens of the Republic of South Africa by naturalisation on or after 27 April 1994 and who would have been entitled to acquire citizenship by naturalisation prior to that date; or
 - b. unemployed women who are South African citizens; or
 - c. unemployed youth (not attending and not required by law to attend an educational institution) as defined in the National Youth Commission Act (Act 19 of 1996); or
 - d. unemployed people with disabilities as defined in the Code of Good Practice on employment of people with disabilities issued under the Employment Equity Act (Act 55 of 1998); or
 - e. unemployed black military veterans who qualify to be called a military veteran in terms of the Military Veterans Act (Act 18 of 2011);

- D1003.04 Contract Participation Goal (CPG):

- CPG for Targeted Labour: Specific sub-Goals for minimum contributions by specific Target Groups for Targeted Labour:

- i. Unemployed black persons who are youth - 30% of Targeted Labour value
 - ii. Unemployed black persons who are people with disabilities - 0.3% of Targeted Labour value
 - iii. Unemployed black persons who are women - 30% of targeted labour value

PROJECT SPECIFICATIONS

- D1003.04 Contract Participation Goal (CPG):
 - CPG for Targeted Enterprises (TE): Specific sub-Goals for minimum contribution by specific Target Groups for TE's:
 - i. TE with $\geq 51\%$ ownership by Youth - Min of 5.0% of the Final Contract Value
 - ii. TE with $\geq 51\%$ ownership by Women - Min of 5.0% of the Final Contract Value
 - iii. TE with $\geq 51\%$ ownership by Military veterans - Min of 1.0% of the Final Contract Value
 - iv. TE with $\geq 51\%$ ownership by Disabled persons (Differently abled) - Minimum of 0.5% of the Final Contract Value
 - v. TE with CIDB 1 or 2 grading - Minimum of 1.5% of the Final Contract Value
 - vi. TE with CIDB 3 or 4 grading - Minimum of 1.0% of the Final Contract Value
- D1003.05 Contract Participation Performance (CPP)
 - $CCP = CPG \text{ Amount (Monetary value of TE Labour + Monetary value of TE's)}$
 - (a) CPP Penalties
 - **Take particular note of the latest penalty formulas for the CPG targets for Labour and TE's**
 - The total Penalty value shall be the sum of the Targeted Labour and Targeted Enterprises Penalty values unless the total Penalty value is negative then it shall be a zero (0) value.
 - There is no longer a bonus for exceeding the CPG target

PROJECT SPECIFICATIONS

- **D1009 WORK SUITABLE FOR EXECUTION BY TARGETED ENTERPRISES**

To assist the Contractor in achieving his CPG, the following work items have been identified as being suitable for execution by Targeted Enterprises:

- a) Erection and maintenance of the Contractor's camp site
- b) Clearing and grubbing.
- c) Removal of trees.
- d) Provision of traffic control facilities.
- e) Management of traffic control facilities and traffic safety as part of the accommodation of traffic.
- f) Construction and clearing of drains.
- g) Installation of prefabricated culverts including inlet and outlet structures.
- h) Concrete channelling and concrete linings for open drains.
- i) Construction of concrete paving, kerbs and channels.
- j) Construction of small concrete and other structures.
- k) Construction of concrete walkways.
- l) Pitching, stonework and protection against erosion.
- m) Construction of gabions.
- n) Erection of guardrails.
- o) Landscaping.
- p) Fencing.

PROJECT SPECIFICATIONS

- **D1009 WORK SUITABLE FOR EXECUTION BY TARGETED ENTERPRISES**

To assist the Contractor in achieving his CPG, the following work items have been identified as being suitable for execution by Targeted Enterprises:

- q) Road signs.
- r) Road markings.
- s) Finishing the road and road reserve.
- t) Site Security Services.
- u) Haulage of materials
- v) Supply of plant.
- w) Supply of fuel
- x) Supply of transport to Local Labour.
- y) Specialised subcontract work such as:
 - i) Structural concrete such as culvert and bridges.
 - ii) Crushing of materials.
 - iii) Precast manufacture.
 - iv) Batch plant erection and operations.
 - v) Earthworks, layerworks construction.

PROJECT SPECIFICATIONS

- **D1009 WORK SUITABLE FOR EXECUTION BY TARGETED ENTERPRISES**

From the above work items, the following have been identified as suitable for execution by **CIDB CE1 and CE2 Targeted Enterprises**:

- a. Clearing and grubbing.
- b. Clearing of drains and culverts.
- c. Concrete channelling and concrete linings for open drains.
- d. Construction of concrete paving, kerbs and channels.
- e. Construction of small concrete and other structures.
- f. Construction of concrete walkways.
- g. Pitching, stonework and protection against erosion.
- h. Construction of gabions.
- i. Erection of new guardrails, and removal of existing guardrails.
- j. Fencing
- k. Any other work identified by the Employer to be executed in the Target Area.

PROJECT SPECIFICATIONS

- D1010.02(a)(i) Contract Skills Development Goal (CSDG) : shall not be less than 2% of the Final Contract Value as defined in clause D1003.04.
- The Contractor shall achieve or exceed the CSDG in the performance of the Contract. The Contractor may, if need be, devolve their obligations onto Sub-contractors.
- The CSDG shall not be less than the final contract value multiplied by the percentage (%) for Civil Engineering work (CE) as set in the Specification Data.
- To attain the CSDG, it is estimated that the following number of Learners must be trained on the Contract in the stated categories:

Learning Category		Number of Learners
Method 1	Occupational qualification.	60
Method 2	TVET College graduates, or	12
	Apprenticeships.	
Method 3	P1 and P2 learners, or	12
	240 credits qualification.	
Method 4	Candidates, 360 credits qualification.	12
	Candidates, 480 or more credits qualification.	
Generic Skills	Occupational qualification.	50
Community Training	Occupational qualification.	50

- Payment items D10.06 deals with training, coaching, mentoring and assistance

PROJECT SPECIFICATIONS

- D1012.02(a) and (b) Community Development Projects:
 - This Contract does not include a Community Development Project component.
 - The Employer identified a CD Project with CD project number and description SANRAL C.003-051-2018/1 for Community Development Projects on the Upgrading of National Road R61 Section 6 From Tsojana (Km 7.3) To Tsomo River (Km 22.9).
 - The CD Project has an estimated duration of twenty-six (26) months.
 - The CD Project Works entail the following:

The road works to be constructed under the CD contract shall inter alia include the upgrading of existing community access roads and the provision of new community access roads to ensure safe and equitable access for communities. The total length of the community access roads to be upgraded or constructed is approximately 6 kms.
- Special attention to the other clauses:
- D1001.01 Principles for Project Liaison, Targeted Enterprise Sub-contracting, and Targeted Labour Sourcing in SANRAL Projects (Fourteen Point Plan)
- D1005: Mobilisation Period
- D1007: Tender Process for TE's
- D1009: Work Suitable for Execution by Targeted Enterprises

VOLUMES 6 AND 7

Refer to Volume 6 for the results of the materials investigations carried out during the design stage including the details of the Employer's contract material sources (Quarry 3 and Borrow Pits 1 and 2).

Refer to Volume 7 for the Environmental Management Report requirements applicable to the Contract.