



TENDER NO: SCMU10-24/25-0008 A-F

**APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE
PLANT HIRE SERVICES AND MAINTENANCE OF GRAVEL ROADS
IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36] MONTHS.**

TENDER CLOSING: 11h00am on Monday 05 August 2024

Department of Transport

32 Cowan close

Stellenbosch Park

Building

King William's Town

5601

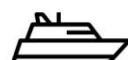
Company Name of Tenderer:

.....

.....

CRS No.

CSD No.



PROVINCE OF THE EASTERN CAPE

DEPARTMENT OF TRANSPOR

TENDER NO.: SCMU10-24/25-0008 A-F

APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND MAINTENANCE OF GRAVEL ROADS IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36] MONTHS.

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**PROVINCE OF THE EASTERN CAPE
DEPARTMENT OF TRANSPORT
TENDER NO.: SCMU10-24/25-0008 A-F**

**APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES
FOR THE MAINTENANCE AND CONSTRUCTION OF ROADS IN THE EASTERN CAPE
PROVINCE FOR A CONTRACT PERIOD OF THIRTY-SIX [36] MONTHS**

**THE TENDER
PART 1 (OF 2): TENDERING PROCEDURES**

T1.1 Tender Notice and

Invitation to Tender T1.2 Tender Data

T1.1: TENDER NOTICE AND INVITATION TO TENDER

A. BID INVITATION BID/ Tender No.: SCMU10-24/25-0008 A-F

The Department of Transport of the Province of Eastern Cape hereby invites tenders from suitably experienced road construction and/or maintenance contractors to bid for **APPOINTMENT OF A PANEL OF SERVICE PROVIDERS FOR PROVISION OF PLANT, MAINTENANCE AND CONSTRUCTION OF ROADS IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36] MONTHS.**

The Department intends to create a panel to enable contracting with various service providers to supply plant hire services for the Eastern Cape Department of Transport, on an ad hoc basis. Additionally, these service providers may be contracted for routine maintenance of gravel roads on an ad hoc basis for a period of 36 months.

Tenderers must be registered with the CIDB and have a valid CIDB contractor grading designation of Grade **4CE or higher.**

Bid documents will be available as from **12h00pm on Friday, 05 July 2024.** Documents must be downloaded on www.ectransport.gov.za or www.etenderportal.gov.za. The one bid document is applicable to all districts.

Compulsory Tender Briefings will be convened in various districts on the following dates:

- Alfred Nzo : Umzimvubu Community Hall, Mount Ayliff at 11:00 on Monday 15 July 2024.
- Sarah Baartman : Straundale Traffic Center Hall, Gqeberha at 11:00 on Monday 15 July 2024
- Joe Gqabi : Landbou Building, Aliwal North Showgrounds at 11:00 on Wednesday 17 July 2024.
- OR Tambo : Mthatha Airport Hangers, Mthatha, at 11:00 on Wednesday 17 July 2024.
- Amathole : Orient Theater, East London at 11:00 on Thursday 18 July 2024.
- Chris Hani : Indoor Sport Center, Komani at 11:00 on Thursday 18 July 2024.

Bidders must attend the compulsory briefings and may attend a briefing in any of the above venues regardless of the district bidders wish to be considered. The certificate of attendance in the tender document must be signed by an ECDOT official to validate attendance.

A. TENDER SUBMISSIONS.

The completed tender document as well as any supporting documentation shall be placed in a sealed envelope clearly marked **“TENDER NO: SCMU10-24/25-0008 A-F: APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND MAINTENANCE OF GRAVEL ROADS IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36] MONTHS”** and deposited in the Tender Box **not later than 11h00am on Monday, 05 August 2024** at the following addresses respectively:

- **SCMU10-24/25-0008 A:** Alfred Nzo District : 118 Ngqubusini Street, Mount Ayliff;
- **SCMU10-24/25-0008 B:** Amathole District : 21 Brooklyn Road, Woodbrook, East London;
- **SCMU10-24/25-0008 C:** Chris Hani District : 92 Cathcart Road, Komani;
- **SCMU10-24/25-0008 D:** Joe Gqabi : 29 Queens Terrace Street, Aliwal North
- **SCMU10-24/25-0008 E:** OR Tambo : Cnr Leeds and Owen Street, 7th Floor, Mthatha
- **SCMU10-24/25-0008 F:** Sarah Baartman : 51 Govan Mbeki Avenue, Port United Building (Absa), Central, Gqeberha

Requirements for sealing, addressing, delivery, opening and assessment of tenders are stated in the Tender Data.

B. BID EVALUATION

This bid will be evaluated in two (2) phases as follows:

Phase One: Compliance to Bid Rules and Conditions, Eligibility Criteria and Local Content Declaration thereafter.
Phase Two: Functionality of Bidders will be evaluated

Financial offers will not be sought from bidders. Works packages will be compiled using pre-determined market related rates which form part of this contract document in the pricing schedule. There will therefore be no evaluation of financial offers as no financial offers must be made.

C. BID SPECIFICATIONS, CONDITIONS AND RULES

The minimum specifications, functionality and other bid conditions and rules are detailed in the bid document.

Note: Tender Validity Period is 90 days.

Tenderers may seek clarification from the Employer in terms of this tender, from the date of advert until a week before tender closure.

SCM RELATED ENQUIRIES – Email is the preferred first contact option.

Ms. A Mketsu | Mr. P Nqikashe

Tel No: 067 411 2177 | 067 419 8001

Email Address: Abongile.mketsu@ectransport.gov.za or Philasande.Nqikashe@ectransport.gov.za

TECHNICAL ENQUIRIES – Email is the preferred first contact option.

Ms. Z Zuzile

Tel No.: 082 576 3984

Email Address: zezethu.zuzile@ectransport.gov.za

FOR COMPLAINTS, FRAUD, & TENDER ABUSE

Call: 0800 701 1701

PROVINCE OF THE EASTERN CAPE

DEPARTMENT OF TRANSPORT

TENDER NO.: SCMU10-24/25-0008 A-F

APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND MAINTENANCE OF GRAVEL ROADS IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36] MONTHS

T1.2: TENDER DATA

The tender conditions are the Standard Conditions of Tender as contained in Annexure F of the CIDB Standard for Uniformity in Construction Procurement as per CIDB Board Notice No. 136 of 2015 published in Government Gazette No. 38960 of 10 July 2015 and as amended from time to time. (see www.cidb.org.za)

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

Each item of data given below is cross-referenced to the clause marked "F" in the above-mentioned Standard Conditions of Tender.

No	Clause	Wording
1	F.1.1	The employer is the DEPARTMENT OF TRANSPORT, Province of the Eastern Cape
2	F.1.2	The tender documents issued by the employer comprise: <p style="text-align: center;"><u>THE TENDER</u></p> <p>PART T1: TENDERING PROCEDURES T1.1: Tender Notice and Invitation to Tender T1.2: Tender Data</p> <p>PART T2: RETURNABLE DOCUMENTS T2.1: List of Returnable Documents T2.2: Returnable Schedules</p> <p style="text-align: center;"><u>THE CONTRACT</u></p> <p>PART C1: AGREEMENTS AND CONTRACT DATA C1.1: Form of Offer and Acceptance C1.2: Contract Data C1.3: Deed of Guarantee (pro forma)</p> <p>PART C2: PRICING DATA C2.1: Pricing Instructions C2.2: Bill of Quantities</p> <p>PART C3: SCOPE OF WORKS C3.1: Description of the Works C3.2: Engineering C3.3: Procurement C3.4: Construction C3.5: Management</p> <p>PART C4: SITE INFORMATION C4: Site Information</p>

3	F.1.4	<p>The Employer's agent for the tender phase is</p> <p>Name: Zezethu Zuzile Address: Stellenbosch Park building Flemming Street King Williams Town, 5100 Tel: 082 576 3984 Email: zezethu.zuzile@ectransport.gov.za</p> <p>The Employer's agent for the implementation phase in the Alfred Nzo District is:</p> <p>Name: Mandiphiwe Cwili Address: Alfred Nzo Regional Office 118 Ngqubusini Street Mount Ayliff, 4735 Tel: 067 414 2504 Email: Mandiphiwe.Cwili@ectransport.gov.za</p> <p>The Employer's agent for the implementation phase in the Chris Hani District is:</p> <p>Name: Bongo Mbebe Address: Chris Hani Regional Office 92 Cathcart Road Komani, 5099 Tel: 064 880 6640 Email: Bongo.Mbebe@ectransport.gov.za</p> <p>The Employer's agent for the implementation phase in the Joe Gqabi District is:</p> <p>Name: Johann Botha Address: Joe Gqabi Regional Office 29 Queens Terrace Street, Aliwal North, 9750 Tel: 066 133 7062 Email: Johann.Botha@ectransport.gov.za</p> <p>The Employer's agent for the implementation phase in the OR Tambo District is:</p> <p>Name: Fundilizwe Ponco Address: OR Tambo Regional Office Cnr Leeds and Owen Street Mthatha, 5099 Tel: 083 397 7143 Email: Fundilizwe.Ponco@ectransport.gov.za</p> <p>The Employer's agent for the implementation phase in the Sarah Baartman District is:</p> <p>Name: Randall Moore Address: Sarah Baartman Regional Office 51 Govan Mbeki Avenue Port United Building (Absa) Central Gqeberha, 6001 Tel: 083 666 1597 Email: Randall.Moore@ectransport.gov.za</p>
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4	F.1.5. 1	<p>The employer may accept or reject any variation, deviation, tender offer, or alternative tender offer, and may cancel the tender process and reject all tender offers at any time before the formation of a contract. The employer shall not accept or incur any liability to a tenderer for such cancellation and rejection but will give written reasons for such action upon written request to do so.</p> <p>The Employer further reserves the right not to award a project to any tenderer found to be at a high risk of non/under-performance based on a risk assessment of the current workload or past performance of that tenderer.</p> <p>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.</p> <p>The successful Tenderer will be required to submit a valid and certified copy of their Letter of Good Standing from the Bargaining Council of Civil Engineering Industry (BCCEI) within 21 days of project commencement of this Tender, no work assignments will be issued to bidders who fail to meet the above requirements.</p>
5	F.1.6	<p>Allocation method:</p> <p>Allocation preference in the implementation of the project will be based on the functionality points. The highest point scoring bidder per district will be the first preferred bidder for allocation and allocations will be awarded rotationally from the highest point scoring to the lowest point scoring bidder.</p> <p>The department reserves the right not to award any bidder in more than one district.</p>
5	F.2.1	<p>Eligibility</p> <p>The following tenderers who are registered with the CIDB in grading designation 4CE or higher are eligible to submit tenders:</p> <ol style="list-style-type: none"> 1) Contractors who have a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tender for a class of construction work, or 2) Joint ventures are eligible to submit tenders provided that: <ol style="list-style-type: none"> a) every member of the joint venture is registered with the CIDB for CE class of work, b) the combined contractor grading designation calculated in accordance with the Construction Industry Development Board Regulations is equal to a contractor grading designation of 4CE or higher. c) a signed Joint Venture Agreement must be attached with the tender. <p>Key Personnel:</p> <p>The Contracts Manager, who will be the single point accountable and responsible person for the oversight management of the construction works, shall:</p> <ul style="list-style-type: none"> • have a minimum NQF level 7 Civil Engineering qualification and be suitably and verifiably experienced with a minimum of 5 years' experience in road maintenance and / or construction; <u>and</u> • be proven to be in the permanent employ of the tenderer or provide written confirmation of availability should the bidder be successful; <u>and</u> • be available to execute the required duties and responsibilities on this Framework Agreement, should the Tenderer's offer be accepted. <p>The Construction Manager / Site Agent who will be the single point accountable and responsible person for the full-time management of the construction works on site, shall:</p> <ul style="list-style-type: none"> • have a minimum NQF level 6 Civil Engineering qualification and be suitably and verifiably experienced with a minimum of 5 years' experience in road maintenance / construction OR if the Construction Manager / Site Agent does not have a Civil Engineering qualifications, they must be suitably and verifiably experienced with a minimum of 10 years' experience in road maintenance and / or construction; • be in the permanent employ of the tenderer, <u>or</u> already directly contracted or contractually committed to only this one Tenderer (for the event that the Tenderer wins this bid), <u>and</u> • be available to be deployed full-time on the site(s) to execute the required duties and responsibilities on this Contract, should the tenderer's offer be accepted; <u>and</u>

The **Construction Health and Safety Person** who shall manage the Contractor's health and safety obligations on site, shall:

- A suitably qualified and experienced full time Construction Health and Safety Person, registered with SACPCMP as a Professional Construction Health and Safety Agent (Pr. CHSA) or Construction Health and Safety Manager (CHSM) or Construction Health and Safety Officer (CHSO) and have a minimum of Three (3) years' experience in road construction or road maintenance projects.

Company Experience:

The Tenderer must have proven company experience in the construction or maintenance of gravel roads. The Tenderer must indicate completed contracts in the past 10 years for the following contract values:

- At least three similar projects to the value of at least R 3 000 000 each.

OR

- At least two similar projects to the value of at least R 5 000 000 each.

A similar project(s) shall be defined as routine road maintenance of gravel and surfaced roads / construction of gravel road project / reseals and rehabilitations projects / roads upgrading projects.

A completed returnable **Schedule C: SIMILAR PROJECT(S) COMPLETED BY THE TENDERER** to be provided. To demonstrate completion of a similar project(s) as defined in this clause, submit for each project listed a completed returnable schedule C. Furthermore, submit for each project listed an **AWARD LETTER** and **COMPLETION CERTIFICATE**.

Minimum plant required for the project,

PLANT
• Graders (Minimum required is 1)
• Water Trucks 11000 – 18000 litres (Minimum required is 2)
• Dozers (Minimum required is 1)
• Loaders (Minimum required is 1)
• Excavators (Minimum required is 1)
• Tipper Trucks (10 cubic meters) (Minimum required is 6)
• Self-propelled roller 12-20 ton – Smooth (Minimum required 1), Pad foot drum (Minimum required 1)
• Tractor Loading Backhoe (TLB) (Minimum required is 1)

The full plant compliment which may be required of bidders as contained in the pricing schedule is as follows:

1. Bulldozer D6/D7
2. Loader (1 ton) 920
3. Loader (2.5 ton) 950
4. Excavator (tracks) 20 ton
5. Excavator (tracks) 25 ton
6. Excavator (tracks) 30 ton
7. Excavator (Hummer only) HB1700
8. TLB
9. Water truck 11000 L
10. Water truck 12000L – 14000L
11. Water truck 15000L – 18000L
12. Roller (pad foot/smooth roller) 12 ton
13. Roller pneumatic
14. Roller Tow Tractor & Grid
15. Tipper trucks 10 Cubic metres
16. Tipper trucks 12 Cubic metres

		<p>17. Tipper trucks 15 Cubic metres 18. Dumper Truck 10 Cubic metres 19. Low bed 20. Grader (140G/ Equivalent) 21. Jumping Jack 22. Concrete Mixer 400L 23. Steel Drum Handheld Roller 24. Sit On 1.5 ton 25. Mobile Crusher 600 X 900 26. 1000 Milling Machine (Skidsteer incl broom, forklift & bucket) 27. Crane Truck 8 ton 28. Roll back Truck 8 ton</p> <p>Consideration will be given for plant and equipment Owned or hired (with letter of intent from plant hire company within the district for which the Tenderer is bidding) by the Tenderer, and which will be available for the project, should the Tenderer be successful. Such a Letter must be Certified by the Commissioner of Oath. The letter is to clearly indicate that the Plant intended for the contract will be available for the full duration of the project. Bidders must submit ENATIS documents for owned and hired plant and equipment. For vehicles not permissible on public roads which will not have an ENATIS document, proof of ownership must be provided.</p> <p>Failure to comply with these eligibility criteria will cause the tender to be rejected.</p>
6	F.2.7	<p>Compulsory Tender Briefings will be convened in various districts on the following dates:</p> <ul style="list-style-type: none"> • Alfred Nzo : Umzimvubu Community Hall, Mount Ayliff at 11:00 on Monday 15 July 2024. • Sarah Baartman : Straundale Traffic Center Hall, Gqeberha at 11:00 on Monday 15 July 2024. • Joe Gqabi : Landbou Building, Aliwal North Showgrounds at 11:00 on Wednesday 17 July 2024. • OR Tambo : Mthatha Airport Hangers, Mthatha, at 11:00 on Wednesday 17 July 2024. • Amathole : Orient Theater, East London at 11:00 on Thursday 18 July 2024. • Chris Hani : Indoor Sport Center, Komani at 11:00 on Thursday 18 July 2024. <p>Bidders must attend the compulsory briefings and may attend a briefing in any of the above venues regardless of the district bidders wish to be considered. The certificate of attendance in the tender document must be signed by an ECDOT official to validate attendance.</p> <p>Failure to submit certificate of attendance signed by and ECDOT official present in the briefing will render the bid non-compliant and the bid will not be considered.</p>
7	F.2.12	No alternative offers will be considered
8	F.2.13.1	<p>Tenderers may only offer to provide services or supplies identified in the contract data.</p> <p>The Tender Document is to be downloaded from the Department's website, printed and bound for submission. Any additional Returnable's, CV's etc. are to be submitted in a separate bound document properly indexed for ease of referencing to the original tender document.</p>
9	F.2.13.3	Each tender offer shall be submitted as an original. Additional documentation shall be submitted in a separate, properly bound document.
10	F.2.13.5	The Employer's address for delivery of tender offers and identification details is as per the Notice and Invitation to Tender T1.1.
11	F.2.13/ F.3.5	A single envelope procedure <u>will be applicable</u>
12	F.2.15	The closing time for submission of tender offers is as per Notice and Invitation to Tender T1.1.
13	F.2.15	Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted
14	F.2.16	The tender offer validity period is as per Notice and Invitation to Tender T1.1.
15	F.2.19	Access shall be provided for the following inspections, tests and analysis: Borrow pit testing and any verification of geotechnical data (N/A)
16	F 3.4.1 / F.3.4. 2	The location for opening of the tender offers, immediately after the closing time thereof shall be as per Notice and Invitation to Tender T1.1
17	F 3.8.1	<p>Add the following to F3.8.1:</p> <p>"Eligibility: Prospective tenderers will only be Eligible to submit a tender if, in terms of clause F3.8.1 in Tender Data</p>

T1.2, the following criteria are met:

The following tenderers who are registered with the CIDB in grading designation **4CE or higher** are eligible to submit tenders:

- contractors who have a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tender for a class of construction work, or
- Joint ventures are eligible to submit tenders provided that:
- every member of the joint venture is registered with the CIDB for CE class of work;
- the combined contractor grading designation calculated in accordance with the Construction Industry Development Board Regulations is equal to a contractor grading designation of 4CE or higher;
- a signed Joint Venture Agreement must be attached with the tender, where applicable;

Key Personnel:

The **Contracts Manager**, who will be the single point accountable and responsible person for the oversight management of the construction works on site, shall:

- be registered as a Professional Engineer or Professional Engineering Technologist under the Engineering Profession Act (Act 46 of 2000), and be suitably and verifiably experienced with a minimum of years' experience of which 5 years' experience in road maintenance and / or construction; and
- be proven to be in the permanent employ of the tenderer or provide written confirmation of availability should the bidder be successful; and
- be available to execute the required duties and responsibilities on this Framework Agreement, should the Tenderer's offer be accepted.

The **Construction Manager / Site Agent** who will be the single point accountable and responsible person for the full-time management of the construction works on site, shall:

- have a Civil Engineering qualification and be suitably and verifiably experienced with a minimum of 5 years' experience in road maintenance and / or construction OR if the Construction Manager / Site Agent does not have a Civil Engineering qualifications, they must be suitably and verifiably experienced with a minimum of 10 years' experience in road maintenance and / or construction
- be in the permanent employ of the tenderer, or already directly contracted or contractually committed to only this one Tenderer (for the event that the Tenderer wins this bid), and
- be available to be deployed full-time on the site(s) to execute the required duties and responsibilities on this Contract, should the tenderer's offer be accepted; and

The **Construction Health and Safety Person** who shall manage the Contractor's health and safety obligations on site, shall:

- A suitably qualified and experienced full time Construction Health and Safety Person, registered with SACPCMP as a Professional Construction Health and Safety Agent (Pr. CHSA) or Construction Health and Safety Manager (CHSM) or Construction Health and Safety Officer (CHSO) and have a minimum of Three (3) years' experience in road construction or road maintenance projects.

CV's of the Contracts Manager, Site Agent and OHS Person must clearly indicate their roads maintenance and / or construction work experience including years of experience in line with the above as well as any supporting certificates required. Should this not be clearly indicated, the tenderer will not be evaluated further.

Company Experience:

The Tenderer must have proven company experience in the construction or maintenance of gravel roads. The Tenderer must indicate completed contracts in the past 10 years for the following contract values:

- At least three similar projects to the value of at least R 3 000 000 each.

OR

- At least two similar projects to the value of at least R 5 000 000 each.

A similar project(s) shall be defined as routine road maintenance of gravel and surfaced roads / construction of gravel road project / reseals and rehabilitations projects / roads upgrading projects.

A completed returnable **Schedule C: SIMILAR PROJECT(S) COMPLETED BY THE TENDERER** to be provided. To demonstrate completion of a similar project(s) as defined in this clause, submit for each project listed a completed returnable schedule C. Furthermore, submit for each project listed an **AWARD LETTER** and **COMPLETION CERTIFICATE**.

Plant Requirements

Consideration will be given for plant and equipment Owned or hired (with letter of intent from plant hire company within the district for which the Tenderer is bidding) by the Tenderer, and which will be available for the project, should the Tenderer be successful. If the contractor does not own some or any of the plant listed and chooses to hire some or all the required plant, then a signed letter of intent from Plant Hiring Company must be attached. Such a Letter must be Certified by the Commissioner of Oath. The letter is to clearly indicate that the Plant intended for the contract will be available for the full duration of the project. Bidders must submit ENATIS documents for owned and hired plant and equipment.

The provision of plant hire services will be based on a "wet rate" (inclusive of operating and maintenance costs), this includes provisioning of plant operators, required fuel, necessary insurances and any other legislative requirements that are in line with the service required.

The potential service provider must have a minimum or the agreement/ intention to lease the following plant in order to be considered for bid:

• Graders (Minimum required is 1)
• Water Trucks 11000 – 18000 litres (Minimum required is 2)
• Dozers (Minimum required is 1)
• Loaders (Minimum required is 1)
• Excavators (Minimum required is 1)
• Tipper Trucks (10 cubic meters) (Minimum required is 6)
• Self-propelled roller 12-20 ton – Smooth (Minimum required 1), Pad foot drum (Minimum required 1)
• Tractor Loading Backhoe (TLB) (Minimum required is 1)

- a) The plant to be used must have an Enatis Printout or proof of ownership for plant that may not travel on public roads.
- b) Bidders must indicate on the schedule for plant & equipment if they own the plant or plant will be hired, failure to indicate in the schedule will invalidate the bid (Plant Hire companies cannot offer the same plant to multiple bidders for the same bid).
- c) Where bidders do not own the plant, they need to attach an original letter with intent to hire from another source with attached proof of ownership or Enatis printout depicting original ownership of all plant items to be hired. The Department reserves the right to verify road worthiness and ownership of the plant.
- d) Individual plant item (identifiable through registration documents) cannot form part of more than one bid proposal.
- e) Bidders must be registered with CIDB (Construction Industry Development Board) in the Civil Engineering Industry (CE) in an appropriate 4CE or higher contractor grading designation (All parties to submit this information in the case of a Joint Venture);

Failure to comply with any of these Eligibility criteria will cause the tender to be rejected.

Stage 2, (Functionality):

(a) Process of Functionality evaluation

1. The functionality criteria and maximum score in respect of each of the criteria are as follows:

Functionality criteria	Maximum Points Score
1. Essential Plant Required	60
2. Locality	40
Maximum possible score for Functionality	100

2. For further evaluation, the minimum number of evaluation points to be scored for Functionality is **70%** of total points (100 points), which equates to **70 points**.

3. Only those bidders who achieved at least the minimum number of functionality evaluation points will be eligible to have their bids further evaluated.

EVALUATION CRITERIA					
	CRITERIA	SUB-CRITERIA		MAX SCORE	SOURCE OF EVIDENCE
1	Essential Plant Required	PLANT ITEMS	POINTS	60	Enatis printout and proof of ownership for vehicles not permitted on public roads
		Minimum set of required plant	42		
		Double the number of the minimum required plant with up to 50% of the full complement for the plant	50		
		Double the number of the minimum required plant with more than 50% - 1 point per type of plant item exceeding twice 50% from 50 points up to 60 points	60		
		Max points	60		
2	Locality	Preferred Address within the District	= 40	40	Preferred Address and satellite offices not edited within on and after date of publishing this tender on latest CSD report of the Bidder company
		Preferred Address within the EC with satellite office in District	= 36		
		Preferred Address within the EC	= 30		
		Preferred Address outside the EC	= 10		
		Total Item maximum points		100	

CRITERIA FOR ALLOCATION OF WORK FOR SUCCESSFUL BID

Bidders who meet the minimum 70% threshold for functionality points will be awarded into the panel and ranged according to the points scored.

- Database will be created as per the District,
- Wherein none of the bidders awarded within the District are not in a position to provide the required services, consideration will be given to any qualifying bidders within other Districts – reference is strictly made to SCMU10-24/25-0008 (A-F).
- The successful bidder will be required to submit to the project leader the following contractual obligation a letter of good standing from the compensation commission within 21 days upon receipt of the letter of award.

Bidders are made aware that this bid forms part of a batch of province wide bids. Where it is found that a specific tenderer is eligible for award into more than one panel (District), the employer reserves the right not to award

		bidders into more than one panel. Only if the Tenderer has submitted separate suitable Plant and Key Personnel for each tender/project, may tendering entity be considered for award into more than one panel.
20	F.3.13.1	<p>Tender offers will only be acceptable if:</p> <ul style="list-style-type: none"> a) Tenderers must be registered on the Central Supplier Database (CSD) at National Treasury, otherwise the tender will be rejected (National Treasury SCM Instruction #4A of 2016/2017: Central Supplier Database) and the tenderer's Tax status must be compliant at Tender Award stage; b) the tenderer must be registered with the Construction Industry Development Board (CIDB) in an appropriate 4CE or higher contractor grading designation (All parties to submit this information in the case of a Joint Venture); c) the tenderer is not listed in the Register of Tender Defaulters or the List of Restricted Suppliers managed by the National Treasury (www.treasury.gov.za) in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector; d) the tenderer has not failed to perform on any previous contract with the Employer; e) the tenderer has submitted Authority for Signatory on a company letterhead; f) the Form of Offer is duly completed and signed (Note: Any correction must be signed by the authorized signatory). g) the tenderer has completed and signed the Compulsory Enterprise Questionnaire (Form T2.2R) (for each of the participating firms in the case of a joint venture); h) completed and signed all SBD Forms (SBD1; SBD4; SBD6.1; SBD6.2 with Annexure C i) all relevant certified information is submitted with the Tender; j) all other Tender Conditions are complied with. k) the tenderer complies with Eligibility criteria as per F3.8.1 in the Tender Data; l) Acceptance of the tender offer will be subject to the provisions of Clause F.1.5.1 and F.2.1. <p>the tendering entity has signed the Attendance register at the compulsory</p>

PROVINCE OF THE EASTERN CAPE

DEPARTMENT OF TRANSPORT

TENDER NO.: SCMU10-24/25-0008 A-F

APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND
MAINTENANCE OF GRAVEL ROADS IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36]
MONTHS.

<p style="text-align: center;">THE TENDER PART 2 (OF 2): RETURNABLE DOCUMENTS</p>

T2.1 List of Returnable Documents T2.2

Returnable Documents

Note to Tenderer:

The information contained on these forms, plus the supporting information, will be used in the first stages of the evaluation of Tenders.

T2.1 List of Returnable Documents**1. Forms to be completed**

FORM	DESCRIPTION	Checklist
SBD 1	INVITATION TO TENDER	Y / N
A.	CERTIFICATE OF TENDERER'S ATTENDANCE AT COMPULSORY CLARIFICATION MEETING	Y / N
B.	CERTIFICATE OF AUTHORITY FOR SIGNATORY	Y / N
C	DISTRICT SELECTION	Y / N
D.	SCHEDULE OF SIMILAR PROJECT(S) COMPLETED BY THE TENDERER IN THE PAST 10 YEARS (including TABLE A of this schedule)	Y / N
E.	SCHEDULE OF CONSTRUCTION PLANT – including Letter of Intent if plant is to be hired	Y / N
F.	NOTICES TO TENDERERS	Y / N
G	JOINT VENTURE DISCLOSURE FORM	Y / N
H	CONTRACTOR'S KEY PERSONNEL AND DETAILED CV'S	Y / N
I	BANKING AND AUDITOR DETAILS	Y / N
J	DECLARATION – FULFILLMENT OF THE CONSTRUCTION REGULATIONS, 2014	Y / N
K	PROOF OF REGISTRATION WITH THE CONSTRUCTION INDUSTRY DEVELOPMENT BOARD	Y / N
L	CENTRAL SUPPLIER DATABASE (CSD)	Y / N
M	PROOF OF REGISTRATION WITH THE BARGAINING COUNCIL	Y / N
T2.2R	COMPULSORY ENTERPRISE QUESTIONNAIRE	Y / N
SBD 4	BIDDER'S DISCLOURE	Y / N
SBD 5	THE NATIONAL INDUSTRIAL PARTICIPATION PROGRAMME INTRODUCTION	Y / N
SBD 6.1	PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022	Y / N
SBD 7.2	CONTRACT FORM - RENDERING OF SERVICES	Y / N

THESE FORMS MUST BE COMPLETED USING BLACK INK

Where the space provided in the bound document is insufficient, separate schedules may be drawn up in accordance with the given formats and bound into a separate ring-bound document. These schedules shall then be bound together with a suitable index /contents page and submitted with the tender documents. All such schedules must be signed, and clearly marked as appendices to these relevant forms.

2. Other documents that will be incorporated into the Contract:

- C1.1 Offer and Acceptance
- C1.2 Contract Data
- C2.2 Pricing Schedule

T2.2 RETURNABLE DOCUMENTS

PART A INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE EASTERN CAPE DEPARTMENT OF TRANSPORT					
BID NUMBER:	SCMU10-24/25-0008 A-F	CLOSING DATE:	05 AUGUST 2024	CLOSING TIME:	11:00
DESCRIPTION	APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND MAINTENANCE OF GRAVEL ROADS IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36] MONTHS.				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)					
SCMU10-24/25-0008 A:	Alfred Nzo District	: 118 Ngqubusini Street, Mount Ayliff;			
SCMU10-24/25-0008 B:	Amathole District	: 21 Brooklyn Road, Woodbrook, East London;			
SCMU10-24/25-0008 C:	Chris Hani District	: 92 Cathcart Road, Komani;			
SCMU10-24/25-0008 D:	Joe Gqabi	: 29 Queens Terrace Street, Aliwal North			
SCMU10-24/25-0008 E:	OR Tambo	: Cnr Leeds and Owen Street, 7th Floor, Mthatha			
SCMU10-24/25-0008 F:	Sarah Baartman	: 51 Govan Mbeki Avenue, Port United Building (Absa), Central, Gqeberha			
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	Mr. Philasande Nqikashe		CONTACT PERSON	Mrs. Zezethu Zuzile	
TELEPHONE NUMBER	067 419 8001		TELEPHONE NUMBER	082 576 3984	
FACSIMILE NUMBER			FACSIMILE NUMBER		
E-MAIL ADDRESS	Philasande.nqikashe@ectransport.gov.za		E-MAIL ADDRESS	Zezethu.zuzile@ectransport.gov.za	
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]	
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS					
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?					<input type="checkbox"/> YES <input type="checkbox"/> NO
DOES THE ENTITY HAVE A BRANCH IN THE RSA?					<input type="checkbox"/> YES <input type="checkbox"/> NO
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?					<input type="checkbox"/> YES <input type="checkbox"/> NO
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?					<input type="checkbox"/> YES <input type="checkbox"/> NO
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?					<input type="checkbox"/> YES <input type="checkbox"/> NO
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.					

**PART B
TERMS AND CONDITIONS FOR BIDDING**

1. BID SUBMISSION:	
1.1.	BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2.	ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED (NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.
1.3.	THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
1.4.	THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).
2. TAX COMPLIANCE REQUIREMENTS	
2.1	BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
2.2	BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
2.3	APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA
2.4	BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
2.5	IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
2.6	WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
2.7	NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

SIGNATURE OF THE BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:
(Proof of authority must be submitted e.g. company resolution)

DATE:

...SIGNED ON BEHALF OF TENDERER:

A: CERTIFICATE OF ATTENDENCE OF COMPULSORY BRIEFING

**TENDER NO SCMU10-24/25-0008 A-F:
APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE
SERVICES AND MAINTENANCE OF GRAVEL ROADS IN THE EASTERN CAPE
PROVINCE FOR THIRTY-SIX [36] MONTHS.**

Bidders must ensure to attend at least one of the tender briefings convened in various districts and proof of attendance will be signature of an Eastern Cape Department of Transport Official in the below signature field or an Eastern Cape Department of Transport Stamp clearly indicating attendance on the day.

Failure to submit a duly signed resolution will render the tender non-responsive.

I hereby certify that (Entity Name) _____,
attended a compulsory tender briefing for the above-mentioned project.

ECDOT Official : _____
Name and Surname : _____

Signature _____

B: CERTIFICATE OF AUTHORITY FOR SIGNATORY

Signatory for companies shall confirm his/her authority thereto by attaching a duly signed and dated copy on the company letterhead of the relevant resolution of the board of directors to this form.

Failure to submit a duly signed resolution will render the tender non-responsive.

An example is given below:

“By resolution of the board of directors passed at a meeting held on
.....

Mr./Ms., whose signature appears below, has been duly authorised

to sign all documents in connection with **TENDER NO SCMU10-24/25-0008 A-F: APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND MAINTENANCE OF GRAVEL ROADS IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36] MONTHS.**

and any Contract that may arise therefrom on behalf of

(Name of Tenderer in block capitals)

.....

... SIGNED ON BEHALF OF THE COMPANY: _

.....

IN HIS/HER CAPACITY AS:

DATE:

SIGNATURE OF SIGNATORY:

WITNESSES: 1.

2.

C: SELECTED DISTRICT

Notes to respondent:

- 1. The respondent must indicate, by ticking the applicable box(es), for which framework agreement the respondent is submitting a submission.
- 2. Compliance with the requirements of this submission schedule is deemed a **material responsiveness criterion**.

..... (name of respondent) hereby submit

Submission for the following district(s): **SCMU10-24/25-0008 A-F**

DISTRICT:

(Tick applicable box)

SCMU10-24/25-0008 A - ALFRED NZO

SCMU10-24/25-0008 B - AMATHOLE

SCMU10-24/25-0008 C - CHRIS HANI

SCMU10-24/25-0008 D - JOE GQABI

SCMU10-24/25-0008 E - OR TAMBO

SCMU10-24/25-0008 F - SARAH BAARTMAN

SIGNED BY TENDERER:

**D SCHEDULE OF SIMILAR PROJECT(S) COMPLETED BY THE TENDERER
IN THE PAST 10 YEARS (including TABLE A of this schedule)**

Notes to tenderer:

1. The tenderer must provide, in **TABLE A** of this returnable schedule, information of similar project(s) completed by the tenderer as defined in **CLAUSE F.3.8.1. OF T1.2: TENDER DATA**.
2. For each similar project listed by the tenderer in **TABLE A**, the tenderer must attach:
 - a) the **COMPLETION CERTIFICATE** of the project; and
 - b) a completed and signed returnable schedule **C(A)** and returnable schedule **C(B): SIMILAR PROJECT COMPLETED VERIFICATION FORM**.
3. The tenderer shall indicate in **TABLE A**, were applicable, if the similar project was completed as:
 - a) a principal contractor (PC);
 - b) a joint venture (JV) member;
4. The tenderer must only list defined similar project(s) completed in **TABLE A** provided. **DO NOT** attach a separate list of projects; and **DO NOT** include projects which are not defined as similar project.
5. The information supplied by the tenderer in **TABLE A** and attached supporting documentation [similar project completed verification form(s) and completion certificate(s)] to this returnable schedule will be deemed material to the responsiveness and the Employer's risk analysis of the tender offer.

SIGNED BY TENDERER:

TABLE A: LIST OF SIMILAR PROJECTS COMPLETED FOR RETURNABLE SCHEDULE C

COMPLETION DATE (mm/yyyy)	VALUE OF WORKS COMPLETED (incl. VAT)	DURATION OF WORKS (months)	SHORT DESCRIPTION OF WORKS COMPLETED	WORK DONE AS A (tick applicable box)	EMPLOYER	CONTRACT NAME AND CONTRACT NUMBER
				<input type="checkbox"/> PC <input type="checkbox"/> JV		
				<input type="checkbox"/> PC <input type="checkbox"/> JV		
				<input type="checkbox"/> PC <input type="checkbox"/> JV		
				<input type="checkbox"/> PC <input type="checkbox"/> JV		
				<input type="checkbox"/> PC <input type="checkbox"/> JV		

SIGNED BY TENDERER:.....

E: SCHEDULE OF CONSTRUCTION PLANT

The tenderer must state below which construction plant of his own will be available to the project and which construction plant will be hired. This information shall be material to the adjudication of the Contract. Copies of the Registration Papers (ENatis) for plant that must be licensed must accompany this Bid in order to be considered for eligibility criteria and documents explicitly indicating proof of ownership must be submitted for plant without ENatis documentation.

a) CONTRACTOR'S OWN PLANT

DESCRIPTION, SIZE, CAPACITY	DESCRIPTION/SIZE/CAPACITY	YEAR MODEL
<u>Motorized Graders</u>		
1)		
2)		
<u>Trailer type water bowser (11kl or larger)</u>		
1)		
2)		
<u>Dozer</u>		
1)		
2)		
<u>Loaders</u>		
1)		
2)		
<u>TLB</u>		
1)		
2)		
<u>12-20 Ton Smooth Roller</u>		
1)		
2)		
<u>12-20 Padfoot Roller</u>		
1)		
2)		
<u>Excavator (20t minimum)</u>		
1)		
2)		
<u>Tipper (10m³ minimum)</u>		
1)		
2)		
3)		
4)		
5)		
6)		

SIGNED ON BEHALF OF THE TENDERER:.....

b) CONSTRUCTIONAL PLANT TO BE HIRED

DESCRIPTION, SIZE, CAPACITY	DESCRIPTION/SIZE/CAPACITY	YEAR MODEL
<u>Graders</u>		
<u>Motorized Graders</u>		
1)		
2)		
<u>Trailer type water bowser (11kl or larger)</u>		
1)		
2)		
<u>Dozer</u>		
1)		
2)		
<u>Loaders</u>		
1)		
2)		
<u>TLB</u>		
1)		
2)		
<u>12-20 Ton Smooth Roller</u>		
1)		
2)		
<u>12-20 Padfoot Roller</u>		
1)		
2)		
<u>Excavator (20t minimum)</u>		
1)		
2)		
<u>Tipper (10m³ minimum)</u>		
1)		
2)		
3)		
4)		
5)		
6)		

SIGNED ON BEHALF OF THE TENDERER:.....

F: NOTICES TO TENDERERS

In submitting my/our tender, the tender sum given in my/our tender form has been based on the following Notice(s) to Tenderers. (Signed copies of all Notices to Tenderers are to be attached to this page).

NOTICE NO.	SUBJECT MATTER OF NOTICE

SIGNED ON BEHALF OF THE TENDERER:.....

G: JOINT VENTURE DISCLOSURE FORM

The Signatory on behalf of the Joint Venture must be disclosed in **Form B: Certificate of Authority for Signatory** as well as in the Joint Venture Agreement.

SIGNED ON BEHALF OF THE TENDERER:

PRO-FORMA FOR JOINT VENTURES:

Certificate of Authority for Joint Ventures

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

NAME OF FIRM	ADDRESS	DULY AUTHORISED SIGNATORY
		Signature: Name: Designation:
<p style="text-align: center; opacity: 0.5; font-size: 2em;">Pro-Forma</p>		Signature: Name: Designation:
		Signature: Name: Designation:
		Signature: Name: Designation:

JOINT VENTURE DISCLOSURE FORM

GENERAL

- i) All the information requested must be filled in the spaces provided. If additional space is required, additional sheets may be used and attached to the original documents.
- ii) A copy of the joint venture agreement must be attached to this form, in order to demonstrate the Affirmable, Joint Venture Partner's share in the ownership, control, management responsibilities, risks and profits of the joint venture, the proposed joint venture agreement must include specific details relating to:
 - a) the contributions of capital and equipment
 - b) work items to be performed by the Affirmable Joint Venture Partner's own forces
 - c) work items to be performed under the supervision of the Affirmable Joint Venture Partner.
- iii) Copies of all written agreements between partners concerning the contract must be attached to this form including those, which relate to ownership options and to restrictions/limits regarding ownership and control.
- iv) ABE partners must complete ABE Declaration Affidavits.
- v) The joint venture must be formalised. All pages of the joint venture agreement must be signed by all the parties concerned. A letter/ notice of intention to formalise a joint venture once the contract has been awarded will not be considered.
- vi) Should any of the above not be complied with, the joint venture will be deemed null and void and will be considered non-responsive.
- vii) A joint venture that is awarded a contract with Department of Transport must be registered as a separate company with the Registrar of Businesses.
- viii) The joint venture must be registered with South African Revenue Services.
- ix) A separate bank account must be in place for the joint venture.

1. JOINT VENTURE PARTICULARS

- a) Name.....
- b) Postal address.....
.....
.....

- c) Physical address
-
-
- d) Telephone.....
- e) Fax

2. IDENTITY OF EACH NON-AFFIRMABLE JOINT VENTURE PARTNER

- 2.1(a)** Name of Firm
- Postal Address.....
- Physical Address
- Telephone.....
- Fax.....

Contact person for matters pertaining to Joint Venture Participation Goal requirements:

.....

- 2.2(a)** Name of Firm
- Postal Address.....
- Physical Address
- Telephone
- Fax.....

Contact person for matters pertaining to Joint Venture Participation Goal requirements:

.....

(Continue as required for further non-Affirmable Joint Venture Partners)

3. IDENTITY OF EACH AFFIRMABLE JOINT VENTURE PARTNER

3.1(a) Name of Firm
Postal Address.....
Physical Address
Telephone.....
Fax.....

Contact person for matters pertaining to Joint Venture Participation Goal requirements:
.....

3.2(a) Name of Firm
Postal Address.....
Physical Address
Telephone.....
Fax.....

Contact person for matters pertaining to Joint Venture Participation Goal requirements:
.....

3.3(a) Name of Firm
Postal Address.....
Physical Address
Telephone.....
Fax.....

Contact person for matters pertaining to Joint Venture Participation Goal requirements:
.....

4. **BRIEF DESCRIPTION OF THE ROLES OF THE AFFIRMABLE JOINT VENTURE PARTNERS IN THE JOINT VENTURE**

.....
.....
.....

5. **OWNERSHIP OF THE JOINT VENTURE**

- a) **Affirmable Joint Venture Partner ownership percentage(s)%**
 - b) ***Non-Affirmable Joint Venture Partner ownership percentage(s)%***
 - c) Affirmable Joint Venture Partner percentages in respect of: *
 - (i) Profit and loss sharing
 - (ii) Initial capital contribution in Rands
-
.....

(*Brief descriptions and further particulars should be provided to clarify percentages).

- (iii) Anticipated on-going capital contributions in Rands
-
.....
.....

- (iv) Contributions of equipment (specify types, quality, and quantities of equipment) to be provided by each partner.

.....
.....
.....

SIGNED ON BEHALF OF THE TENDERER:

H: CONTRACTOR'S KEY PERSONNEL & DETAILED CV'S

The Tenderer must state below the key management staff who will be available and intended for use on this contract (in accordance with Tender Data clause F.3.8.1). Relevant detailed CV's including certificates for qualifications and professional registration as well as indicating their previous experience **must be attached** to be considered for eligibility criteria.

POSITION	NAME	EXPERIENCE (YRS) ROADS RELATED
<u>Contracts Manager</u>		
<u>Site Agent</u>		
<u>Safety Officer</u>		

SIGNED ON BEHALF OF THE TENDERER:.....

I: AUDITOR DETAILS

The Tenderer shall provide details of his/her auditing accountant.

Auditor Details - Firm Name:
Address:
Account Number:.....
Contact Person:
Tel No.:
Fax No.:

SIGNED ON BEHALF OF THE TENDERER:

J: DECLARATION: FULFILMENT OF THE CONSTRUCTION REGULATIONS - 2014

In terms of regulation 5(1) of the Construction Regulations, 2014 (hereinafter referred to as the Regulations), promulgated on 7 February 2014 in terms of Section 43 of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) the Employer shall not appoint a contractor to perform construction work unless the Contractor can satisfy the Employer that his/her firm has the necessary competencies and resources to carry out the work safely and has allowed adequately in his/her tender for the due fulfillment of all the applicable requirements of the Act and the Regulations.

Definition of a Competent Person:

“Competent person” means any person having the knowledge, training, experience and qualifications specific to the work or task being performed: Provided that where appropriate qualifications and training are registered in terms of the provisions of the South African Qualifications Authority Act, 1995 (Act No. 58 of 1995), these qualifications and training shall be deemed to be the required qualifications and training;

Tenderers shall answer the questions below:

- 1 I confirm that I am fully conversant with the Regulations and that my company has (or will acquire/procure) the necessary competencies and resources to timeously, safely and successfully comply with all of the requirements of the Regulations. (Tick)

Signature : : Name :

YES	
NO	

- 2 Indicate which approach shall be employed to achieve compliance with the Regulations (Tick)

Own resources, competent in terms of the Regulations (refer to 3 below)	
Own resources, still to be hired and/or trained (until competency is achieved)	
Specialist subcontract resources (competent) – specify:	

- 3 Provide details of proposed key persons, competent in terms of the Regulations, who will form part of the Contract team as specified in the Regulations (CVs to be attached):

.....

.....

4 Provide details of proposed training (if any) that will be undergone:

.....

.....

.....

5 List potential key risks identified and measures for addressing risks:

See the Preliminary Hazard Identification and Risk Assessment contained in the attached Health and Safety Specifications.

Note: The successful tenderer must submit a project specific Occupational Health and Safety Plan to be approved by the Client within 21 days of being awarded the contract.

6 I have fully included in my tender rates and prices (in the appropriate payment items provided in the Bill of Quantities) for all resources, actions, training and any other costs required for the due fulfillment of the Regulations for the duration of the construction and defects repair period.
(Tick)

YES	
NO	

Signature : Name :

SIGNATURE OF PERSON AUTHORISED TO SIGN THIS TENDER:

..... ID NO:

K: PROOF OF REGISTRATION WITH THE CONSTRUCTION INDUSTRY DEVELOPMENT BOARD

Tenderers must attach to this page, a recent printout of proof from the CIDB website verifying their valid CIDB registration.

In the case of Joint Ventures, proof must be provided for **each partner** and the calculated equivalent CIDB grade indicated below for **CE** class of works.

SIGNED ON BEHALF OF THE TENDERER:.....

L: CENTRALIZED SUPPLIER DATABASE (CSD)

Tenderers must be registered on the Central Supplier Database at National Treasury prior to the Award of a tender, and the tenderer's **Tax status must be compliant** (National Treasury SCM Instruction #4A of 2016/2017: Central Supplier Database);

I, the undersigned, confirm the following details of the firm/company's registration on the National Treasury Central Supplier Database:

Supplier Name: Supplier CSD

umber:

SIGNED ON BEHALF OF THE TENDERER:.....

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

Tenderers must attach to this page, **proof of registration** with the Bargaining Council of Civil Engineering Industry.

(Reference Government Gazette No. 37750: All Civil Engineering Contractors on CIDB grading 3CE or higher must be registered with the Bargaining Council of Civil Engineering Industry and submit proof of registration and good standing as part of Returnable Schedules).

Note: submit proof of good standing with bargaining council within 21 days of project commencement

In the case of Joint Ventures, proof must be provided for **each partner**.

This applies to contractors in all CIDB grading levels.

SIGNED ON BEHALF OF THE TENDERER:.....

FORM T2.2R: COMPULSORY ENTERPRISE QUESTIONNAIRE

The following particulars must be furnished. In the case of a joint venture, separate enterprise questionnaires in respect of each partner must be completed and submitted

Section 1: Name of enterprise:												
Section 2: VAT registration number, if any:												
Section 3: CIDB registration number, if any:												
Section 4: Particulars of sole proprietors and partners in partnerships												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Name*</th> <th style="width: 33%;">Identity number*</th> <th style="width: 33%;">Personal income tax number*</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Name*	Identity number*	Personal income tax number*									
Name*	Identity number*	Personal income tax number*										
* Complete only if sole proprietor or partnership and attach separate page if more than 3 partners												
Section 5: Particulars of companies and close corporations												
Company registration number												
Close corporation number												
Tax reference number												
Section 6: The attached SBD4 must be completed for each tender and attached as a tender requirement												
Section 7: The attached SBD6.1 & SBD 6.2 must be completed for each tender and attached as a tender requirement												
Section 8: The attached SBD8 must be completed for each tender and attached as a tender requirement												
Section 9: The attached SBD9 must be completed for each tender and attached as a tender requirement the undersigned, which warrants that he/she is duly authorized to do so on behalf of the enterprise:												
<ul style="list-style-type: none"> i) authorizes the Employer to verify Tax Compliance Status from the South African Revenue Services or the Centralised Suppliers Database (CSD); ii) confirms that neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004; iii) confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convicted of fraud corruption; iv) confirms that i/we are not associated, linked or involved with any other tendering entities submitting tender offers and have no other relationship with any of the tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest; and v) confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct. 												

Signed

Date

Name

Position

Enterprise Name

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state? **YES/NO**

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES/NO**

2.3.1 If so, furnish particulars:

¹ the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

3 DECLARATION

I, the undersigned, (name)..... in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium² will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.5 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.6 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.7 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON ENHANCING COMPLIANCE, TRANSPARENCY AND ACCOUNTABILITY IN SUPPLY CHAIN MANAGEMENT SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of bidder

² Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

DECLARATION OF EMPLOYEES OF THE STATE OR OTHER STATE INSTITUTIONS

This form must be included additional to the SBD.4

1. In terms of section 30 of the Public Service Act;

No employee shall perform or engage himself or herself to perform remunerative work outside his or her employment in the relevant department, except with the written permission of the executive authority of the department.

2.

Are any of the shareholders/ directors of your company employed by the State?	Yes/No
---	--------

3. "State" means –

- (a) Any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999);
- (b) Any municipality or municipal entity;
- (c) Any provincial legislature;
- (d) national Assembly or the national Council of provinces; or
- (e) Parliament.
- (f) Any Parastatal (A company or agency owned or controlled wholly or partly by the government).

4. Should you indicate "yes" above, please provide the following details:

No	NAME & SURNAME OF DIRECTOR	STATE INSTITUTION WHERE EMPLOYED	ID NUMBER	EMPLOYEE/ PERSAL NUMBER
1				
2				
3				
4				
5				

5. Please note: The "state" is clearly defined in paragraph 3 above. In the event that "no" is selected and subsequently any false declaration are detected, the non-disclosure of such "state employment" will be deemed as "fraud". Therefore the state may reject the bid and in addition may proceed with further action should this declaration prove to be false.

6. DECLARATION

I, (NAME & SURNAME).....ID

NUMBER..... CERTIFY THAT THE INFORMATION

FURNISHED IN PARAGRAPHS 2 AND 4 ABOVE IS CORRECT.

.....

..... Signature

..... Date

.....

..... Position

..... Name of bidder

THE NATIONAL INDUSTRIAL PARTICIPATION PROGRAMME INTRODUCTION

The National Industrial Participation (NIP) Programme, which is applicable to all government procurement contracts that have an imported content, became effective on the 1 September 1996. The NIP policy and guidelines were fully endorsed by Cabinet on 30 April 1997. In terms of the Cabinet decision, all state and parastatal purchases / lease contracts (for goods, works and services) entered into after this date, are subject to the NIP requirements. NIP is obligatory and therefore must be complied with. The Industrial Participation Secretariat (IPS) of the Department of Trade and Industry (DTI) is charged with the responsibility of administering the programme.

1 PILLARS OF THE PROGRAMME

1.1 The NIP obligation is benchmarked on the imported content of the contract. Any contract having an imported content equal to or exceeding US\$ 10 million or other currency equivalent to US\$ 10 million will have a NIP obligation. This threshold of US\$ 10 million can be reached as follows:

(a) Any single contract with imported content exceeding US\$10 million.

or

(b) Multiple contracts for the same goods, works or services each with imported content exceeding US\$3 million awarded to one seller over a 2 year period which in total exceeds US\$10 million.

or

(c) A contract with a renewable option clause, where should the option be exercised the total value of the imported content will exceed US\$10 million.

or

(d) Multiple suppliers of the same goods, works or services under the same contract, where the value of the imported content of each allocation is equal to or exceeds US\$ 3 million worth of goods, works or services to the same government institution, which in total over a two (2) year period exceeds US\$10 million.

1.2 The NIP obligation applicable to suppliers in respect of sub-paragraphs 1.1 (a) to 1.1

(c)

above will amount to 30 % of the imported content whilst suppliers in respect of paragraph 1.1 (d) shall incur 30% of the total NIP obligation on a *pro-rata* basis.

1.3 To satisfy the NIP obligation, the DTI would negotiate and conclude agreements such as

investments, joint ventures, sub-contracting, licensee production, export promotion, sourcing arrangements and research and development (R&D) with partners or suppliers.

1.4 A period of seven years has been identified as the time frame within which to discharge the obligation.

2 REQUIREMENTS OF THE DEPARTMENT OF TRADE AND INDUSTRY

2.1 In order to ensure effective implementation of the programme, successful bidders (contractors) are required to, immediately after the award of a contract that is in excess of **R10 million** (ten million Rands), submit details of such a contract to the DTI for reporting purposes. 2.2 The purpose for reporting details of contracts in excess of the amount of R10 million (ten million Rands) is to cater for multiple contracts for the same goods, works or services; renewable contracts and multiple suppliers for the same goods, works or services under the same contract as provided for in paragraphs 1.1.(b) to 1.1. (d) above.

3 BID SUBMISSION AND CONTRACT REPORTING REQUIREMENTS OF BIDDERS AND SUCCESSFUL BIDDERS (CONTRACTORS)

3.1 Bidders are required to sign and submit this Standard Bidding Document (SBD 5) together with the bid on the closing date and time.

3.2 In order to accommodate multiple contracts for the same goods, works or services; renewable contracts and multiple suppliers for the same goods, works or services under the same contract as indicated in sub-paragraphs 1.1 (b) to 1.1 (d) above and to enable the DTI in determining the NIP obligation, successful bidders (contractors) are required, immediately after being officially notified about any successful bid with a value in excess of R10 million (ten million Rands), to contact and furnish the DTI with the following information:

- Bid / contract number.
- Description of the goods, works or services.
- Date on which the contract was accepted.
- Name, address and contact details of the government institution.
- Value of the contract.
- Imported content of the contract, if possible.

3.3 The information required in paragraph 3.2 above must be sent to the Department of Trade and Industry, Private Bag X 84, Pretoria, 0001 for the attention of Mr Elias Malapane within five (5) working days after award of the contract. Mr Malapane may be contacted on telephone (012) 394 1401, facsimile (012) 394 2401 or e-mail at Elias@thedti.gov.za for further details about the programme.

4 PROCESS TO SATISFY THE NIP OBLIGATION

4.1 Once the successful bidder (contractor) has made contact with and furnished the DTI with the information required, the following steps will be followed:

- a. the contractor and the DTI will determine the NIP obligation;
- b. the contractor and the DTI will sign the NIP obligation agreement;
- c. the contractor will submit a performance guarantee to the DTI;
- d. the contractor will submit a business concept for consideration and approval by the DTI;
- e. upon approval of the business concept by the DTI, the contractor will submit detailed business plans outlining the business concepts;

- f. the contractor will implement the business plans; and
- g. the contractor will submit bi-annual progress reports on approved plans to the DTI.

4.2 The NIP obligation agreement is between the DTI and the successful bidder (contractor) and, therefore, does not involve the purchasing institution.

Bid number

Closing date:.....

Name of bidder.....

Postal address

.....

Signature.....

Name (in print).....

Date.....

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

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

(delete whichever is not applicable for this tender).

- a) The applicable preference point system for this tender is the **90/10** preference point system.
- b) The applicable preference point system for this tender is the **80/20** preference point system.
- c) 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:

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

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	
SPECIFIC GOALS	
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:

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

Where

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

3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

3.2.1. POINTS AWARDED FOR PRICE

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

$$Ps = 80 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right) \text{ or } Ps = 90 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)$$

Where

- Ps = Points scored for price of tender under consideration
- Pt = Price of tender under consideration
- Pmax = Price of highest 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.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.)

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

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 allocated (80/20 system) (To be completed by the organ of state)	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)

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number:

4.5. 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]

4.6. 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
 - (e) forward the matter for criminal prosecution, if deemed necessary.

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

CONTRACT FORM - RENDERING OF SERVICES

THIS FORM MUST BE FILLED IN DUPLICATE BY BOTH THE SERVICE PROVIDER (PART 1) AND THE PURCHASER (PART 2). BOTH FORMS MUST BE SIGNED IN THE ORIGINAL SO THAT THE SERVICE PROVIDER AND THE PURCHASER WOULD BE IN POSSESSION OF ORIGINALLY SIGNED CONTRACTS FOR THEIR RESPECTIVE RECORDS.

PART 1 (TO BE FILLED IN BY THE SERVICE PROVIDER)

1. I hereby undertake to render services described in the attached bidding documents to (name of the institution)..... in accordance with the requirements and task directives / proposals specifications stipulated in Bid Number..... at the price/s quoted. My offer/s remain binding upon me and open for acceptance by the Purchaser during the validity period indicated and calculated from the closing date of the bid .
2. The following documents shall be deemed to form and be read and construed as part of this agreement:
 - (i) Bidding documents, viz
 - Invitation to bid;
 - Proof of tax compliance status;
 - Pricing schedule(s);
 - Filled in task directive/proposal;
 - Preference claim form for Preferential Procurement in terms of the Preferential Procurement Regulations;
 - Bidder’s Disclosure form;
 - Special Conditions of Contract;
 - (ii) General Conditions of Contract; and
 - (iii) Other (specify)
3. I confirm that I have satisfied myself as to the correctness and validity of my bid; that the price(s) and rate(s) quoted cover all the services specified in the bidding documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.
4. I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement as the principal liable for the due fulfillment of this contract.
5. I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other bid.
6. I confirm that I am duly authorised to sign this contract.

NAME (PRINT)

CAPACITY

SIGNATURE

NAME OF FIRM

DATE

WITNESSES	
1
.	.
2
.	.

CONTRACT FORM - RENDERING OF SERVICES

PART 2 (TO BE FILLED IN BY THE PURCHASER)

1. I..... in my capacity as..... accept your bid under reference numberdated.....for the rendering of services indicated hereunder and/or further specified in the annexure(s).
2. An official order indicating service delivery instructions is forthcoming.
3. I undertake to make payment for the services rendered in accordance with the terms and conditions of the contract, within 30 (thirty) days after receipt of an invoice.

DESCRIPTION OF SERVICE	PRICE (ALL APPLICABLE TAXES INCLUDED)	COMPLETION DATE	TOTAL PREFERENCE POINTS CLAIMED	POINTS CLAIMED FOR EACH SPECIFIC GOAL

4. I confirm that I am duly authorised to sign this contract.

SIGNED ATON.....

NAME (PRINT)

SIGNATURE

OFFICIAL STAMP

WITNESSES

1

2

DATE:

4. I..... in my capacity as..... accept your bid under reference numberdated.....for the supply of goods/works indicated hereunder and/or further specified in the annexure(s).
5. An official order indicating delivery instructions is forthcoming.
6. I undertake to make payment for the goods/works delivered in accordance with the terms and conditions of the contract, within 30 (thirty) days after receipt of an invoice accompanied by the delivery note.

ITEM NO.	PRICE (ALL APPLICABLE TAXES INCLUDED)	BRAND	DELIVERY PERIOD	TOTAL PREFERENCE POINTS CLAIMED	POINTS CLAIMED FOR EACH SPECIFIC GOAL

4. I confirm that I am duly authorised to sign this contract.

SIGNED ATON.....

NAME (PRINT)

SIGNATURE

OFFICIAL STAMP

WITNESSES

1.

.

2.

.

APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE
SERVICES AND MAINTENANCE OF GRAVEL ROADS IN THE EASTERN CAPE
PROVINCE FOR THIRTY-SIX [36] MONTHS

CONTRACT
PART 1 (OF 4): AGREEMENTS AND CONTRACT DATA

C1.1 Form of Offer and Acceptance C1.3

Contract Data

C1.3 Form of Security (Pro Forma)

DEPARTMENT OF TRANSPORT

TENDER NO.: SCMU10-24/25-0008 A-F

PROVINCE OF THE EASTERN CAPE

APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES FOR THE MAINTENANCE AND CONSTRUCTION OF ROADS IN THE EASTERN CAPE FOR THIRTY-SIX [36] MONTHS)

C1.1: FORM OF OFFER AND ACCEPTANCE

1 OFFER

The employer, identified in the acceptance signature block, has solicited offers to enter a contract for the procurement:

APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND MAINTENANCE OF GRAVEL ROADS IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36] MONTHS.

The Tenderer, identified in the offer signature block, has examined the documents listed in the tender data and addenda thereto as listed in the tender schedules, and by submitting this offer has accepted the tender conditions.

By the representative of the Tenderer, deemed to be duly authorised, signing this part of this Form of Offer and Acceptance, the Tenderer 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 Contract identified in the Contract Data without any guarantee of a quantum of work which will only be invited through Work assignments on ad hoc basis (as and when required).

Further the Tenderer offers to undertake the service under the contract using the rates supplied in the pricing schedule and offers their services for consideration in the following Districts:

DISTRICT: *(Tick applicable box)*

SCMU10-24/25-0008 A - ALFRED NZO

SCMU10-24/25-0008 B - AMATHOLE

SCMU10-24/25-0008 C - CHRIS HANI

SCMU10-24/25-0008 D - JOE GQABI

SCMU10-24/25-0008 E - OR TAMBO

SCMU10-24/25-0008 F - SARAH BAARTMAN

This offer may be accepted by the Employer by signing the acceptance part of this Form of Offer and Acceptance and returning one copy of this document to the Tenderer before the end of the period of validity stated in the tender data, whereupon the Tenderer becomes the party named as the contractor in terms of the conditions of contract identified in the contract data.

OFFER SIGNATURE BLOCK

Authorised Signatory for the Tenderer:

Witness:

.....
Signature

.....
Signature

.....
Name

.....
Name

.....
Capacity

.....
Date

Tenderer.....
(Name and address of organization)

.....

.....

2 ACCEPTANCE

By signing this part of this Form of Offer and Acceptance, the employer identified below accepts the Tenderers offer. In consideration thereof, the employer shall pay the contractor the amount due in accordance with the conditions of contract identified in the contract data. Acceptance of the Tenderers offer shall form an agreement between the employer and the Tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

The Contract – Part 1– Agreements and Contract Data

The terms of the Contract are contained in

Part C1 : Agreements and Contract Data (which includes this Agreement)

Part C2 : Pricing data

Part C3 : Scope of Work

Part C4 : Site Information

and drawings and documents or parts thereof, which may be incorporated by reference into Parts C1 to C4 above as well as the Appendices.

Deviations from and amendments to the documents listed in the tender data and any addenda thereto, as listed in the tender schedules as well as any changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance, are contained in the schedule of deviations attached to and forming part of this agreement. No amendments to or deviations from said documents are valid unless contained in this schedule, which must be duly signed by the authorized representative(s) of both parties.

The tenderer shall, within two weeks after receiving a completed copy of this agreement including the schedule of deviation (if any), contact the employer's agent (whose details are given in the contract data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the contract data at, or just after, the date this Agreement comes into effect. Failure to fulfil any of the obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed original copy of this document, including the schedule of deviations (if any). Unless the tenderer (now contractor), within five (5) working days of the date of such receipt, notifies the employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

ACCEPTANCE SIGNATURE BLOCK

For The Employer

.....
Signature

.....
Name

.....
Capacity

for the **Employer:**
Department of Transport
Room C1, Stellenbosch Park Building,
Flemming Street,
King Williams Town

Witness

.....
Signature

.....
Name

.....
Date

3. 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 tender conditions.
2. A tenderers covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, be the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here, as contained in GCC 2015 pg.100 (Appendix 1).
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 incorporated into the final draft of the contract.

1. Subject
- Details
2. Subject
- Details
3. Subject
- Details
4. Subject
- Details
5. Subject
- Details

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

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

DEPARTMENT OF TRANSPORT
TENDER NO.: SCMU10-24/25-0008 A-F
PROVINCE OF THE EASTERN CAPE

**APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND
MAINTENANCE OF GRAVEL ROADS IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36] MONTHS**

C1.2: CONTRACT DATA (PART 1)		
PART 1: DATA PROVIDED BY THE EMPLOYER		
CONDITIONS OF CONTRACT		
The General Conditions of Contract for Construction Works (Third Edition 2015) [hereinafter referred to as GCC 2015], published by the South African Institution of Civil Engineering (SAICE) are applicable to this contract.		
CONTRACT SPECIFIC DATA		
The following contract specific data, amendments, additions, or omissions are applicable to this Contract.		
No.	Clause	Description
1	1.1.1.13	The Defects Liability Period is 06 months measured from the date of the Certificate of Completion.
2	1.1.1.14	The duration of the panel is 36 Months.
3	1.1.1.15	The Employer is THE DEPARTMENT OF TRANSPORT, EASTERN CAPE
4	1.1.1.16	The Employers Agent is a partner/director/member of the firm stated in Clause 1.2.1.2, duly authorized to this position in writing.
5	1.1.1.26	The panel agreement is rates based.
6	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.
8	1.2.1.2	The Employer's address for receipt of communications and notices is: <u>During Tender Stage</u> Telephone: 082 576 3984 E-mail: zezethu.zuzile@ectransport.gov.za Address (Physical): Department of Transport Room C1, Stellenbosch Park Building, Flemming Street, King Williams Town, 5601

No.	Clause	Description
9	1.2.1.2	<p>The Employers Agent's address for receipt of communications and notices will be given once available.</p> <p>The Employer's agent for the implementation phase in the Alfred Nzo District is: Name: Mandiphiwe Cwili Address: Alfred Nzo Regional Office 118 Ngqubusini Street Mount Ayliff, 4735 Tel: 067 414 2504 Email: Mandiphiwe.Cwili@ectransport.gov.za</p> <p>The Employer's agent for the implementation phase in the Chris Hani District is: Name: Bongo Mbebe Address: Chris Hani Regional Office 92 Cathcart Road Komani, 5099 Tel: 064 880 6640 Email: Bongo.Mbebe@ectransport.gov.za</p> <p>The Employer's agent for the implementation phase in the Joe Gqabi District is: Name: Johann Botha Address: Joe Gqabi Regional Office 29 Queens Terrace Street, Aliwal North, 9750 Tel: 066 133 7062 Email: Johann.Botha@ectransport.gov.za</p> <p>The Employer's agent for the implementation phase in the OR Tambo District is: Name: Fundilizwe Ponco Address: OR Tambo Regional Office Cnr Leeds and Owen Street Mthatha, 5099 Tel: 083 397 7143 Email: Fundilizwe.Ponco@ectransport.gov.za</p> <p>The Employer's agent for the implementation phase in the Sarah Baartman District is: Name: Randall Moore Address: Sarah Baartman Regional Office 51 Govan Mbeki Avenue Port United Building (Absa) Central Gqeberha, 6001 Tel: 083 666 1597 Email: Randall.Moore@ectransport.gov.za</p>
10	1.3.6	<p>Add the following as 1.3.6</p> <p>"The Contractor hereby indemnifies the Employer against any action, claim, damages or legal cost that may be instituted against the Employer on the grounds of an alleged infringement of any copyright or any other intellectual property right in connection with the Works outlined in this Contract."</p>

11	1.3.7	<p>Add the following as 1.3.7</p> <p>“All information, documents, recommendations, programmes and reports collected or compiled must be regarded as confidential and may not be communicated or made available to any person outside the Employer’s service and may not be published either during the currency of this Contract or after termination thereof without the prior written consent of the Employer.”</p>
12	2.4.1	<p>Add the following:</p> <p>“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:</p> <ol style="list-style-type: none"> 1. Form of Offer and Acceptance and Schedule of Deviations 2. Contract Data 3. General Conditions of Contract (2015) 4. Project Specifications 5. Working Drawings 6. Standard Specifications of Roads and Bridgeworks (1998) 7. Departmental guidelines and manuals/prescripts 8. Schedule of Quantities”
13	3.2.3	<p>The Employers Agent shall obtain specific approval from the Employer before executing any of his functions or duties according to the following Clauses of the General Condition of Contract:</p> <ul style="list-style-type: none"> • Nominating the Employers Agent’s Representative in terms of Clause 3.2.1 • The issuing of instructions for dealing with fossils and the like in terms of Clause 4.7 • Authorising the Contractor to repair and make good, excepted risks in terms of Clause 7.5.5 • The issuing of variation orders in terms of Clause 6.3.2 • The issuing of an instruction to accelerate progress in terms of Clause 5.12.4 • The approval of any extension of time for completion in terms of Clause 5.12.1 • The reduction of a penalty for delay in terms of Clause 5.13.2 • The issuing of penalties in terms of Clause 5.13 • The determination of additional or reduced costs arising from changes in legislation in terms of Clause 6.8.4 • The giving of a ruling on a Contractor’s claim in terms of Clause 10.1.5 • The agreeing of the adjustment of the sums for general items in terms of Clause 6.11
14	3.2.4	Delete the last sentence of the Clause
15	3.3.6	<p>Add the following:</p> <p>“The time limit for referring the matter to the Employers Agent by the Contractor shall be twenty one (21) days after the decision in question was given by the Employers Agent’s Representative”.</p>

16	4.3.1.2	<p>Add the following new sub-clause</p> <p>“The Employer and the Contractor hereby agree, in terms of the provisions of section 37 (2) of the Occupational Health & Safety Act, 1993 (Act 85 of 1993, hereinafter referred to as ‘the Act’), that the following arrangements and procedures shall apply between them to ensure compliance by the Contractor with the provisions of the Act, namely:</p> <p>(a) The Contractor undertakes that the appropriate officials and employees of the Contractor will fully acquaint themselves with all relevant provisions of the Act and the Regulations promulgated in terms of the Act;</p> <p>(b) The Contractor undertakes that all relevant duties, obligations and prohibitions imposed in terms of the Act and regulations will be fully complied with;</p> <p>(c) The Contractor hereby accepts sole liability for such due compliance with the relevant duties, obligations and prohibitions imposed by the Act and Regulations, and expressly absolves the Employer from itself being obliged to comply with any of the aforesaid duties, obligations, and prohibitions; with the exception of such duties, obligations and prohibitions expressly assigned to the Employer in terms of the Act and its associated Regulations.</p> <p>(d) The Contractor agrees that any duly authorized official of the Employer shall be entitled (although not obliged) to take such steps as may be necessary to ensure that the Contractor has complied with his undertakings as set out more fully in paragraphs (a) and (b) above, which steps may include, but will not be limited to, the right to inspect any appropriate site or premises occupied by the Contractor, or to inspect any appropriate records or Safety Plans held by the Contractor;</p> <p>(e) The Contractor shall be obliged to report forthwith to the Employer any investigation, complaint or criminal charge which may arise as a consequence of the provisions of the Act and regulations, pursuant to work performed in terms of this Contract, and shall, on written demand, provide full details in writing of such investigation, complaint or criminal charge.</p> <p>(f) The Contractor shall furthermore, in compliance with the Constructional Regulations of 2014</p> <p>(i) Acquaint himself with the requirements of the Employer’s Health and Safety Specification as laid down in regulation 4(1)(a) of the Construction Regulation of 2014 and prepare a suitably and sufficiently documented Health and Safety Plan as contemplated in regulation 5(1) of the Construction Regulation of 2014 for approval by the Employer or his assigned agent. The Contractor’s Health and Safety Plan and risk assessment shall be submitted to the employer for approval within 21 days from the date of signing the Form of Acceptance and shall be implemented and maintained from the Commencement of the Works.</p> <p>(ii) The Employer, or his assigned agent, reserves the right to conduct periodic audits, as contemplated in the Construction Regulations 2014, to monitor that the Contractor is compliant in respect of his obligations. Failure by the Contractor to comply with requirements of these Regulations shall entitle the Employers Agent, at the request of the Employer or his Agent, to suspend all or any part of the Works, with no recourse whatsoever by the Contractor for any damages incurred as a result of such suspension, until such time as the Employer or his Agents are satisfied that the issues in which the Contractor has been in default have been rectified.”</p>
17	4.3.3	<p>Add the following new sub-clause:</p> <p>“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 conclusion of the Contract.”</p>
18	4.9.2	<p>Add the following as 4.9.2</p> <p>“In order to preclude seizure by the owner of any constructional plant being held by the Contractor on a hire or hire-purchase agreement for the purposes of the Contract, the Employer shall be entitled to pay any such owner the amount of any outstanding instalment or other sum owing under any hire or hire-purchase agreement and in the event of his doing so, any amount thus paid by him shall be a debt payable to the Employer by the Contractor and may be deducted by the Employer from any moneys owing or that may become owing to the Contractor in terms of the Contract, or be recovered at law from the Contractor by the Employer.”</p>

19	4.9.3	Add the following as 4.9.3 “When entering into any subcontract for the execution of any part of the works, the Contractor shall incorporate in such subcontract, by reference or otherwise, the provisions of Clauses 4.9.1 and 4.9.2 in respect of constructional plant brought to the site by the subcontract.”
20	5.3.1	The documentation required within 14 days of receipt of a work assignment and prior commencement with Works execution are: <ul style="list-style-type: none"> • An approved, project specific Health and Safety Plan (Refer Clause 4.3); • Maintenance 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; and • A works programme; and • Cashflows
21	5.3.2	The time to submit the documentation required before commencement with Works execution is within 21 days of receipt of the signed Form of Offer and Acceptance
22	5.8.1	The special non-working days are statutory public holidays, Saturdays, Sundays and the yearend break, as determined by SAFCEC . These days will be included for time calculations. Due to the contract being a maintenance contract, the contractor shall provide a full service during all special non-working days.
23	5.8.2	Add the following to Clause 5.8.2: “The cost of supervision by the Employers Agent or his representatives outside of normal (Monday to Friday) working hours as defined in Government Gazette 18491 of 5 December 1997 shall be to the Contractor’s account.”
24	5.11.1	<i>In the third line, after the word “progress”, insert “or alter the order”.</i>
25	5.12.1	Delete the contents of the Clause and replace with the following: “There will be no extension of time unless agreed to by all parties in writing.”
26	5.12.2.2	Add to Clause 5.12.2.2: “The time specified as the time for completion includes allowances for those days on which it is expected that work, on the critical path items of the works, would be prevented due to weather conditions such as wind, rainfall or the subsequent waterlogged condition. Based on average weather conditions of wind, rain and sunshine the allowances are: <ul style="list-style-type: none"> • 2 working days per month for the months of May to October; • 3 working days per month for the months of November to April.
27	5.13	Add the following new sub-clauses: “5.13.3 The provisions of sub-clause 5.13.1 shall also apply to completion of a specified stage of work as described in the Tender Forms, the Agreement, and the Contract Scope of Works. Where a penalty is enforced by the Employer for late completion of any stage of work, the penalty shall not be refundable even if subsequent stages of completion are achieved on schedule. If late completion of more than one stage occurs, the total penalty per day shall not exceed the penalty for late completion of the contract as defined in the Tender Forms, the Agreement or the Contract Scope of Works.

No.	Clause	Description
		<p>5.13.4 All penalties for which the Contractor becomes liable in terms of Sub-clauses 5.13.1 to 5.13.4 shall be deducted monthly from the Payment Certificates and will be accumulative. The Employer may, without prejudice to any other method of recovery, deduct the amounts of all such penalties from any monies in his possession that are or may become due to the Contractor.</p> <p>5.13.5 The imposition of any penalties in terms of Sub-clauses 5.13.1 to 5.13.4 shall not limit the Employers Agent's nor Employer's right to act in terms of Sub-clause 9.2.</p> <p>5.13.6 The Contractor should notice that the following fines apply for non-conformance with the Project Specifications:</p> <ul style="list-style-type: none"> • As per Clause B1502 (j) for Accommodation of Traffic. • As per Clause B13011 for Occupational Health and Safety nonconformities. • As per Clause C3.3.2.1 for utilization of Local Labour. • As per Clause B12016 for Environmental nonconformities
28	5.14.5.5	Delete Clause 5.14.5.5 and replace with: "Insurance of the works shall continue until the expiration of the Defects Liability Period."
29	5.16.3	The Defects Liability Period is 6 months measured from the date of the Certificate of Completion.
30	6.2.1	<p>Replace the wording "as selected" in Clause 6.2.1 with "as stated".</p> <p>"A Performance Guarantee is required prior to commencement of any Works only for assignments exceeding R 10m awarded from this Framework Appointment, unless specifically requested by the Employer."</p>
31	6.3.1	<i>In the fifth line, after the word "shall", insert "with the approval of the Employer".</i>

No.	Clause	Description
33	6.5.1.2.3	The percentage allowances to cover all overhead charges are limited to a maximum of 20% of the respective works package value (excluding VAT).
34	6.6.1.2	After all references to the word "sums", insert "excluding VAT"
35	6.8.1	Add the following: "The employer in this tender offers flat rates, thus there will be no tender rates. The rates contained in the Bill of quantities will be used for formulation of work assignments. The rates in the Bill of Quantities are exclusive of Value Added Tax (VAT). Provision is made for the addition of VAT in the summary of the Bill of Quantities."
36	6.8.2	The Contract Price Adjustment is not applicable.
37	6.10.1.5	The percentage advance on materials not yet built into the Permanent Works is 80% .
38	6.10.1.9	<u>Add the following new clause:</u> "The Contractor is required to submit completed, accurate and signed monthly Expanded Public Works Programme (EPWP) reports, as per annexures to this tender document in 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."
39	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"
40	6.10.3	The percentage retention on the amounts due to the Contractor is Five (5%) of the Contract Price (excluding VAT).
41	6.11.1.3	<i>Delete the words "15 percent and replace with "30 percent".</i>
42	7.2.1	Add the following at the end of the paragraph: "subject to approval of the Employers Agent".
43	7.8.2.2	In subsubclause 7.8.2.2 add the following: "subject to such work being done on a written instruction by the Employer's Agent."
44	8.6	Delete Clause 8.6 and replace it with: (1) Without limiting his obligations in terms of the Contract, the Contractor shall before commencement of the Works effect and maintain the following insurances covering the respective interests of the Contractor and the Employer:

No.	Clause	Description
		<p>(a) Insurance of the Works and of all movables on the Site intended for incorporation in the Works against damage or physical loss from whatsoever cause arising (other than causes set out in Clause 8.3.1)</p> <p>(i) for the period for which the Contractor is responsible for the Works in terms of Clause 8.2, and</p> <p>(ii) for a sum insured which shall, unless otherwise specified in the Contract, be the aggregate of</p> <p>(a) the Contract Price,</p> <p>(b) a sum to cover the value (specified at the time of delivery to the Contractor) of materials supplied by the Employer for incorporation in the Works and not included in the Contract Price, and</p> <p>(c) a sum to cover professional fees, not included in the Contract Price, payable in respect of the repair or reinstatement of damage to the Works or said movables.</p> <p>(b) A Coupon Policy for Special Risks Insurance issued by the South African Special Risks Insurance Association is required.</p> <p>(c) Public Liability Insurance from the Commencement Date to the date of the Certificate of Completion or the end of the Defects Liability Period (if any) for a minimum limit of indemnity of R15 000 000, with no limitation on the number of accidents in any one year, covering the Employer and the Contractor against their respective liability for the death of or injury to any person or loss of or damage to any property (other than property while it is insured in terms of paragraph (a)) arising out of or in the course of the performance of the Contract:</p> <p>Provided that</p> <p>(i) the insurance shall not be required to cover any liability arising out of any of the matters referred to in the provisos of Clause 8.3.1, and</p> <p>(ii) the insurance shall include a cross-liability clause such that the insurance shall apply to the Contractor and to the Employer as separate insured parties.</p> <p>(2) Save as otherwise provided in the Contract, nothing herein contained shall oblige the Contractor to effect any insurance which is not generally obtainable from a registered insurer in the Republic of South Africa.</p> <p>(3) The insurances referred to in Sub-Clause (1) shall be effected with an insurance company registered in the Republic of South Africa and the terms thereof shall be subject to approval by the Employer, which approval shall not be unreasonably withheld.</p> <p>(4) The Contractor shall produce to the Employer the policies by which the insurances are effected and proof of the due payment of all premiums thereunder and of the continuity of the policies for the required period within 14 days of receipt of the Letter of Acceptance.</p> <p>(5) The Contractor and the Employer shall comply with the terms and conditions of the insurance policies.</p> <p>(6) If the Contractor shall fail to effect and keep in force any of the insurances referred to in Sub-Clause (1), the Employer may effect and keep in force such insurance and pay such premium or premiums as may be necessary for the purpose and the Contractor shall refund the amounts of such premiums to the Employer.</p> <p>(7) The Contractor shall provide proof that he has paid all contributions required in terms of the Compensation for Occupational Injuries and Diseases Act, No. 130 of 1993, and that he has complied with the provisions of the Occupational Health and Safety Act, No. 85 of 1993.</p>
47	10.5.3	The number of Adjudication Board Members to be appointed is three. Adjudication shall be used to resolve disputes arising during the performance of a contract prior to proceeding to either arbitration or litigation.
No.	Clause	Description
48		Tenderers must submit proof of registration and good standing with the bargaining council (BCCEI) within 21 days of appointment letter.

C1.2: CONTRACT DATA (PART 2)

PART 2: DATA PROVIDED BY THE CONTRACTOR

No.	Clause	Description		
1	1.1.1.9	The Contractor is <i>[The Legal name of the Contractor].</i>		
2	1.2.1.2	The Contractor's address for receipt of communications and notices is : Telephone: Facsimile: E-mail : Address (Postal) : Address (Physical) :		
3	6.2.1	<table border="1" style="width: 100%;"> <tr> <td data-bbox="475 999 1465 1048">The security to be provided by the Contractor shall be:</td> </tr> <tr> <td data-bbox="475 1048 1465 1104">Type of Security</td> </tr> </table>	The security to be provided by the Contractor shall be:	Type of Security
The security to be provided by the Contractor shall be:				
Type of Security				
4	6.5.1.2.3	Performance Guarantee of 5% of the Contract Sum, which shall be the value works package and shall be released upon completion of the works package The percentage allowances to cover all overhead charges are.....		

PROVINCE OF THE EASTERN CAPE

DEPARTMENT OF TRANSPORT

TENDER NO.: SCMU10-24/25-0008 A-F

APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND MAINTENANCE OF GRAVEL ROADS IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36] MONTHS

C1.3: PERFORMANCE GUARANTEE (PRO FORMA)

GUARANTOR DETAILS AND DEFINITIONS

"Guarantor" means:
.....

Physical address:
.....

"Employer" means:
.....

"Contractor" means:
.....

"Engineer" means:
.....

"Works" means:
.....

"Site" means:
.....

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

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

Amount in words:
.....

"Guaranteed Sum" means: The maximum aggregate amount of
R.....

Amount in words:
.....

"Expiry Date"
means.....

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

PERFORMANCE GUARANTEE

- 1 The Guarantor's liability shall be limited to the amount of the Guaranteed Sum.
- 2 The Guarantor's period of liability shall be from and including the date of issue of this Performance Guarantee and up to and including the Expiry Date or the date of issue by the Engineer of the Certificate of Completion of the Works or the date of payment in full of the Guaranteed Sum, whichever occurs first. The Engineer and/or the Employer shall advise the Guarantor in writing of the date on which the Certificate of Completion of the Works has been issued.

- 3 The Guarantor hereby acknowledges that:
- 3.1 any reference in this Performance Guarantee to the Contract is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship;
- 3.2 its obligation under this Performance Guarantee is restricted to the payment of money.
- 4 Subject to the Guarantor's maximum liability referred to in 1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 4.1 to 4.3:
- 4.1 A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Engineer in an Interim or Final Payment Certificate has not been made in terms of the Contract and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 4.2;
- 4.2 A first written demand issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) days has elapsed since the first written demand in terms of 4.1 and the sum certified has still not been paid;
- 4.3 A copy of the aforesaid payment certificate which entitles the Employer to receive payment in terms of the Contract of the sum certified in 4.
- 5 Subject to the Guarantor's maximum liability referred to in 1, the Guarantor undertakes to pay to the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand from the Employer to the Guarantor at the Guarantor's physical address calling up this Performance Guarantee. such demand stating that:
- 5.1 the Contract has been terminated due to the Contractor's default and that this Performance Guarantee is called up in terms of 5; or
- 5.2 a provisional or final sequestration or liquidation court order has been granted against the Contractor and that the Performance Guarantee is called up in terms of 5; and
- 5.3 the aforesaid written demand is accompanied by a copy of the notice of termination and/or the provisional/final sequestration and/or the provisional liquidation court order.
- 6 It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 4 and 5 shall not exceed the Guarantor's maximum liability in terms of 1.
- 7 Where the Guarantor has made payment in terms of 5, the Employer shall upon the date of issue of the Final Payment Certificate submit an expense account to the Guarantor showing how all monies received in terms of this Performance Guarantee have been expended and shall refund to the Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of this Performance Guarantee shall bear interest at the prime overdraft rate of the Employer's bank compounded monthly and calculated from the date payment was made by the Guarantor to the Employer until the date of refund.
- 8 Payment by the Guarantor in terms of 4 or 5 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.
- 9 Payment by the Guarantor in terms of 5 will only be made against the return of the original Performance Guarantee by the Employer.
- 10 The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer may deem fit and the Guarantor shall not have the right to claim his release from this Performance Guarantee on account of any conduct alleged to be prejudicial to the Guarantor.
- 11 The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.
- 12 This Performance Guarantee is neither negotiable nor transferable and shall expire in terms of 2, where after no claims will be considered by the Guarantor, The original of this Guarantee shall be returned to the Guarantor after it has expired.
- 13 This Performance Guarantee, with the required demand notices in terms of 4 or 5, shall be

regarded as a liquid document for the purposes of obtaining a court order.

- 14 Where this Performance Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrate's Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court.

Signed at Date.....

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

Capacity.....

Guarantor's signatory (2)

Capacity.....

PROVINCE OF THE EASTERN CAPE

DEPARTMENT OF TRANSPORT

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**APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND
MAINTENANCE OF ROADS IN THE EASTERN CAPE FOR THIRTY-SIX [36] MONTHS.**

<p style="text-align: center;">CONTRACT PART 2 (OF 4): PRICING DATA</p>

C2.1 Pricing Instructions

C2.2 Bill of Quantities

PROVINCE OF THE EASTERN CAPE

DEPARTMENT OF TRANSPORT

TENDER NO.: SCMU10-24/25-0008 A-F

APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND MAINTENANCE OF ROADS IN THE EASTERN CAPE FOR THIRTY-SIX [36] MONTHS.

C2.1: PRICING INSTRUCTIONS

- C2.1.1 For the purposes of this Bill of Quantities, the following words shall have the meanings hereby assigned to them.
- Unit: The unit of measurement for each item of work as defined in the Standard Specifications or the Project Specifications.
- Quantity: The number of units of work for each item.
- Rate: The payment per unit of work for which the Tenderer tenders to do the work. Amount:
The product of the quantity and the rate tender for an item.
- Lump Sum: An amount tender for an item, the extent of which is described in the Bill of Quantities, the Specifications or elsewhere, but of which the quantity of work is not measured in units.
- C2.1.2 This Bill of Quantities forms part of the contract documents and must be read in conjunction with all the other documents comprising the contract documents.
- C2.1.3 The quantities set out in the Bill of Quantities are only approximate quantities. The quantities of work finally accepted and certified for payment, and not the quantities given in the Bill of Quantities, will be used to determine payments to the Contractor.
- The validity of the contract shall in no way be affected by differences between the quantities in the Bill of Quantities and the quantities finally certified for payment. Work is valued at the rates or lump sums tender, subject only to the provisions of subclause 1209 (a) of the Standard Specifications.
- C2.1.4 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, all in accordance with subclause 1209 (b) of the Standard Specifications. Full compensation for completing and maintaining, during the defects liability period, all the work shown on the drawings and specified in the Standard Specifications and Project Specifications and for all the risks, obligations and responsibilities specified in the General Conditions of Contract, Special Conditions of Contract, Standard Specifications and Project Specifications shall be considered as provided for collectively in the items of payment given in the Bill of Quantities, except in so far as the quantities given in the Bill of Quantities are only approximate.
- C2.1.5 The rates or lump sums 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 Bill of Quantities.
- The Tenderer shall fill in a rate against all items where the words "rate only" appear in the amount column. Although no work is foreseen under such item and no quantities are consequently given in the quantity column, the tender rate shall apply should work under this item be required. Tenderers should note the provisions of paragraph 12 of this preamble.
- If the Tenderer should group a number of items together and tender one lump sum for each group of items, this single tender lump sum shall apply to that group of items and not to each individual item, or should he indicate that full compensation for any item has been included in the rate for another item, the rate for the item included in another item shall be deemed to be nil.

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

- C2.1.6 The works executed are measured for payment in accordance with the methods described in the contract documents under the various payment items, notwithstanding any custom to the contrary. Attention is directed to the provisions of Clause 1220 of the Standard Specifications regarding the measurements of quantities for payment. Except where specified otherwise than in Clause 1220, the nett measurement or mass of the finished work in place shall be taken for payment, and any volume or mass of work more than that prescribed, shall be excluded.
- C2.1.7 The amount of work or the quantities of material stated in the Bill of Quantities shall not be considered as restricting or extending the amount of work to be done or quantity of material to be supplied by the Contractor.
- C2.1.8 The statement of quantities of material or the amount of work in the Bill of Quantities shall not be regarded as authorisation for the Contractor to order material or to execute work. The Contractor shall obtain the Engineer's detailed instructions for all work before ordering any materials or executing work or making arrangements in this regard.
- C2.1.9 The short descriptions of the payment items in the Bill of Quantities are only given to identify the items and to provide specific details. Reference shall, inter alia, be made to the drawings, Standard Specifications, Project Specifications, General Conditions of Contract and Special Conditions of Contract for more detailed information regarding the extent of work entailed under each item.
- C2.1.10 The provisions of Clause 6.6 of the General Conditions of Contract shall apply to provisional sums and prime cost sums.
- C2.1.11 Subject to the conditions stated in paragraph C2.1.12 below, the rates and lump sums filled in the Bill of Quantities shall be final and binding regarding 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. Adjustment of the rates will take place prior to the signing of the contract. In their own interest Tenderers must make doubly sure of the correctness of their tender rates, the extensions and the Tender Sum.

Arithmetical errors of responsive tenders will be corrected in the following manner:

- Where there is a discrepancy between an amount shown in figures, and the corresponding amount stated in words, the amount stated in words shall take preference;
- In the Bill of Quantities, if there is an error in the line-item total resulting from the product of the quantity and the unit rate, the line-item total shall govern, and the rate shall be corrected. Where there is a misplacement of the decimal point in the unit rate, the line-item total shall govern, and the unit rate will be corrected;
- Where there is an error in the total of the prices either because of other corrections required by this checking process or in the the total of the prices shall govern and the Tenderer will be asked to revise selected item prices (and their rates in the Bill of Quantities) to achieve the tender total of the prices.

Should a tenderer be unwilling to make the corrections ordered by the Engineer, the tender may be disqualified.

- C2.1.13 The units of measurement indicated in the Bill of Quantities are metric units The following abbreviations are used in the Bill of Quantities:

mm	=	Millimeter
m	=	Metre
km	=	Kilometer
km-pass	=	kilometre-pass
m ²	=	square metre
m ² -pass	=	square metre pass
ha	=	Hectare
m ³	=	cubic metre
m ³ -km	=	cubic metre kilometre
l	=	Litre
kl	=	Kiloliter
kg	=	Kilogram
t	=	ton (1000 kg)
No	=	Number
mn	=	meganewton
mn-m	=	meganewton-metre
%	=	Percent
kW	=	Kilowatt
Kn	=	Kilonewton
PC sum	=	prime cost sum
Prov sum	=	provisional sum

C2.1.14 All rates and sums of money quoted in the Bill of Quantities shall be in Rands and whole cents. Fractions of a cent shall be discarded.

C2.1.15 The item numbers appearing in the Bill of Quantities refer to the corresponding item numbers in the Standard Specifications. Item numbers prefixed by the letter B refer to payment items described under Part B of the Project Specifications, those with C to payment items described under Part C, and so on for further parts of the project specifications.

Bidders need not to make any financial offers or offer any rates. The employer has gathered market related rates for each item in the pricing schedule, such rates are being offered for use for the duration of the panel period with annual 10% escalation. A total price for each work package will be determined once a quantum of work is identified using the rates supplied. The client reserves the right to allow for rates balancing upon issuance of works packaging. Price breakdowns will be required in the event rates balancing is required.

PROVINCE OF THE EASTERN CAPE

DEPARTMENT OF TRANSPORT TENDER NO.:

SCMU10-24/25-0008 A-F

APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND MAINTENANCE OF GRAVEL ROADS IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36] MONTHS

C2.2: BILL OF QUANTITIES

SCMU10-24/25-0008 A-F

ITEM NO.	DESCRIPTION	UNIT	RATE
SSPS	1200 GENERAL REQUIREMENTS AND PROVISIONS		
	Community Liaison Officers		
B12.01	(a) Community Liaison Officer cost	Prov Sum	R 4 000,00
	(b) Monthly transport allowance for CLO for duration of Contract	Prov Sum	R 1 000,00
	(c) Remuneration of PSC members to attend official meetings	Prov Sum	R 350,00
	(d) Handling costs and charges for Contractor on items B12.01 (a) to (c)	%	10,00%
B12.02	(a) Provision of Engineer's Requirements	Prov Sum	R 30 000,00
	(b) Handling costs and charges for Contractor on items B12.04 (a)	%	10,0%
B12.03	(a) Provision for Environmental Management Plan And Audits	Prov Sum	R 35 000,00
	(b) Handling costs and charges for Contractor on items B12.02 (a)	%	10%
B12.04	(a) Provision for Occupational Health and Safety Officer	Prov Sum	R 20 000,00
	(b) Handling costs and charges for Contractor on items B12.02 (a)	%	10%
B12.05	(a) Provision for Institutional Social Development Services	Prov Sum	R 40 000,00
	(b) Handling cost and charges for contractor on items B12.06(a)	%	10,00%
B12.07	(a) Protection or Relocate of Existing Services	Prov Sum	R 10 000,00
B12.08	(a) Working adjacent/parallel to existing services (electrical and telecommunication services)	Prov Sum	R15 000,00
B12.09	Provision for works to be sub-contracted to local SMME's including Preliminary and General items	Prov Sum	R 150 000,00
B12.10	Handling cost on item B12.10 (including managing of SMME contractors for the duration of the contract - 10 months)	%	10
TOTAL CARRIED TO SUMMARY			

ITEM NO.	DESCRIPTION	UNIT	RATE
SSPS	1300 CONTRACTOR'S ESTABLISHMENT		
	ON SITE AND GENERAL OBLIGATIONS		
B13.01	The Contractor's general obligations:		
	(a) Fixed obligations	Lump Sum	R 300 000,00
	- Facilities for Contractor including offices, storage sheds, living, accommodation, ablution and latrine facilities, tools and equipment, water supplies, electric, power, communications, setting out of Works, security and dealing with water, traffic and access.		
	(i) <u>Other fixed-charge obligations including</u>		
	<u>Act and Construction regulations</u>		
	- Provision for fulfilling the OH&S Functions		
	- Provision for the Preparation of a Hazard		
	Assessment (HIRA) CR 7 (1)	Sum	R 10 000,00
	- Provision for the Development of a Documented		
	- Method Statements and/or Safe Work		
	- Provision for the Preparation of a Project		
	- Provision for Emergency Preparedness &		
	Response Plan		
	- Provision for Personal Protective Equipment & Protective Clothing	Sum	R 700,00
	TOTAL CARRIED TO SUMMARY		

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ITEM NO.	DESCRIPTION	UNIT	RATE
TOTAL CARRIED BROUGHT FORWARD			
	(a) Value Related obligations	Lump Sum	R 50 000,00
	(b) Time-related obligations	Months	R 20 000,00
TOTAL CARRIED TO FORWARD			

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ITEM NO.	DESCRIPTION	UNIT	RATE
SSPS 14.08	<p>1400 : HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S PERSONNEL</p> <p>Services: The provision of water, electricity, sewerage, septic tanks, sewage and rubbish</p> <p>(a) Services at office and laboratories</p> <p>(i) Fixed costs</p> <p>(ii) Running costs</p>	Lump Sum Months	R 15 000,00 R 1 000,00
TOTAL CARRIED TO SUMMARY			

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ITEM NO.	DESCRIPTION	UNIT	RATE
SSPS	1500 ACCOMMODATION OF TRAFFIC		
B15.01	Accommodation of traffic and maintaining temporary deviations Temporary traffic control facilities	km	11 500,00
B15.02	(a) Flagmen (including equipment)		
	(b) Portable STOP and GO-RY signs	man-day	220,00
	(c) Amber flicker lights	No.	880,00
	(d) Road signs, R- and TR-series, (1200 mm)	No.	880,00
	(e) Road signs, TW-series, (1200 mm)	No.	880,00
	(f) Delineators (TW401.TW402)	No.	890,00
	(i) Single sided blade (200mm x 800mm)	No.	275,00
	(ii) Double sided blade (200mm x 800mm)	No.	450,00
	(g) Moveable barricade/road sign combination TW 411 (2400mm x 400mm)	No.	750,00
B15.03	Provisions of other signs or facilities <u>Relocation of traffic control facilities</u>	L. Sum	5 000,00
B15.04	<u>including signs Watering of temporary deviations</u>	L. Sum	28 500,00
B15.05	Extra over item 15.01 for accommodation of traffic where road is constructed in half widths or full widths with one way traffic accommodation	L. Sum	1 500,00
B15.06	Traffic Safety	Months	5 000,00
TOTAL CARRIED TO SUMMARY			

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ITEM NO.	DESCRIPTION	UNIT	RATE	
SSPS	1700 CLEARING & GRUBBING			
B17.01	Clearing and grubbing	ha	R	15 800,00
17.02	Removal and grubbing of large trees and tree stumps: (a) Girth exceeding 1m up to and including 2m	No	R	800,00
17.04	Clearing and grubbing at inlets and outlets of hydraulic structures	m ²	R	15,00
B17.05	Clearing of hydraulic structures			
	(a) Pipes with an internal diameter up to and including 900mm	m ³	R	100,00
	(c) Box culverts up to and including 1.5 m vertical	m ³	R	120,00
	(d) Box culverts exceeding 1.5 m vertical	m ³	R	170,00
B17.07	Mechanical cleaning of hydraulic structures, pipes and portal culverts	hr	R	120,00
B17.08	Removal of undesired vegetation	m ²	R	20,00
B17.09	Shredding of vegetation cuttings in situ	m ³	R	35,00
17/120.02	Overhaul on material hauled in excess of 1.0km (ordinary overhaul)	m ³ -km	R	25,00
B17.10	Clearing and grubbing narrow strips	m ²	R	35,00
TOTAL CARRIED FORWARD				

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ITEM NO.	DESCRIPTION	UNIT	RATE
SSPS	1900 DAYWORKS (PROVISIONAL)		
B19.01	Personnel during normal working hours		
	(a) Unskilled	hr	R 55,00
	(b) Semi-skilled	hr	R 75,00
	(c) Skilled	hr	R 120,00
	(d) Ganger	hr	R 130,00
	(e) Flagmen	hr	R 80,00
B19.02	Plant		
	(a) Flat bed truck (7t)	hr	R 500,00
	(b) Tipper Trucks - 10m³	hr	R 450,00
	(c) Tipper Trucks - 12m³	hr	R 500,00
	(d) Dumper Trucks - 10m³	hr	R 450,00
	(e) Tipper Trucks - 15m³	hr	R 800,00
	(f) Loader (2.5 ton) 950	hr	R 230,00
	(g) TLB (digger loader)	hr	R 500,00
	(h) Excavator (20 ton)	hr	R 1 200,00
	(i) Excavator (25 ton)	hr	R 1 300,00
	(j) Excavator (30 ton)	hr	R 1 400,00
	(k) Excavator (Hummer only) HB1700	hr	R 1 500,00
	(l) Grader (AT 140 G or similar)	hr	R 750,00
	(m) Roller (Smooth 12 ton)	hr	R 500,00
	(n) Roller pneumatic	hr	R 400,00
	(o) Roller Tow Tractor and Grid	hr	R 600,00
	(p) Roller (pad foot 12 ton)	hr	R 600,00
	(q) Water truck (11000 l)	hr	R 500,00
	(r) Water truck (12000 l - 14000 l)	hr	R 600,00
	(s) Water truck (15000 l - 18000 l)	hr	R 700,00
	(t) Jumping Jack	hr	R 126,50
	(u) Dozer (D7 or similar)	hr	R 1 300,00
	(v) Concrete Mixer 400L	hr	R 35,00
	(w) Steel Drum Hand held Roller	hr	R 500,00
	(x) Sit On 1.5 ton	hr	R 450,00
	(y) Mobile Crusher 600 X 900	hr	R 2 800,00
	(z) 1000 Milling Machine (Skidsteer incl broom, forklift & bucket)	hr	R 800,00
	(aa) Crane Truck 8 ton	hr	R 1 000,00
	(ab) Roll back Truck 8 ton	hr	R 1 200,00
	(ac) Suitable truck/but for transporting labourers	km	R 15,00
	(ad) Safety vehicle for pre-marking purposes	hr	R 330,00
	(ae) Compressor (air) including hose and tools (specify)	hr	R 320,00
	(af) Dewatering pump including generators and	hr	R 300,00
	(ag) Mobile electric welding sets and accessories	hr	R 231,00
	(ah) Cutting torch with mobile electric & oxy acetylene	hr	R 500,00
	(ai) Mobile concrete mixers (specify size) 400kl capacity	hr	R 1 000,00
	(aj) Light delivery vehicle (LDV)	km	R 7,50
	(ak) Centre-mount crane (specify size)	hr	R 20 000,00
	(al) Low bed truck (35t)	km	R 130,00
	(w) Other Specify	hr	
	TOTAL CARRIED TO SUMMARY		

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ITEM NO.	DESCRIPTION	UNIT	RATE	
TOTAL CARRIED BROUGHT FORWARD				
SSPS	2100: DRAINS			
B21.01	Excavate for open drains			
	(a) Excavating soft material situated within the following	m ³	R	120,00
	(i) 0m up to 1.5m			
	(ii) Exceeding 1.5m and up to 3m	m ³	R	200,00
B21.02	Clearing and Shaping existing open drains	m ³	R	125,00
21.05	Banks and dykes	m ³	R	300,00
21.15	Overhaul for material hauled in excess of 1,0km free-haul (normal overhaul)	m ³ -km	R	13,00
21.12	Backfilling existing eroded side drains	m ³	R	50,00
B21.18	Clearing concrete drainage channels	m ²	R	75,00
	(a) Side drains, median drains and the like			
	(c) Other drains and channels within the following invert	m ²	R	65,00
	(i) less than 1.0m	m ²	R	85,00
	(ii) 1.0m to 2.0m			
21.19	Selected backfill material under concrete-lined side drains compacted to 93% of modified AASHTO;	m ³	R	250,00
B21.20	Clearing and shaping side and mitre drains by grader	m	R	70,00
B21.03	Excavation in all material for subsurface drains	m ³	R	25,00
	(i) 0 m up to 1.5m	m ³	R	65,00
B21.04	Impermeable backfill to subsoil drainage system;	m ³	R	115,50
B21.20	Natural permeable backfill (19mm Crushed stone) from approval sources on site	m ³	R	379,00
B21.07	Coarse sand from approved sources on site	m	R	150,00
B21.08	(i) Perforated pitch fibre pipe (110mm)	m	R	200,00
	(ii) Non perforated pitch fibre pipe (110mm)			
B21.10	Grade 2 Geotextile	m ²	R	50,00

ITEM NO.	DESCRIPTION	UNIT	RATE
SSPS	2200 PREFABRICATED CULVERTS		
22.01	Excavation		
	(a) Excavating soft material situated within the following		
	(i) 0m up to 1.5m	m ³	R 120,00
	(ii) Exceeding 1.5m up to 3m	m ³	R 140,00
	(b) Extra over sub item 22.01	m ³	R 250,00
	(a) for excavating in hard material, irrespective of depth	m ³	R 220,00
22.02	Backfilling:		
	(a) Using the excavated material	m ³	R 90,00
	(b) Using imported selected material	m ³	R 120,00
	(c) Extra over sub item 22.02(a) and (b) for soil cement backfilling	m ³	R 350,00
22.03	Concrete pipe culverts:		
	(c) On class B bedding		
	(i) 600mm dia class 100D	m	R 1 200,00
	(ii) 900mm dia class 100D	m	R 1 500,00
	(iii) 750mm x 750mm box culvert Class 100D	m	R 1 750,00
22.07	Cast in-situ concrete and formwork		
	(a) In Class A bedding, screeds and encasing of pipes,	m ³	R 3 100,00
	(c) Inlet & outlet structures, skewed ends, catchpits, surface finish (concrete class 25/19)	m ³	R 3 500,00
	(d) Formwork of concrete under sub item 22.07(c) above	m ²	R 530,00
22.08	Concrete Backfill for Culverts	m ³	R 3 000,00
22.10	Steel reinforcement		
	(a) Welded steel fabric (Ref 888)	m ²	R 30,00
	(b) Welded steel fabric (Ref 617)	m ²	R 45,00
	(c) Welded steel fabric (Ref 395)	m ²	R 120,00
	(d) Y16 Dowels	No	R 40,00
	(e) High Tensile steel	t	R 22 000,00
22.13	Removing and disposing of existing pipe culverts (600 up to 1200mm)	m	R 15,00
22.25	Overhaul on excavated materials as described, in excess of free haul distance of 1km	m ³ - km	R 12,00
22.22	Hand excavation to determine the position of existing services	m ³	R 250,00
22.100	Precast Concrete Headwalls - Supply and Install complete, to manufacturer's specifications		
	(i) 600 mm dia	No	R 1 100,00
	(ii) 900 mm dia	No	R 1 400,00
	Access and drainage		
	(a) Amount to deal with water during construction of bridge and access, including re-routing of water and temporary damming	Lump sum	R 1 500,00
	TOTAL CARRIED TO SUMMARY		

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ITEM NO.	DESCRIPTION	UNIT	RATE
SSPS	3100 BORROW MATERIALS		
31.01	Excess overburden (provisional)	m ³	R 230,00
31.03	Rehabilitation of existing borrow pits in terms if EMPr		
	(a) Hard material	ha	R 35 000,00
	(b) Intermediate material	ha	R 20 000,00
	(c) Soft material	ha	R 15 000,00
31,04	Fencing of borrow pits	L.Sum	R 75 000,00
31,05	Rehabilitation of existing borrow pits as per EMPr	Prov Sum	R 12 000,00
	TOTAL CARRIED TO SUMMARY		

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ITEM NO.	DESCRIPTION	UNIT	RATE
SSPS	<p>3200 SELECTIONS, STOCKPILING AND BREAKING-DOWN THE MATERIAL FROM BORROW PITS, CUTTINGS AND EXISTING PAVEMENT LAYERS, AND PLACING AND COMPACTING THE GRAVEL LAYERS</p>		
32.01	Provision of crushing and/or screening plant: (a) Single stage crusher	No	R 80 000,00
32.02	Re-erecting the crusher and/or screening plant: (a) Single stage crusher	No	R 100,00
32.03	Crushing and screening:	m ³	R 35,00
32.05	Single stage crusher Additional normal grid rolling	m ³	R 15,00
32.02	Stockpiling of material	m ³	R 10,00
TOTAL CARRIED TO SUMMARY			

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ITEM NO.	DESCRIPTION	UNIT	RATE
SSPS	3300 MASS EARTHWORKS		
33.01	Cut & borrow to fill, including free-haul up to 0.5km: (a) Material in compacted layer thickness of 200mm and less: (ii) Compacted to 93% Mod AASHTO	m ³	220
33.03	Extra over item 33.01 for excavating and breaking down material in: (a) Intermediate excavation	m ³	250
33.04	(b) Hard Excavation	m ³	350
	Cut to spoil, including free-haul up to 1.0km. Material obtained from:		
	(a) Soft excavation	m ³	100
	(b) Intermediate excavation	m ³	250
	(c) Hard excavation	m ³	350
33.08	Widening of Cuts (extra over item 33.01, 33.02 and 33.03)	m ³	350
33.12	(a) In hard materials In situ treatment of roadbed	m ³	45
33/16.02	(b) insitu treatment by ripping Overhaul on material hauled in excess of 1,0km (ordinary overhaul)	m ³ -km	15
TOTAL CARRIED TO SUMMARY			

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ITEM NO.	DESCRIPTION	UNIT	RATE
SSPS	3400 PAVEMENT LAYERS OF GRAVEL MATERIAL		
B34.01	Pavement layers constructed from gravel taken from cut or borrow including free haul up to 1.0km		
	(a) Gravel Subbase layer compacted to: (i) 93% modified AASHTO density (150mm)	m ³	R 250,00
	(b) Gravel wearing course compacted to (ii) 95% Mod AASHTO density: 200mm layer thickness	m ³	R 280,00
34.07	Extra over for temporarily blading the material to windrow	m ³	R 30,00
B34.14	Wet blading (a) 7m road width (riding surface)	km	R 6 000,00
B34.15	Dry blading (a) 7m road width (riding surface)	km	R 5 000,00
B34.18	Reshaping (a) 7m road width (riding surface)	km	R 40 000,00
B34.19	Heavy maintenance (a) 7m road width (riding surface)	km	R 20 000,00
B34.20	Gravel patching	m ³	R 600,00
B34.21	Light roadbed preparation (c) 6m road width (riding surface)	km	R 10 000,00
B34.22	Heavy roadbed preparation (c) 6m road width (riding surface)	km	R 15 000,00
B34/33.03	Extra over Items 34.01 (h) (ii) for excavation in (a) Intermediate excavation (b) Hard excavation	m ³ m ³	R 250,00 R 350,00
34/120.02	Overhaul on material hauled in excess of 1,0km (ordinary overhaul)	m ³ -km	R 120,00
TOTAL CARRIED TO SUMMARY			

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ITEM NO.	DESCRIPTION	UNIT	RATE
SSPS	3500 STABILIZATION		
35.01	Chemical Stabilization of 150mm Thick subbase (wearing course)	m ³	R 200,00
35.02	Chemical Stabilising Agent		
	(a) Ordinary Portland Cement	t	R 2 500,00
TOTAL CARRIED TO SUMMARY			

ITEM NO.	DESCRIPTION	UNIT	RATE
SSPS	5100 PITCHING, STONWORK AND PROTECTION AGAINST EROSION		
51.01	Stone pitching (b) Grouted stone pitching	m ²	280
TOTAL CARRIED TO SUMMARY			

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ITEM NO.	DESCRIPTION	UNIT	RATE
SSPS	5200 GABIONS		
	Foundation trench excavation and backfilling:		
52.01	(b) In all other classes of materials	m ³	R 220
	Surface preparation for bedding the gabions Gabions		R 50
52.02	(a) 1,0m wide by 1,0m wide (i) by 2,0m long mesh 80mm	m ²	
52.03	(c) Galvanised gabion mattresses (i) 0,20m diaphragm spacing, 5,0m long by 2,0m wide by 0,3m deep mesh 80mm	m ³	R 1650
	Filter fabric	m ³	R 1500
52.04	(a) Bidim U14 or similar approved	m ²	R 65
B52.05	Dismantle and remove gabion structures	m ³	R 300
TOTAL CARRIED TO SUMMARY			

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ITEM NO.	DESCRIPTION	UNIT	RATE
SSPS	5400 GUARDRAILS		
54.01	Guardrails on timber posts: (a) Galvanised	m	R 950.00
54.03	Extra over 54.01 for horizontally curved guardrails factory bent to a radius less than 45m. End treatments:	m	R 180.00
54.04	(d) End treatments in accordance with the drawings where single guardrail sections are used	No	R 7000.00
54.05	Additional guardrail posts: (a) Timber	No	R 300.00
54.06	Reflective Plates	No	R 35.00
54.15	Adjusting spacer blocks and tightening bolts	No	R 10.00
B54.16	Remove existing guardrails and replace	m	R 150.00
TOTAL CARRIED TO SUMMARY			

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ITEM NO.	DESCRIPTION	UNIT	RATE
SSPS	5600 ROAD SIGNS		
56.01	Road sign boards complete with supports with Class 1 retro-reflective background. Symbols and lettering in semi matt black. Boarders in Class 1 retro-reflective material, where the signboard is constructed from: (c) Pre-painted galvanised steel plate (1.2mm chromadek or approved equivalent) <u>(i) 900mm diameter Round or Stop signs:</u> R 1 R 201 (40) <u>(iii) 900mm Triangular Combination signs</u> WCE. 2 (W208 + for 5km) <u>(iv) 150mm x 600mm Hazard Marker Signs</u> W401 W402 <u>(v) 450mm x 450mm Hazard Marker Signs</u> W405 W4020	No. No. No. No. No. No.	R 800,00 R 750,00 R 200,00 R 204,00 R 350,00
56.03	Road Sign Supports (a) Steel tubing (b) Timber (treated 85mm - 100mm diameter)	t m	R 80,00
56.05	Excavating and backfilling for road signs supports	m ³	R 75,00
56.06	Extra over item 56.05 for cement-treated backfilling	m ³	R 130,00
TOTAL CARRIED TO SUMMARY			

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ITEM NO.	DESCRIPTION	UNIT	RATE
<p>SSPS</p> <p>59.01</p>	<p>5900 FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS</p> <p>Finishing road and road reserve</p> <p>(a) Single carriageway road</p>	<p>km</p>	<p>R 3 000,00</p>
<p>TOTAL CARRIED TO SUMMARY</p>			

ITEM NO.	DESCRIPTION	UNIT	RATE
SSPS	8100: TESTING WORKMANSHIP AND MATERIALS		
81.02	Other special tests requested by the Engineer	Prov Sum	R 10 000,00
TOTAL CARRIED TO SUMMARY			

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ITEM NO.	DESCRIPTION	UNIT	RATE
11000 TRAINING			
B110.01	Provision for Civil Engineering trainee	Prov Sum	R 50 000,0
	(a) Handling costs and charges for the Contractor on item B110.01	%	10%
B110.02	CETA Accredited training courses for personnel	Prov Sum	R 50 000,0
	(a) Handling costs and charges for the Contractor on Item B110.02	%	10%
B110.03	Limited Technical Training – Government Technical Employees	Prov Sum	R 50 000,0
	(a) Handling costs and charges for the Contractor on Item B110.03	%	10%
TOTAL CARRIED TO SUMMARY			

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ITEM NO.	DESCRIPTION	UNIT	RATE
B111.01	11100 HIV / AIDS AWARENESS Awareness Champion (a) Handling costs and charges for the Contractor on Item B111.01 Awareness Champion		
TOTAL CARRIED TO SUMMARY			

SUMMARY OF THE SCHEDULE OF QUANTITIES.	
SECTION	DESCRIPTION
1200	GENERAL REQUIREMENTS AND PROVISIONS
1300	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS
1400	HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S PERSONNEL
1500	ACCOMMODATION OF TRAFFIC
1700	CLEARING & GRUBBING
1900	DAYWORKS (PROVISIONAL)
2100	DRAINS
2200	PREFABRICATED CULVERTS
3100	BORROW MATERIALS
3200	SELECTIONS, STOCKPILING & BREAKING-DOWN THE MATERIAL FROM BORROW PITS, CUTTING & EXISTING PAVEMENT LAYERS, AND PLACING & COMPACTING THE GRAVEL LAYERS
3300	MASS EARTHWORKS
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL
3500	STABILIZATION
5100	PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION
5200	GABIONS
5400	GUARDRAILS
5600	ROADSIGNS
5900	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS
8100	TESTING WORKMANSHIP AND MATERIALS
11000	TRAINING
11100	HIV/AIDS AWARENESS
SUB TOTAL	
ADD CONTINGENCIES AT 10%	
SUB TOTAL	
VALUE ADDED TAX (15%)	
TENDER SUM CARRIED TO FORM OF TENDER	

SIGNATURE OF TENDERER:

ON BEHALF OF:

DATE:

PROVINCE OF THE EASTERN CAPE

DEPARTMENT OF TRANSPORT

TENDER NO. SCMU10-24/25-0008 A-F

APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND MAINTENANCE OF GRAVEL ROADS IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36] MONTHS

CONTRACT PART 3 (OF 4): SCOPE OF WORKS		
	ITEM	PAGE
C3.1	Description Of The Works	C3.3
C3.2	Engineering	C3.7
C3.3	Procurement	C3.8
C3.4	Construction	C3.9
C3.5	Management	C3.118

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APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND MAINTENANCE OF GRAVEL ROADS IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36] MONTHS

C3.1: DESCRIPTION OF THE WORKS

C3.1.1 EMPLOYER'S OBJECTIVES

The employer's objectives are to provide the full spectrum of routine maintenance activities to all the provincial roads located within, and in certain circumstances, extending beyond the Local Municipal boundary.

A major objective of the targeted procurement procedure is to extend economic opportunities and entrepreneurial capacity to all localities by the optimum utilisation of the resources existing in the vicinity of projects, the development of these resources in the execution of the project, and by maximising the amount of project funds retained within the project locality.

A further objective is to ensure that the S'hamba Sonke, Integrated Contractor Development Programme (ICDP) and Provincial Roads Maintenance Grant (PRMG) requirements and principles, which are applicable, are to be adhered to in the implementation of the project.

C3.1.2 OVERVIEW OF THE WORKS (SCOPE)

The routine road maintenance / construction activities will ensure that provincial gravel and surfaced roads, as well as road reserves within, and in certain circumstances, extending beyond the Local Municipal Areas, are maintained to a level of serviceability as set out in the document.

The contract will be for **36 MONTHS** and the works will consist of routine and periodic road maintenance tasks on the Provincial Road Network within, and in certain circumstances and with written approval from the client, extending beyond the Local Municipal Areas.

C3.1.3 EXTENT OF THE WORKS

The Scope of the Works entails the routine maintenance of gravel roads in the six districts of the Eastern Cape.

Plant required for the project

- Graders (Minimum required is 1)
- Water Trucks 11000 – 18000litres (Minimum required is 2)
- Dozers (Minimum required is 1)
- Loaders (Minimum required is 1)
- Excavators (Minimum required is 1)
- Tipper Trucks(10 cubic meters) (Minimum required is 6)
- Self-propelled roller 12-20 ton – Smooth, Pad foot drum (Minimum required 2)
- Tractor Loading Backhoe (TLB) (Minimum required is 1)
- Motorized Graders (2 required)

Additional plant as detailed in the dayworks may be required to be supplied by the bidder.

C3.1.3.1 GENERAL

- Establishment of camps on site
- Accommodation of traffic

C3.1.3.2 ROUTINE MAINTENANCE OF GRAVEL ROADS

- Wet grading
- Dry grading
- Special grading
- Accessibility grading
- Reshaping
- Heavy maintenance
- Gravel patching
- Regravelling / gravelling short lengths

C3.1.3.4 DRAINAGE MAINTENANCE

- Culvert cleaning
- Culvert repair
- Side drain grading
- Open drain cleaning
- Open drain repair
- Culvert installation

C3.1.3.5 MAINTENANCE OF STRUCTURES

- Minor structure repair / maintenance – cleaning of water ways

C3.1.3.6 MAINTENANCE OF TRAFFIC SIGNS AND ROADSIDE FURNITURE

- Road sign installation, repair and cleaning
- Road sign erection
- Guardrail installation and repair
- Kilometre marker installation / repair

C3.1.3.7 MAINTENANCE OF ROADSIDE RESERVE

- Grass cutting by hand
- Vegetation control
- Fencing repair
- Erosion control – gabions
- Erosion control – stone pitching

C3.1.4 LOCATION OF THE WORKS

The sites comprise of proclaimed provincial gravel roads in the six districts of the Eastern Cape.

The term "Site" as defined in the General Conditions of Contract 2015, will comprise the full road reserves as listed above. The "Site" will also include land not provided by the Employer where equipment and/or materials for use in the permanent works of the contract can be stored and/or stockpiled with the provision that the land selected for this purpose be approved by the Engineer. The Contractor must make his own arrangements for the use of such land and must obtain written approval from the owner(s) concerned.

C3.1.5 TEMPORARY WORKS

C3.1.5.1 SPECIAL WATER HAZARDS CONTROL

It should be noted that certain areas of the Works are low lying and due to blocked and inadequate stormwater control structures, these areas are prone to flooding and ponding during and subsequent to rainy periods.

Therefore, roadworks and trenching /open excavations may also be delayed due to ponding of water and the Contractor will have to allow for various methods of removing ponding stormwater and other de-watering methods to enable a minimum of delay to occur.

C3.1.5.2 OTHER SERVICES (TELKOM, ELECTRICITY, ETC)

Items have been allowed in the Bill of Quantities for dealing with and protecting existing services where they are known.

The Contractor will, however, ensure that prior to construction all the necessary Record Drawings and Wayleaves for all services have been obtained and verified on site by the relevant Service Providers in his presence. The Contractor must request in writing the relevant Official to indicate the said services at least 48 hours prior to commencement of work, after which the responsibility rests with the Service Department if the services are not indicated to the Contractor as requested.

The Contractor shall take whatever extra precautions are required to protect all existing services from damage during the period of the Contract. Any damage to existing services indicated by the relevant service providers or other damage as a result thereof, shall be for the Contractor's account.

C3.1.5.3 SURVEY BEACONS AND BENCHMARKS

The Contractor shall be responsible for the preservation of all land survey, erf or other pegs, benchmarks, and beacons. If damage or disturbance of any such pegs or beacons is caused by the operations of the Contractor or his subcontractors, the pegs are to be replaced by a Registered Land Surveyor at the cost of the Contractor. Benchmarks will be replaced by the Engineer at the Contractor's expense.

Information regarding the position of all such pegs will be made available to the Contractor by the Engineer on request.

The Contractor is to ensure that no spoil is placed over an erf peg or benchmarks and that these are adequately protected for the full duration of the Contract.

Where disturbances of boundary pegs is unavoidable due to excavation or other operations adjacent to the pegs, the Contractor shall advise the Engineer or his Representative immediately, and agreement is to be reached that the disturbance of the peg is unavoidable and a strict record of such disturbed pegs is to be kept. Such pegs are to be replaced by a Registered Land Surveyor as described above and the Contractor is to submit proof of the cost of replacement of pegs. The Contractor will be reimbursed on a basis pro-rata to the total cost of peg replacement determined on completion of the Works.

C3.1.5.4 TIDYING UP OF THE WORKS

The Contractor shall take note that progressive and systematic finishing and tidying will form an essential part of this contract. On no account shall spoil, rubble, materials, equipment or unfinished operations be allowed to accumulate in such a manner as to unnecessarily be a hindrance to or impede the activities of other contractors or service providers or public. In the event of this occurring, the Employer shall have the right to withhold payment for as long as may be necessary in respect of the relevant works in the area(s) concerned. In this regard, the Contractor's attention is drawn to NEMWA.

Upon completion of the Works or any portion thereof, the ground, fences, gates and any structures that have been interfered with are to be carefully restored to their original condition and all rubbish, tools, tackle, plant and material must be removed to leave the Site in a clean and orderly condition. No additional payment shall be made for work set out above.

C3.1.5.5 EMPLOYMENT OF LOCAL LABOUR

The Contractor shall be required to create employment (min of 5% of works value) for the duration of the contract period.

The employment of the above local labour is over and above the local labour which may be employed by the Micro Enterprises.

A "local labourer" is defined as a person whose domicilium citandi et executandi shall be in the Local Municipal Area in which the project is based.

PROVINCE OF THE EASTERN CAPE

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ROADS IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36] MONTHS**

C3.2 : ENGINEERING

C3.2.1 DESIGN SERVICES AND ACTIVITY MATRIX**Works designed by, per design stage:**

Concept, feasibility and overall process	Employer
Basic engineering and detail layout to tender stage	Employer, may be via agent
Final design to approved for construction stage	Employer, may be via an agent
Temporary works of Contractor	Contractor
Preparation of as-built drawings	Contractor

C3.2.2 DRAWINGS AND DOCUMENTS

The drawings listed below are attached to give an overview of the project.

Additional construction drawings will, in terms of Clause 5.9.1 of the General Conditions of Contract (2015), be issued to the Contractor by the Engineer/Employer on the commencement date and from time to time as required.

The reduced drawings that form part of the tender documents shall be used for tender purposes only. The Contractor will be supplied with 3 sets of unreduced paper prints of each drawing free of charge. Any additional prints will be for the account of the Contractor.

Only figured dimensions shall be used and drawings shall not be scaled unless so instructed by the Engineer. The Engineer shall supply all figured dimensions omitted from the drawings.

Drawing No	Title	
Volume 1	General Conditions of Contract (2015)	To be obtained by Contractor
Volume 2	The Standard Specifications for Road and Bridge Works for State Road Authorities (COLTO 1998 Edition)	To be obtained by Contractor
Volume 3	This Volume	
Volume 4	Set of drawings issued with Volume 3 for tender purposes (may be bound in at the back of Volume 3 or issued as a separate volume)	
1078-T- 01	Locality Plan	Included in Volume 3
Volume 5	The Routine Road Maintenance Procedures Manual as issued by the Department Roads and Transport of the Eastern Cape (Version 1, February 2002)	Included on CD to be supplied by the Engineer
Volume 6	Regravelling and Road Betterment Procedures Manual (Version: 3-Feb 2005)	Included on CD to be supplied by the Engineer
Volume 7	Book of Standard Drawings as issued by the Department of Transport of the Eastern Cape (dated 08/08/2001)	Included on CD to be supplied by the Engineer

C3.2.3 DESIGN PROCEDURES

The Contractor is responsible for the design of all temporary works required for the construction of the permanent works. This includes, inter alia, temporary access roads, trench shoring, dewatering and temporary support systems.

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C3.3 : PROCUREMENT

C3.3.1 PREFERENTIAL PROCUREMENT PROCEDURES

C3.3.1.1 Resources standards

Refer to the Tender Data in Part T1

C3.3.1.2 Requirements

Refer to the Returnable Documents in Part T2

C3.3.2 UTILIZATION OF MEs

The Employer has committed itself to the utilization of MEs in road maintenance.

The vision is that the Main Contractor subcontracts a minimum of **30%** of the Contract Value to MEs based in the Local Municipal Area.

The Professional Team, made up of a representative of the Employer, Engineer and Contractor, shall prepare subcontract documents and request for RFQ's in the first three months of the contract period.

C3.3.2.1 PENALTY CALCULATION

Use of Local Labour

Should the contractor fail to meet the minimum requirement of creating a minimum of thirty (30) employment opportunities on site for the duration of the contract, a penalty of 1,5 * the value of the amount of employment that was not created, calculated at R180.00 per day per person, will be calculated and imposed. This amount will be deducted from the Contractor's payment certificate.

The Contractor is to indicate to the Client via a report certified by their auditors indicating the payments made to Local Labour and ME's.

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C3.4 : CONSTRUCTION

C3.4.1 WORKS SPECIFICATION

C3.4.1.1 Applicable Standards

The Standard Specifications for Road and Bridge Works for State Road Authorities (1998 Edition) as prepared by the Committee of Land Transport Officials (COLTO) are applicable to this Contract. It shall however be noted that reference is made in certain of the specifications to other standardised specifications which may or may not be included in this document. Where such specifications are not included, they shall however be deemed to be included in the Contract documents.

The Contractor shall have available for reference on site at all times a full set of the above specifications, together with any other to which they refer. These specifications shall remain the property of the Contractor but shall be made available to the Engineer whenever required throughout the duration of the Contract.

In addition the following Particular Specifications that are bound into this document will also apply:

- Section 1800 : Collection & Removal of Debris & Litter
- Section 1900 : Dayworks (provisional)
- Section 9100 : Controlling Vegetation Growth –Cutting
- Section 11000 : Training
- Section 12000 : Environmental Management Programme implementation
- Section 13000 : Occupation Health & Safety specifications
- Section 14000 : HIV Training for the Construction Industry

C3.4.1.2.1 The term “Project Specifications” appearing in any of the COLTO standardised specifications must be replaced with the terms “scope of work”.

C3.4.1.2.2 The variations and additions to the specifications listed in C3.4.1.2.2 are as follows:

The Standard Specifications for Road and Bridge Works for State Road Authorities 1998, prepared by the Committee of Land Transport Officials, (COLTO), as amended, shall apply to this Contract. The amendments are those issued by COLTO and reproduced below, together with additional amendments as set out herein.

The Routine Road Maintenance and Regravelling, as well as the Road Betterment Procedures Manuals, as issued by the Department of Transport of the Eastern Cape will be referred to as a guideline, for the repair / construction and maintenance activities to be conducted under this Contract.

C3.4.2 SITE FACILITIES

C3.4.2.1 Facilities for the Engineer

Site facilities as specified in the schedule of quantities are required. Site meetings will be held in the Contractor's site office and must make allowance to seat at least 25 people.

C3.4.2.2 Sanitary Facilities

The Contractor shall supply chemical toilets for use by his employees and temporary workers and shall be entirely responsible for maintaining such toilets in a clean and sanitary condition to the satisfaction of the Engineer and the health authorities. The number of toilets shall be based on one toilet per fifteen personnel on site and the Contractor shall make his own arrangements and pay all charges for the removal of sewage.

C3.4.2.3 Contractor's Camp Site

The establishment of all labour, plant and materials on site and all arrangements in this respect is the responsibility of the Contractor.

The Contractor shall provide within his own on-site facilities, a suitably furnished office or other venue capable of comfortably accommodating a minimum of fifteen (15) persons at site meetings. The Engineer shall be allowed free use of such a venue for the conducting of any other meetings concerning the Contract at all reasonable times. The cost of providing the above facility will be viewed to be inclusive of the Contractor's establishment costs.

Before the erection of his camp, office, stores, plant and accommodation units or any facilities, the Contractor shall satisfy the Engineer that he is familiar with and has taken due cognisance of any pertinent local by-laws, availability of services and statutory regulations. The Contractor's attention is specifically drawn to the regulations pertaining to the accommodation of labourers.

C3.4.2.4 Telephone and Communication Facilities

The Contractor shall provide and maintain a continuous means of on-site communication between his site supervision staff (i.e. the people responsible for the day to day running of the Contract) and the staff of the Engineer's Representative.

The Engineer and his Representative will use their own cellular and office telephones for this contract. The provision and use of cellular phones for the Contractor's personnel will be for his own cost.

C3.4.2.5 Accommodation for Employees

The Contractor shall make his own arrangements for the accommodation of his employees. It is the prerogative of the Contractor in planning his works, to either provide the Departmental employees with temporary accommodation and camping allowance per day (or in accordance with the ruling Public Service Act, presently dated 28 December 2011) when working away from their base camp / depot, or either provide transportation on a daily basis to and from the work site. The cost thereof shall be deemed to be included in the rates and amounts tendered for the various items of work.

C3.4.2.6 Security

The Contractor shall be responsible for the security of his own personnel and constructional plant, as well as that of the Departmental employees on and around the site of the works and for the security of his camp and laboratory, and no claims in this regard will be considered by the Employer.

C3.4.2.7 Water, Power Supply and other Services

The Contractor shall make his own arrangements concerning the supply of water, electrical power and all other services for use at the site camps, as well as for all construction and maintenance purposes. No direct payment will be made for the provision of water, electrical power and other services. The cost thereof shall be deemed to be included in the rates and amounts tendered for the various items of work.

C3.4.3 FEATURES REQUIRING SPECIAL ATTENTION

C3.4.3.1 Public Safety

The Contractor shall at all times ensure that his operations do not endanger any member of the public, his own personnel as well as the departmentally seconded personnel. All works are to be carried out in accordance with the approved Occupational Health and Safety Plan.

C3.4.3.2 Adjoining Properties

The sites of the Works are surrounded by private properties. The Contractor shall exercise strict control over his employees to ensure that they do not trespass outside the road reserve or interfere in any way with the adjacent owners, tenants and their properties. In addition, the Contractor shall liaise with the owners regarding all matters that may affect them such as the provision of water and the like.

C3.4.3.3 Construction and Maintenance Activities in Confined Areas

It may be necessary for the Contractor to work within confined areas. Except where provided for in the project specifications, no additional payment will be made for work done in restricted areas.

The Contractor must note that measurement and payment will be in accordance with the specified cross-sections and dimensions only, irrespective of the method used for achieving these cross-sections and dimensions and that the tendered rates and amounts shall include full compensation for all special equipment and construction / maintenance methods and for all difficulties encountered when working in confined areas and narrow widths, and at or around obstructions, and that no extra payment will be made nor will any claim for additional payment be considered in such cases.

STANDARD AMENDMENTS TO THE STANDARD SPECIFICATIONS ISSUED BY COLTO

No amendments have been issued.

**PROJECT SPECIFICATIONS REFERRING TO THE STANDARD SPECIFICATIONS AND
ADDITIONAL SPECIFICATIONS**

In certain clauses the Standard Specifications allow a choice to be specified in the Scope of Works between alternative materials or methods of construction and for additional requirements to be specified to suit a particular contract. Details of such alternatives or additional requirements applicable to this Contract are contained in this part of the Scope of Works. It also contains some additional specifications required for this particular Contract.

The number of each clause and each payment item in this part of the Scope of Works consists of the prefix B followed by a number corresponding to the number of the relevant clause or payment item in the Standard Specifications. The number of a new clause or a new payment item which does not form part of a clause or a payment item in the Standard Specifications and which is included here, is also prefixed by B followed by a new number. The new numbers follow on the last clause or item number used in the relevant Section of the Standard Specifications.

SECTION 1100	DEFINITIONS AND TERMS
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Add the following additional clauses:

“B1156 ACCEPTANCE CONTROL

Acceptance control means whatever testing the Engineer carries out over and above the process control testing already carried out in order to decide on the acceptability of any work submitted by the Contractor. Such testing will be carried out at the cost of the Employer in a laboratory approved by him.

B1157 COMMERCIAL SOURCE

An offsite source of materials chosen by the Contractor will also be viewed as a commercial source. The Contractor shall take full responsibility for the quality of all materials and services supplied from commercial sources.

B1158 PROCESS CONTROL

Process control means all testing required to be carried out by the Contractor on the works in order to ensure that the completed permanent works comply with the specifications and drawings. All such testing will be subject to inspection and approval by the Engineer.”

SECTION 1200:	GENERAL REQUIREMENTS AND PROVISIONS
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B1204 PROGRAMME OF WORK

Insert the following before the first paragraph:

"A network-based programme in accordance with the precedence method shall be provided showing the various activities in such detail as may be required by the Engineer. The programme shall be updated monthly in accordance with the progress made by the Contractor.

Failure to comply with these requirements will entitle the Engineer to apply a programme based on his own assumptions for the purpose of evaluating claims for additional compensation."

B1206 SETTING OUT OF THE WORKS AND PROTECTION OF BEACONS

In second line of first paragraph, replace Clause 14 with 4.1.2, 4.5, 4.15 and 4.15.3 of SANS 1921-1.

B1207 NOTICES, SIGNS AND ADVERTISEMENTS

Replace the second paragraph with the following:

"Five (5) contract name boards shall be erected in each local municipal area and maintained for the duration of the Contract at points to be indicated by the Client or Engineer. Details of the contract name board are provided in the standard drawings, whilst a layout of the identity boards are included with the tender drawings."

Delete the final paragraph and replace with the following:

"All signboards erected in accordance with the drawings or as approved by the Engineer, shall be removed at the same time as the Contractor's de-establishment. Payment under sub-item 13.01 for the final instalment of **15%** of the tendered lump sum shall not be made unless all the advertisements, notices and temporary signs have been removed."

B1209 PAYMENT**(b) Rates to be inclusive**

In the 3rd line, after the word "quantities", insert "together with the payment of VAT as a separate item,"

(f) Materials on Site

In the first line of the first paragraph, delete "Clause 52" and replace with "Clause 6.10.1".

Add the following sub clause:

"(g) Trade names

Where materials are specified under trade names, tenders must be based on those specified materials. Alternative materials may be submitted as alternative tenders and the Engineer may, after receipt of tenders, approve the use of equivalent materials."

B1210 CERTIFICATE OF PRACTICAL COMPLETION OF THE WORKS

Insert the following:

In the fourth line of the first paragraph, delete "Clause 54" and replace with "Clause 5.14".

Add the following paragraph:

"Only a Certificate of Completion will be issued on successful completion of the works."

B1214 CONTRACTOR'S ACTIVITIES IN RESPECT OF PROPERTY OUTSIDE THE ROAD RESERVE AND OF SERVICES MOVED, DAMAGED OR ALTERED

Add the following to the first paragraph of subclause (d)(ii)

"This is also required with respect to fences, gates, camp sites, bypasses and material spoiled on private property."

Add the following after subclause (e)

"These written statements, as required in Clause 1214(b)-(e) shall be handed to the Engineer before the final certificate will be issued."

B1215 EXTENSION OF TIME RESULTING FROM ABNORMAL RAINFALL

Delete the clause and replace with the following:

"The number of rain-related delays is the average number of days on which (10mm) of rain or more has been measured by the weather station at Mthatha over the last (20) years. Other inclement weather delays for which the contractor must make allowance in his programme have been derived from previous experience of wind and temperature influence on similar construction in the area of the site. Actual extensions of time due to inclement weather shall be agreed between the engineer's and contractor's representatives on the site. The agreed whole days or parts thereof shall be recorded at the monthly site meetings. Adjustment to the contract period shall only be made at the end of the contract when the contractor may submit its claim for the agreed extension due as well as any additional payment resulting from the delay. Extension caused by inclement weather delays will only accrue once the agreed cumulative delays exceed 57 days.

If approved extensions of time extend the completion date beyond the start of the contractor's holiday in December, the holiday period shall not be considered as working days. Any remaining extension of time at this date shall be calculated from the first statutory working day in January the following year, provided that the contractor has shown in his programme that he intends to close during the traditional Christmas/New Year break."

B1217 PROTECTION OF THE WORKS AND REQUIREMENTS TO BE MET BEFORE CONSTRUCTION OF NEW WORK ON TOP OF COMPLETED WORK IS COMMENCED

In second line of first paragraph, replace "Clause 35" with "Clause 8.2".

B1229 SABS CEMENT SPECIFICATIONS

Add the following to this subclause:

"Where reference is made in this specification or the Standard Specifications to the cement specifications, e.g. SABS 471: Portland cement and rapid hardening Portland cement, it shall be replaced with the new specification:

SANS 50197-1 "Cement composition, specifications and conformity criteria Part 1: Common cements."

Furthermore, where reference is made in this specification or the standard specification to a different cement type, the following names will apply and the Engineer will confirm the relevant new name from the table overleaf:

Add the following new clauses:

B1230 DAILY RECORDS

The Contractor shall furnish the Engineer daily with records of work executed by him for each activity. The records shall include information such as description, location, measurement, plant and labour hours, where applicable, and all other information the Engineer may require for the record and measurement purposes, in accordance with the reporting forms included in Appendix C attached to this Volume.

No separate payment items will be scheduled for the administrative costs incurred by the Contractor to provide the Engineer with the activity sheets and other information that will be required. These costs will be deemed to be inclusive of the rates tendered for the works.

B1232 COMMUNITY LIASON OFFICER (CLO)

The Community Liaison Officer (CLO) is to be selected by the Project Steering Committee (PSC) / Local Council and the Employer (through his agent) and appointed by the Contractor. The Contractor shall, however, accept the appointment as part of his management personnel.

The duties of the CLO will be:

- To be available on site daily during normal working hours and at other times as the need arises. His normal working day and his period of employment will be mutually agreed upon by the Employer and the Engineer accordingly.
- To determine, in consultation with the Contractor, the needs of the local labour/SMMEs for relevant training if so required.
- To communicate daily with the Contractor and the Engineer to determine the labour/SMME requirements with regard to numbers and skill, to identify possible labour disputes and to assist in their resolution.
- To attend all meetings in which the community and/or labour is present or is required to be represented. In particular, he will attend the first part of the monthly/site meeting to report on the local community involvement.
- To inform local labour of their conditions of temporary employment and to inform local labourers as early as possible when their period of employment will be terminated.
- To attend disciplinary proceedings to ensure that hearings are fair and reasonable.
- To keep a daily written record of his interviews and project liaison conducted.
- All such other duties as agreed upon between all parties concerned.

A payment item has been allowed for in the Bill of Quantities for the payment of the CLO.

B1233 COMMUNITY PARTICIPATION

In order to give effect to the need for the participation and transparency in the process of delivering services, the community should participate in the decision-making process throughout the duration of the project. This shall be achieved through structured engagement between those responsible for the delivery of the project and the community.

A Project Steering Committee (PSC) which will be voluntary organizations shall be formed from representatives of the Roads Forum, the Employer, the Engineer, the Contractor, interested and affected parties. The PSC shall meet at least once every month.

The PSC shall make decisions and recommendations by consensus for the consideration and final approval of the Employer.

The tasks of the PSC will be to:

- Identify problems and opportunities that result from the location, construction and operation of the roads.
- Participate in the prioritization process of the works in the development of the Maintenance Plan which will form the basis of the Construction Programme.
- Keep the community informed of all decisions taken and revisions relating to the Construction Programme.
- Keep the community informed with regards to progress being made on a monthly basis.

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- To assist with community liaison and resolution of non-contractual disputes.
- To devise fair and transparent procedures that will assist the Contractor in the engagement of labour.

B1234 UNSCHEDULED RELOCATION OF MAINTENANCE TEAMS DUE TO UNFORSEEN REASONS

The Engineer may instruct the Contractor to transfer a specific maintenance team or a group of teams, to a new location within the project area which does not comply with the approved programme due to unforeseen reasons. Where the team or teams need to be re-established and moved to a site over a distance exceeding fifty (50) kilometers, the Contractor shall in addition to pay item 1300(a), be compensated, at dayworks rates, for his plant and labour costs to relocate the specified teams accordingly.

These costs are to be agreed to by the Engineer and Employer prior to relocation commencing.

B1235 PROVIDING CONTRACT MANAGEMENT TO THE CONTRACTORS LOCATED WITHIN THE LMA

The Eastern Cape Department of Transport is responsible for the Contractor Maintenance Programme.

The Contractor Maintenance Programme is aimed at poverty alleviation through community located along certain roads as indicated in the Table below, who conduct basic road maintenance functions such as pothole repair and culvert cleaning.

It is the Employer's intention that the provision of Contract Administration, Quality Control, Preparation of Reports and General Management of the programme be conducted by one full time foreman provided by the Main Contractor. The foreman is also required to provide the community contractors with basic training on how to conduct the said maintenance works to Departmental standards.

B1236 PROVISION OF HIRE OF PLANT BY THE CONTRACTOR FOR THE DEPARTMENT FOR EMERGENCY USE OUTSIDE OF THE LMA

This item will allow the Department to occasionally hire specific items of plant through the contractor for emergency use outside of the LMA. No payment will be made unless documented proof of hiring of plant for use by the Department is provided to the Client.

B1237 PROVISION OF HIRE OF OPERATORS BY THE CONTRACTOR FOR THE DEPARTMENT

This item will allow the Department to occasionally hire plant operators through the contractor for use by the Department outside of this project. No payment will be made unless documented proof of hiring of plant operators for use by the Department is provided to the Client.

B1239 MEASUREMENT AND PAYMENT FOR CERTAIN GENERAL ITEMS

Payment will be made under this Section for certain temporary work items as follows:

Item	Unit
B12.01 Community Liaison Officer	
(a) Community Liaison Officer cost	provisional sum
(b) Monthly transport allowance for CLO	provisional sum
(c) Remuneration of PSC representatives from the community to attend contract meetings	provisional sum
(d) Handling costs and charges for Contractor for items (a) (b) and (c)	percentage (%)

A provisional sum is provided for the cost of community liaison, which will include the salary of the Community Liaison Officer for the duration of the Contract. The Community Liaison Officer may possibly not be required on a full-time basis.

Provisional sums are also allowed for the monthly transport allowance for the CLO, as well as for the payment of PSC members for attending contract meetings as scheduled by the Engineer. All the above provisional sums will only be expended as instructed by the Engineer and approved by the Employer.

The percentage tendered for handling costs and charges shall cover all additional costs for the Contractor over and above the sums paid under sub items (a), (b) and (c)."

Item **Unit**

B12.07 Provision of hire of Plant by the Contractor for the Department **Provisional sum**

A provisional sum is provided to cover the cost of occasional hire of appropriate plant by the Contractor for use by the Department in the region/LMA, outside the scope of this contract. The tendered rate shall include full compensation for all labour, equipment, tools and associated administrative costs required to provide the required plant.

Item **Unit**

B12.08 Handling charges on Item B12.07(%)

The percentage tendered for handling costs and charges shall cover all additional costs for the Contractor over and above the sums paid.

Item **Unit**

B12.09 Provision of hire of Operators by the Contractor for the Department Provisional sum

A provisional sum is provided for the cost of occasional hire of suitably qualified plant operators (that comply with all OHS requirements) by the Contractor for use by the Department to operate plant, be it hired plant or departmentally owned plant. The tendered rate shall include full compensation for all labour, equipment, tools and associated administrative costs required to provide the required plant operators.

Item **Unit**

B12.10 Handling charges on Item B12.09(%)

The percentage tendered for handling costs and charges shall cover all additional costs for the Contractor over and above the sums paid.

Item **Unit**

B12.11 Providing Contract Management to Household Contractors within the LMA month

The unit of measurement shall be per month or pro rata of 21 days for which the Foreman provides the function of Contract Administration, Quality Control, Preparation of Reports and General Management of the programme as well as training.

The tendered rate shall include for full compensation for all overheads, one full time foreman, one LDV and any other incidentals that may be required to provide the above service complete.

SECTION 1300 :	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS
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B1303 PAYMENT**B13.01 The Contractor's general obligations**

Add the following:

"References to Clause 49 must be amended to read Clause 6.8.1" "References to Clause 53 must be amended to read Clause 6.11"

Add the following:

The Scope shall also include the requirements of the Occupational Health and Safety specifications and relevant payment items contained in the tender documentation.

Add the following to subclause (i):

"The tendered sum for sub item 13.01(a) also includes full compensation for the complete relocation of the Contractor's camp or temporary road camps from one road or area to another during the course of the contract as per the approved programme.

The Contractor must make allowances for the provision and erection of five (5) contract name boards as per the drawing, in his rate tendered for payment item 13.01(a), Contractor's General Obligations.

Under this payment item he shall also make allowance for the provision of two labourers to assist the Resident Engineer as and when required for checking and measuring the various items of work.

The Contractor will further provide a 15-seater mini-bus for inspecting the works during monthly site meetings (one day per month). This vehicle shall be in a neat and roadworthy condition and the Contractor will be responsible for the insurance of such vehicle. The Contractor will also ensure that this vehicle has the necessary permits required for the transportation of personnel."

Add the following after the fourth paragraph:

"Should the combined total tendered for subitems (a), (b), and (c) exceed 20% of the tender sum (excluding CPA, contingencies and VAT, as per returnable **Form F**), the tenderer shall state his reasons in writing for tendering in this manner."

Add the following at the end of the pay item:

"The amount payable to the Contractor for time related costs arising from extensions of time granted by the Employer, where the Contractor is fairly entitled to such compensation in terms of Clause 5.12 of the General Conditions of Contract, shall be calculated as follows:

- (i) Account shall be taken of all time-related items scheduled in Sections 1200,1300, 1400, 12000, 13000 and 14000.
- (ii) All pay items for which the unit of measurement is "month" shall be deemed to be based upon an average of 22 working days per month.
- (iii) Payment will be made only for items for which the unit of measurement is "month".

Add the following after 13.01 (c) (b):

"Payment for each time-related item will be made monthly in equal amounts until the sum tendered has been paid in full, provided always that the total of the monthly amounts so paid for each item is not more than **in proportion to the progress of the works** as a whole."

eg

$\frac{\text{Net Value of Work Completed} \times \text{Time Related Tendered Costs}}{\text{Net Value of the Contract}}$

SECTION 1400 :	HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL
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B1402 OFFICES AND LABORATORIES

(b) Offices

Air-conditioned site office facilities are required for use by the Engineer for the duration of the contract.

(c) Laboratories

"No on-site laboratories are required. The Contractor may make use of SANAS accredited laboratories for all his process control testing, including Departmental laboratories where available."

SECTION 1500 :	ACCOMMODATION OF TRAFFIC
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B1501 SCOPE

Add the following:

Certain parts of the work to be carried out under this section may be reserved for selected sub-contractors.

"This section also covers the provision of additional information signs for motorists and releasing any notices to the media and public.

It is a condition of this contract that traffic is accommodated taking into account the provisions of the latest edition of the South African Road Traffic Signs Manual (SARTSM). The latest version for use in the accommodation of traffic is Volume 2, Chapter 13 of the June 1999 edition.

Copies of this publication are available from Government Printers attention Anna Steyn Tel. (012) 334- 4500, e-mail: asteyn@print.pwv.gov.za"

B1502 GENERAL REQUIREMENTS**(a) Safety**

Add the following at the end of the second paragraph of this subclause:

"The entire site will be handed over to the Contractor. The Contractor may, however, only occupy such areas on the site in accordance with the approved construction programme or as approved by the Engineer.

The Contractor shall submit a programme for the accommodation of traffic to the Engineer for approval."

Add the following:

"The Contractor shall be responsible for maintaining the existing road surface both within the works area and the advance warning and termination areas in a safe and trafficable condition for the duration of the contract."

a) Approval of temporary deviations

Add the following:

"If, after any temporary deviation has been constructed, any changes which are considered necessary or desirable, the proposal shall be submitted to the Engineer for his approval."

(i) Traffic Safety Officer

Add the following after the second paragraph:

"The Contractor shall submit a CV of the candidate to the Engineer for approval before the Traffic Safety Officer is appointed. The Traffic Safety Officer shall be made available to discuss road safety and traffic accommodation matters whenever required by the Engineer. This Traffic Safety Officer shall not be the same person as the Construction Health and Safety Officer contemplated in Part C of this specification. If a Traffic Safety Officer is found to be incompetent by the Engineer, the Engineer will instruct the Contractor to remove and replace him with a competent person. The Traffic Safety Officer will report to the Construction Health and Safety Officer"

At the end of the subclause add the following:

"The duties of the responsible persons shall include liaison with the relevant traffic authorities and in the event of an accident on the section of road under construction, the Traffic Safety Officer or his assistants shall be responsible for contacting the traffic authority and South African Police Service."

Replace sub-sub-clauses (ii) and (iii) with the following:

“(ii) Record on neat and dimensioned sketches and submit to the Engineer the position and sign reference number where applicable of each sign, barricade, delineator, cone, amber flicker light, guardrail and permanent or temporary painted road marking feature. The position of each of the above-mentioned signs and road marking features shall be adequately referenced to identifiable permanent features located along the site of the works.

These records shall also show the date and time at which the recorded traffic accommodation features are certified correct by the traffic safety officer, and shall be signed by the traffic safety officer before being submitted to the Engineer.

The records shall be amended whenever changes are made in the field and the amended detailed sketches shall be submitted to the Engineer. Such amendments shall record the position(s) of flagmen and stop/go control men and their associated traffic accommodation equipment wherever they are used.

(iii) Personally inspect the position and condition of each traffic accommodation feature on the whole site of works at least twice each day at 9h30 and at 16h30, to record all irregularities discovered and the remedial action taken, and to sign off as correct and submit to the Engineer such record sheets by the middle of the next working day at the latest. The traffic safety officer shall keep a duplicate book for this specific purpose. The provision of daily photographs is advisable.

The traffic safety officer shall also submit the daily labour returns of flagmen, stop/go and traffic signal control men employed, with this report.

Add the following sub-clauses:

“(i) The traffic safety officer shall be equipped with a cellular telephone and shall have a vehicle and sufficient labourers at his disposal 24 hours a day, including special non-working days and shall not be available for other duties. He shall be directly answerable to the Contractor’s site agent.

The traffic safety officer shall have a direct line of communication with the police and traffic officers responsible for the area within the limits of the contract at all times. The provision of the road safety vehicle, driver, sufficient labourers and the cost of the cellular telephone shall be deemed to be included in the tendered rates.”

“(x) Ensure that all obstructions related to the Contractor’s activities be removed before nightfall, where applicable or as instructed by the Engineer and that the roads are safe for night traffic.

(xi) Be responsible for implementing actions requested in writing by the traffic authorities with regard to the work to be carried out and be responsible for the erection and maintenance of all traffic signs necessary for the accommodation of traffic.

(xii) In the event of an accident, the traffic safety officer shall record details of the accident in a written report accompanied by photographs and a neat sketch plan which show identifiable permanent features, relevant dimensions and the position of all temporary road signs, barricades, delineators and other devices used for traffic accommodation. The traffic safety officer is also to record the GPS coordinates of the accident scene. ”

(xiii) Also ensure full compliance with all the requirements of the Occupational Health and Safety Act and Construction Regulations (2014) which may pertain to the accommodation of traffic.

(xiv) Keep the responsible Traffic Police fully informed with regard to any changes in the accommodation of traffic planned by the Contractor due to construction activities.”

Add the following sub-clauses:

(j) Failure to comply with provisions for the accommodation of traffic

Failure or refusal on the part of the Contractor to take the necessary steps to ensure the safety and convenience of the travelling public, accommodation of traffic, and the provision of plant and personnel in accordance with these specifications or as required by statutory authorities or ordered by the Engineer, shall be sufficient cause for the Engineer to apply penalties as follows:

Work related Penalties

A fixed penalty of **R 500** per occurrence shall be deducted for each and every occurrence of non-compliance with any of the requirements of Section 1500 of the Standard Specifications and Section B1500 of the Scope of Works.

In addition a time-related penalty of **R 300** per hour over and above the fixed penalty shall be deducted for non-compliance to rectify any defects in the accommodation of traffic within the allowable time after an instruction to this effect has been given by the Engineer. The Engineer's instruction shall state the allowable time, which shall be the time in hours for reinstatement of the defects. Should the Contractor fail to adhere to this instruction, the time-related penalty shall be applied from the time the instruction was given.

Health and Safety related Penalties

Penalties in respect of Occupational Health and Safety related issues are as per the table in Section 13000 of this document.

(k) Site personnel

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 or near to the travelled way.

Any person found not wearing a reflective jacket under these circumstances shall be removed from the site until such time as he is in possession of and wearing a reflective jacket. Furthermore the above penalties will also be applied. Reflective safety jackets shall be kept in good condition and any jackets that are, in the opinion of the Engineer, ineffective shall be immediately replaced by the Contractor.

(l) Use of the road by the public

The Contractor shall plan and conduct his activities so as to bring about the least possible disruption to the traffic on the roads on which he works. The Contractor shall deal with deliberate courtesy and understanding in any discussions or disputes at all points of contact with the travelling public.

(m) Extension of time for completion

No delays caused by the requirement that public traffic be accommodated during the construction of the works and that traffic flows be maintained as specified will be regarded a reason for an extension of time in terms of the general conditions of contract.

(n) Provision of safety equipment for the Engineer

The Engineer shall be provided with the following traffic safety equipment:

- (i) Amber rotating flashing lights for mobile use which shall be approved by the Engineer.
The Contractor shall provide the Engineer and the Engineer's Representative with amber rotating warning lights. All lights shall be operational whenever the vehicles operate within the road reserve. All lights shall have a minimum height of 200 mm and 50 watt output, be of the revolving reflector type and shall have a magnetic base, flexible cable and a connection suitable for insertion into a 12V automobile cigarette lighter socket.
- (ii) Maintenance sticker
The Contractor shall supply the Engineer and the Engineer's Representative with magnetic "maintenance" stickers. The stickers must read "MAINTENANCE" in 170 mm letters on a yellow retro-reflective background.

(iii) Safety jackets

The Contractor shall provide the Engineer, the Engineer's Representative and visitors with safety jackets for moving around on site. The jackets shall be of an approved type, orange in colour and shall be to the approval of the Engineer. The Contractor is to allow for fifteen jackets.

(iv) Hard hats

The Contractor shall provide the Engineer and visitors with hard hats for moving around on site where they may be required. The Contractor is to allow for fifteen hard hats.

No additional payment will be made for the above items and the costs will be deemed to be inclusive in the establishment costs."

(o) Flagmen

Where required by the Engineer, flagmen shall be provided for the control of traffic at lane closures and road accidents if and when they occur.

Flagmen shall be adequately trained in the standard flagging techniques as described in the South African Road Signs Manual (Volume 2, Chapter 13) on Figure 13.23 (Detail 13.23.1) and be provided with conspicuous clothing such as safety jackets utilising retro-reflective and/or fluorescent panels in red, yellow and / or white.

Flagmen shall have in their possession, at all times, certification that they have attended and passed an accredited course in flagging techniques before being allowed onto the construction site.

Flags shall be made from bright red or red-orange material and shall be square with a minimum side length of 600 mm. The flag shall be attached to a staff at least 1,0 m in length.

Flagmen shall be placed at positions as shown on the drawings or as directed by the Engineer. Such positions shall be a sufficient distance from the work areas to allow vehicles to slow down before entering the work area but not so far away that the drivers tend to increase speed before entering the work areas. The minimum requirement shall be one flagman at the start of each closure.

During the daytime, at least two flagmen shall be provided at each traffic control point in addition to the STOP/GO sign operator, one flagman at the 80 km/h sign and a second roving flagman to indicate to the traffic at the end of the queue to stop.

At night time at least one roving flagman equipped with a Stromberg Lightman xenon strobe, or similar approved, and a torch is required at each traffic control point as well as the traffic light operator. Where the shoulder of the road is closed to traffic, a flagman shall be provided at the leading end of the closure during daytime. This flagman shall be provided at the 80-km/h sign to warn the traffic about the closure. No flagman shall be on duty for a period of more than 10 hours per day. The traffic control site shall be well lighted at night with at least one floodlight positioned so as to illuminate the area and not shine into the oncoming traffic.

In terms of lateral clearance and safety, flagmen shall stand on the shoulder of the lane of traffic that is being controlled and under no circumstances shall flagmen be permitted to stand within the traffic lane. In order to obtain maximum visual impact for the travelling public, flagmen shall stand-alone.

(p) Access to the works

The Contractor's plant and equipment shall not stop on the trafficked carriageway except to unload or load traffic control facilities."

B1503 TEMPORARY TRAFFIC-CONTROL FACILITIES

Replace the first sentence of the first paragraph with the following:

"The Contractor shall provide, erect and maintain the necessary traffic-control devices, road signs, channellisation devices, barricades, warning devices and road markings (hereinafter referred to as traffic-control devices) in accordance with these special provisions and as shown on the drawings and in the SARTSM and remove them when no longer required. It shall be incumbent upon the Contractor to see to it that the abovementioned traffic-control devices are present where required at all times and are functioning properly, and he shall replace any that have been damaged, lost, stolen or obliterated at his own cost."

Delete the last sentence of the second paragraph and substitute the following:

"Traffic-control devices no longer required at the site of a deviation or a lane closure shall be moved for re-use. Traffic-control devices lost or damaged by the Contractor shall be replaced at his own cost."

Replace the third paragraph with the following:

"The type of construction, spacing and placement of traffic-control devices shall be in accordance with the latest edition of the South African Roads Traffic Signs Manual (SARTSM). The recommended arrangements of the traffic control devices illustrated and/or drawings shall not be departed from without prior approval of the Engineer. The arrangements expected to be most commonly used on this contract are shown in the Routine Road Maintenance Procedures Manual of the Department of Transport of the Eastern Province.

The details shown for spacing and placement of traffic-control facilities may however, be revised at the discretion of the Engineer where deemed necessary to accommodate local site geometry and traffic conditions."

(a) Traffic-control devices

Add the following to this Subclause:

"Flagmen shall be provided at all access exit points to the working areas."

Add the following new paragraph:

"The Contractor shall be responsible for the removal of all litter at the traffic control points on a daily basis to an approved dumping site."

(b) Road signs and barricades

Add the following after the second paragraph of this Subclause:

"The Contractor shall be responsible for the protection and maintenance of all signs, and shall at his own cost replace any that have been damaged, or lost, or stolen.

All temporary road signs required to remain in position for some time shall be pole mounted as shown on the drawings. All temporary road signs required to be moved more often shall be mounted on portable supports for the easy moving of signs to temporary positions. The only permitted method of ballasting the sign supports shall consist of durable sandbags filled with sand of adequate mass to prevent signs from being blown over by wind. The cost of the sandbags shall be included in the monthly rate for accommodation of traffic.

Temporary road signs and channelization devices shall be manufactured in accordance with the South African Road Traffic Signs Manual (Volume 2, Chapter 13) of June 1999 and arranged along the road as shown on the drawings and in the Manual.

Add the following paragraphs:

"All road signs shall be new or approved by the Engineer as new in accordance with the specifications. The Contractor shall have available on site sufficient extra road signs, barricades and delineators to replace items that have become defective or missing.

The Contractor shall be responsible for the protection and maintenance of all signs, and shall take all reasonable

measures to ensure minimum damages to signs and other traffic control devices.

The covering of permanent road signs, if applicable, shall be by first utilising a hessian bag, which shall be pulled over the sign in the form of a hood and fastened to the signposts. Plastic bags or other materials fastened by means of adhesive tape shall not be permitted. The cost of covering of permanent road signs shall be included the monthly rate for accommodation of traffic.

All temporary road signs required to remain in position for some time shall be pole mounted as indicated on the drawings. All temporary road signs required to be moved more often shall be mounted on portable supports for the easy moving of signs to temporary positions. The only permitted method of ballasting the portable sign supports shall consist of durable sand bags filled with sand of adequate mass to prevent signs from being blown over by wind.

No work may proceed on any section where accommodation of traffic is required until such time as the relevant requirements with regard to sign posting and other detail shown on the Contractor's drawings are met and approved by the Traffic Safety Officer in writing."

(c) Channelisation devices and barricades

Add the following:

"The start of barricades shall be positioned such that a minimum sight distance of 150m, measured at a height of 1,05m from the road surface, is obtained.

Drums shall not be used as channelization devices.

Delineators shall:

- (i) comply with the manufacturing and reflective requirements of the SARTSM and the blades shall be reversible
- (ii) have smooth and round edges, be mounted on a post and base and all components shall be of durable plastic material;
- (iii) have the lower edge of the reflective part mounted not lower than 250 mm above the road surface;
- (iv) be capable of withstanding the movement of passing vehicles and gusting winds up to 80 km/h in typical working conditions without falling over. To achieve this, the base shall be at least 0,18 m² and ballasted by sandbags filled with sand;
- (v) together with its mounting be designed such that it will collapse in a safe manner under traffic impact and
- (vi) where work is not taking place in a section closed half width to traffic, the delineators shall be moved laterally back to the edge of the work area to provide a wider space for traffic."

No traffic cones are to be utilised."

(e) Warning devices

Add the following:

"All construction vehicles and plant used on the works shall be equipped with rotating amber flashing lights and warning boards as specified. All vehicles and plant, before being allowed onto the site, shall obtain a clearance permit from the Engineer.

Rotating lights shall have an amber lens of minimum height of 200 mm and shall be mounted in such a way as to be highly visible from all directions. The lights on construction vehicles shall not be switched on while vehicles are being operated on unrestricted sections of a public road, but shall be switched on while construction vehicles are operating within the accommodation of traffic area, as the vehicles decelerate to enter a construction area, or as the vehicles accelerate to the general speed when entering the road from a construction area. Lights on plant shall operate continuously while the plant is working alongside sections of road open to public traffic

All LDV's and cars operating on site shall also be equipped with rotating amber flashing lights which shall be placed so as to be highly visible and operated continuously while the vehicles are manoeuvring in or out of traffic or is travelling or parked alongside roads open to public traffic.

Rotating lights and the "Maintenance Vehicle" signs on the Contractor's and Engineer's vehicles and plant shall not be paid for separately.

The Contractor shall apply and maintain lights together with temporary mounting brackets, to the approval of the

Engineer. Vehicles and plant that do not comply with these requirements shall not enter the site.

Add the following sub-clauses:

(g) Other traffic control measures ordered by the Engineer

The Engineer may instruct the Contractor to provide any other road sign, reflective tape, etc. Such road signs shall conform to the requirements of the South African Road Traffic Signs Manual, or specification provided by the Engineer.

Similarly, in order to ensure that the travelling public is kept fully informed and warned on matters relating to the accommodation of traffic, construction sign posting and the effect of the construction on the flow of traffic through the site, the Engineer may arrange for advertising in the press and/or for other forms of publicity.

B1504 WIDTH AND LENGTH OF TEMPORARY DEVIATIONS

Replace "10m" and "5m" in the first paragraph with "3m" and "2m" respectively. Replace the second paragraph with the following:

"Where the existing road is constructed in half widths or in full width with single direction traffic, the roadway width for accommodating one-way traffic shall be at least 3,2 m wide. The length of the half-width construction or full width construction with single direction traffic controlled by STOP and GO/RV signs shall not exceed 2,0 km.

The traffic shall be single direction controlled by STOP and GO/RV signs during daytime and temporary traffic signals at night as agreed by the Engineer."

B1506 EARTHWORKS FOR TEMPORARY DEVIATIONS

Add the following to this Clause:

"Wherever possible and as agreed by the Engineer topsoil shall be stripped off the area required for deviations. The topsoil shall be stockpiled in accordance with the specifications for later re- use to re-instate the deviations."

B1517 MEASUREMENT AND PAYMENT

Delete the contents of this clause and replace with the following:

"Accommodation of traffic will not be paid for separately and any costs associated with it, unless expressly stated and allowed for, must be included in the rates of the various items where accommodation of traffic is required."

SECTION 1600 :	OVERHAUL
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B1602 DEFINITIONS

(d) Free-haul distance

Delete "and cut to spoil" in the last sentence.

SECTION 1700 :	CLEARING AND GRUBBING
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B1702 DESCRIPTION OF THE WORK**(b) Grubbing**

Delete the contents of this Clause and replace with the following.

“ In the road reserve all stumps and roots are to be cut to the following heights above ground level and are to be treated with Garlan 4 with Red Dye :

- 0m to 3m from the edge of roadway : - Flush with the natural ground level
- 3m to 9m from the edge of roadway : - Maximum height of 100mm above the natural ground level

All trees of girth larger than 0,5m will not be measured separately and will be deemed inclusive of the rate.”

B1703 EXECUTION OF WORK**(e) Cleaning out of hydraulic structures**

Replace the contents of this clause with the following:

“Hydraulic structures and culverts shall be cleaned when instructed by the Engineer.

Hydraulic structures and culverts shall be cleaned of all silt and debris such that all surfaces are clearly visible and accessible for inspection.

Material removed shall be disposed of in close proximity of the culverts within the road reserve or loaded and transported to spoil as directed by the Engineer. Material spoiled near the hydraulic structures and culverts shall be spread neatly well clear of the top of drainage trenches where it will not wash back.”

Add the following new clauses:

(f) Removal of undesirable vegetation

The Engineer may require the selective physical eradication of noxious weeds, invader plants and other undesired vegetation within the road reserve by uprooting and by cutting brush with suitable equipment.

For the purpose of this clause, undesirable plant growth shall include, inter alia, the following as set out in Section 29 of CARA by the Minister of Agriculture and published in the Regulation Gazette No. 7032 Vol 429, promulgated on 30 December 2001.

Category 1 Plants

Weeds characterised as Category 1 plants must not occur on any land or inland water surface throughout the Republic, except in areas designated as biological control reserves. The plants as listed below need to be removed by the land user, unless they are in specifically designated areas that have been set aside for biological control.

Lantana, Pompon Weed, Bugweed, Queen of the Night, Pampas Grass, Cat’s Claw Creeper, Red Sesbani, Fountain Grass, Water Hyacinth and Azolla.

Category 2 Plants

These plants are only allowed to be grown in areas specifically demarcated for this purpose. Appropriate steps must be taken to curtail the spread of the plants beyond these areas.

Eucalyptus, Black Wattle, Patula Pine, Cluster Pine, Grey Poplar, Guava, Watercress, Weeping Willow, Port Jackson, Rooikrans and Sisal.

Category 3 Plants

These need to be contained from spreading by removing all new seedlings.

Jacaranda, Syringa, Butterfly Orchid tree, Cotoneaster, Australian Silk Oak, St Joseph's Lilly and New Zealand Christmas Tree.

The eradication of undesirable trees will be paid for under normal payment items scheduled for removal of trees. Additional payment items will be scheduled for the physical eradication of undesired vegetation if they are selectively removed, otherwise it will be catered for under the Clear and Grub payment.

(h) Clearing and grubbing narrow widths

The Engineer may require clearing and grubbing of narrow widths between 0.5 and 5m wide to be conducted adjacent to existing roadways in order for them to be widened, or for the construction of new drains and mitre drains. The description and execution of the works will be conducted in the same manner as set out in sections 1702 (a), (b) and 1703 (a).

B1704 MEASUREMENT AND PAYMENT

Item	Unit
B17.01 Clearing and grubbing	hectare (ha)

Add the following paragraphs:

"Clearing and grubbing for the construction of camp sites shall not be measured separately. Payment shall be regarded as included in the rates tendered for the applicable items for the abovementioned work".

"The rate shall also allow for the gathering, cutting up, shredding if required, loading, transporting and disposing of at local villages located along the said roadways."

B17.05 Cleaning out of hydraulic structures

Delete the last sentence of the last paragraph. Add the following items:

Item	Unit
B17.07 Mechanical cleaning of hydraulic structures, pipes and portal culverts	hour (hr)

The unit of measurement shall be the number of hours of operation of a high pressure jetting machine (minimum pressure 120 bar and flow rate of 260 l/min) as instructed by the Engineer. Non-working hours for transport, breakdown, lack of operator or any other reason shall not be measured.

The tendered rate shall be an all-inclusive charge for the use of the plant and operator, transport costs to and from the site and all other handling costs, profit and other charges. The tendered rate shall also allow for loading the materials onto trucks, for transporting the material within a free-haul distance of 1,0km and for spoiling the material to a site agreed to with the Engineer.

Item	Unit
B17.08 Removal of undesired vegetation	square metre (m ²)

The unit of measurement shall be square metres of ground cleared using mechanical or manual labour methods, to selectively remove undesirable vegetation as instructed by the Engineer, including trees with a girth of up to and including 1,0m.

The removal of undesirable vegetation within areas designated for Clear and Grub (Item 17.01 and 17.04) will not be paid for separately under this item.

The removal of undesirable trees with a girth in excess of 1,0m will be paid under item 17.02.

The tendered rate shall include for cutting the off-cuts into manageable sizes, loading, off-loading and spreading and hauling with a free haul distance of 1,0km.

Item	Unit
B17.09 Shredding of vegetation cuttings in situ.....	cubic metre (m ³)

The unit of measurement shall be the volume of shredded vegetation generated from the cuttings, the volume determined from the rated capacity of the truck or container used to remove the shredded material.

The tendered rate shall include full compensation for all plant, labour and materials for stockpiling the cut material, loading and shredding and final loading of shredded vegetation onto trucks off loading and spreading and hauling with a free haul distance of 1,0km or stockpile as directed.

Item	Unit
B17.10 Clearing and grubbing narrow widths.....	square metre (m ²)

The unit of measurement shall be square metres of ground cleared and grubbed as directed by the Engineer.

The tendered rate shall include for all work necessary for the clearing and grubbing the surface in narrow widths, the removal and grubbing of trees and tree stumps (except large trees and stumps as defined and measured separately), cutting branches, backfilling of cavities, and the removal, transportation and disposal of material, all as specified."

SECTION 1800:	COLLECTION AND REMOVAL OF DEBRIS AND LITTER
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CONTENTS

B1801	SCOPE
B1802	EXECUTION OF WORK
B1803	QUALITY STANDARD
B1804	MEASUREMENT AND PAYMENT

B1801 SCOPE

This section covers the work involved in collecting and removing of all foreign articles, debris, litter, posters and illegal signs in the road reserve, roadside stopping places lay byes, as well as the replacing of damaged facilities and emptying of rubbish bins at all these areas.

The Routine Road Maintenance Procedures Manual (RRMPM) of the Department of Transport of the Eastern Cape provides a guide on how to conduct the works as indicated below.

B1802 EXECUTION OF WORK

The Contractor shall be responsible for keeping the road reserve clear of all foreign articles, which *inter alia*, shall include litter, branches, stones larger than 75 mm, tyres and stripped tyre treads, posters, illegal signs, animal carcasses and the like.

(a) Dumping sites

All material cleared from the road reserve shall be disposed of at approved dumping sites. The payment of fees and charges associated with the dumping sites shall be the responsibility of the Contractor and be deemed to be inclusive of the applicable rates.

The location of dumping sites shall be the responsibility of the Contractor. Written approval from the landowners or local authorities on whose property the dumping occurs will be required. No dumping sites will be permitted within the road reserve area.

(b) Removal of litter and debris

The Contractor will, as ordered by the Engineer, inspect and remove all foreign articles, debris, rubbish and litter from the full road and road reserve areas, including the road pavement, lay byes, side drains, all drainage grids and structures and bridge drainage ports and scuppers. This shall also include the emptying of rubbish bins and cleaning of all containers, benches and tables.

The Contractor shall provide sufficient plastic bags and the necessary equipment such as sharp pointed steel rods for picking up plastic bags and paper items. The Contractor must ensure that all bottles, tins, etc hidden by the grass and shrubs, are removed. Work shall be undertaken progressively along the road reserve.

Litter shall be collected on one side of the road in one day before crossing to the opposite side to reduce the number of crossings over the road.

The rubbish bag collection vehicle shall travel off the surfaced width of the road as far as possible and bag collection operation shall be organised in such a way that filled bags left on the side of the road do not have to be carried across the road to the vehicle. Full bags shall not be left on the side of the road overnight. No dumping sites will be permitted within the reserve area and the Contractor shall be responsible for removing the filled bags to the nearest approved dumping site.

(c) Road Inspections

The Contractor, while traveling the road network to conduct maintenance / construction activities, shall remove all foreign articles from the carriageway, which shall include, *inter alia*, any debris, spilt loads, concentrated piles of refuse, animal carcasses (to be buried at an approved site using approved methods), branches, trees, dangerous objects, stripped tyre treads and accident debris.

All foreign articles shall be loaded and carted away by the Contractor, and spoiled at an approved tip site. Any large objects that cannot be loaded on a 1 ton LDV and excessive accident debris or large spilt loads shall be removed under day works or the applicable payment items.

No separate payment will be made for the above ad-hoc debris collection by the Contractor while traveling the roads to perform his scheduled duties. The costs thereof shall be deemed to be included in the rates tendered for the cleaning of the road reserve.

(d) Replacing of damaged facilities

At resting areas or lay-byes, concrete litter bins, tables and benches shall be replaced if damaged in accordance with the specifications and drawings and when instructed by the Engineer.

(e) Treatment of existing concrete rest area furniture

At resting areas or lay-byes, concrete litter bins, tables and benches shall be treated by removing all loose paint and debris using a scraper and wire brush, applying two coats of white road marking paint to clean and dust free concrete surface, applying one coat of green (to match existing) road marking paint (or similar approved paint) to top of tables and benches in accordance with the specifications and drawings and when instructed by the Engineer.

(f) Treatment of existing concrete bridge balustrades

Concrete bridge balustrades shall be treated by removing all loose paint using a scraper and wire brush, applying two coats of white road marking paint to clean and dust free concrete surfaces in accordance with the specifications and drawings and when instructed by the Engineer.

B1803 QUALITY / STANDARD

The road reserve shall be completely cleared of all debris and litter. The collected litter and debris shall not be dumped over banks, into streams, manholes, but only at an approved location, arranged beforehand with the Engineer.

The resting areas shall be cleared and tidy with all containers being emptied and benches and tables cleaned.

B1804 MEASUREMENT AND PAYMENT

Item		Unit
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B18.01 Clearing of the road reserve

- | | | |
|---|----------------|--|
| (a) Trunk roads (30 m wide road reserve)..... | kilometer (km) | |
| (b) Main roads (25 m wide road reserve) | kilometer (km) | |
| (c) District roads (20 m wide road reserve) | kilometer (km) | |

The unit of measurement for clearing of the road reserve is the kilometer of cleared road reserve per cleaning operation measured along the road center line (to the nearest kilometer) in accordance with these specifications.

The tendered rate shall include full compensation for all labour, tools and transport necessary for the collection and disposal of foreign articles as specified in this Section, and the clearing of rest areas, lay-byes and rubbish bins.

Item	Unit
B18.02 Replacing of damaged facilities	

- (a) Litter containers number (No)
- (b) Tables number (No)
- (c) Benches number (No)

The unit of measurement shall be the number of each type of facility replaced. The tendered rates shall include full compensation for providing each type of facility, erecting and painting, including 2 coats of white road marking paint to all exposed concrete surfaces and 1 coat of green road marking paint (or similar approved) to top of facilities, including tidying up surrounding area after installation and for removing and transporting damaged facilities to a designated spoil site.

Item	Unit
B18.03 Treatment of existing concrete rest area furniture	

- (a) Litter containers number (No)
- (b) Tables number (No)
- (c) Benches number (No)

The unit of measurement shall be the number of each type of facility treated. The tendered rates shall include full compensation for treating each type of facility complete, including surface preparation and painting, including 2 coats of white roadmarking paint to all exposed concrete surfaces and 1 coat of green roadmarking paint (or similar approved) to top of facilities and tidying up surrounding area.

Item	Unit
B18.04 Treatment of existing concrete bridge balustrades	

- (a) Balustradessquare meter (m²)

The unit of measurement shall be the square meter of balustrade treated by removing all loose paint using a scraper and wire brush, applying two coats of white road marking paint to clean and dust free concrete surfaces in accordance with the specifications and drawings and when instructed by the Engineer. The rate shall include full compensation for all labour, tools and cleaning of the area after painting.

Item	Unit
B18.05 Cleaning of Rest Areas and Litter Removal	

- (a) Within 50km from the main camp siteNumber (No) (b) Between 50km and 150km from the main camp siteNumber (No)
- (c) Further than 150km from the main camp siteNumber (No)

The unit of measurement shall be the number of rest areas cleaned within the specified distance from the main site camp. The amount of rest areas will be agreed between the Engineer’s Representative and the Contractor once the main site camp has been established.

The tendered rate shall include full compensation for all work necessary to clean the rest area and to collect and remove the litter and debris at a suitable dumping area or closest municipal dump (inclusive of tip fees). Transport of workers, tools and labour costs will be deemed to be included in the tendered rate.

SECTION 1900:	DAYWORKS
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- B1901 SCOPE
 B1902 ORDERING OF DAYWORK B1903
 MEASUREMENT AND PAYMENT

B1901 SCOPE

This Section covers the listing of day work items in accordance with the General Conditions of Contract (Clause 6.5) for determining payment for work which cannot be quantified in specific units in the Bill of Quantities, or work ordered by the Engineer during the construction period which was not foreseen at tender stage and for which no applicable rate exists in the Bill of Quantities.

B1902 ORDERING OF DAYWORK

No dayworks shall be undertaken unless written authorisation has been obtained from the Engineer.

B1903 MEASUREMENT AND PAYMENT

Item	Unit
B19.01 Personnel	
(a) Unskilled labour	hour (hr)
(b) Semi-skilled labour	hour (hr)
(c) Skilled labour	hour (hr)
(d) Ganger	hour (hr)
(e) Flagmen	hour (hr)
Item	Unit
B19.02 Plant	
(a) Flatbed truck (specify size)	hour (h)
(b) Tipper Trucks - 3-to-5-ton capacity	hour (h)
(c) Tipper Trucks - More than 5 ton	hour (h)
(d) Loader (0,5m ³) bucket	hour (h)
(e) TLB (digger loader)	hour (h)
(f) Excavator. (20-30 ton)	hour (h)
(g) Grader (AT 140 G or similar)	hour (h)
(h) Compactor (Bomag 90)	hour (h)
(i) Water truck (5000 litre)	hour (h)
(j) Dozer (D7 or similar)	hour (h)
(k) Tractor-trailor combination (43 kW, 3-ton min)	hour (h)
(l) Suitable truck/bus for transporting labourers (30 people minimum)	hour (h)
(m) Compressor (air) including hoses and tools (specify)	hour (h)
(n) Dewatering pump including generators and accessories (specify size)	hour (h)
(o) Mobile electric welding sets and accessories (specify size)	hour (h)
(p) Cutting torch with mobile electric & oxy acetylene installation	hour (h)
(q) Mobile concrete mixers (specify size)	hour (h)
(r) Light delivery vehicle (LDV)	hour (h)
(s) Centre-mount crane (specify size)	hour (h)
(t) Low bed truck (specify size)	hour (h)
(u) Other (specify)	hour (h)
(v) Shredder/chipper (specify)	hour (h)

Item	Unit
B19.03 Materials	
(a) Procurement of materials.....	provisional sum
(b) Contractor's handling costs, profit and all other charges in respect of Item B19.03 (a)	percentage (%)

The unit of measurement for items B19.01 and B19.02 shall be the hour for the item of plant or personnel. Non working hours for transport breakdown, lack of operator or any other reason shall not be measured. The time shall be taken from the time that the personnel and/or plant depart until return.

Measurement shall only be for work instructed and directed by the Engineer, where the Engineer considers no other appropriate rate is available in the Bill of Quantities. Prior to the commencement of any work by the labourers described under item B19.01, the Contractor must obtain written consent from the Engineer regarding the classification of all labourers in terms of "unskilled", "semi-skilled" and "skilled" labourers.

The tendered rates for labour for item B19.01 shall include full compensation to cover overhead charges and profit, leave pay, bonuses, subsistence, allowances, employer's contributions, additional payment for overtime, where applicable, insurances, housing, site supervision, use of small hand tools and appliances, non-mechanical plant and equipment and consumable stores, for all administrative, supervisory, operative and contingent costs, relating to the supply of personnel.

The tendered rates for plant for item B19.02 shall be an all-inclusive hire charge for the use of the vehicle and driver or plant/equipment and operator and shall apply only to vehicles plant and equipment nominated in writing by the Engineer, for all administrative, supervisory operative and contingent cost, and profit, relating to the running of the plant.

The unit of measurement for item B19.03 (a) shall be the amount actually paid for the procurement of materials to be purchased and shall be made in accordance with the provision of the general conditions of Contract. Only the actual quantities of materials used, as verified by the Engineer, shall be paid for.

The percentage tendered for item B19.03 (b) shall be percentage of the amounts actually paid for the procurement of materials as ordered under item B19.03 (a) and shall be in full and final compensation in respect of the Contractor's handling costs, profit and all other charges in connection with the procurement and supply of the materials to the point of usage.

The abovementioned tendered rates shall be full compensation for the various items as specified and no further profit shall be paid."

SECTION 2100 :	DRAINS
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B2101 SCOPE

Replace the first paragraph with the following:

“This Section covers all the activities for rehabilitative, new and maintenance work in connection with the excavation and construction of open drains, subsoil drainage and banks and dykes at the location and to the sizes, shapes, grades and dimensions shown on the drawings or as directed by the Engineer, and the test flushing of the subsoil drains.”

B2102 OPEN DRAINS

Add the following subclause:

“(h) Concrete channels, kerb-and channel combinations, concrete side drains and median drains

Concrete channels shall be cleaned when instructed by the Engineer. Material from the channels, kerb-and-channel combinations, side drains in cut and median drains shall either be loaded and transported to designated spoil sites or disposed of adjacent to channels where it cannot be washed back into the channel within the road reserve as directed by the Engineer.

Vegetation growing in channel joints and cracks shall be removed with roots to prevent re- growth.

Vegetation growing over channels from the edges shall be trimmed at the concrete edges and disposed of. Undesirable vegetation shall be removed with roots and spoiled where directed by the Engineer.

Concrete drainage channels shall be clear of any obstruction such that the concrete surfaces are clearly visible. All concrete drains and channels, chutes and the like are to be swept after all obstructions and debris has been removed.

Silt, debris and vegetation removed shall not be thrown up against cut or down fill slopes.”

B2104 SUBSOIL DRAINAGE

Add the following new clauses:

“(d) Exposing existing subsoil pipes

Where instructed by the Engineer, existing subsoil pipes shall be exposed for inspection. The material on top of the pipe shall be carefully removed by hand. Care shall be taken not to damage the filter fabric and pipe during excavation.

Repair work, if required, shall be carried out as directed by the Engineer. It may involve the replacement of the existing pipe and the backfill with material similar to that encountered in the existing system.

“(e) Draining of distressed areas

Where the presence of subsurface water has caused failures of the pavement layers the Engineer may require the installation of subsoil drains through the road to drain the excavation before re-instatement of the pavement layers.

The subsoil drainage system to be installed shall be as instructed by the Engineer.

Where asphalt premix is to be removed for the installation of a subsoil drain the asphalt shall be cut neatly and perpendicular with approved sawing equipment to the width instructed by the Engineer before excavation.

Payment for the excavation of the asphalt premix layers and the reconstruction of the pavement layers shall be made under the relevant sections.

(f) Maintenance of subsoil drains

When instructed by the Engineer, blocked subsoil drains shall be unblocked by rodding through rodding eyes provided for the purpose and thorough flushing of the pipes.

Should the Contractor notice the existence of blocked or damaged subsoil drains, the Engineer shall be duly notified to issue an instruction for the execution of the relevant maintenance work.”

B2107 MEASUREMENT AND PAYMENT

Item	Unit
B21.01 Excavation for open drains	cubic metre (m ³)

Add the following to the penultimate paragraph:

“The tendered rate shall also include full compensation for trimming the open drains. Only those drains designated by the Engineer for excavation will be measured. The above rate will be deemed inclusive where blading is specified in Section 3400, and will not be measured separately.

Where blading or road bed preparation is specified (Section 3400), payment for the formation of side and mitre drains up to the road reserve will be included in the blading or road bed preparation rate. However, where new drains are to be constructed to extend beyond the road reserve limits, payment will be made under this item for the length of drain outside the road reserve.”

Item	Unit
B21.02 Clearing and shaping existing open drains	cubic metre (m ³)

Add the following to the penultimate paragraph:

“The tendered rate shall also include full compensation for trimming the open drains. Only those drains designated by the Engineer for clearing and shaping will be measured. The above rate will be deemed inclusive where blading is specified in Section 3400, and will not be measured separately.

Where blading is specified (Section 3400), payment for the formation and clearing of side and mitre drains within the road reserve will be included in the blading rate. However, where drains extend beyond the road reserve limits, payment will be made under this item for the length of drain outside the road reserve.”

Delete item 21.18 and replace with the following:

Item	Unit
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B21.18 Clearing of concrete drainage channels

- (a) Side drains, median drains and the likesquare metre (m²)
- (b) Channels in kerbing-channeling combinations metre (m)
- (c) Other drains and channels within the following invert ranges
 - (i) Less than 1.0msquare metre (m²)
 - (ii) 1.0m to 2.0msquare metre (m²)
 - (iii) 2.0m to 3.0msquare metre (m²)
 - (iv) Exceeding 3.0msquare metre (m²)

The unit of measurement shall be the square metre of channel cleared, measured in plan (no payment shall be made for vertical surfaces).

The tendered rates shall include full compensation for all labour plant and equipment required for removing the material from the channels irrespective of the depth of silt and debris and for loading, protecting the existing drains and channels, dealing with any surface or sub-surface water, off-loading and spreading when material removed is intended for spoiling at a designated spoil site.

The tendered rates shall include for transporting the excavated material to spoil sites within a free haul distance of 1,0km.

Where material is disposed of adjacent to channels, the tendered rate shall include full compensation for removing the material from the channels, irrespective of the depth of silt and debris, protecting the existing drains and channels, dealing with any surface or sub-surface water, spoiling and spreading the material adjacent to the channel where it cannot be washed back into the channel.”

Add the following new items:

Item	Unit
B21.20 Clearing and shaping side and mitre drains by road grader meter (m)	

The unit of measurement shall be the linear meter of mitre and side drain formed, cleared, opened up and shaped. The length of mitre drain will be measured from the outside of the side road drain to the approved extremity of the mitre drain. Only those mitre and side drains designated by the Engineer for clearing and shaping will be measured. Where blading is specified (Section 3400), payment for the formation and clearing of side and mitre drains up to the road reserve will be included in the blading rate. However, where roads extend beyond the road reserve limits, payment will be made under this item for the length of drain outside the road reserve.”

Item	Unit
B21.21 Exposing of existing subsoil drains (m ³)	

The unit of measurement shall be the cubic meter of material removed by hand to expose the drain.

The rate tendered shall include for full compensation for all labour and tools required for removing the material. The re-instatement of the drain shall be paid for under the relevant items for constructing a new drain.

Item	Unit
B21.22 Clearing of subsoil drains..... (m)	

The unit of measurement shall be meter of drain cleared on the instruction of the Engineer.

The tendered rate shall include full compensation for all labour equipment, tools and transport required for clearing subsoil drains and for disposal of the cleared material at approved sites.”

SECTION 2200 : PREFABRICATED CULVERTS**B2201 SCOPE**

Amend the first paragraph to read:

“This Section covers all the activities in connection with the construction and maintenance of prefabricated units of culverts and other closed conduits such as storm water ducts, tremies and service ducts, together with inlet and outlet structures, manholes and other appurtenant structures.”

B2203 MATERIALS**(b) Portal and rectangular prefabricated concrete culvert units**

Add the following:

“Should a pipe unit be specified as half of the standard length; the actual length of the unit will be measured for payment as it is accepted that only certain lengths are available from the manufacturers. The tendered rate for concrete pipe culverts shall also include any additional costs with respect to units that are half the standard length. The standard length of a concrete pipe will be taken as 2,44m or 2,5m depending on supplier. All pipe joints are to be wrapped with U24 Bidum or similar approved material. The cost of the wrapping of the joints will be deemed to be inclusive in the installation rate of the pipe.”

(d) Fine granular material

Add the following:

“Selected material, approved by the Engineer, may be used for the bedding.”

Add the following clause:

B2212 INLET AND OUTLET STRUCTURES, CATCHPITS AND MANHOLES**(a) Excavation and backfilling**

Amend the first paragraph to read as follows :

“The width of excavation shall be the net external dimensions of structure plus 0,5 meter working space along or around the structure. The specifications given elsewhere in this Section for backfilling the culverts shall apply mutatis mutandis to inlet and outlet structures, catchpits and manholes. If wet soilcrete is used with vibrators the extra working space can be reduced to 150 mm.”

Add the following clause:

“B2219 CONSTRUCTION TOLERANCES

The installation of prefabricated pipes, portal and rectangular culverts and ducts shall comply with the requirements stated below:

(a) Level

The permissible deviation from the specified level shall be ± 20 mm.

(b) Alignment and grade

The permissible deviation of the alignment and grade of each culvert and pipeline shall be ± 20 mm from the specified line and level, or from the line between culvert or pipe inverts at successive manholes or catch pits, as applicable, when measured over any 7m length, and all such deviations shall be gradual. Reverse falls are unacceptable.”

B2218 MEASUREMENT AND PAYMENT

Add the following new items:

Item	Unit
B22.29 Sealing of cracks and joints in existing culverts or pipes	metre (m)

The unit of measurement shall be the actual length of crack or joint sealed in the inside of the pipe or culvert.

The tendered rate shall be for the full compensation for procuring, furnishing and caulking the cracks or joints with the specified material, it should also include for cleaning the area to be caulked.

Item	Unit
B22.30 Demolition of brick structures	
(a) 115 mm thick brickwork	square metre (m ²)
(b) 230 mm thick brickwork	square metre (m ²)
(c) 345 mm thick brickwork	square metre (m ²)

The unit of measurement shall be the square metre of brickwork demolished.

The tendered rate shall include full compensation for all labour, plant and equipment required to demolish the existing brick structure (including plasterwork and the like) and disposal of the demolition to an approved spoil site within a free-haul distance of 1km. For partial demolition, It shall also include for squaring out the brickwork and preparing the existing surface for repair or to tie into new brickwork.”

SECTION 3400	PAVEMENT LAYERS OF GRAVEL MATERIAL
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B3401 SCOPE

Add the following paragraph :

“The work involved under this Section also includes all activities that are required to conduct routine and preventative maintenance to existing gravel and surfaced roads, including the use of self-propelled road graders to improve the overall rideability, safety aspects and correcting any drainage faults that may be present. The Routine Road Maintenance Procedures Manual (RRMPM) and the Regravelling and Road Betterment Procedures Manual of the Department of Roads and Transport of the Eastern Cape describes the causes and type of defects, as well as providing a guide on how to conduct the works as indicated below.

The additional items of work covered under this Section include:

- (a) Wet grading
- (b) Dry grading
- (c) Access blading
- (d) Special grading
- (e) Reshaping
- (f) Heavy maintenance
- (g) Gravel patching
- (h) Light roadbed preparation
- (i) Heavy roadbed preparation
- (j) Gravel shoulder repair
- (k) Removal of edge build-ups
- (l) Regravelling/gravelling in short lengths

(j) Gravel shoulder repair (as per P07 of the Procedures Manual – RRMPM)

Shoulder reinstatement shall be carried out where the gravel shoulder is 75 mm or more lower than the surfaced edge of the road and at bus bays and stopping places where a drop off of more than 50 mm exists or where the slope of a gravel shoulder must be reinstated to 3,5% or where directed by the Engineer.

Reconstruction of gravel shoulders consists of the following methods of placing and compaction:

1. Ripping, watering, placing and compacting of in-situ shoulder material with or without the adding of extra material from borrow. In the event of extra material having to be added, an extra over payment item is allowed in the Bill of Quantities as well as for stabilizing in-situ or imported material (the quantity of cement to be added shall be as instructed by the Engineer).
2. Construction of full depth gravel shoulder with material imported from borrow or shavings originating from milling out existing asphalt layers.

The shoulders and other areas shall be reinstated level with the existing surfaced edge and with a minimum slope of 2% to shed water from the road. On the high and low side of the road shoulder, reinstatement shall be constructed to the same cross fall as the road. At bus bays and stopping places the shoulders shall be built up with a maximum width of 2.0 m from the surfaced edge. No additional payment shall be made for the reconstruction of gravel shoulders to restricted widths and lengths.

The reinstated gravel shoulder shall be compacted to 93% modified AASHTO density.

The Contractor shall determine the optimum moisture content of the gravel to be used and shall compact the material with a suitable vibratory roller, or any other compaction equipment he considers suitable for the work to achieve a dense layer which will not ravel under traffic.

Material shall not be compacted in layers exceeding a thickness of 150 mm.

(k) Removal of edge build-ups

Silted-up material that forms on edges of shoulders, restricting the flow of water or presenting a potential hazard to traffic shall be removed on the instruction of the Engineer. Material removed shall either be loaded and transported to designated spoil sites or disposed of adjacent to the road on the lower side of the road within the road reserve as directed by the Engineer.

Where the material is spoiled adjacent to the road the contractor shall ensure that the material is spread neatly and well clear of the road where it will not wash back. The Engineer may order trenches to be excavated through the edge to lead the water off the road.

B3402 MATERIALS**(a) General**

Add the following to the second paragraph:

“Materials to be used for the gravel wearing course shall be Type 1 as per Table 3402/4, with the following amendments:

- Maximum target size = 53 mm
- Oversize index = 10% maximum
- Maximum permitted oversize = 63 mm.”

B3403 CONSTRUCTION**(b) Placing and compacting**

Add the following new sub-subclause:

“(iii) Regravelling

“Before the construction of the gravel wearing course is commenced, the Contractor shall ensure that the underlying subgrade is to the satisfaction of the Engineer. This shall include the submission of all relevant process control test results to the Engineer.

The wearing course material shall be dumped on the road and then spread by means of motor graders over the full width of the layer shown on the drawings and to such depth that after compaction the thickness of the layer complies with the requirements of the Scope of Works and the surface of the layer is true to elevation, grade, and cross-section.

At no stage along a road shall the continuous length of unprocessed dumped material exceed 0.5km. Passing opportunities will be provided within the dumped material at a minimum spacing of 200 meters.

The material shall be spread away from the area on which it has been dumped in such a manner as to minimise segregation of the various sizes of aggregate in the material.

Material that is oversize in terms of the requirements for size and that remains after processing or spreading or both shall be hand knapped or bladed off the road and removed and disposed of.

Where necessary, in order to increase the moisture content of the material to the optimum value of the compaction equipment employed and the density required, not more than the requisite quantity of water shall be added uniformly over the area to be compacted. The water shall be thoroughly mixed into the material until a homogeneous mixture is obtained.

Material that is too wet shall be allowed to dry out to the correct moisture content before compaction proceeds.

Compaction shall be carried out in continuous operations over the full width and length of the area being compacted until the density specified has been achieved. The required shape and cross-section shall be maintained during compaction, and all holes, ruts, and depressions shall be corrected by frequent blading with a motor grader. The top of the compacted layer shall present a hard uniform compacted appearance.

Any weak spots that become apparent during compaction shall be cut out and repaired with sound material at the Contractor's expense.

The wearing course shall be compacted to a density of at least 95% of modified AASHTO density. Only partial payment will be done, at the discretion of the Engineer, on sections of wearing course until the Contractor has submitted satisfactory process control test results for the section to the Engineer."

Add the following new subclauses:

“(f) Mixing/Blending of materials

Where required by the Engineer, materials from different sources shall be mixed in order to produce a final layer that meets the requirements of the specification.

Materials from the different sources shall be dumped on the road in the proportions ordered by the Engineer. The two materials shall be thoroughly mixed by grader or other suitable plant so as to obtain an even mix of the different types of material dumped. The layer shall then be compacted in accordance with clause 3403 (b).

(g) Testing of wearing course gravel

The following minimum testing shall be undertaken by the Contractor as process control for the wearing course gravel, including material processed in-situ:

- (i) 1 CBR per kilometre of gravel wearing course.
- (ii) 3 Gradings and indicators per kilometre. (The sample is to be taken from a 1m² representative area on the road at the test position as per TMH 5)
- (iii) 3 Layer thickness measurements per kilometre.
- (iv) 3 Compaction density tests per kilometre.
- (v) 5 width of road (wearing surface) measurements to be taken every kilometre.
- (vi) Visual inspection
- (vii) Tolerance checking of surface repairs by using straight edge

In addition, there shall be at least 3 CBR tests undertaken on samples from each proposed borrow pit.

All such tests will be undertaken by the on-site or approved laboratory, utilising personnel properly trained and equipped for the purpose.

Only 70% of the applicable rate will be certified for the placing and construction of the pavement layer/gravel wearing course. Upon presentation of the above approved test results, the balance will only be payable if they conform to the set minimum requirements, failing which, the Contractor is to reprocess the section of work until it conforms to the specification. Only then will the balance of the payment be made."

Add the following clause :

“B3408 EXECUTION OF BLADING WORK

The Engineer will inspect the existing road ahead of the blading programme and will instruct, in writing, the Contractor exactly which sections will receive what type of blading. The existing insitu material generated during the cutting operation to form the required cross section and side / mitre drains, may be cut out and placed on the side slopes from the fence line to the centre of the side drain, or disposed of as directed.

(a) Wet grading (As per GO1 of the Procedures Manual - RRMPM)

The aim of the wet grading operation is to improve the riding surface and to remove the potholes, corrugations and rutting that have developed with time, as well as clearing the side and mitre drains within the road reserve and providing the correct cross sectional profile to the road prism.

Wet grading shall only be carried out when gravel is at the correct moisture content. Water is to be sprayed on the full width of road section to be worked before blading commences, to ensure

that the material is at optimum moisture content. The material from both side drains of the road is to be cut into the road and spread with successive cuts towards the centre of the road. The depth of the cuts shall be sufficient to result in an even surface.

Hand labour is to fill all potholes and remove oversize and any vegetation from the roadway. Water is then again to be sprayed on the full width of road section being worked. The material windrow which has been formed in the centre of the road is now cut with successive cuts towards one side of the road. If a material windrow is formed at the shoulder of the road, this material needs to be cut out through the side drain.

If this is not possible due to physical constraints, openings and mitres will be made to ensure that the side drain can function freely. Any drains blocked off by undercutting shall be opened and gravel spillage into outlets shall be removed.

Water is then again to be sprayed on the full width of road section that was worked.

The wet grading operation will also include for providing the required cross sections and cambers on the road, as well as cutting all the mitre and side drains complete, to ensure proper drainage.

Should the side slopes from the road reserve fence line, to the outer edge of the side drain need to be cut and shaped, this area will first be cleared and grubbed. The required Clearing and Grubbing activity within the road reserve will be measured under Section 1700, with the shaping and trimming being measured under Section 5900.

(b) Dry grading (As per GO2 of the Procedures Manual - RRMPM)

The aim of the dry grading operation is to improve the riding surface and to remove the potholes, corrugations and rutting that have developed with time, as well as clearing the side and mitre drains within the road reserve and providing the correct cross sectional profile to the road prism.

The Contractor shall also attempt to maximise the number of dry grades after rains or when soil conditions are close to optimum moisture content.

The material from both side drains of the road is to be cut into the road and spread with successive cuts towards the centre of the road. The depth of the cuts shall be sufficient to result in an even surface.

Hand labour is to fill all potholes and remove oversize and any vegetation from the roadway. The material windrow which has been formed in the centre of the road is now cut with successive cuts towards one side of the road. If a material windrow is formed at the shoulder of the road, this material needs to be cut out through the side drain.

If this is not possible due to physical constraints, openings and mitres will be made to ensure that the side drain can function freely. Any drains blocked off by undercutting shall be opened and gravel spillage into our outlets shall be removed.

Should the side slopes from the road reserve fence line, to the outer edge of the side drain need to be cut and shaped, this area will first be cleared and grubbed. The required Clearing and Grubbing activity within the road reserve will be measured under Section 1700, with the shaping and trimming being measured under Section 5900.

(c) Accessibility grading

Accessibility grading will be instructed in cases where roads have deteriorated so far that no gravel remains on the road and where grading is required to ensure drivability.

The aim of the blading operation is to improve the riding surface by attempting to remove the potholes, corrugations and rutting that has developed with time, as well as clearing the side and mitre drains within the road reserve. The blading operation should also attempt to provide the correct cross sectional profile to the road prism.

The first cut shall commence in the side drain collecting material in a windrow on the shoulder and blade towards the centre line. Hand labour is to fill all potholes and remove oversize

material and any vegetation from the roadway. With successive cuts, the grader is to move the windrow across the full width of the road. The depth of the first cut shall be sufficient to result in an even surface if possible. No undercutting or small windrows that will prevent water from flowing freely off the road surface or into culvert inlets shall be allowed. During the blading operations all large stones and vegetation shall be removed from the windrowed material. Any drains blocked off by under cutting shall be opened and gravel spillage into culvert inlets and outlets removed. The grading operation will also strive toward providing the required cross sections and cambers on the road, as well as cutting all the mitre and side drains complete, to ensure proper drainage.

Should the side slopes from the road reserve fence line, to the outer edge of the side drain need to be cut and shaped, this area will first be cleared and grubbed. The required Clearing and Grubbing activity within the road reserve will be measured under Section 1700, with the shaping and trimming being measured under Section 5900.

(d) Special grading (As per GO3 of the Procedures Manual – RRMPM)

The aim of special grading operation is to improve the riding surface and to remove the potholes, corrugations and rutting that have developed with time, as well as clearing the road reserve and providing the correct cross sectional profile to the road prism.

Special grading shall only be carried out when gravel is at the correct moisture content. Water carts shall be used to water the road ahead of the grader and during the operation, as well as on completion of the shaping before compaction. The Contractor shall determine the optimum moisture content at which the material is to be graded.

The first cut shall commence in the side drain collecting material in a windrow on the shoulder and blade towards the centre line. With successive cuts, the grader is to move the windrow across the full width of the road. The depth of the first cut shall be sufficient to result in an even surface. No undercutting or small windrows which will prevent water flowing freely off the road surface or into culvert inlets shall be allowed. During the blading operations all large stones and vegetation shall be removed from the windrowed material. Any drains blocked off by under cutting shall be opened and gravel spillage into culvert inlets and outlets removed. The wet grading operation will also include for providing the required cross sections and cambers on the road, as well as cutting all the mitre and side drains complete, to ensure proper drainage.

Compaction after the blading operation must ensure that at least 95% of MOD AASHTO is achieved for the gravel wearing course layer.

The special grading operation will also include for providing the required cross sections and cambers on the road, as well as cutting all the mitre and side drains complete, to ensure proper drainage.

Should the side slopes from the road reserve fence line, to the outer edge of the side drain need to be cut and shaped, this area will first be cleared and grubbed as specified. The required Clearing and Grubbing activity within the road reserve will be measured under Section 1700, with the shaping and trimming being measured under Section 5900.

(e) Reshaping (As per GO4 of the Procedures Manual - RRMPM)

Reshaping will be instructed by the Engineer where the road cross section of the road profile has changed and needs to be reworked to achieve the required shape, which will facilitate a better riding quality and proper drainage.

Reshaping will consist of ripping (150 mm), adding water, mixing, shape and trimming to the required cross sections and cambers inclusive of cutting all mitre and side drains complete, to ensure proper drainage, and removing any oversize material.

Compaction during the operation must ensure that at least 95% of MOD AASHTO is achieved.

The operation will also include for providing the required cross sections and cambers on the road, as well as cutting all the mitre and side drains complete, to ensure proper drainage.

Should the side slopes from the road reserve fence line, to the outer edge of the side drain need to be cut and shaped, this area will first be cleared and grubbed as specified. The required Clearing and Grubbing activity within the road reserve will be measured under Section 1700, with the shaping and trimming being measured under Section 5900.

(f) Heavy maintenance (As per GO5 of the Procedures Manual - RRMPM)

Heavy maintenance will be instructed by the Engineer where the existing material left on the road surface is extremely rough, due mainly to oversize material in it and needs to be reprocessed, to ensure that the material conforms to specification, as well as ensuring that the proper road profile is achieved, which will facilitate a better riding quality and proper drainage. Heavy maintenance will only be instructed if the existing road bed material conforms to the specified requirements.

If the insitu road bed material does not conform to the required specification, the Engineer will instruct the Contractor to blade the existing gravel material to windrow, perform the necessary road bed preparation and replace the gravel wearing surface. This operation will be measured separately and relevant items allowed for.

Heavy maintenance will consist of ripping (150 mm), re-processing, adding water, mixing, shaping, compacting and trimming to the required cross sections and cambers inclusive of cutting all mitre and side drains complete, to ensure proper drainage, and removing oversize material.

Compaction during the operation must ensure that at least 95% of MOD AASHTO is achieved for the gravel wearing course layer.

The operation will also include for providing the required cross sections and cambers on the road, as well as cutting all the mitre and side drains complete, to ensure proper drainage.

Should the side slopes from the road reserve fence line to the outer edge of the side drain need to be cut and shaped, this area will first be cleared and grubbed as specified. The required Clearing and Grubbing activity within the road reserve will be measured under Section 1700, with the shaping and trimming being measured under Section 5900.

(g) Gravel patching (As per GO6 of the Procedures Manual - RRMPM)

Gravel patching will be conducted on areas of road demarcated by the Engineer that has **an area of less than 150 m²** and an average depth of approximately 150 mm. This operation requires the contractor to provide the required road traffic signage, square up the pothole / wash away, clear out all loose material, wet the bottom, mix and place the imported gravel wearing material and compact to 95% modified AASHTO density using hand operated compaction equipment complete.

Gravel patching may be instructed before dry or wet grading is ordered over the entire length of roadway being maintained.

(h) Light roadbed preparation

Light roadbed preparation will be utilised to prepare the existing roadway to conform to the required design cross section before the regravelling operation commences, if so required. This item will be used when the above can be achieved by using a motorised grader unit without ripping the insitu material.

The Engineer will order light roadbed preparation before regravelling a section of road only if the insitu roadbed material conforms to the required specification.

Blading shall commence by first cutting and shaping the side and mite drains to the required specification to ensure proper drainage, as well as the shaping of the roadway. If in the opinion of the Engineer, the material so removed is suitable to be mixed in with the imported material, it should be bladed towards the centre line from both sides with successive cuts. If in the opinion of the Engineer the material from the formation of the cross section and drains is not suitable, it will be spread over the side slopes or disposed of as directed. During the blading operation all

large stones and vegetation shall be removed from the windrowed material. Any drains blocked off by under cutting shall be opened and gravel spillage into culvert inlets and outlets removed. The Contractor is to ensure that the required cross section is neatly trimmed and approved by the Engineer, before any material is imported.

The operation will also include for providing the required cross sections and cambers on the road, as well as cutting all the mitre and side drains complete, to ensure proper drainage.

Any drains blocked off by under cutting shall be opened and the spillage into culvert inlets and outlets removed. The Contractor is to ensure that the required cross section is neatly trimmed and approved by the Engineer, before any material is imported.

(i) Heavy roadbed preparation

Heavy roadbed preparation will be utilised to prepare the existing roadway to conform to the required design cross section before the regravelling operation commences if required. This item will be used when the above can only be achieved by using a motorised grader to rip the insitu material, scarify, add water, mix, shape and compact the material to achieve the required cross section before the regravelling operation.

The Engineer will order heavy roadbed preparation before regravelling the section of road only if the insitu road bed material is of such a nature, that upon being processed, conforms to the minimum requirement to receive the imported gravel wearing course.

Heavy roadbed preparation will consist of ripping (150 mm), adding water, mixing, shape and trimming to the required cross sections and cambers inclusive of cutting all mitre and side drains complete, to ensure proper drainage.

The Contractor is to ensure that the required cross section is neatly trimmed and approved by the Engineer, before any material is imported.

Compaction during the operation must ensure that at least 95% of MOD AASHTO is achieved for the gravel wearing course layer.

Any drains blocked off by under cutting shall be opened and the spillage into culvert inlets and outlets removed. The Contractor is to ensure that the required cross section is neatly trimmed and approved by the Engineer, before any material is imported.

(m) Quality / Standard

The road surface on completion of the works shall give a smooth ride free from corrugation and be properly drained.

The specified camber for straight sections of roads shall be maintained and superelevation on curves shall extend across the full width of the roadway."

B3407 MEASUREMENT AND PAYMENT

Item	Unit
B34/33.03 Extra over for Item 34.01 for excavation of material in:	
(a) Intermediate excavation	Cubic metre (m ³)
(b) Hard excavation	Cubic metre (m ³)

The unit of measurement shall be the cubic metre of compacted pavement layer and the quantity shall be calculated from the authorized dimensions of the compacted layer.

Add the following items :

Item	Unit
B34.14 Wet grading	kilometre (km)

The unit of measurement shall be the kilometre of full width of gravel road bladed, inclusive of the formation and shaping of all the side and mitre drains, measured along the centre line of the road.

The tendered rate shall include full compensation for all the blading by motor grader, water cart and all labour required to remove large stones and keeping drainage clear from gravel spillage.

Separate items will be scheduled for various road way widths to be bladed.

Item **Unit**

B34.15 Dry grading.....kilometre (km)

The unit of measurement shall be the kilometre of full width of gravel road processed, inclusive of the formation and shaping of all the side and mitre drains, measured along the centre line of the road.

The tendered rate shall include full compensation for all the blading by motor grader and all labour required to remove large stones and keeping drainage clear from gravel spillage.

Separate items will be scheduled for various road way widths to be processed.

Item **Unit**

B34.16 Accessibility grading.....kilometre (km)

The unit of measurement shall be the kilometre of full width of road processed, inclusive of the formation and shaping of all the side and mitre drains, measured along the centre line of the road.

The tendered rate shall include full compensation for all the blading by motor grader and all labour required to remove large stones and keeping drainage clear from gravel spillage.

Separate items will be scheduled for various road way widths to be processed.

Item **Unit**

B34.17 Special grading.....kilometre (km)

The unit of measurement shall be the kilometre of full width of gravel road processed, inclusive of the formation and shaping of all the side and mitre drains, measured along the centre line of the road.

The tendered rate shall include full compensation for adding water, shaping and trimming by motor grader, and providing for the necessary compaction effort to achieve the required specification, as well as all labour required to remove large stones and keeping drainage clear of gravel spillage.

Separate items will be scheduled for various road way widths to be processed.

Item **Unit**

B34.18 Reshaping.....kilometre (km)

The unit of measurement shall be the kilometre of full width of gravel road processed, inclusive of the formation and shaping of all the side and mitre drains, measured along the centre line of the road.

The tendered rate shall include full compensation for ripping, adding water, shaping and trimming by motor grader, and providing for the necessary compaction effort to achieve the required specification, as well as all labour required to remove large stones and keeping drainage clear of gravel spillage.

Separate items will be scheduled for various roadway widths to be processed.

Item **Unit**

B34.19 Heavy maintenance.....kilometre (km)

The unit of measurement shall be the kilometre of full width of gravel road processed, inclusive of the formation and shaping of all the side and mitre drains, measured along the centre line of the road.

The tendered rate shall include full compensation for ripping, grid rolling, adding water, shaping and trimming by motor grader, and providing for the necessary compaction effort to achieve the required specification, as well as all labour required to remove large stones and keeping drainage clear of gravel spillage.

Separate items will be scheduled for various road way widths to be processed.

Item **Unit**

B34.20 Gravel patching..... **cubic metre (m³)**

The unit of measurement shall be the cubic metres of potholes repaired.

The tendered rate shall include full compensation for the procuring of all the materials and gravel, transport, water cart, labour and compaction equipment to effect the repair of a specific pothole / wash away complete at any point along the site.

Item **Unit**

B34.21 Light roadbed preparation **kilometre (km)**

The unit of measurement shall be the kilometre of full width of gravel road processed, inclusive of the formation and shaping of all the side and mitre drains, measured along the centre line of the road.

The tendered rate shall include full compensation for shaping and trimming by motor grader and providing for the necessary labour required to remove large stones and keeping drainage clear of gravel spillage.

Separate items will be scheduled for various road way widths to be processed.

Item **Unit**

B34.22 Heavy roadbed preparation **kilometre (km)**

The unit of measurement shall be the kilometre of full width of gravel road processed, inclusive of the formation and shaping of all the side and mitre drains, measured along the centre line of the road.

The tendered rate shall include full compensation for ripping, adding water, shaping and trimming by motor grader, and providing for the necessary compaction effort to achieve the required specification, as well as all labour required to remove large stones and keeping drainage clear of gravel spillage.

Separate items will be scheduled for various road way widths to be processed.

Item **Unit**

B34.23 Gravel shoulder repair

- (a) Ripping, watering, mixing, placing and compacting existing shoulders to 93%
Mod AASHTO density cubic metre (m³)
- (b) Extra over subitem (a) for adding extra material cubic metre (m³)
- (c) Extra over for subitem (a) for stabilizing material cubic metre (m³)
- (d) Haulage and placement of gravel shoulder material from DRE stockpile cubic metre (m³)

The unit of measurement for subitem B34.23 (a) shall be the cubic metre of material to be reworked for the reinstatement of gravel shoulders adjacent to surfaced roads.

The tendered rate shall include full compensation for ripping the existing shoulder material, breaking down, watering, mixing of the material including any extra material added, compacting the material, including removal of 5 % by volume of oversize material and transporting it over a distance of 1,0 km.

The unit of measurement for subitem (b) shall be the cubic metre of material added to the existing gravel shoulder to make up any shortfall of material for reconstruction of shoulders. The quantity of extra material added shall be taken as 70% of the volume of hauling trucks. The tendered rate shall include full compensation for procuring the material from borrow pits, placing and spreading the material over the existing shoulders including transporting the material within a free-haul distance of 1,0km and removal of 5 % of volume of oversize material and transporting it over a free-haul distance of 1,0km.

The unit of measurement for subitem (c) shall be cubic metre of material stabilized if required by the Engineer at the required rate. The tendered rates shall include full compensation for procuring materials as specified, labour, transport and for adding and mixing cement to in-situ or imported material as required by the Engineer.

The tendered rates for subitem (d) shall include full compensation for haulage and placing of the material from the nearest DRE stockpile.

Item	Unit
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B34.24 Removal of edge build-up

- (a) Remove material and load for spoil (1m wide)kilometre (km)
- (b) Remove material and dispose of adjacent to road (1m wide)kilometre (km)

The unit of measurement shall be the kilometre of silted-up material removed from the edges of the road shoulder along surfaced roads on instruction from the Engineer.

The tendered rates shall include full compensation of all overheads, labour, tools and equipment for the execution of the work.

The tendered rates must also include for loading, transporting, offloading and spreading the material at approved spoil sites, including a free-haul distance of 1,0 km.

B34.26 Extra-over Item B34.01 for relocation of plant when regravelling in short lengths of up to 1km
Number (No)

Regravelling in short lengths will be defined as regravelling as per Item B34.01, but in continuous lengths of not more than 1km.

The unit of measurement shall be the number of times plant is relocated from one borrow pit to another.

The tendered rate shall include full compensation for all the activities and resources required to move plant from one borrowpit to the next. This item will only come into effect in instances where regravelling in short lengths of up to 1 kilometer is instructed by the Engineer. Payment will not be made under this item for gravel patching.”

SECTION 5100 PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION

B5101 SCOPE

Amend the first the first paragraph to read:

“This Section covers the furnishing of materials and the construction as well as maintenance activities of a protective covering in stone pitching, cast in situ concrete pitching, bricks or prefabricated concrete blocks on exposed surfaces such as earth slopes, drains and stream beds, as well as heavier protective layers in the form of riprap and the construction of stone masonry for walls, as well as shown on the drawings or as ordered by the Engineer.

The Routine Road Maintenance Procedures Manual (RRMPM) of the Department of Transport of the Eastern Cape describes the causes and type of defects, as well as providing a guide on how to conduct the works as indicated below.”

B5108 MEASUREMENT AND PAYMENT:

Add the following new item:

Item	Unit
B51.08 Demolition of stone pitching and masonry walls	
(a) Stone pitching.....	cubic metre (m ³)
(b) Stone masonry walls.....	cubic metre (m ³)

The unit of measurement shall be the cubic metre of stone pitching or masonry wall demolished.

The tendered rate shall include full compensation for all labour, plant and equipment required to demolish the existing structure and disposal of the demolition to an approved spoil site within a free- haul distance of 1km. For partial demolition, it shall also include for squaring out the exposed surface and preparing the existing surface for repair or to tie into new construction work.”

SECTION 5200	GABIONS
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B5201 SCOPE

Add the following sentence to the first paragraph :

“This section will also cover all activities required to maintain and repair existing gabion structures.

The Routine Road Maintenance Procedures Manual (RRMPM) of the Department of Transport, Eastern Cape describes the causes and type of defects, as well as providing a guide on how to conduct the works as indicated below.”

B5205 MEASUREMENT AND PAYMENT:

Add the following new item:

Item	Unit
B52.05 Dismantle and remove gabion structures	(m³)

The unit of measurement shall be the cubic metre of gabion structure dismantled / demolished and removed to spoil.

The tendered rate shall include full compensation for all labour, plant and equipment, as well as all incidentals required to demolish the existing structure and disposal of the demolition to an approved spoil site within a free-haul distance of 1km.”

SECTION 5400 : GUARDRAILS

B5402 MATERIALS

(a) Reflective Plates

Add the following:

“Missing reflective plates along guardrails are to match the existing or as per the standard details, as specified by the Engineer.”

B5403 CONSTRUCTION

(c) Painting

Add the following:

“No guardrails are to be painted.”

B5409 MEASUREMENT AND PAYMENT

Add the following items:

Item	Unit
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B54.14 Adjusting spacer blocks and tightening bolts number (No)”	
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The unit of measurement shall be the number of spacer block sets that are adjusted and re-aligned, along with the bolts through the spacer block set being tightened. The number shall be agreed with the Engineer prior to this activity commencing.

The spacer blocks shall be aligned to the vertical, as per the specification, with the bolt being tightened accordingly.

The rate shall include for all labour, material, tools, accommodation of traffic, etc. to undertake this activity.”

Item	Unit
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B54.08 Renovating Guardrails	
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(c) Cleaning and painting (m)”	
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Treatment of existing rusted guardrails by removing all loose paint and rust using a wire brush, preparing surface for prime coat, applying prime coat to clean and dust free metal surface, applying two coats of Plascon Wall and All “Mines Grey” paint (or similar approved), to front and back of guardrail sections (prime coat and finishing coats to be applied to the manufacturer's specifications)

SECTION 5500	FENCING
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B5501 SCOPE

Add the following sentence to the first paragraph:

“This Section will also include for all activities required to repair and maintain existing fences and gates.”

B55.14 MEASUREMENT AND PAYMENT

Item	Unit
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B55.02 Supply and erect new fencing material

Add the following clause :

(j) Dipping of wire in yellow paint..... meter (m)

“The tendered rate shall be meter of smooth fencing wire or barbed wire dipped into a yellow oil based paint. The rate is to be inclusive of all materials, plant and labour complete to dip and dry the wire strands.

Item	Unit
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B55.03 New gates

(a) Gates (size and type indicated)Number (No)

(b) Motor Grid Gates (size and type indicated)Number (No)

Add the following:

“The tendered rates for motor grid gates shall include full compensation for procuring and furnishing all materials including concrete, formwork, rails, mild steel plates, reinforcing, stone packing and jointing material and for installing the gates complete as specified and detailed on the drawings. The concrete approach slabs, including the underlying sub base, shall be deemed to form part of the grid gate and will not be measured separately for payment. Fencing and gates adjacent to the grid gate will be measured and paid for separately and any drainage works that may be required will be measured and paid for under Section 2200.

Payment shall distinguish between the various types of motor grid gates shown on the drawing.”

Add the following subitem:

Item	Unit
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B55.05 Dismantling existing fences

“(c) Motor grid gates number (No.)”

Add the following to the measurement and payment clause:

“The unit of measurement for motor grid gates shall be the number of grid gates dismantled on the instruction of the Engineer.

The tendered rate for grid gates shall include full compensation for dismantling a motor grid gate complete including the breaking down and removal to spoil of all concrete or brickwork, approach slabs, rails, poles and wiring, the backfilling and compaction of all holes and the reinstatement of the road to its line, level and width. The provision of wearing course material, if required will be paid for separately.”

SECTION 5600 : ROAD SIGNS

B5603 MANUFACTURING OF ROAD SIGN BOARDS AND SUPPORTS**(a) Road sign boards***Add the following:*

“The Contractor shall ensure that the signs and supports supplied by the manufacturers are correct in all respects.”

(f) Road sign supports*Add the following:*

“All the ground-mounted signs shall be supported on creosote timber pole supports.”

*Add the following new sub clauses:***(h) Chromadek sections**

“Chromadek sections shall be assembled in accordance with the details of the standard plans.

Where joints are approved by the engineer, they shall be constructed in accordance with the details shown on the standard plans and shall be covered on the rear face after assembly with a 20mm wide PVC corrosion protection tape. The PVC tape shall be covered by a 60mm wide self-adhesive aluminium backed strip such as “Bostik Dit-Sit” or approved equivalent, all as indicated on the standard plans.

Retro-reflective material shall be applied to the section as specified for Aluminium Sections in Clause 5603(d) of the Standard Specifications, with the following additional requirement:

Where the letters or legends cross the horizontal joints of the sign panels the lettering or legend shall be cut along the joint and trimmed just short of the 3mm radius bend on the section.

(i) Fastening details

All fastening details to join the sign sections, to edge the assembled sign panel and to fasten the completed panel on to the timber supports shall be constructed in accordance with the details shown on the standard plans.”

(j) Date of erection and sign identity number

The manufacturer's name, month and year of erection of the sign shall be placed in the bottom left-hand corner when facing the back of the sign. An eleven (11) digit identity number supplied by the engineer shall also be placed on the back of the sign above the date of erection. All lettering shall be 50mm high and shall be manufactured from 7 year cast enamel scotchcal or equivalent. All lettering will be located such that it is visible from the shoulder of the road. No reflective paint or reflective material will be permitted on the back of sign faces.

Single signs such as R and W series signs shall only have the manufacturer's name, date and month placed on the back.

B5604 ROAD SIGN FACES AND PAINTING*Add the following new sub clauses***(e) Application of retro-reflective material**

All sign faces shall be faced with retro-reflective material. Painted front sign faces shall not be used. Colours, symbols, legends and borders shall comply with the regulations of the applicable Road Traffic Act, the South African Road Traffic Signs Manual, SABS 1519-1990, and the details shown on the Plans.

Where applied to Chromadek Sections retro-reflective material shall be applied as specified for aluminium sections in Clause 5603(d) of the Standard Specification, and of Clause B5603(h) of this Project Specification.

(f) **Silkscreening**

Silkscreening or inking over retro-reflective materials shall not be acceptable.

B5605 STORAGE AND HANDLING

Add the following:

“The following shall not be allowed on the sign face:

- (a) Drilling of holes
- (b) Application of any form of adhesive
- (c) Cleaning with any chemicals that are not specifically approved by the manufacturer of the retro- reflective material, and
- (d) Covering the sign face with an impermeable material that does not allow free circulation of air.

B5606 ERECTING ROAD SIGNS

(a) **Position**

Add the following:

“All signs are to be placed, where practically possible, at the “preferred” location as indicated in the table on drawing ECS/56/1/C1. Variations will only be allowed if the topography does not allow the sign to be placed in the preferred position.”

(d) **Field Welding**

Replace the contents of this clause with the following:

“No welding shall be allowed during the erection of any road signs.”

(e) **Time of Erection**

Replace the contents of this clause with the following:

“Road signs shall be erected during and without disrupting the normal free flow of traffic.”

Add the following new sub clause:

(h) **Fixing of signs to poles**

All sign faces will be affixed to the pole by means of clamps as indicated on drawing. An additional mild steel clamp (“ready-bar”) will also be installed, together with one galvanised steel bolt fixed through the pole, as indicated on drawing CS/G/6/5.

W401 and W402 signs will only be affixed by means of two galvanised steel bolts through the face of the sign and pole.

B5609 MEASUREMENT AND PAYMENT

Item

Unit

B56.01 Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or in Class 1 retro-reflective material, where the sign board is constructed from:

(c) **Pre-painted galvanised steel plate (1.2mm chromadek or approved equivalent)**

Replace subitems (i) to (iii) with the following:

“(i) Sign type and size to be specified separately number (No)”

Replace the first paragraph after item (e)ii with the following:

“The unit of payment will be the number of completed sign boards.”

Add the following item:

Item	Unit
B56.04 Kilometer posts	

(a) **Painting existing kilometer posts** number (No) The unit of measurement shall be the number of kilometer posts painted.

The tendered rate shall include full compensation for all the labour, material and tools required for stripping all loose paint and debris, cleaning and preparing the surface, applying two coats of white road marking paint to clean and dust free concrete pipe base, applying two coats of yellow road marking paint to clean and dust free marker post, and painting number / letters with black enamel / road marking paint as per the specification F11 in the Routine Road Maintenance Manual.”

(b) **Supply and install new kilometer posts** number (No) The unit of measurement shall be the number of kilometer posts installed.

The tendered rate shall include full compensation for all the labour, material and tools required for construction of a new kilometer post complete, as per the specification F11 in the Routine Road Maintenance Manual.”

SECTION 5900 : FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS

B5904 MEASUREMENT AND PAYMENT

Delete item 59.01 and replace with the following new item:

Item	Unit
"B59.01 Finishing the road and road reserve	hectare (ha)

The unit of measurement shall be the hectare of road and/or road reserve completed as per the instruction of the Engineer.

The tendered rate shall include full compensation for clearing, trimming with a motor grader to the required slope, disposing of material, tidying and all other work to be done for finishing off the road and road reserve. Separate items have been scheduled for the following categories.

The finishing of the road reserve shall be measured in the following five categories :

- 1) Where the existing cross fall of the road reserve to be trimmed has a negative slope or is between 0 degrees and 15 degrees to the horizontal
- 2) Where the existing cross fall of the road reserve to be trimmed is between 15 degrees and 30 degrees to the horizontal
- 3) Where the existing cross fall of the road reserve to be trimmed is between 30 degrees and 45 degrees to the horizontal
- 4) Where the existing cross fall of the road reserve to be trimmed is between 45 degrees and 60 degrees to the horizontal
- 5) Where the existing cross fall of the road reserve to be trimmed is between 60 degrees and 75 degrees to the horizontal

Where the existing road side slopes are of such a nature that they cannot be trimmed and finished by using a motor grader, this operation will be conducted under Section 3300".

Add the following new sections (9100 to 15000):

SECTION 9100:	CONTROLLING VEGETATION GROWTH - CUTTING
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CONTENTS

B9101	SCOPE
B9102	EXECUTION OF WORK
B9103	QUALITY STANDARD
B9104	PAYMENT AND EQUIPMENT B9105
	MEASUREMENT AND PAYMENT

B9101 SCOPE

This Section covers the control of planted or natural grasses and vegetation by means of mechanical mowers on single and dual carriageway roads. It also includes vegetation cutting by hand.

B9102 EXECUTION OF WORK

Grass and all noxious and undesirable vegetation (of which the stem diameter does not exceed 50mm) shall be taken to be one and the same thing. Mowing of grass shall be classified into shoulder mowing and general mowing.

(a) Shoulder mowing

Shoulder mowing shall include the following:

- (i) Contiguous strips to the road surface The

widths of the strips are:

- Gravel shoulders: Gravel shoulders and side slopes over a width of 5,0m.
- Surfaced shoulders: Gravel round off and side slopes over a width of 3,0m.

The width of the strip shall be measured from the outer edge of the tarred surface, except where there is a concrete side drain continuous to the tarred surface. In the latter case it shall be measured from the outer edge of the concrete side drain.

- (ii) Grassed side drains

Any grassed or gravel side drain and any area between either concrete / tarred and concrete/tarred surfaces falling within the continuous strips.

- (iii) Culvert inlets and outlets including the removal of all cuttings to avoid creating blockages.
- (iv) Areas around trees and shrubs from the stem to a width of 0,5 m to 1,0 m outside the drip zone.
- (v) The median (if it exists)

The area between the two carriageways measured from surface to surface. This shall include for cutting under the branches and between the shrubs. Small intrusion shrubs shall be cut together with the grass and removed.

(b) General mowing

General mowing including intersections, covers all areas inside the road reserve including the road reserve of cross roads up to a distance extending to each side from the road, or as indicated in the Scope of Works, or the drawings or by the Engineer. Included are all the areas of shoulder mowing as described in sub clause 9102(a).

(c) Cutting around road signs, guardrails, marker boards, dangerous areas and sight triangles.

The Contractor shall cut all grass and weeds in designated areas in the road reserve, such as the sight triangles at intersections, the areas in front of and around road signs and kilometre

reference markers, and all other areas as specified and ordered by the Engineer. The dimensions and location of the areas in which the grass and weeds are to be cut shall be as specified, shown on the drawings or ordered by the Engineer.

No grass or other plant cuttings may be burnt in the road reserve or in the immediate vicinity of any road.

If any endangered species of plant are identified, the area shall be demarcated and no cutting shall be permitted within such demarcated area.

(d) Requirements

The following shall apply for any mowing and cutting operation:

- (i) The grass shall be mowed to a height of not less than 50 mm and not more than 125 mm measured above the surrounding ground level and removed.
- (ii) No distinction will be made between grass on flat areas or on slopes.
- (iii) When instructed by the Engineer, the Contractor shall be responsible for baling or the collection and disposal of all grass cuttings to the approval of the Engineer. Grass cuttings may be left in sparsely covered areas but shall be evenly distributed as directed by the Engineer.
- (iv) Concrete side drains shall be kept clear of grass spreading over the edges or growing in the joints. After removal of the grass, the concrete surfaces shall be swept clean of grass or other dirt which shall be removed to an approved dump site.
- (v) Where on the instruction of the Engineer cut grass is baled, the removal of the bales shall be undertaken at the same rate of progress as the baling operation. Bales shall not be left in drainage channels or be left in the road reserve for a period exceeding two days, or be left in the road reserve over weekends, or be left in the road reserve closer than 4 m from the edge of the tarred surface. At no time will the mowing operation be allowed to be more than 5,0 km ahead of the baling operation.
Baling will be paid for as an extra-over item.
- (vi) Certain areas around road signs, trees, large obstructions, under guard-rails, at wing walls and abutments, on steep slopes and in drainage trenches and dongas will not lend themselves to normal machine cutting and these areas shall be cut using alternative methods. The finished work shall provide a neat and evenly cut appearance with no isolated tufts of grass left remaining.
- (vii) In inaccessible areas, cutting by hand and cleaning shall keep up with the mechanical mowing. At no time shall the mechanical mowers be allowed to be more than 5 km ahead of the labour finishing behind.
- (viii) Grass flattened by implements during the mowing and cutting process shall be cut by hand.
- (ix) No grass or other plant cuttings may be burnt in the road reserve or in the immediate vicinity of any road.

B9103 QUALITY / STANDARD

Vegetation shall be cut to the required height and mowing done evenly without abrupt changes or breaks.

Hedges shall be trimmed with sides slightly wider at the bottom and tops cut flat to not less than the required height.

Areas shall be left neat and tidy with all vegetation cuttings removed where instructed.

B9104 PLANT AND EQUIPMENT

The mechanical mowers shall be in good order and fitted with a boom mounted flail cutting attachment to cut vegetation on slopes. The mower shall be fitted with two high intensity amber flashing lights which shall be visible from both the front and the rear of the vehicle.

Safety precautions must be taken to ensure that the mower does not project or propel any stone or object which may cause injury to persons or damage to public vehicles.

Hedges shall be trimmed by approved equipment consisting of a rotating disc and blades mechanism.

Provision shall be made for one flagman to accompany each motorised mower, as well as for all signage required as indicated in the Routine Road Maintenance manual. Flagman on duty must be provided with reflective safety jackets and a red flag made of durable cloth and fastened to a staff 1,0m long. The flagmen shall thoroughly be trained to carry out the flagging procedure required for the mowing activity to ensure that the travelling public respects warnings given by them.

The mower shall as far as possible always operate in the direction of traffic flow and the flagman shall maintain a distance of approximately 150 metres behind the mower.

B9105 MEASUREMENT AND PAYMENT

Item	Unit
-------------	-------------

B91.01 Mowing the grass

- | | | |
|-----|---|----------------|
| (a) | Shoulder mowing | |
| | (i) Reserve with dual carriageway..... | kilometre (km) |
| | (ii) Reserve with single carriageway..... | kilometre (km) |
| | (iii) Extra over (i) for baling | kilometre (km) |
| | (iv) Extra over (ii) for baling..... | kilometre (km) |
| (b) | General mowing | |
| | (i) Reserve with dual carriageway..... | kilometre (km) |
| | (ii) Reserve with single carriageway..... | kilometre (km) |
| | (iii) Extra over (i) for baling | kilometre (km) |
| | (iv) Extra over (ii) for baling..... | kilometre (km) |

The unit of measurement for mowing is the kilometre length of road, both sides and median (if applicable) inclusive. The length of road will be measured once along the centre line of the road, irrespective of the number of individual areas (i.e. contiguous strips or median) that needs to be mowed. Proportional payments may be made for work complying with the requirements of the specification.

The unit of measurement for baling is the kilometre length of road, both sides and median (if applicable) inclusive. The length of road will be measured once along the centre line of the road, irrespective of the number of individual areas (i.e. median) along which baling is done.

The tendered rate shall include full compensation for furnishing all plant, equipment and labour for each mow and baling operation, regardless of whether the grass is cut by machine or manual labour, and shall include all costs for raking into piles, picking up and disposal of grass cuttings, all as specified in clause B9102.

No separate payment will be made for cutting grass on steep or rocky slopes, around signboards, under guardrails etc. The tendered rate shall also include for removal of cut grass from all open drains of growth as specified in this section and the cutting of grass around road signs where applicable.

General mowing (and baling, if specified) shall always be from fence to fence within the road reserve, irrespective whether it is a single carriageway, dual carriageway or single carriageway in a future dual carriageway road reserve.

Item **Unit**

B91.02 Cutting of designated areas

(a) Road signs, reference marker boards, guardrails etcmetre square (m²) (b) Dangerous areas at intersectionsmetre square (m²) (c) Sight triangle at intersectionsmetre square (m²) (d) Extra over (b) for baling number (No) (e) Extra over (c) for baling number (No) The unit of measurement for subitem (a), (b) and

(c) is metre square as ordered by the Engineer.

The unit of measurement for subitems (d) and (e) is the number of areas at which baling of the grass took place.

No separate payment will be made for cutting grass on steep or rocky slopes.

The tendered rate shall include full compensation for furnishing all plant, equipment and labour for each mow and baling operation, regardless of whether the grass is cut by machine or manual labour, and shall include all costs for the raking into piles, picking up and disposal of grass cuttings, all as specified in clause B9102.

Where grass cutting is paid for under Item B91.01, no additional payment will be made under Item B91.02 for areas within the parameters of B91.01.

SECTION 10100: EMERGENCY STANDBY TEAM**CONTENTS**

B10101 SCOPE

B10102 EXECUTION OF WORK

B10103 MEASUREMENT AND PAYMENT

B10101 SCOPE

This Section covers the provision by the contractor of standby teams to provide emergency assistance for the normalisation of emergency events and emergency earthworks and layerworks repair.

B10102 EXECUTION OF WORK**(a) Emergency assistance**

The Engineer may call upon the contractor's staff for emergency assistance during, as well as outside, normal working hours, over weekends, or on public holidays. For this purpose the contractor shall maintain an emergency standby team, consisting of adequate staff and skilled level, who shall be available for call out at any time. The contractor shall keep the Engineer informed of the name, address and 24 hours contact telephone number of the supervisor on emergency standby duty who shall have access to any tools, equipment and transport ordered by the Engineer.

(b) Emergency standby team

The emergency standby team must at least consist of a supervisor and four labourers. The supervisor's management and skill level must be of such nature as to make informative decisions, effectively organise the team and be able to take the responsibilities inherent in the emergency assistance. The labourers must be able to effectively and efficiently operate the tools and equipment and be prepared to work as a team and accept orders from a higher authority.

The Contractor shall provide at least the number of standby teams as indicated in the Scope of Works. Each team shall be located optimally to minimise the responding time for emergencies.

(c) Emergency standby equipment

As a minimum the following tools and equipment shall be available, at any time, with each emergency standby team for emergency assistance:

EQUIPMENT REQUIREMENTS PER TEAM	
ITEM	QUANTITY
1 ton LDV and trailer	1
Portable battery operated flashing amber warning lights	6
Spot lamps	2
Fire extinguishers (capacity 9 litres – for petrol fires)	2
Grass fire fighting equipment (eg pole with wet sack)	6
Cattle prod	1
Chainsaw including all fuel, oils and safety equipment	1
Bow saw	1
Axes	2

EQUIPMENT REQUIREMENTS PER TEAM

ITEM	QUANTITY
Bush knives (two with long handles)	4
Block and Tackle (minimum strength of 1,5 ton)	1
Metal chain 8mm	10m
Rope (heavy duty)	2x30m
Shovels	3
Spades	3
Post hole digger (for sign posts)	1
Hand soil compactor	1
Forks	2
Rakes	2
Bass brooms	6
Step ladder (self supporting type) (min 2,0m)	1
Long handled shovels	2
150 mm angle grinder	1
Orange medical box	1
5 KVA generator with 2x 500W floodlights	1
Emergency road signs, barricades, cones etc	According to drawing
Protective day-glow clothing (reflective jackets, rain suits etc)	For all personnel
Firefighting trailer (1000 litre capacity)	1
TOOLS:	
Hammers (wood medium, 4 pound and 14 pound) Crowbar	3
Wood saw	1
Hacksaw (heavy duty, with spare blades)	1
Adjustable spanners (heavy duty)	1
Screw drivers	2
Pliers	2
Wire cutters	1
Metal file	1
	1
SUNDRIES:	
Bucket (and cloths)	2
Squeegee (with extendable handle) Water	2
containers (20 litres)	2
Gloves (heavy duty)	9 pairs

All of the above-mentioned equipment should be neatly packed into a trailer used specifically for the rendering of emergency assistance.

The trailer which is equipped with the 3,2m by 2,5m wide electronically illuminated high visibility sign shall be fully rigged with the necessary electrical power source and equipment to illuminate

flashing lights fitted at 300mm centres on the perimeters of the TR103 sign and TW336 warning signs and on the perimeter of the 3,2m by 2,5m panel.

The trailer and equipment shall be maintained and be available for use at all times. Ownership of the trailer and equipment shall revert to the Client on completion of the Contract.

Any other safety and emergency plant and equipment that may be ordered by the Engineer shall be paid for under Dayworks.

(d) Responding Time

Depending on the seriousness of the event for which emergency assistance is being called for, the emergency standby team shall report for duty where assistance is required, within the specific time, as indicated on the receipt of the instruction or else as per the Contract. The contractor shall take these requirements into account when deciding on the site of his labourers accommodation.

Any failure or neglect by the contractor to comply strictly with the provisions of this specification, or any omission or neglect by the contractor in adhering to or applying the principles as are described and inherent in this specification, shall be deemed to constitute as a warrant for the engineer to act in terms of the penalties as set out in the Scope of Works.

(e) Communication

The contractor is to ensure that communication between the Engineers' representative and the Contractors' representative is maintained 24 hours a day. This can be reached by means of the provision of cellular telephones to the responsible persons. The number of cellular telephones as indicated in the Scope of Works, are to be supplied to the Engineer. The cost of the Contractor's cellular telephone is to be included in Section 1300 and will not be paid for separately.

The contractor is to ensure that contact persons are available at the relevant contact numbers 24 hours a day.

B10103 MEASUREMENT AND PAYMENT

Payment under this Section will only be for maintaining the specified emergency teams and equipment on standby and for the call-out cost thereof. The execution of the work as needed or ordered by the Engineer will be paid for under the relevant sections.

Item	Unit
B101.01 Emergency standby	
((a) Emergency equipment purchased for the duration of the Contract.....	Sum (b) Emergency
equipment on standby	month
(c) Call-outcost	kilometre (km)

Payment under items (a) shall be made to the Contractor in full on supplying the specific emergency equipment to the satisfaction of the Engineer.

Payment under item (b) shall be made for each calendar month that the Contractor maintains the specific emergency team and equipment on standby to the satisfaction of the Engineer.

SECTION 10300 : EMERGENCY MAINTENANCE

CONTENTS

B10301 SCOPE

B10302 EXECUTION OF WORK

B10303 MEASUREMENT AND PAYMENT

B10301 SCOPE

This Section covers any emergency maintenance work that the Engineer may instruct the Contractor to undertake at short notice, with work commencing within 24 hours of notification.

B10302 EXECUTION OF WORK

The work will be undertaken in accordance with the relevant standard and Scope of Works, or as instructed by the Engineer. The Contractor is to commence work within 24 hours of being instructed by the Engineer. Should the Contractor not perform within the specified response and completion times or not conduct the said works with the due diligence, penalties will be applied as set out in the Contract.

The Contractor's attention is drawn to the fact that reinstatement work is generally restricted by its nature in confined working areas.

B10303 MEASUREMENT AND PAYMENT

Item		Unit
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(f)	B103.01	Percentage mark-up for emergency maintenance	percentage(%)
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All work ordered by the Engineer as "emergency maintenance" shall be executed in accordance with the requirements of the sections covering the work and shall be paid for under the relevant pay items.

However, the applicable rates used to conduct the "emergency maintenance" activities will be subject to a percentage mark-up by the contractor to cover the additional costs incurred to conduct the works outside his normal routine programme.

Depending on the nature of the said emergency, the maximum duration that the adjusted rates will be applicable, will be 5 days from the date of the instruction. From and including the sixth day the rates will revert to the tendered rates and the works will then be viewed as routine repair / maintenance activities.

If the said emergency is of such a nature that plant is required, the relocation cost of the plant will be paid for under dayworks and is not to be covered in the percentage mark up.

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B12001 SCOPE

This Specification covers the generic requirements for the effective implementation of an Environmental Management Programme (EMPr) for controlling the Impact on the environment during the road construction and maintenance activities. The purpose of the Environmental Management Specification is to help control those construction activities that can have potentially adverse environmental implications on the site and surrounding areas and to ensure that Environmental Legislation requirements are met. In short, the Environmental Management Specification describes good environmental practice principles which must be applied for the duration of the construction activities. Some specific activities may not take place during the works.

The Environmental Management Specification needs to be read in conjunction with any Environmental Authorisations and approved Mining Authorisations (including EMP's and Mine Plans) for materials sources as well as the conditions of any environmental authorisation issued by the Department of Economic Development, Environmental Affairs and Tourism (DEDEAT) and the Department of Mineral Resources (DMR) respectively. It should be noted that the authorisations and conditions of the DEDEAT and DMR are legally binding.

The Contractor is furthermore required to comply with other relevant legislation which may apply to the proposed activities. This may include, but not be limited to:

- (i) A water use license for water abstraction, issued in terms of the National Water Act (Act No 36 of 1998).
- (ii) A water use license for alterations to a river bank or permanent deviation of a stream flow, issued in terms of the National Water Act.
- (iii) A permit for atmospheric emissions produced by an asphalt plant, issued in terms of the National Environmental Management: Air Quality Act (Act No 39 of 2004).
- (iv) A permit for the removal or destruction of protected flora (plants and trees), issued in terms of the National Forestry Act (Act No 84 of 1998), National Environmental Management Biodiversity Act (Act 10 of 2004), the Provincial Nature and Environmental Conservation Ordinance (No 19 of 1974) and the National Environmental Management: Biodiversity Act Threatened or Protected Species Amendment Regulations (Act 10 of 2004).
- (v) An environmental authorization from the DMR for Borrow Pits, requiring approval of listed activities in terms of the NEMA EIA Regulations (2014)

B12002 INTERPRETATIONS

B12002.1 Supporting Documents

Where this specification is applicable, the following documents shall inter alia be read in conjunction with this document.

- (i) Statutory requirements of the National Environmental Management Act (Act No 107 of 1998) (NEMA) and regulations promulgated in terms of Section 24 of NEMA;
- (ii) Statutory requirements of the Regulation Notice 983 and 985 respectively, as per regulations 19 and 20 of the NEMA EIA Regulations (2014) and Regulation Notice 984 as per regulation 21, 22, 23 and 24 of the NEMA EIA Regulations 2014;
- (iii) Statutory requirements of the Minerals and Petroleum Resource Development Act (Act No 28 of 2002) (MPRDA);
- (iv) Statutory requirements of the National Water Act (Act No 36 of 1998) (NWA);
- (v) Statutory requirements of the National Forests Act (Act No 84 of 1998) (NFA);
- (vi) Statutory requirements of the National Heritage Resources Act (Act No 25 of 1999) (NHRA); and
- (vii) Statutory requirements of the National Environmental Management: Waste Act (Act No 59 of 2008) (NEMWA)

Note 1: In the Eastern Cape Province, the NEMA falls under the authority of the Department of Economic Development, Environment Affairs and Tourism (DEDEAT), whilst the licencing of Borrow Pits falls under the authority of the Department of Mineral Resources (DMR).

Note 2: Environmental Management Plans (EMP's) relating to the use of Borrow Pits used for road maintenance need to be authorised by the DMR in accordance with the requirements of the MPRDA and the NEMA EIA Regulations of 2014.

Note 3: The National Department of Environmental Affairs (DEA) is the relevant environmental authority for the temporary storage or treatment of hazardous substances, including sewage package plants and asphalt plants.

B12002.2 Applications

The provision of this Specification shall apply in respect of all Contractors, Sub-contractors and to any of their site personnel, workforce or suppliers, who are engaged in the execution of the works.

B12003 INTERPRETATIONS

DEDEAT	Department of Economic Development, Environmental Affairs and Tourism
DMR	Department of Mineral Resources
DWA	Department of Water Affairs
ECO	Environmental Control Officer
EIA	Environmental Impact Assessment
EMP	Environmental Management Plan
Environment	The surroundings within which humans exist and that could be made up of: the land, water and atmosphere of the earth; micro- organisms, plant and animal life; any part of combination of the aforementioned and the interrelationships among and between them; and, the physical, chemical, aesthetic and cultural properties and conditions of the foregoing that influence human health and wellbeing
Environmental Impact	The change to the environment, whether desirable or undesirable, that will result from the effect of a construction activity. An impact may be the direct or indirect consequence of a construction activity
Invasive Alien Vegetation	An undesirable plant growth which shall include, but not be limited to, all declared category 1 and 2 listed invader species as set out in the Conservation of Agricultural Resources Act (Act 43 of 1983).
MSDS	Material Safety Data Sheets
NO-GO Areas	Generally those areas outside the designated working areas, including but not limited to: existing services and infrastructure, occupied property; grave sites; cultivated lands, wetland areas, 'Special or Sensitive Environments' as defined in the EMP
RE	Resident Engineer
Topsoil	Natural soil covering, including all the vegetation and organic matter, with variable depth
Working Areas	Working areas are those areas required by the Contractor to construct the works, as approved by the Resident Engineer

B12004 OBJECTIVES OF THE ENVIRONMENTAL MANAGEMENT PROGRAMME

The Environmental Management Specification, which is in accordance with the Environmental Policy of the Client, is intended primarily as a management tool, for the guidance of the Consulting Engineers, the Contractor and his subcontractors.

The objective is to control the impacts firstly of materials, plant and facilities and secondly of construction activities on the surrounding environment. The effective implementation will ensure that the required works are conducted in an environmentally sound manner and that the negative impacts of the works are minimised or prevented. This Environmental Management Specification contains the necessary environmental requirements to the Contractor and his staff, including all sub-contractors and on-site workers are required to adhere to.

The Environmental Management Specification outlines structures and procedures to be implemented by the Contractor and his subcontractors to minimise and manage potential environmental impacts which the Contractor's construction related activities might have on the receiving environment.

An independent Environmental Control Officer (ECO) will be appointed by the Client to ensure that the Environmental Management Specification and approved EMP is being effectively implemented. The ECO shall undertake monthly site inspections, the results of which will be reported to the Client, the Consulting Engineer, the Contractor and the relevant government departments.

B12005 ROLES AND RESPONSIBILITIES

B12005.1 Responsibilities of the Resident Engineer

Specific to environmental management, the role of the Resident Engineer (RE) will be to ensure enforcement of the Environmental Management Specification, approved EMP and supplementary recommendations made by the ECO; review and approve the Method Statements submitted by the Contractor; and liaise with the Contractor, the ECO and DEDEAT on environmental matters as necessary.

Responsibilities of the RE will include, but not be limited to:

- communicating the advice of the ECO and/or contents of the ECO's reports;
- issuing site instructions where applicable;
- communicating to the ECO any new/amended construction activities;
- informing the ECO of any infringements/accidents or incidents that have occurred on/off site;
- implementing any Temporary Work Stoppages where serious environmental infringements and non-compliances have occurred;
- issuing penalties as and when necessary; and,
- maintaining a record of complaints and communicating these to the Contractor and ECO.

Should the RE be of the opinion that the environmental management measures are not being adhered to, and that the appropriate corrective action is not being implemented, the RE, advised by the ECO, will be at liberty to instruct the Contractor to cease the related operations until the Contractor complies with the relevant requirements. The Contractor will not be entitled to any extension of time for such stoppages.

B12005.2 Responsibilities of the Environmental Control Officer (ECO)

The role of the ECO will be to independently monitor, review and verify the implementation of the EMPr and liaise with the RE and/or Client, and DEDEAT to confirm the level of compliance achieved and make appropriate recommendations on improvements/actions required.

The responsibilities of the ECO will include, as a minimum:

- advising the RE on the interpretation and enforcement of the Environmental Specifications;
- assisting with the review of Method Statements;
- demarcating particularly sensitive areas;
- monitoring any basic physical changes to the environment as a consequence of the construction works- e.g. evidence of erosion, dust generation and littering;
- undertaking monthly site inspections on the level of compliance to the EMPr demonstrated by the Contractor and submitting reports to the Client, Consulting Engineer, Contractor and to the relevant government departments;
- undertaking any damage assessments with the RE where incidents, accidents and/or serious infringements have occurred on/off site, and advising on remedial actions required; and
- appropriate and communicating these changes to the Resident Engineer and Contractor.

B12005.3 Responsibilities of the Contractor

The Contractor will be contractually required to undertake his activities in an environmentally responsible manner. The role of the Contractor will include the following, at a minimum:

- to implement the Environmental Management Specification and approved EMPr (and any subsequent revisions) for the duration of the construction related activities;
- to appoint an Environmental Officer for the daily implementation and monitoring of activities;
- to provide reasonable resources for the effective control and management of environmental risks associated with the construction related activities, as per the EMPr;
- to assign tasks to personnel as necessary and ensure appropriate accountability and responsibility is assigned to enable the carrying out of these duties;
- to maintain incident, training and other relevant administrative records; and
- to ensure all personnel, sub-contractors and other workers appointed by the Contractor are aware of the environmental responsibilities on site.

These roles will, at a minimum, translate into the following environmental responsibilities:

- be familiar with the contents of the Environmental Management Specification, approved EMPr and to comply with the EMPr;
- submit the necessary Method Statements and plans to the RE for approval;
- review the ECO Reports and undertake corrective actions for non-compliance and take cognisance of the information/recommendations made;
- notify the RE immediately in the event of any accidental infringements of the Environmental Management Specifications and ensure appropriate remedial action is taken;
- notify the RE in advance of any amendments/changes to the proposed work activities to enable environmental impacts to be confirmed and mitigation measures identified; and
- maintain records – e.g. photographic records, complaints records, training records and incident records.

B12005.4 Responsibilities of the Environmental Officer

The Contractor shall on commencement of the Project appoint an Environmental Officer who, in addition to his normal duties, shall have direct responsibility for the implementation and monitoring of the Environmental Management Specifications and the approved EMPr. The Environmental Officer cannot be the Site Agent (Contract Manager).

The Environmental Officer shall liaise with the RE, the ECO and the Contractor, in order to ensure effective implementation of the Environmental Management Specification and EMPr at site level. The Environmental Officer will be responsible for the practical implementation and daily monitoring of the Environmental Management Specification and EMPr and shall report to the Contractor and RE in this regard. The Environmental Officer shall daily inspect and monitor operations on and off site and shall take the necessary action where required to ensure compliance with the environmental management requirements. The Environmental Officer shall attend all regular site works meetings for reporting, discussing and reviewing the performance of the Contractor (which shall be a standard item on the agenda).

B12006 METHOD STATEMENTS

The Contractor shall be required to submit Method Statements to the RE outlining proposed construction activities, phasing and procedures and methods to comply with the targets stipulated in the Environmental Management Specification and any EMP's. Method Statements shall, where applicable, include Site Establishment Drawings with sufficient detail to assess the potential impact of the site facilities or to assess the degree of safeguarding provided against pollution.

Sections 12007 to 12015 below need to be addressed in the Method Statements

Method Statements shall indicate how the procedures will be applied in order to meet the relevant targets and are central to the proper implementation of the Environmental Management Specification and EMPr. It is anticipated that in addition to assessing the systems and performance of the Contractor, the ECO will monitor the Contractor's adherence to Method Statements.

Method Statements must be submitted at least 10 days prior to the proposed commencement of related activities and must be approved by the RE, in consultation with the ECO. The Environmental Officer shall keep copies of these Method Statements and letters of approval (including conditions attached) in an Environmental file.

Any deviations from the approved Method Statements must be submitted to the RE for approval and in consultation with the ECO.

The following Method Statements shall be submitted by the Contractor 10 days prior to commencement:

- (i) Layout and preparation of the construction camp including facilities required for personnel and plant;
- (ii) Storage and Handling of Materials, including cement/concrete, asphalt, and hazardous substances;
- (iii) Waste management and pollution prevention, including solid waste, hazardous waste and contaminated water;

- (iv) Operational activities, including stockpiling, dust control, control of erosion during bulk earthwork operations, water abstraction and construction water;
- (v) Construction methods including vegetation clearing, road bed preparation and blading, drainage management, material sources, construction of bridges and culverts and site rehabilitation;
- (vi) Statutory Requirements including obtaining relevant permits
- (vii) Public and Worker Health and Safety
- (viii) Environmental Awareness and Training
- (ix) Emergency Procedures for spillage procedures, including hydrocarbons, and compounds to be used and fire prevention/management;

B12007 PLANT AND FACILITIES

B12007.1 Site camp

All site establishment components (as well as equipment) shall be positioned to limit visual intrusion on neighbours and the size of area disturbed.

The Contractor shall provide the RE with a plan of the site camp showing the layout I positioning of all infrastructure including wash bays, fuel storage areas, materials storage areas, sewage infrastructure and buildings. The Contractor shall maintain a map of the site layout that indicates where the wash bays, fuel storage areas, topsoil sites etc are located. The RE must approve this in consultation with the ECO.

Where site camps are to be established the feasibility of removing topsoil from the site before site establishment, shall be investigated by the ECO. Removed topsoil should then be stockpiled for use in rehabilitation of the site camp.

The site camp shall not be located in an environmentally sensitive area. The site shall be located >100 m from a watercourse or wetland.

All water requiring discharge, including wastewater from kitchen and ablution facilities should be led to soak pits or discharged in a manner approved by the RE and in compliance with the National Water Act. No wastewater shall be discharged into rivers or streams.

Site camps and surrounds shall be maintained in a clean, tidy and orderly condition at all times.

The Contractor shall restore the site camp to its former condition upon completion of the works. This will include removal of all rubble and foundations, loosening of compacted soils and re-establishing groundcover. Where a homestead has been used as a site camp, the Contractor may be required to renovate the buildings to its former or better condition as agreed with the landowner once the works are complete.

B12007.2 Lights

The Contractor shall ensure that any lighting installed on the Site for his activities does not interfere with road traffic or cause a reasonably avoidable disturbance to the surrounding community or other users of the area. Lighting installed shall be down lighting.

B12007.3 Workshop, equipment maintenance and storage

Where practical, all maintenance, including servicing and repairs, of equipment and vehicles on Site shall be performed in the workshop. If it is necessary to do maintenance outside of the workshop area, the Contractor shall obtain the approval of the R E prior to commencing activities.

The Contractor shall ensure that in his workshop and other plant maintenance facilities, including those areas where, after obtaining the RE's approval, the Contractor carries out emergency plant repairs there is no contamination of the soil or vegetation.

The workshop shall have a smooth impermeable concrete floor. The floor shall be bunded and sloped towards an oil trap or sump to contain any spillages of substances (e.g. oil).

When maintaining and servicing equipment, drip trays shall be used to collect the waste oil and other lubricants.

Drip trays shall also be provided in construction areas for stationary plant {such as compressors) and for "parked" plant (such as scrapers, loaders, vehicles).

All vehicles and equipment shall be kept in good working order and serviced regularly. Leaking equipment shall be repaired immediately or removed from the Site.

The washing of equipment shall be restricted to urgent or preventative maintenance requirements only. All washing shall be undertaken in a wash bay area which must be equipped with a suitable impermeable floor and sump/oil trap. The use of detergents for washing shall be restricted to low phosphate and nitrate containing, low sudsing-type detergents.

B12007.4 Drinking water

Water for drinking purposes should be obtained from a designated municipal supply, or an approved source of treated water.

B12007.5 Ablution facilities

A sufficient number of chemical toilets shall be provided by the Contractor in the construction camp area and at appropriate locations agreed by the RE. The ratio of toilets to site staff shall not exceed 1:20, and the closest toilet shall never be further than 50m away from the area where work is currently under way.

Toilets shall not be located in river courses or flood plains.

Washing, whether of the person or of personal effects and acts of excretion and urination are strictly prohibited other than at the facilities provided.

All temporary/portable toilets shall be secured to the ground to the satisfaction of the RE to prevent them toppling due to wind or any other cause.

All toilets are to be maintained in a clean, sanitary condition. The Contractor shall be responsible for cleaning, maintenance, servicing and emptying the toilets on a regular basis. The Contractor shall supply adequate toilet paper at all toilets.

The Contractor shall ensure that no spillage occurs when the toilets are cleaned or emptied and that the contents are properly stored and removed from Site.

Discharge of waste from toilets into the environment and burial of waste is strictly prohibited. Conservancy tanks may be used only once the soil conditions have been checked and found to be suitable. Septic tanks may not be used.

B12007.6 Living Accommodation

Living accommodation for workers on Site should comply with minimum standards.

All temporary structures shall be removed and the area rehabilitated on completion of the works.

The Contractor shall designate eating areas for his employees. The Contractor shall provide bins with secure lids in these areas.

The source of energy | fuel for use by the workers residing in the area must be clearly specified. There must be no collection of wood outside the designated area.

B12008 MATERIAL HANDLING AND STORAGE

B12008.1 Materials handling, use and storage

The Contractor shall ensure that any delivery drivers are informed of all procedures and restrictions required to comply with the Environmental Management Specifications of the EMPr.

The Contractor shall ensure that these delivery drivers are supervised during off-loading by the Contractor's Environmental Officer.

Materials shall be appropriately secured to ensure safe passage between destinations. Loads including, but not limited to sand, stone chip, fine vegetation, refuse, paper and cement, shall have appropriate cover to prevent them spilling from the vehicle during transit. The Contractor shall be

responsible for any clean-up resulting from the failure by his employees or suppliers to properly secure transported materials.

All lay down areas for manufactured/imported material shall be incorporated inside the construction camp as approved by the RE. In the event that additional areas outside of the construction camp be required, this shall be subject to the RE's approval (in consultation with the ECO), which shall not unreasonably be withheld.

Fuel lubricants, solvents, paints, and other chemicals must be stored within the Contractor's camp in a facility secured with lock and key. Storage should be on a bunded, impervious site (secondary containment).

B12008.2 Storage and Handling of Hazardous substances

Hazardous chemical substances (as defined in the Hazardous Chemical Substances Regulations, Regulation 1179 of 1995 in terms of the Occupational Health and Safety Act) used during construction shall be stored in secondary containers and in an impermeable bunded area.

The relevant Material Safety Data Sheets (MSDS) shall be available on Site.

Procedures detailed in the Method Statement for Emergency Incidents shall be followed in the event of an emergency situation.

Potentially hazardous substances shall be stored, handled and disposed of in a suitable manner.

B12008.3 Fuel (petrol and diesel), oil and hydraulic fluids

The Contractor shall ensure that all fuels and chemicals are handled and stored in a manner so to minimise the risk of spills, leaks or structural failures and in compliance with SANS 10089.

Fuel may be stored on Site and the fuel storage area shall be located at the workshop or a fuel storage depot located within the construction camp. The area is not to be within 100m from a water resource.

The Contractor shall ensure that all liquid fuels (petrol and diesel) are stored in tanks with lids, which are kept firmly shut or in bowsers.

The tanks/bowsers shall be situated on a smooth impermeable surface (sealed concrete) base with an impermeable bund (no plastic may be used). The impermeable lining shall extend to the crest of the bund and the volume inside the bund shall be 110% of the total capacity of all the storage tanks I bowsers.

The bunded area shall have a roof covering to prevent the ingress of rain water. The Contractor shall prevent unauthorised access into the fuel storage area.

The Contractor shall have on Site all the necessary materials and equipment (i.e. spill kits) to deal with spills of any of the substances stored on Site.

The Contractor shall set up a procedure to deal with a spillage or pollution event; this is to include immediate communication with the RE and ECO. A number of the Contractor's staff shall be appropriately trained to deal with any minor spills or pollution threat.

No smoking shall be allowed within the vicinity of the fuel storage area.

The Contractor shall ensure that there is adequate fire-fighting equipment at the fuel stores. Gas and fuels shall not be stored in the same storage area.

Where reasonably practical, plant shall be refuelled at the depot or at the workshop as applicable. If it is not reasonably practical then the surface under the refuelling area shall be protected against pollution to the reasonable satisfaction of the RE prior to any refuelling activities.

The Contractor shall ensure that there is always a supply of absorbent material readily available to absorb/breakdown and where possible be designed to encapsulate minor hydrocarbon spillage. The quantity of such materials shall be able to handle a minimum of 200 litre of hydrocarbon liquid spill. This material must be approved by the RE prior to any refuelling or maintenance activities.

Drip trays shall be inspected and emptied daily into a hazardous waste container, and serviced when necessary. Drip trays shall be closely monitored during rain events to ensure that they do not overflow and a small spill absorbent sock should be placed within the drip tray for such occasions.

The appropriate signage must be erected at the diesel bowser and workshops.

B12009 WASTE MANAGEMENT

B12009.1 Prevention of Pollution

The Contractor should ensure that pollution of the soil or water {i.e. surface and ground} does not occur as a result of any activities on Site. Pollution could result from the release, accidental or otherwise, of chemicals, oils, fuels, sewage, wastewater containing kitchen waste, detergents, solid waste and litter, etc. Specific measures to be taken to prevent the pollution of the environment include:

- Immediately report and manage any leakage or spillage with appropriate spill contingency equipment and measures.
- All fuels, oils, lubricants and other petrochemical products must not be stored within 100 meters of any wetlands and rivers.
- Maintenance of vehicles must only take place in a designated workshop with a concrete base and drip trays for the collection of waste lubricants. Emergency maintenance vehicles must be equipped with drip trays and absorbent material, such as spillsorb, to collect and contain waste oils.
- No rock, silt, cement, grout, asphalt, petroleum product, timber, vegetation, domestic waste, or any deleterious substance should be placed or allowed to disperse into any stream, river, pond, storm or sanitary sewer, or other watercourse.
- Ensure all construction equipment is free of leaks from oil, fuel or hydraulic fuels and is cleaned in an area with a suitable controlled runoff.
- Refuelling activities should not be conducted where runoff could carry contaminants into drainage pathways (including stormwater drains/trenches and sewers).
- Washing of vehicles must be kept to a minimum and must only take place in a designated area on an impervious surface which drains into an oil sump.
- Cleaning out of concrete mixers and trucks must take place on a properly designated site where there is no opportunity for the pollution of water bodies.

B12009.2 Solid waste management

No on-site burying or dumping of any waste materials, vegetation, litter or refuse shall occur.

All recyclable rubble and waste, for example, scrap metal, bottles, cans and plastics are collected and disposed of through a registered recycling company.

Recyclable waste, including glass, paper and plastic must be separated at the construction camp, stored and recycled, where economically feasible.

All non-recyclable rubble and solid waste be collected and disposed of at a registered waste disposal facility.

The Contractor shall provide sufficient bins with secure lids on Site to store the solid waste produced on a daily basis. Bins shall not be allowed to become overfull and shall be emptied a minimum of once daily.

The waste may be temporarily stored on Site in a central waste area that is weatherproof and scavenger-proof, and which the RE has approved.

No burning of refuse is permitted.

All solid waste shall be disposed of off-site at least once weekly at a registered landfill site. The Contractor shall supply the RE with a certificate of disposal.

B12009.3 Disposal of Hazardous Waste Material

The objectives of the Minimum Requirements for the disposal of a Hazardous Waste are to:

- ensure that any adverse impact on the environment is minimised;
- prevent hazardous substances leaching or moving into the environment, in particular the ground and surface waters;
- ensure that Hazardous Waste is disposed of in accordance with the class and the Hazard Rating;
- to act as a mechanism ensuring the disposal of Hazardous Waste in an orderly manner, thus avoiding detrimental effects both in the short- and long-term to man and to the environment.

Hazardous materials used on site may include Cement, Shutter Oil, Asphalt, Retro-reflective Road paint, Lime, Petrol/diesel/lubricants/hydraulic fluids, used oil, Creosote (pre-treated poles), Herbicides and ant poison, Epoxies and epoxy resins, Coatings and Grouts.

The Contractor shall have in place a hazardous waste management system, which shall include collection facilities to be used to prevent pollution, as well as suitable methods of disposal of hazardous waste.

No hazardous material shall be disposed of on site or left behind on completion of works.

Any waste hazardous material shall be disposed of in an appropriate manner as per the material safety data sheet specifications.

B12009.4 Contaminated water

The Contractor shall set up a contaminated water management system, which shall include collection facilities to be used to prevent pollution, as well as suitable methods of disposal of contaminated water.

The Contractor shall notify the RE immediately of any pollution incidents on Site.

The Contractor shall prevent discharge of any pollutants, such as cements, concrete, lime, chemicals and fuels into any watercourses or stormwater channels.

Water that has been contaminated with suspended solids, like soils and silt may be released into natural watercourses or stormwater channels provided that the minimum regulatory requirements in terms of the NWA are met. However, all suspended solids shall be removed from water before it is discharged by settling out these solids in settling ponds.

B12010 OPERATIONAL ACTIVITIES

B12010.1 Working Areas

The road construction and associated activities may be conducted only in designated working areas. Limitation of these activities to specific working areas minimises the impact on the surrounding environment and facilitates control of the works. Sites should be divided into working areas and "no- go" areas:

- Working areas are those areas required by the Contractor to undertake the works and as approved by the RE. These areas include the area of works, borrow areas and haul roads between the working site and borrow areas. If necessary, the working areas may be demarcated during the period. The Contractor and his staff are not permitted to move around outside the designated working areas. The Contractor shall ensure that, insofar as he has the authority, no person, machinery, equipment or material enters the "no go areas at any time.
- "No-go" areas are those areas outside of working areas. The Contractor shall erect and maintain permanent and/or temporary fences of the type and in the locations directed by the RE. Such fences shall, if so specified, be erected before undertaking designated activities.
- Within the overall working area, the RE shall designate specific areas for the following:
 - Site Camp.
 - Stockpiling and storage of construction materials.
 - Stockpiling of topsoil for rehabilitation purposes.
 - Spoiling of cleared vegetation (alien I invasive species).

- Sites for spoil materials.

B12010.2 Conservation and Stockpiling of Topsoil

Topsoil shall be removed from the following areas no longer than 10 days before construction begins:

- All areas to be excavated;
- Areas to be occupied by roads, including the temporary haulage road;
- Areas for the storage of fuels;
- Areas to be used for batching/mixing of concrete;
- Areas for stockpiling of construction materials;
- Areas for stockpiling of crushed rock; and
- Areas for spoiling material.

Topsoil shall be excavated to a minimum depth of 150 mm or to a maximum depth of 300 mm. Compaction of these topsoil stockpiles is not permitted. Where topsoil has been stored for longer than 12 months the Contractor shall turn the soils to maintain viability of the seeds and the soil properties.

The topsoil stockpiles shall be clearly demarcated and vehicle access restricted. The topsoil shall not be contaminated with any fuels, oils or other construction waste or materials.

Topsoil shall not be mixed with any other material (construction rubble, subsoils etc) and wind erosion of the topsoil stockpiles must be prevented.

Topsoil stockpiles shall not be higher than 2m with slopes of 1m vertical to 2m horizontal and convex (rounded) at the top.

B12010.3 Erosion Control

Soil erosion shall not be tolerated on the Site. Uncontrolled erosion will cause siltation and pollution of the stream and result in loss of valuable topsoil. The Contractor should take all reasonable measures to prevent soil erosion and protect areas susceptible to erosion. Erosion prevention measures must be implemented to the satisfaction of the RE.

Areas affected by construction related activities must be monitored regularly for evidence of erosion. Areas particularly susceptible to erosion include: areas stripped of topsoil, soil stockpiles and steep slopes (gradients >8%).

Soil erosion may result from a diversion, a restriction, or an increase in the flow of stormwater or river flow caused by the presence of temporary or permanent works, operations and activities. Where evidence of erosion appears, the construction of contour berms, cut-off drains or planting of indigenous grass species may be necessary.

The Contractor shall take reasonable measures to control the erosive effects of stormwater runoff. A cut-off drain(s) or low berm will be constructed where necessary to lead run-off rain water away from steep, exposed slopes, ensuring that the water does not flow over the slopes and cause erosion. Water from these drain(s) will be disposed of in such a way that the erosive force of the water in the drain(s) is dissipated and erosion does not occur at the drain discharge point(s).

Where erosion does occur the Contractor shall reinstate such areas and areas damaged by the erosion, at his own cost and to the satisfaction of the RE and ECO. Topsoil that has been washed away shall be replaced at the Contractor's expense.

The access and haul roads, after ripping, must be topsoiled and hydroseeded with an appropriate hydroseeding mix and the same specifications apply as in the other areas that require hydroseeding.

The order for the seeds must be placed timeously to ensure availability at the time required.

B12010.4 Dust Control

Dust is regarded as a nuisance when it reduces visibility, soils private property, reduces the palatability of grazing grasses and may retard plant growth. It is also aesthetically displeasing.

The Contractor shall be responsible for the control of dust arising from his operations and activities at all times. Control

measures could include regular spraying of working I bare areas with water, at an application rate that will not result in soil erosion or runoff.

Dust control is to be undertaken in compliance with SANS 69 and SANS 1929.

B12010.5 Noise Control

The Contractor shall limit noise levels (e.g. install and maintain silencers on machinery). The Contractor's attention is drawn to the applicable regulations framed under the Machinery and Occupational Safety Act, 1983 (Act No. 6 of 1983), as well as the requirements of the Occupational Health and Safety Specification which forms part of these documents.

All activities with high noise level should be restricted to daylight hours in the residential areas and in the proximity of villages.

The Contractor must discuss the timing of noise generating activities with the staff of schools located close to the road. Appropriate times for construction should be agreed to by both parties.

The Contractor shall inform the residents of any high noise events such as blasting. Contractor's camps should be located away from tourist operations and quiet rural villages. Crushing plants should be located as far as practical from residences, schools and social facilities.

B12010.6 Fire Prevention and Control

The Contractor shall take all the necessary precautions to ensure that fires are not started as a consequence of his activities on Site. The Contractor, subcontractors and all employees are expected to be conscious of fire risks. The Contractor shall hold fire prevention training with his staff to create an awareness of the risks of fire. Regular reminders to his staff on this issue are required.

The Contractor shall ensure compliance with the National Veld and Forest Fire Act (Act 101 of 1998). Smoking shall not be permitted in those areas where it is a fire hazard. Such areas shall include the workshop and fuel storage areas and any areas where the vegetation or other material is such as to make liable the rapid spread of an initial flame. In terms of the National Environmental Management: Air Quality Act (Act No 39 of 2004), burning is not permitted as a disposal method.

No fires may be made other than for the purpose of cooking, and must be extinguished with water once they have served their purpose. Cooking fires shall be contained in a fire drum in an area approved by the RE. No fires, including cooking fires, are permitted on "Red" days as per the Fire Danger Index.

The Contractor shall appoint a Fire Officer who shall be responsible for ensuring immediate and appropriate actions in the event of a fire and shall ensure that employees are aware of the procedure to be followed. The Contractor shall forward the name of the Fire Officer to the RE for his approval.

The Contractor shall ensure that there is adequate fire-fighting equipment (i.e. fire extinguishers and fire beaters) on Site and in all major working areas.

The Contractor shall be liable for any expenses incurred by any organisations called to assist with fighting fires and for costs involved in rehabilitation of burnt areas I property I persons, should the fire be the result of the Contractor's activities on Site.

Removed plant material shall not be dumped across the fence-line or along the fence-line onto private property. If an abutting land owner requests this the Client must be indemnified.

B12010.7 Blasting

All blasting is to be done in terms of the Mine Health and Safety Act (Act 29 of 1996) and explosive regulations (Occupational Health and Safety Act).

The Contractor shall notify nearby residents and erect appropriate signage, warning of the event, 14 days in advance any blasting. The Contractor is responsible for any accidental injuries to persons or property as a result of blasting.

Prior to blasting, the Contractor shall notify the relevant occupants of surrounding land and address any concerns. The Contractor shall notify emergency services, in writing, a minimum of 24 hours prior to any blasting activities commencing on Site.

A crack survey, including photographs, shall be undertaken of all existing structures within a distance of the blasting site specified by the RE. The survey shall be undertaken prior to any blasting activities in order to establish the baseline conditions, and following blasting or on receiving any complaints from the community. Structural damage to houses which has resulted from blasting must be repaired at the expense of the Contractor.

The Contractor shall prevent damage to special features and the general environment, including the removal of fly-rock. Damage caused by blasting/drilling shall be repaired to the satisfaction of the RE.

B12010.8 Water Abstraction and Construction Water

Water for construction purpose may be abstracted from rivers or other small streams crossing the road. The required licences must be obtained from the DWA prior to abstraction. The Contractor shall abstract this water from a temporary sump constructed adjacent to the river.

During water abstraction the Contractor shall take all reasonable measures to limit sedimentation of downstream watercourses due to his activities and shall ensure that the flow in the river is never reduced below 50% of ambient. The temporary sump shall be removed from the river as soon as practically possible.

Water for construction purposes should be obtained from an approved source. Unless approved by the local authority, the DWA or the landowner, water should not be extracted from nearby dams and rivers, and construction activities should not be conducted in or directly adjacent to rivers and dams.

Water is a scarce resource throughout South Africa and certain parts of the Eastern Cape Province are prone to water shortages during periods of drought. Water, whether drinking or for operational purposes must be used responsibly

B12011 CONSTRUCTION ACTIVITIES

B12011.1 Earthworks

All earthworks shall be undertaken in such a manner so as to minimise the extent of any impacts caused by such activities. No equipment associated with earthworks shall be allowed outside of the site and defined access routes unless expressly permitted by the RE.

B12011.2 Clearing of vegetation on verges and within road reserves

The Contractor shall minimise the extent of any vegetation removal other than necessary to complete the works. The contractor shall ensure that clearing of vegetation on verges and within road reserves is not done in a manner that will result in excessive environmental damage or result in erosion. The contractor shall ensure that unnecessary blanket clearing of vegetation is not undertaken.

Any blading on verges shall be undertaken in a manner that does not unnecessarily strip vegetation cover, which may increase erosion. Where possible, repeated blading of verges should not be undertaken, especially once vegetation regrowth has started.

Where areas become compacted during works they shall be lightly scarified to ensure that vegetation regrowth will occur and suitable cover will be obtained.

Where protected species are present the relevant permits must be obtained for removal or relocation before any works are undertaken, in consultation with the RE and ECO.

When removing alien trees, the contractor shall ensure that any stumps are removed, as these may resprout. Alien tree control must be undertaken in consultation with the ECO. The contractor shall ensure that when alien trees and weeds are removed it is undertaken in a manner that does not result in excessive spreading of seed or material that will spread.

Where reshaping or earthworks is required, topsoil with vegetation matter should be reapplied and spread on completion to maximise stabilisation and rehabilitation.

Where steep slopes or embankments are present that may be susceptible to erosion, appropriate stabilising methods should be implemented, including gabions, benching, hydroseeding, planting of sods, contouring and scarifying.

B12011.3 Drainage Management

The contractor shall ensure that appropriate measures are implemented when constructing drains, including side drains, mitre drains, pipes and culverts.

When constructing side drains the contractor shall ensure that the excess material in the road reserve next to the side drain is spread and levelled. The contractor shall ensure that the levelled material will not be washed back into the drain or into nearby watercourses. If it is not possible to spread the material, load and remove all excess material. The drain shall be finished off by hand and the ends of the mitre drains cleaned and all windrows levelled off.

The contractor shall ensure that the spacing of any mitre drains shall be done in consultation with the RE. These shall be at regular intervals to carry stormwater runoff away from the road, and disperse it in a manner as not to cause erosion or shall minimise erosion at the point of discharge. Mitre drains must be shaped to ensure that water is removed from the road surface and do not allow for the pooling of stormwater. Drain outfalls should discharge beyond the reserve boundary if possible and water discharged from mitre drains should not be able to return to the side drainage system further downstream.

Where erosion is problematic, suitable measures such as gabions and stone pitching and other appropriate measures shall be used to reduce erosion in consultation with the RE and ECO.

Where side drains are constructed along long steep inclines, erosion control measures shall be implemented to slow stormwater flow and also remove it from the side drain at appropriate and adequate intervals.

B12011.4 Bridges and Culverts

The Contractor shall minimise the extent of any damage to the flood plain or river banks other than necessary to complete the works, and shall not pollute the river systems as result of construction activities. No construction materials shall be stockpiled on the flood plain.

The Contractor shall not divert, dam or modify any watercourse or stream without the approval of the RE and ECO as well as approvals from Department of Water Affairs.

Care must be taken not to spill any fuel or hydraulic fluids in the vicinity of watercourses. Any spillages must be cleaned up immediately using standard Hazmat procedures.

The existing culvert bridge must be removed as soon as the new bridge has been completed and opened to traffic. Rehabilitation of the disturbed areas must be carried out in consultation with Working for Water.

Bridge construction and culvert installation should, where possible, be planned to take place during periods when stream flow is low.

Avoid operating machinery in water bodies. Excavation for a bridge or a large culvert should not be performed in flowing water. The water should be diverted around the work site during construction with a cofferdam or stream diversion. Any diversion of a stream requires a separate investigation and an environmental approval from DEDEAT and a water use license from DWS.

Avoid channel changes and protect the embankments of streams and rivers.

B12011.5 Road Bed Preparation and Blading

All road bed preparation and blading shall be undertaken in such a manner so as to minimise the extent of any impacts to the environment caused by such activities.

Stockpiled material shall be done in an appropriate manner in consultation with the RE and ECO and stockpiles along the road shall not be left for excessive periods of time, especially during rainy periods where fine material contained within the stockpile may wash into drains and watercourses.

Any excess material shall be spread evenly on completion of works or removed from the site.

Fine material accumulating in drains should be removed in areas where it may wash into watercourses and wetlands.
Windrows shall be appropriately sited and shaped on completion of works.

B12011.6 Material Sources (Borrow Pits)

The mitigatory measures in the Environmental Management Plans are to manage potential environmental impacts arising due to the construction activities as well as the activities of the construction staff. These mitigating measures are to be read in conjunction with the mitigating measures and recommendations contained in the approved EMP, including any additional recommendations contained in the Environmental Authorization (EA) from the DMR.

The Contractor shall ensure that the following measures are implemented when commencing works at a Borrow Pit:

- An Environmental Authorization or approved Environmental Management Plan from the DMR must be in place for the specific Borrow Pit;
- the DMR approved Mine Plan must be obtained to determine mine area and procedures to be followed;
- The works area to be used during contract to be determined and demarcated;
- Where fencing is required it shall be installed;
- any existing services (under/over-ground) to be identified and clearly demarcated. Any services requiring temporary realigning will be at the cost of the Contractor;
- any flora and fauna permits to be obtained and relocation carried out when necessary;
- determine mining procedure before commencing in consultation with RE and ECO;
- includes where topsoil and overburden to stockpiled;
- determine how face will be worked – benches or sloped so that closure objective will be reached;
- where necessary, berms must be created (using topsoil) where necessary – upslope for drainage or downslope where safety issues;
- locations of any nearby Heritage features (such as graves) to be determined and clearly demarcated and excluded from work area in consultation with the RE, ECO and any nearby communities;
- should it be necessary to store materials and equipment on site for short periods, only previously disturbed areas located >100 m from a watercourse/wetland should be used for this purpose;
- any construction camp set up should be clearly demarcated and secured against theft or vandalism and any hazardous materials (cement, oil, petrol, diesel, etc) should be very strictly controlled and secured. Such a construction camp should be located >100m from a watercourse/wetland and should be completely rehabilitated on completion of construction activities;
- no concrete shall be mixed on the soil surface, all concrete mixers to be placed on trays, and precautions to be taken against contamination of the soil through spillage of pre-mixed concrete;
- precautions are to be taken against oil spillage from heavy equipment such as compressors and generators, e.g. through the use of sawdust filled drip trays. All contaminated material (including soil) to be disposed of at a registered waste site;
- adequate toilet facilities (e.g. chemical toilet) shall be provided for workers on site, and all ablutions are to take place in these facilities;
- scavenger-proof litter containers shall be provided on site and strict control over littering enforced;
- all waste material, including excess construction material litter and sewerage, shall be regularly removed from site and disposed of at a registered waste facility;
- strict precautions shall be taken when making open fires;
- no wild animals shall be disturbed unnecessarily in any way;

- any damaged areas in riparian zones resulting from construction operations, should be rehabilitated to prevent erosion and undermining of the riverbank;
- on completion of works, all stockpiled material must be left in a safe state and topsoil replaced on areas where mining has been completed;
- All "surplus" soil and rock excavated during construction should be removed from any water courses.

B12011.7 Stockpiling and Spoiling of Materials

The RE and ECO shall approve all stockpiling and spoiling sites and confirm the end-use or rehabilitation for these sites.

The stockpiles should be located within demarcated construction sites. Material stockpiled should be done in such a way as to minimise the spread of materials and the impact on the natural vegetation. The Contractor should ensure that no materials 'creep' into 'no-go' areas.

No spoiling of material should take place below the 1:100 year floodline of any river, stream, wetland or water course.

The Contractor, upon completion of the project shall reinstate areas used for stockpiling to their former states.

B12011.8 Asphalt, Bitumen and Paving

Over spray of bitumen products outside of the road surface and onto roadside vegetation shall be prevented using a method approved by the RE.

The area used for the storage of bitumen drums/products shall comply with the following:

- The floor shall be smooth and impermeable (concrete).
- The floor shall be bunded and sloped towards a sump to contain any spillages of substances.
- The bund shall be inspected and emptied daily, and serviced when necessary.
- The bund shall be closely monitored during rain events to ensure that they do not overflow.

When heating bitumen products, the Contractor shall take cognisance of appropriate fire risk controls. Heating of bitumen products shall only be undertaken using LPG or similar zero emission fuels and appropriate firefighting equipment shall be readily available.

Water quality from runoff from newly/fresh bitumen surfaces will be monitored by the RE and remedial actions taken where necessary.

Stone chip/gravel excess shall not be left on road/paved area verges. This shall be swept/raked into piles and removed to an area approved by the RE.

B12011.9 Cement and Concrete Batching

The permitted location of the batching plant (including the location of cement stores, sand and aggregate stockpiles) will be indicated by the RE. The concrete/cement batching plant shall be kept neat and clean at all times.

The batch plant should not be located closer than 100m from any water course or wetland and not below the 1:100 yr floodline of any water course or wetland.

The batching plant shall be located on a smooth impermeable surface (concrete). The area shall be bunded and sloped towards a sump to contain any spillages of substances.

No batching activities shall occur directly on the ground. All wastewater resulting from batching of concrete shall be disposed of via the wastewater management system and shall not be discharged into the environment.

Used cement bags shall be stored in weatherproof containers to prevent windblown cement dust and water contamination. Used cement bags shall be disposed of on a regular basis via the solid hazardous waste management system, and shall not be used for any other purpose.

Unused cement bags shall be stored so as not to be affected by rain or runoff events. In this regard, closed steel containers should be used for the storage of cement powder and any additives.

The Contractor shall ensure that sand, aggregate, cement or additives used during the mixing process are contained and covered to prevent contamination of watercourses, the surrounding vegetation and natural rock through wind or water dispersion.

All runoff from the batching plant shall be strictly controlled, and cement- contaminated water shall be collected, stored and disposed of off-site, at a location approved by the RE.

Contaminated water storage areas shall not be allowed to overflow and appropriate protection from rain and flooding shall be implemented.

All visible remains of excess concrete shall be physically removed on completion of the plaster or concrete pour section and disposed of. Washing the remains into the ground is not acceptable. All excess aggregate shall also be removed and disposed of in an approved landfill site.

B12011.10 Site Rehabilitation

The Contractor shall be responsible for complete rehabilitation of the site, including spoil sites, access roads, haul routes, site camp, stockpile, crusher area, ablution facilities and storage areas.

The Contractor shall undertake full rehabilitation under no extra cost to the Client, other than that allowed for in the Bill of Quantities.

The Contractor should implement progressive rehabilitation: once works are complete in a particular area, rehabilitation I re-vegetation should begin. This would provide the opportunity to assess whether or not the methods employed are suitable and successful and would help prevent erosion in impacted areas.

Where re-vegetation of an area is not successful the Contractor will replant these areas, at no additional cost to the Client.

The Contractor shall provide the ECO and RE with a comprehensive Method Statement for rehabilitation of the entire site. This Method Statement must meet the approval of the ECO and RE.

The following points must be taken into account when drawing up the Rehabilitation Method Statement:

- The Method Statement should be flexible- where measures are found to be inefficient, the plan shall be modified, at no additional cost to the Client.
- The Contractor shall be responsible for successful rehabilitation and re-vegetation of the site, for a minimum period of 12 months after construction is complete.
- The Method Statement shall include the eradication of alien invasive plant species that may become established during the construction and defects notification period, in impacted areas and in rehabilitated areas.
- The growth of alien invasive plant species shall be monitored and removed during the 12 month period following construction.
- The Method Statement shall include endemic grass seed mixes applicable to summer and winter.
- The Method Statement shall include suitable fertilisers and application rates.
- Successful re-vegetation means 80 % of the seeded area is covered with grass I groundcover.
- Where the initial stripping works of the site/borrow pits was conducted by the Contractor, he will be fully responsible for topsoiling the said disturbed areas to the specified depth, at no cost to the Client.
- Consideration should be given to using established seedlings of indigenous grasses such as *Digitaria eriantha* and *Cenchrus ciliaris* to at least augment re-vegetation of bare areas. On eroded soil chopped bush should be spread over bare surfaces, the soil should be re-seeded and the veld rested.

B12012 STATUTORY REQUIREMENTS

B12012.1 Protection of Flora and Fauna

Natural features, indigenous flora and fauna in the vicinity of the project works should be protected and damage or disturbance prevented or minimised, specifically:

- No plant species may be removed unless agreed by the ECO or unless they are listed as alien invasive species.
- The minimum amount of vegetation must be removed. Excessive clearing of a site must be avoided. Disturbance outside of the immediate construction area must be avoided.
- No construction staff may have access to indigenous vegetation outside of the working corridor.
- The use of indigenous plants as firewood is prohibited.
- Where protected or Red Data Species are encountered and require removal, the ECO should be consulted and the plant(s) then replanted in a nearby 'safe' area of similar habitat. Permits are to be obtained from the DEDEAT regarding protected plant species and the Department of Agriculture, Forestry and Fisheries (DAFF, Eastern Cape) regarding protected trees.
- All fauna (including domestic livestock) within and surrounding the site shall be protected; they shall not be caught, poisoned, trapped, snared or killed.
- No domestic animals shall be brought onto the site.

B12012.2 Sites of Archaeological and or Cultural Interest

The Contractor shall take responsible precautions to prevent any person from removing or damaging any items and infrastructure of heritage importance, such as fossils, coins, articles of value or antiquity, structures (older than 60 years) and other remains of archaeological Interest discovered on the Site, immediately upon discovery thereof and before removal.

All archaeological sites identified in the environmental assessment must be demarcated with safety netting and placed out of bounds. Should disturbance of these sites be unavoidable, then an application must be made to the South African Heritage Resource Agency (SAHRA) via a qualified archaeologist.

Should an archaeological or cultural site be located during the upgrading of the route or any associated infrastructure, it should immediately be reported to the SAHRA. Failure to report a site of archaeological and/or cultural significance is a contravention of the National Heritage Act (Act No 25 of

1999).

All construction site staff must be briefed to immediately report any potential sites which are encountered during the construction of the road. In the event of finding what appears to be an archaeological site or a cultural and/or historic site or object, work should be temporarily suspended until a qualified archaeologist or historian can examine the item or find.

The Contractor must check the area carefully for any graves. The relocation of graves must be undertaken in consultation with the affected families and through the Project Steering Committee. The correct procedures for the exhumation and reburial of the remains must be strictly adhered to.

B12012.3 Protection of Natural Features

The Contractor shall not deface, paint, damage or mark any natural features (e.g. rock formations) situated in or around the Site for survey or other purposes.

Any features affected by the Contractor in contravention of this clause shall be restored/rehabilitated to the satisfaction of the RE.

The Contractor shall not permit his employees to make use of any natural water sources (e.g. springs, streams and open water bodies) for the purposes of swimming, personal washing and the washing of machinery or clothes.

B12012.4 Aesthetics

The Contractor shall take reasonable measures to ensure that construction activities do not have an unreasonable impact on the aesthetics of the area.

B12012.5 Alien Invasive Vegetation

Alien invasive vegetation shall be removed from any working areas and the site camp(s). These vegetation species shall also be eradicated when they begin to establish themselves in disturbed areas (disturbance of the natural vegetation will encourage the establishment of invasive species). In order to discourage the spread of alien species, soil should not be moved from one part of the site to another without the consent of the ECO.

The ECO shall assist in the identification of alien plant species. The Contractor is responsible for the removal and eradication of alien plant species. Methods of removal or eradication may involve hoeing by hand or the controlled application of herbicides.

B12013 PUBLIC AND WORKER HEALTH AND SAFETY

B12013.1 Vehicles and Access Roads

Site vehicles should be permitted access only within the demarcated construction sites or on existing roads, as would be required to complete their specific tasks. Vehicles are not permitted on re-vegetated areas.

Site vehicle traffic should be limited to specific access roads to prevent unnecessary damage to the natural environment.

On the Site the Contractor shall control the movement of all vehicles and plant including that of his suppliers so that they remain on designated routes, are distributed so as not to cause an undue concentration of traffic and that all relevant laws are complied with. In addition, such vehicles and plant shall be so routed and operated as to minimise disruption to regular users of the routes not on the Site. On gravel or earth roads on Site and within 500m of the Site, the vehicles of the Contractor and his suppliers shall not exceed a speed of 60 km/hr.

B12013.2 Traffic Control and Temporary Deviations

Increased traffic, especially heavy vehicle traffic, has the potential to draw complaints from nearby residents. The Contractor is expected to address any complaints received.

The Contractor shall comply with all the applicable local, regional and national laws with regard to road safety and transport. The Contractor shall instruct his drivers and plant operators that vehicles will be expected to comply with all road ordinances, such as speed limits, roadworthiness, load securing or covering.

Where sections of the road are closed for construction, barricades shall be constructed to prevent unauthorised access at all times. Suitable signage should be erected informing drivers of the road closure and warning of the possible dangers involved in trespassing within the closed areas.

Where the road is to be closed for extended period of time for the purpose of blasting, communities and motorists must be given suitable prior warning through signposting media notices etc. The safety of motorists should remain paramount at all times.

The Contractor shall keep the local Traffic Department aware of road closures and other activities that will affect traffic flow.

Temporary vehicular deviations should be located so as to cause minimal disruption to surrounding communities, minimal disturbance to flora, fauna and the surrounding landscape and minimal risk of erosion. The deviations shall not impede normal pedestrian or vehicular access to adjoining villages and community lands.

Each deviation route should be rehabilitated as soon as practically possible, and preferably immediately once the construction on the adjoining section of road has been completed.

B12013.3 Community Relations

The Contractor shall erect and maintain information boards in the position, quantity, design and dimensions specified. Such boards shall include contact details for complaints by members of the public in accordance with details provided by the RE.

The Contractor shall keep a "Complaints Register" on Site. The Register shall contain all contact details of the person who made the complaint, information regarding the complaint itself and measures taken to address the complaint.

B12013.4 Social Disruption

Where construction activities require the removal of fences from around private land, the occupants shall be warned at least three days in advance and alternative fencing should be put in place. These fences I boundary markers shall be reinstated as soon as construction is complete.

Care should be taken not to damage private property. No access to homesteads I farms or other such areas is permitted without permission of the resident and on agreement with the RE.

The Contractor shall take measures to reduce disruption to users of the area abutting the Site.

B12013.5 Existing Services and Infrastructure

The Contractor shall ensure that existing services (road, rail, pipelines, power lines and telephone services) are not disrupted or damaged, unless required by the contract and with the permission of the RE.

B12013.6 Protection of the Public

The Contractor shall be responsible for the protection of the public, and public property, from any dangers associated with the road construction and associated activities, and for the safe and easy passage of pedestrians and traffic in areas affected by project activities.

Any excavation material, spoil sites and other obstructions or excavations shall be suitably barricaded and/or demarcated with hazard tape.

B12013.7 Staff Safety and Education

All staff shall be given an induction course before beginning work on the site. Part of the induction course will be to make the staff aware of the potential dangers of the road construction activities.

The Contractor must maintain a suitable First Aid Kit at the site office and will have a list of the emergency service contact numbers readily available.

Telephone numbers of emergency services, including the local firefighting service and HAZMAT service providers, shall be posted conspicuously in the Contractor's office near the telephone.

No authorised firearms are permitted on Site.

B12014 ENVIRONMENTAL AWARENESS TRAINING

Before any work is commenced on the Site, the Contractor's site management staff including foremen shall attend an environmental awareness training course of approximately one-hour duration presented by the ECO. The Contractor shall liaise with the RE prior to the Commencement Date to fix a date and venue for the course. The ECO will provide the course content. The Contractor shall provide a suitable venue and ensure that the specified employees attend the course.

The environmental awareness training course shall be held during normal working hours. The information presented at the course shall be communicated to the Contractors employees on the site, to any new employees coming onto site after the initial training course and to his suppliers as required by the Project Specification.

The Contractor shall ensure that all attendees sign an attendance register, and shall provide the RE with a copy of the attendance register the day after each course.

The Contractor shall erect and maintain information posters for the information of his employees depicting actions to be taken to ensure compliance with aspects of the Specifications. These information boards shall be erected at the locations, agreed by the RE and should contain the following symbols:

- At working areas: Use drip trays, use toilets, no eating, no littering, no swimming, no picking of Flowers, no dogs, no veld fires.
- At eating areas: Use toilets, no littering and no veld fires.

B12015 EMERGENCY PROCEDURES

The Contractor's procedures for the following emergencies shall include:

B12015.1 Fire

The Contractor shall advise the relevant authority of a fire as soon as one starts and shall not wait until he can no longer control it. The Contractor shall ensure that his employees are aware of the procedure to be followed in the event of a fire.

B12015.2 Accidental Leaks and Spillages

The Contractor shall ensure that his employees are aware of the procedure to be followed for dealing with spills and leaks, which shall include notifying the RE and the relevant authorities.

The Contractor shall ensure that the necessary materials and equipment for dealing with spills and leaks is available on Site at all times.

Treatment and remediation of the spill areas shall be undertaken to the reasonable satisfaction of the RE and ECO.

In the event of a hydrocarbon spill, the source of the spillage shall be isolated, and the spillage contained. The area shall be cordoned off and secured. The Contractor shall ensure that there is always a supply of absorbent material readily available to absorb/breakdown and where possible be designed to encapsulate minor hydrocarbon spillage.

The quantity of such materials shall be able to handle a minimum of 200 litres of hydrocarbon liquid spill.

In the event of a fire or accidental leak/spillage, the Contractor shall notify the RE as soon as possible, but at least within 48 hours of the incident being noticed.

The telephone numbers for the closest Hazmat service provider's offices should be prominently displayed as bitumen and diesel spillage on construction and road building sites are common. The clean-up procedure is critical to prevent contamination.

B12016 EXTERNAL AUDITING AND EVALUATION

In order to ensure that the EMPr is effectively implemented, it is important that monthly external audits of the EMPr are conducted. An ECO will be appointed by the Client to undertake these audits. The RE shall arrange that these external audits do take place and that a system for addressing any problems identified during these audits, is formulated. The relevant documentation shall be kept and shall be available to the public.

B12017 ENVIRONMENTAL MANAGEMENT DURING CLOSURE/DECOMMISSIONING

Environmental Management associated with the closure of this project will ensure that the following items are addressed at closure and during the defects liability period:

- All cleared sites are rehabilitated with indigenous grass material with a cover of at least 80%.

- All visible alien plants are removed from disturbed sites;
- all recyclable rubble and waste, for example, scrap metal, bottles, cans and plastics are collected and disposed of through a registered recycling company;
- All non-recyclable rubble and solid waste be collected and disposed of at a registered waste disposal facility;
- Provision has been made for stormwater control to prevent erosion from taking place post construction;
- All borrow pits and quarries shall conform to the designed closure specifications, including drainage, slope stability, top-soiling and grass planting;
- Certificates of final completion as required by the appropriate EMPr shall be obtained for all borrow pits and quarries.

B12018 TOLERANCES

Environmental management is concerned not only with the final results of the Contractor's operations to carry out the Works but also with the control of how those operations are carried out. Tolerance with respect to environmental matters applies not only to the finished product but also to the standard of the day-to-day operations required to complete the Works.

It is thus required that the Contractor shall comply with the environmental requirements on an ongoing basis.

B12019 MEASUREMENT AND PAYMENT

The Contractor shall not be separately reimbursed or compensated in respect of his compliance with the provisions of this Section B12000 of the Scope of Works. All costs so incurred shall, save and except to the extent provided for in the Bill of Quantities under Section 1300: Contractor's Establishment on Site and General Obligations is deemed to be included in the rates tendered for the various items of work listed in the Bill of Quantities.

The financial guarantee for the rehabilitation of land disturbed by quarrying as per the approved EMPr will be returned upon the granting of a Closure Certificate by the DMR. This Closure Certificate will comply with the terms of the MPRDA.

B12020 WORK STOPPAGE

The RE shall have the right to order work to be stopped in the event of significant infringements of the Environmental Management Specifications, until the situation is rectified in compliance with the Specifications. In this event the Contractor shall not be entitled to claim for delays or incurred expenses.

Any failure on the part of the Contractor to comply with the EMPr will entitle the RE to certify work stoppage subject to the details set out.

The RE shall be the judge as to what constitutes a transgression subject to the provisions of the General Conditions of Contract. In the event that transgressions continue, the Contractor's attention is drawn to the provisions of the General Conditions of Contract, under which the Contract Supervisor and/or Client may cancel the Contract.

In addition to work stoppage, penalties may be issues where there is damage to the natural or human environment as a consequence of the transgression(s) and/or non-compliance(s). In such an event, the Contractor may be liable to pay a penalty at the instruction of the RE.

A list of incidents that may lead to work stoppage are indicated below- this list is not exhaustive:

- Failure to submit Method Statements timeously.

- Failure to stockpile topsoil properly or materials in designated areas.
- Inappropriate use of adjacent watercourses and waterbodies.
- Pollution of water bodies -including increased sedimentloads.
- Failure to maintain basic safety measures on site.
- Animal poaching (wildlife or domestic).
- Failure to provide waste disposal facilities or services.
- Excess dust or excess noise levels emanating from the Contractor's Camp and construction areas.
- Any person, vehicle, plant or item related to the Contractor's activities causing a public nuisance.
- Failure to carry out liaison with adjacent landowners; causing damage to property without prior negotiation and/or compensation and/or causing other social infringements.
- Failure to control the pollution risks from dispensing fuel or the storage of vehicles and plant (drip trays).

The Contractor shall be responsible for the costs associated with repairing any damage to the natural or human environment that may result from the transgression and/or the result of the work stoppage.

B12021 PENALTIES

The imposition of penalties will be at the discretion of the Client.

The value of any penalty imposed shall be determined in light of the consequential damage caused and the costs required to rehabilitate the damaged area.

Payment of any penalty in terms of the Contract shall not absolve the Contractor from being liable from prosecution in terms of the any appropriate law. Fines may also be imposed by the relevant authority (DEDEAT or DMR) in terms of NEMA if the Contractor is found to have unlawfully and intentionally or negligently committed any act or omission which causes significant pollution or degradation of the environment. The following list of fines should be used as a guideline for non- compliances:

RECOMMENDED FINES FOR TRANSGRESSION OR RESULTANT ENVIRONMENTAL DAMAGE	MIN. FEE	MAX. FEE
Failure to report environmental damage or transgressions to the ECO or RE.	R1000	R2000
Failure to carry out instructions of the ECO or RE regarding the environment	R2000	R4000
Failure to comply with prescriptions for the storage of imported materials within a designated contractors yard	R500	R1000
Failure to comply with prescribed administration, storage or handling of hazardous substances	R500	R1000
Failure to comply with fuel storage, refueling, or clean-up prescriptions	R500	R1000
Failure to comply with prescriptions for the use of ablution facilities	R500	R1000
Failure to comply with prescriptions for the use of designated eating areas, heating sources for cooking or presence of fire extinguishers	R500	R1000
Failure to comply with prescriptions regarding water provision	R500	R1000
Failure to comply with prescriptions regarding fire control	R500	R1000
Failure to comply with prescriptions for solid waste management (incl. paint chips, cement and concrete)	R500	R1000

RECOMMENDED FINES FOR TRANSGRESSION OR RESULTANT ENVIRONMENTAL DAMAGE	MIN. FEE	MAX. FEE
Failure to comply with prescriptions to prevent water pollution	R500	R1000
Failure to comply with prescriptions regarding workshop equipment maintenance and storage	R500	R1000
Failure to comply with prescriptions regarding lighting and aesthetics	R500	R1000
Failure to comply with prescriptions regarding silt, debris and other obstruction removal	R500	R1000
Failure to comply with prescriptions regarding water diversion and drainage	R500	R1000
Failure to comply with prescriptions regarding erosion and scour protection	R500	R1000
Failure to comply with prescriptions regarding tree and vegetation removal/damage and permit application	R5000	R20000
Failure to comply with prescriptions regarding method statements	R500	R5000
Failure to comply with prescriptions regarding environmental awareness training	R500	R5000
Failure to comply with prescriptions regarding appointment of an Environmental Officer and monitoring of compliance	R500	R1000
Failure to comply with prescriptions regarding site demarcation and erection of fences	R500	R5000
Failure to comply with prescriptions regarding information posters	R500	R1000
Failure to comply with prescriptions regarding procedures for emergencies and spills	R1000	R5000
Failure to comply with prescriptions regarding protection of natural features	R500	R5000
Failure to comply with prescriptions regarding erosion and sedimentation control	R500	R5000
<p>Note: The maximum fine for any environmental damage will never be less than the cost of applicable environmental rehabilitation.</p> <p>For each subsequent similar offence committed by the same individual, the fine shall be doubled in value to a maximum value of R50 000.</p>		

PART C3 : SCOPE OF WORKS

PROJECT SPECIFIC OCCUPATIONAL HEALTH AND SAFETY SPECIFICATIONS FOR ROAD CONSTRUCTION WORKS

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**PROVINCE OF THE EASTERN CAPE DEPARTMENT OF
TRANSPORT**

CONTRACT No.: SCMU10-24/25-0008 A-F

C3-6: PROJECT SPECIFIC OCCUPATIONAL HEALTH AND SAFETY SPECIFICATIONS

1. INTRODUCTION

1.1 LIST OF ABBREVIATIONS

AIA	Approved Inspection Authority BoQ Bill of Quantities
CC	Compensation Commissioner CR Construction Regulations
DRPW Energy	Department of Transport, Eastern Cape Provincial Government DME Department of Mineral and
DMR	Driven Machinery Regulations DoL Department of Labour
FEMA	Federated Employers Mutual Association GAR General Administration Regulations
GSR	General Safety Regulations
HIRA	Hazard Identification Risk Assessment H&S Health and Safety
LI	Labour Intensive
MH&SA	Mine Health and Safety Act No. 29 of 1996 (as amended) OH Occupational Health
OHSA	Occupational Health and Safety Act No. 85 of 1993 (as amended) OHSS Occupational Health and Safety Specification
PSHSS	Project Specific Health and Safety Specification PC Principal Contractor
PPE	Personal Protective Equipment ER Engineer's Representative
RHCS	Regulations for Hazardous Chemical Substances SANS South African National Standards (Authority) SMME Small, Micro, Medium Enterprise
SWP	Safe Work Procedure

1.2 DEFINITIONS

The definitions used will be those set out in the Regulation Gazette No 10113 of 7 February 2014 with the following additions:

Client:	The Head of Department, Department of Transport of the Province of the Eastern Cape.
DOT:	The Department of Transport for the Province of the Eastern Cape.
Designer	Means a competent person appointed by the Client as Agent to design (if required), supervise and monitor construction on their behalf
Engineer:	Means a competent person appointed by the Client to design, supervise and monitor construction on their behalf.
Hazard:	Source of exposure to danger

Hazard Identification and Risk Assessment (HIRA) and Risk Control:

Means a documented plan, which identifies hazards, assesses the risks and details the control measures and safe working procedures which are to be used to mitigate and control the occurrence of hazards and risks during construction or operation phases.

Health and Safety Agent:

Means any person who acts as a representative for the Client in managing the overall health and safety work as their responsible person.

Health and Safety Plan:

Means a documented plan which answers to the Project Specific Health and Safety Specification; including all the supporting documentation that indicate how the Principal Contractor or Contractor plans to manage H&S for the duration of the Contract.

Induction Training:

Means once off introductory training on general health and safety issues given to all employees and visitors to the site before commencement of work on site.

Mine: Any excavation from which material (soil, gravel, stone etc) is taken for use in the construction site.

Risk: Means the probability or likelihood that a hazard can result in injury or damage.

Regulation/s: Shall mean the relevant regulation/s promulgated in terms of the Occupational Health and Safety Act, No. 85 of 1993.

Site: Means the area in the possession of the Principal Contractor for the construction of the works. Where there is no demarcated boundary it will include all adjacent areas and haul roads which are reasonably required for the activities for the Principal Contractor, and approved for such use by the Engineer.

The Act: Means, unless the context indicates otherwise, the Occupational Health and Safety Act, No. 85 of 1993 and Regulations promulgated thereunder, as amended.

1.3 KEY ROLE-PLAYERS

Client Representatives:

Engineer:

Engineers Representative

H&S Agent:

1.4 KEY REFERENCES

- Occupational Health and Safety Act No. 85 of 1993 and Regulations (as amended)
- Compensation for Injury and Occupational Diseases Act No. 100 of 1993 (as amended)
- Committee of Land Transport Officials (COLTO) South African Roads Specifications for Road and bridge Construction
- Traffic Safety Manual (SARTSM) Chapter 2, Volume 13 of 1999
- Road Traffic Safety Act No. 93 of 1996 (as amended)
- Routine maintenance procedures manual of the Department of Transport Eastern Cape.
- Re Graveling procedures manual of the Department of Roads and Transport Eastern Cape.

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2. PREAMBLE

The Department of Transport (DOT) is tasked to provide infrastructure within the Eastern Cape including the construction of roads and civil structures.

Each year fatalities and serious injuries mar the reputation of the Construction Industry. The DOT has a responsibility to limit such injuries by ensuring a zero-tolerance approach to Contractors and those affiliated to a particular project. Thus, a high premium is placed on the H&S of DOT stakeholders, which include its employees, professional service providers, public and its physical assets. The responsibilities that the Department and relevant stakeholders have toward its employees are captured in this document. The responsibilities stem from both moral, civil and a variety of legal obligations. The Principal Contractor is to take due cognisance of the above statement.

The DRPW, as the Client and its Health and Safety (H&S) Agent acting on its behalf, shall provide a project specific Health & Safety Specification (PSHSS) for the project and provide it to the Principal Contractor/s making a bid or appointed to perform construction work for the project, or parts thereof.

2.1 PURPOSE OF THE OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION (OHSS)

The OHSS is a performance specification to ensure that the Client (DRPW) and any bodies that enter into formal agreements with the Client, i.e. Engineers, Principal Contractors (PC) and Contractors, achieve an acceptable level of OHS performance. The Client has a zero tolerance to non-compliance and the endangering of the lives of workers, and the public, thereby being placed at risk.

No advice, approval of any document required by the OHSS (i.e. hazard identification and risk assessment, action plans) or any other form of communication from the Client shall be construed as an acceptance by the Client. Nor shall such communication relieve or absolve the PC from any obligation or from achieving compliance with legal requirements. The PC remains responsible for achieving the required performance levels and must sign an OHS S.37.2 Mandatary Agreement with the Client.

The H&S Specification highlights the aspects to be implemented over and above the minimum requirements of current legislation. Requirements may be changed should new risks or issues are identified that could not have been foreseen during the design phase of the project.

3. IMPLEMENTATION OF THE OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION (OHSS)

The project specific H&S specification (PSHSS) forms an integral part of the Contract, and PCs are required to make it an integral part of their Contracts with Contractors and Suppliers. A PSHSS will be available for each level of Contract and Contractor, and must be complied with. Failure to do so will be noted as a serious offense, and will result in a penalty, stoppage of part of, or the whole works, with no extension of time or allowable claims; this includes the submission of an approved health and safety plan

This specification must be read in conjunction with the OHS, its Regulations (as amended) and any other standards relating to work being done, and ensure compliance thereto. The information relative to the scope of the project, the works etc. is detailed in the tender document, is to be taken into account when developing the H&S plan and associated documentation. The detailed design risk assessment is included, as is a summary of risks identified as attached.

The OHS S.37.2 Mandatary Agreement found in the Tender Document must be fully completed by the PC. These documents shall be deemed to form part of the returnable Contract Documents.

No work may commence without written approval of the H&S plan by the H&S Agent. Failure to comply with this requirement will result in a penalty, stoppage of part of, or the whole works, with no extension of time or allowable claims.

Should there be design changes, or change in the scope of works, an amended PSHSS may be issued. Where amended PSHSSs are issued, the PC will be required to ensure a resubmission of an amended H&S plan for approval. Further to this, the PC must ensure that a similar system must be implemented between all their Contractors.

The H&S Agent will visit the project at least monthly, or more frequently if deemed necessary to ensure compliance. All activities on the site and all appropriate documentation will be monitored and reported on

to the Client, Engineer and Contractor. Non-conformances will be issued and penalties or work stoppage instructions will be issued where appropriate. Communication between the H&S Agent and the PC will be through the Engineer or Engineer's Representative (ER) as determined at the commencement of the project.

4. REQUIREMENTS AT TENDER STAGE

Adequate pricing for H&S is required, and the appropriate section in the BoQ is to be completed. Failure to do so could result in the Tender being regarded as non-responsive.

The PC shall ensure the following information is submitted as part of the H&S plan with his completed Tender:

- A declaration to the effect that he has the competence and necessary resources to carry out the work safely in compliance with the Construction Regulations 2014;
 - Claims ratio receipt from FEM or the Compensation Commissioner for the previous review period;
- An organogram of the site relationships showing at least the minimum qualifications of the proposed Construction Manager and Health and safety Officer.

Further method statements are to be submitted prior to, and during the project which will require the approval of the ER before work on that aspect or activity can commence.

4.1 PRE-START UP ACTIVITIES:

Once the H&S plan has been approved there may well be additional documentation that includes appointments, emergency arrangements or further method statements and risk assessments. The inclusion of such aspects for personnel or Contractors commencing work at this time is required to be approved and verified by the Engineer and H&S Agent.

5 SPECIFIC PROJECT RISKS AND REQUIREMENTS

The aspects covered in Sections 6.4 to 6.7 have been noted as risk areas in the design hazard identification and risk assessment (HIRA), and are to be noted when developing the H&S plan and associated documentation. The COLTO Standard Specification (among other) document was used to develop the HIRA, and the same reference format is used. Where particular risks are noted, further requirements may be specified. Identification of low or medium risks does not mean there is no risk involved. In depth HIRAs and management systems are required to limit as much risk as possible as required in OHSA. Requirements for H&S systems, standards, PPE etc. are noted (but are not limited to), and the management thereof should be included in the documentation.

Technical method statements which do not conform to those outlines in the departmental procedures manual, are to be developed for all key activities as they relate to the programme and approved by the ER. HIRA are to be developed using the approved method statements. Method statements are to incorporate the following information: plant, equipment, labour requirements, method of working and the duration of each activity.

H&S method statements and safe work procedures (SWPs) (or safe operating procedures (SOPs) are to be used by key site staff for daily activities and supervisors need to ensure the site, workers and the public are kept safe. The environmental issues may be included, but will need to be approved by the Environmental Consulting Officer (ECO).

6 GENERAL REQUIREMENTS

6.1 SUMMARY OF RISKS IDENTIFIED DURING DESIGN

The scope of work is specified the Department's Procedures manual and graveling manual. The P.C. is advised to use this as a Base Method Statement from which to conduct the HIRA. There a generic risk associated with work on or near an operational road way- the members of the public who use that roadway may be put at risk by the activities of the contractor (section 9 OHS act and the employees of the contractor may be put at risk by the road user (section 8 OHS act) Due to this being a maintenance contract without a fixed scope of works but rather a fixed scope of possible activities

6.1.1 General Requirements and Provisions (Series 1000)
Information in this series cover the start-up aspects of the project, with a number of the activities (excluding establishment) lasting the duration of the contract.

- 6.1.2 Drainage (Series 2000)
Excavations, traffic management and possible contact with vermin
- 6.1.3 Earthworks and Pavement Layers of Gravel or Crushed Stone (Series 3000) Heavy plant tipping of material
- 6.1.4 Asphalt Pavements and Seals (Series 4000)
Traffic management for base and surface repairs. Cold premix
- 6.1.5 Ancillary Roadworks (Series 5000)
- 6.1.6 Specified Hazardous Chemical Substances
Contact with humans (employed or not), vegetation and animals. Possible spills which will affect the environment.

The following lists of products or type of substance are those that have been identified as likely to be used on the project. Where the PC is likely to supply a product that has not been specified, the onus is on the PC to provide proof that most environmentally friendly alternative has been used, based on the material safety data sheets. Medical surveillance may be required for those.

PRODUCT	POTENTIAL HEALTH OR OTHER RISKS
Cement	Hand mixing may occur, will be used for structures, stabilizing. 50kg bags delivered on pallets, ergonomic risk from handling, dust exposure, chromates. Eye, skin and respiratory irritant
Shutter Oil	Usually hand application prior to placing formwork in position. Volatiles present. Skin and respiratory irritant.
Asphalt	Inhalation will cause headaches, nausea, respiratory, eye and skin irritation. Carcinogen. Burns from hot mix. Hydrogen sulphide and carbon monoxide emitted as by-product. Breaking or cutting will release silica (crystalline)
Retro-reflective Road paint	High levels of volatiles, Products have narcotic effect
Lime	Dust, eye and respiratory irritation
Petrol/diesel/lubricants	Storage tanks/ bowsers on site. Fire, spillage, fumes
Creosote (pre-treated poles)	Eye and skin irritation and minor burns, carcinogen
Herbicides and ant poison	Type not specified, but will be used. Principal Contractor to ensure use of SDSs and appropriate protection measures
Epoxies and epoxy resins	Type not specified, but will be used. Principal Contractor to ensure use of SDSs and appropriate protection measures
Coatings	Type not specified, but will be used. Principal Contractor to ensure use of MSDSs and appropriate protection measures
Grouts	Will be determined by the Principal Contractor; various grouts will be required, cementitious or other, may contain silica (crystalline - quartz), hexavalent chromium, respiratory, skin and eye irritant

7. NOTIFICATION OF COMMENCEMENT OF CONSTRUCTION WORK/ APPLICATION FOR CONSTRUCTION WORK PERMIT (DEPENDING ON AWARD AMOUNT)

For contracts awarded above Forty million rand the Clients agent will apply for a construction works permit one the contractors Health and Safety plan has been approved by the Agent for implementation.

For contracts awarded for less the Forty million rand. The PC shall notify the Provincial Director of the Department of Labour (DoL) in writing, in the form of the Annexure A in the CRs. This shall occur after award of the contract, but before commencement of construction work. Proof of submission and/or receipt must be provided. Work will not commence without the Notification being correctly completed and signed by the Client. The Notification shall only be signed by the Client following the approval in writing by the H&S Agent.

Work will not commence without the Notification being correctly completed and signed by the Client and proof of receipt by the Department of labour received. The Notification shall only be signed by the Client following the approval in writing by the H&S Agent, or the Client.

Where changes to the conditions given in the submission are required (i.e. other Contractors, completion dates, increase in workers), a revised Annexure A must be submitted to the Department of Labour. It is preferable that the completion date includes the defect liability period. A copy of the notification form and any further submissions must be kept in the H&S file.

8. HEALTH AND SAFETY PLAN FRAMEWORK

The aspects related to the project outlined in the previous sections are to be taken into account when drawing up the H&S Plan. The PC is required to demonstrate competence by providing a H&S system that will address the requirements of the project.

The current legislative requirements, SANS codes and any other standards that may guide practice are to be taken into consideration. The following aspects must be addressed in the H&S Plan, as they have been identified in the design HIRA, as playing a role in reducing the overall risk of a particular activity, or section of the project. The H&S Agent may from time to time request additions or systems as they relate to the works at the time.

The PC must include in his Health and Safety file an organogram showing all appointments and responsibilities on site. This must include names of personnel where possible.

The PC is to prepare one or more site office area layout drawings to indicate at least the following:

- positions of emergency personnel and equipment at the site camp, or each fixed working area;
- traffic routes for plant and pedestrians, parking;
- storage areas (flammable stores, materials etc.)

Such drawings could be the same as those required by the ECO. Such layouts are to be updated regularly throughout the project.

8.1 APPOINTMENT OF COMPETENT SITE PERSONNEL

The CEO (OHSA S16.1) of the PC will take overall responsibility for the appointment of competent site staff for the duration of the project. Should the CEO not be personally involved in the project, the H&S responsibilities are to be delegated to the Site Agent (OHSA 16.2). Knowledge and training in H&S is required, and certificates indicating H&S training as well as experience to be included in CVs.

All other legal appointments are to be made with relevance to the type of work required and kept current with the project programme. The construction team is to ensure the H&S Officer is kept up to date with all planned activities, to ensure all H&S requirements are met.

All construction/technical method statements are to be generated by senior site personnel, and the appropriate risk assessments developed therefrom in conjunction with the H&S Officer.

The Occupational Health and Safety Plan shall include the following, but not be limited to the following key appointments:

8.1.1 Construction Supervision

Competent supervisors who are appointed to manage part or all of the works must have had training and/or experience in the area of responsibility. All site supervisors must show evidence of basic training in H&S, and an understanding or training in areas of responsibility (i.e. risk assessments, method statements etc.). Proof of this must be presented in the Health and Safety file.

Competent assistant supervisors may be appointed where justified by the scope and complexity of the works. Curriculum Vitae (CVs) are to be submitted for approval by the Engineer, Agent, and/or Client. Each supervisor will be held responsible for the safety of working teams and subordinates, housekeeping and stacking, storage of materials and the setting up of signage to details supplied by the Construction supervisor.

8.1.2 Construction Health and Safety Officer

The PC will employ at least one competent, full-time H&S Officer for the duration of the contract.

The H&S Officer's CV is to be submitted for approval by the Engineer as well as the H&S Agent. The PC is to ensure adequate resources are provided in order to undertake all responsibilities (i.e. mobile phone, computer and internet access, availability of a vehicle solely for H&S use during working hours etc.)

The Officer shall be in the possession of a certificate from SACPCMP. The possible risks that could be found due to possible tasks make the possession of a "happy letter from SACPCMP not acceptable. (as per guidance from Mr. S.H. Gwavu {D.D. (OHS) D.o.L. East Cape} (3/17/2017))

The H&S officer must have the competence to create task specific Health and Safety specifications, assist emerging contractors with compiling Health and Safety plans. Note they may not compile them but rather transferee knowledge.

Evaluate the Contractors Health and Safety plans. The

CHSO must hold a valid driver's license.

This person may not hold any other position on the site staff.

The Construction Manager, assisted by the H&S Officer will be held responsible for all H&S on the project. Senior site staff and supervision, Contractors are to follow systems, instructions etc. given by the H&S Officer at all times. No new Contractors may commence work without approval of the the H&S plan as submitted. The submission must be done seven days prior to expected start date to allow for comprehensive review.

Failure to do so will be considered a serious offence.

The H&S Officer/s will be held responsible for all H&S on the project.

- Senior site staff and supervision, Contractors are to follow systems, instructions etc. given by the H&S Officer at all times;
- No new workers or Contractors may commence work without approval or following the H&S plan as submitted, and
- No inductions of Contractor staff until the H&S documentation is approved by the H&S Officer.
- The H&S Officer/s may not be removed or replaced without the approval of the H&S Agent, nor may the site be left unattended for more than 1 day without adequate, competent cover.

A close out meeting will be held at the end of each formal audit by the H&S Agent and findings will be issued in the form of site instructions. Senior site staff will be obliged to attend the close out meeting.

A monthly report of all H&S activities and incidents is required at each site meeting. It is to be given verbally by the Health and Safety officer and a hard copy must be handed to the chairman for inclusion in the minutes.

The H&S Officer will be responsible for collating the H&S documentation (electronically) at the close out of the project. A list of the typical aspects that should be provided is available as an Annexure to this document.

8.1.3 Traffic Safety Officer (TSO)

The Construction Manager will assume the role of the TSO this must be noted in his appointment The CV of the construction supervisor is to be submitted to the Engineer and H&S Agent for approval as a TSO. Attention is drawn to the provisions of Section 1500 of the COLTO specifications as given in the Contract Data and Scope of Work.

Traffic accommodation drawings will be provided by the Engineer, and any changes suggested or required are to be discussed and approved by the Engineer. Speed controls must be clearly stipulated and managed. Speed limits must be strictly adhered to by all construction traffic. Unreasonable limits may be revised by the Engineer and/or H&S agent. Additional care must be taken where workers and construction traffic interface. This should be in the form of flagmen to direct trucks and adequate signage as directed by the Engineer.

The construction supervisors will be issued with layouts for traffic control by the Construction Manager and be responsible for completing daily check lists before work starts and monitoring during works. The construction Manager will be responsible for checking layouts on site. This must be done at least once a week and must be recorded.

A system of recording daily traffic accommodation is to be provided. Photographs are to be taken following the placement of the accommodation to prove compliance. All daily records must be signed by the ER. All photos are to be date and timed stamped and are to form part of the consolidated H&S file.

It must be noted that further penalties are specified for non-compliances in this PSHSS.

8.2 HEALTH AND SAFETY REPRESENTATIVES AND COMMITTEE

Due to the need for EME and SMME involvement the contractor must set up a health and Safety committee. The H&S role player in these organizations are to form part of the committee. H&S information is to be passed between party's at meetings.

8.3 APPOINTMENT OF COMPETENT CONTRACTORS

The Principal Contractor is to ensure compliance with the Clients minimum standards and all legislative requirements. The same H&S standards required of the PC are to be applied to all Contractors. An index of all Contractors and Suppliers is to be on file and kept updated at all times. The PC is to ensure there is sufficient funding for H&S compliance by each Contractor.

The following minimum aspects are applicable to any Contractor appointed:

- The H&S Officer is to ensure a Contractors appointment and approval of H&S documentation at least seven (7) working days prior to commencing work.
- No Contractor may work under the PCs Compensation registration number. If required the PC may assist SMMEs with their registration with the Compensation Commissioner. However, such Contractors will not be able to commence work until proof of registration or Letter of Good Standing has been received.
- No work may commence without a Contract Specific Mandatary (37.2) agreements between parties in place.

The following aspects are applicable to Suppliers or short-term works (surveying, repairs, servicing, deliveries etc). Cognisance is to be taken of the level of risk involved and the H&S Officer is to ensure the level of H&S documentation is appropriate:

- Mandatary Agreements in place
- Letter of Good Standing
- Method statements and risk assessments
- Available information relative to:
 - Load testing and registers for cranes or lifting devices
 - Medical certificates of fitness
 - Safety data sheets (SDSs)

Failure to provide written approval of H&S documentation will be considered a serious offense, and could result in aspects of, or all of, the activities being stopped and/or penalties implemented.

9. GENERAL RISK MANAGEMENT

9.1 HEALTH RISKS AND MEDICAL SURVEILLANCE

The specified products have been listed above. As some products have not been identified, the PC is to ensure the H&S Officer and all supervision is responsible for ensuring the safe use of such products, and their inclusion into method statements and risk assessments. The appropriate SDSs are to be obtained for all products and used to develop the H&S documentation as they relate to the works.

Ergonomic risks are to be noted, especially where there are LI components, and all workers (including those of Contractors) are to be included in the medical surveillance programme.

Workers will be exposed to noise, dust, volatiles and vibration (whole body and upper body) due to the type of plant, materials specified and the general nature of the works. Silica and general environmental monitoring for the general construction, as well as works at borrow pit and the quarry have been allowed for in the BoQ, as well as the allowance for medical surveillance.

Environmental monitoring results and risk assessments are to be made available to the occupational health professionals doing the medical surveillance. The use of occupational risk exposure profiling (OREPS) and job descriptions are to be used to determine specific exposures for management.

All permanent workers (including those of Contractors) are required to be in possession of a medical certificate of fitness prior to commencing work.

Medical surveillance will commence at pre-employment. All workers (including Contractors) are required to be in possession of a medical certificate of fitness prior to commencing work. Annual medical surveillance is required (unless identified as being required more frequently), as well as an exit medical. Arrangements for keeping medical records for the required time are to be noted. It is preferable that the PC has a medical surveillance plan. Full medical records are not to be placed in the H&S file. A procedure for managing the medical records which require safekeeping for prescribed periods are to be addressed.

Given the potential health risks the following aspects are to be included in each medical surveillance intervention:

- Full medical, surgical and occupational history;
- Full physical examination of all systems, and
- Referral if required for the management of identified health issues that may affect the worker.

Specific testing for existing conditions and limitations relative to exposure could include, but are not limited to:

- Audiometry (hearing tests);
- Spirometry (lung function testing);
- Chest X-rays;
- Liver function testing (volatiles), and
- Any other tests identified as relevant

Failure to do so will be considered a serious offence.

9.1.1 Noise Risks

All plant and equipment is to be measured for noise levels as soon as the majority of plant is on site (including Contractors). Findings are to be discussed at the H&S Committee and H&S Representatives and Supervisors are to ensure that noise zones are identified and wearing of PPE in them is enforced. All plant brought in by plant hire companies is to be compliant with the Noise Induced Hearing Loss Regulations.

Audiometric testing of all workers is to be included in the medical surveillance programme. Double audiometric testing at pre-employment and single tests thereafter is required. These should be repeated annually and as part of the exit medical. Audiometry records are to be available in the H&S file.

Suitable SANS approved hearing protective equipment shall be issued and worn. Where several items of construction plant are in operation at or near to each other, the noise zone for the combined plant should be established and suitable hearing protective equipment used within this zone.

Failure to do so will be considered a serious offence.

9.1.2 General Environmental Conditions

Compliance with the Environmental Regulations (as amended), among others is required. Environmental monitoring of ventilation, lighting and dust may be deemed to be required by the Approved Inspection Authority used to measure the environment. Copies of the relevant reports and actions taken in respect of these are to be placed in the H&S file.

Any spillages of substances which could be toxic to persons must be dealt with adequately. The Contractor must include his spillage removal system in the OHS Plan.

9.2 EMERGENCY PROCEDURES

Attention to emergency planning and procedures is very important. The full emergency plan must form part of the supporting documentation with the H&S Plan. The H&S Agents approval of all emergency plans and procedures is required prior to commencement on site. It is advised that the system should be simple and easy for any worker to follow. The plan may be adapted should new information or risks are identified.

First aiders shall be available in each working team, and be able to work as a team when responding to any emergency on the project.

The procedure shall detail the response plan in relation to the works, and include at least (but are not limited to) the following key elements:

- Appointment of a competent emergency response co-ordinator and wardens;
- Lists of first aiders, and
- Requirement in terms of identified risks:
 - Fire;
 - Explosions;
 - Falls from heights, and
 - Public Injury motor vehicle accidents.
- Serious injury to workers (Medical or work related)
- Any other major risks identified during risk assessments.

The emergency plan is to ensure the inclusion of local service providers where possible. Such arrangements should be made with these persons prior to the commencement of the project. Local emergency telephone numbers must be displayed and made part of the emergency procedure.

9.2.1 First Aiders and First Aid Equipment

Competent, trained First Aiders are to be formally appointed for the project. If the area of works is in a remote area, at least 2 workers are to be trained to level 3. In urban areas and close to medical assistance 1 level 3 first aider is required. First aiders are to be available at all times and be able to cover each working team. **At least on level 3 first aider is needed for file approval.** Further first aiders from the community or SMMEs, if not already accredited, are to be sent for accredited first aid training. Contractors are expected to ensure compliance and manage their own first aiders and equipment.

The PC shall provide an on-site First Aid Station with first aid facilities, including first aid boxes containing, at least the requirements of manage the type of emergencies identified. It is suggested that all supervisors carry a appropriately stocked first aid kit in their vehicles at all times.

9.2.2 Fires and Emergency Management

Attention to emergency planning and procedures is very important. The full emergency plan must form part of the supporting documentation with the H&S Plan. The H&S Agents approval of all emergency plans and procedures are required prior to commencement on site. It is advised that the system should be simple and easy for any worker to follow. The plan may be adapted should new information or risks are identified.

First aiders shall be available in each working team and be able to work as a team when responding to any emergency on the project.

The procedure shall detail the response plan in relation to the works, and include at least (but are not limited to the following key elements:

- Appointment of a competent emergency response co-ordinator and wardens;
- Lists of first aiders, and
- Requirement in terms of identified risks:
 - Fire;
 - Explosions;
 - Falls from heights,
 - Motor vehicle accidents.
- Any other possible emergency identified in the P.C.'s HIRA

The emergency plan is to ensure the inclusion of local service providers where possible. Such arrangements should be made with these persons prior to the commencement of the project. The emergency plan is to include the risk of fire on site and related to any specific activities where gas, welding, cutting etc. occur.

Fire extinguishers and fire extinguishing equipment will be appropriate for the risk and in sufficient numbers to deal with the type of fires that could occur. All mobile plant is to have fire extinguishers. Hot work permits are required for any such activities. The positions of equipment at the site camp must be shown on the sketch plan of the site.

9.2.3 Incident Management and Compensation Claims

The PC will ensure there is a management system to investigate all incidents. All serious incidents involving any form of disabling injury or fatality are to be reported to the Engineer and H&S Agent telephonically immediately. This shall be confirmed in writing as soon as possible after the incident. Full details are to be included in the H&S meetings, and each site meeting. The details are also to be included in the monthly report.

Failure to comply with emergency provisions will be considered a serious offence, and the operation or project may be stopped if deemed inadequate for the work at the time of assessment or site inspection.

9.3 PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING

The PC is to provide a procedure as an addendum to indicate how PPE is managed within the Company.

The wearing of the identified SANS approved PPE at all times is non-negotiable. The PC shall ensure that all workers (Including Contractors) are issued with and shall wear as required; the first 3 items are mandatory for all workers: All PPE defined is SARTSM must conform to SANS and SARTSM specifications.

- Hi Visibility broad rimmed hats;
- Protective footwear;
- Reflective jackets (no bibs)
- Overalls that ensure worker visibility
- Eye protection;
- Hearing protection;
- Respiratory protection (minimum of FF2),
- Any employees required to work in rain or missed are to be provided with reflective rain suits.
- Any other necessary PPE identified from MSDSs and/or risk assessments.

Adequate quantities of PPE shall be kept on site at all times. This shall include necessary PPE for visitors. The procedures for managing PPE are to be in a formal procedure submitted with the H&S plan for approval; this must include the company policy on the issue and replacement of PPE

Any person (including Client, Designers etc.) found on site without the necessary PPE will be removed from site until the PPE is supplied and worn.

The Contractor shall carry adequate stocks of Hi-visibility Jackets and hard hats for visitors. Failure to comply will result in penalties being applied.

9.4 OCCUPATIONAL HEALTH AND SAFETY SIGNAGE

On-site H&S signage is required. Signage shall be posted up at the appropriate fixed or temporary working areas, on scaffolding, and other potential risk areas/operations including vehicles. These signs shall be in accordance with the requirements of the General Safety Regulations or SANS requirements as amended. Signage is to be noted on the site drawings indicating where fixed signage is required.

Signage at site camp is to include (but not be limited to) the following:

- 'no unauthorised entry'
- 'Warning, Construction site – Keep out' or similar
- 'report to site office';
- 'site office';
- 'hard hat area' or other PPE requirements noted;
- First aid box positions (including vehicles), and
- Fire extinguishers

Signs shall be posted permanently or temporarily at areas of work onsite indicating that a construction site is being entered and that persons should take note of safety requirements.

The Contractor shall establish a system for controlling and recording entrance to the Site office and camp area.

Areas of work are to be signed in accordance with layouts agreed by the engineer's representative and construction supervisor.

Records are to be kept and signed by both parties.

These records, daily check lists and photographic evidence will need to be kept on file and form part of the consolidated file at the end of the project.

9.5 INDUCTION OF EMPLOYEES AND VISITORS, GENERAL H&S TRAINING

A formal induction programme is to be submitted as an addendum for approval with the H&S plan. Inductions must be carried out for all workers and visitors to the site. Pre-task training is required to ensure workers are familiar with the risks and H&S measures of the work or tasks to be done. Such training is to be done at least daily. Records of inductions and pre-task training are to be kept in the H&S file.

Any person found on site without proof of induction will be removed from site until the proof is supplied and, and penalties may be issued for non-compliance.

9.6 USE OF SUPPORT WORK, SCAFFOLDING AND OTHER TEMPORARY WORKS

Where temporary works are envisaged on the project, these must be properly designed and signed off by a competent person. In these instances, a competent person is defined as a Professional Engineer (registered with ECSA) who has sufficient experience in the design of the type of temporary work in question to be able to assess the design. The appropriate competent persons are to be appointed to manage and monitor such works to the satisfaction of the Engineer. Where the scaffolding, and /or support work is to be supplied and designed by a specialist company, care must be taken to comply with all the requirements of the supplier. Records and registers are to be properly completed and kept in the H&S file.

A fall protection plan is to be available and supplied as an addendum to the H&S plan. The fall protection plan must be appropriate for the project. Method statements, appropriate risk assessments, safe work procedures and training are to be available prior to work commencing.

Construction drawings shall be required for all temporary structures as they relate to the project. The drawings shall be accompanied by full calculations, design loads and any relevant test results as required by the SANS code and ensure adequate allowance for the development of appropriate documentation and training. All drawings are to be checked and signed by a competent structural engineer (registered with ECSA).

The focus for working at height shall include fall restraint systems where possible except during assembling or dismantling top components or where it is not deemed safe. The relevant SANS codes are to be applied as they apply to the works and the project, such as:

- SANS 10085
- SANS 10333 (parts 1-3)

Should part of the works be contracted out, competent Contractors are to be appointed and submit documentation according to the project requirements. The PC is to note if such work is to be contracted to specialists in the H&S Plan. The plan is to be developed and work managed by a competent person for the duration of the project. The following aspects must be included:

- The public or users of structures are to be protected at all times by way of hoarding, barricading or fencing
- Notices to be posted
- Restrictions or stoppage when weather conditions are deemed hazardous
- Permit system for working at heights
- Prevention of falling tools, equipment or people
- Link to emergency plan regarding rescue

All workers are to be in possession of valid certificates of fitness that extend for the duration of the works. Note the requirements in the section relating to medical surveillance.

Registers and all relevant documentation are to be placed in the H&S file. Work will be stopped and penalties applied to any work at heights that is not compliant.

Failure to do so will be considered a serious offence.

9.7 TESTING LABORATORY AND THE USE OF RADIOACTIVE EQUIPMENT

When the P.C. makes use of a service provider, the service provider will be seen as a Contractor and all the H&S rules and requirements are to be met by the Service Provider. Mandatory agreements, Inductions and emergency requirements among other are to be addressed and managed to ensure limitation of H&S risks.

The use of radioactive equipment for the measuring of compaction parameters shall conform to the requirements of the "Code of Practice for the safe use of soil moisture and density gauges containing radioactive sources" as published by the Department of Health: Directorate: Radiation Control Soil revised September 2001. Method statements, risk assessments and the appropriate training will be required.

Failure to do so will be considered a serious offence.

9.8 TRANSPORTATION OF WORKERS ON SITE

Transportation of workers shall comply with the relevant legislative requirements. Vehicles used to transport workers to, from, or on site, shall comply with the National traffic act. The licence disc of the vehicle shall prescribe the number of persons transported. No equipment or materials shall be transported in the same compartment at the same time as workers.

Failure to transport workers in a safe manner will be regarded as a serious offence. Failure to do so

will be considered a serious offence.

9.9 QUARRIES, BORROW PITS, CRUSHERS, BLASTING AND BATCH PLANTS

It must be noted that the use of quarries and borrow pits falls under the Mine Health and Safety Act ((290f1966 and its Regulations. Work in these areas must comply with these requirements and separate appointments and CoPs will be required.

Where single or multistage crushers are established on site, for quarries or borrow pits, the requirements of the MH&SA as well as the OH&SA and Regulations shall apply. Dust suppression systems (water or closed systems) and regular monitoring are required. The added requirement of Chest X rays for workers is to be added to pre-employment medicals and repeated 2 yearly thereafter.

The Department of Mineral Resources (DMR), as well as the H&S Agent will carry out audits on this aspect of the project. Non-conformances raised by either party will require closeout within specified time periods negotiated at the time.

Whichever form of batch plant is used, for mixing concrete or slurries for surfacing, guards and protection of nip points, emergency stops etc. are to be appropriately managed by competent supervision. Edge protection, movement of plant and dust management are required.

All blasting must comply with the Explosives Act No. 15 of 2003 and the OHS Act and MH&SA or other legislation as they apply. Method statements and risk assessments will be required before blasting will be permitted. The Engineer and H&S Agent will be required to approve the arrangements. Should a blasting Contractor be used, the requirements relating to the management of Contractors shall apply.

Failure to do so will be considered a serious offence.

9.10 MANAGEMENT OF PLANT AND EQUIPMENT

A substantial amount of large plant and equipment is likely to be used. Close control of the PCs plant and equipment is required, including that of Contractors.

Daily monitoring of all plant and equipment is required prior to commencing work. Full lists of hired and own plant are to be available at the H&S Agent's audit. All daily inspection records are to be kept in the H&S file. Registers are not to be more than 1 week behind. Plant hire or haulage Contractors are to comply with the requirements and comply with all H&S standards for the project.

Only competent, fit plant operators are to be used. Medical certificates of fitness are required for all operators. Noise levels are to be displayed on plant.

Should any form of lifting device or crane (fixed or mobile) be used during the project for deliveries, moving of supplies or equipment, the appropriate documentation must be made available. Method statements, risk assessments, safe work procedures and training are to be available prior to work commencing. A procedure for managing loads and lifting must be made available as an addendum to the H&S Plan

Any plant or slings used to lift plant or material require annual load testing by an AIA. Operators are to be adequately trained and certified to operate cranes. Certificates and registers are to be placed in the H&S file.

Movement of plant in closures and in confined working areas is to be closely monitored and managed by the TSO and supervisors. The blind spots of plant are to be taken into account and workers and Contractors protected accordingly.

Failure to do so will be considered a serious offence.

9.11 EXCAVATIONS

Steep slopes require careful management. The Geotechnical report is available and is to be utilised to assess ground conditions. Shoring may be required, where indicated in the Geotechnical report or by the Engineer. The PC is to ensure that the Community Liaison Officer (CLO) and the local community, schools and general public are aware of the dangers of open excavations.

The H&S Officer is to ensure that all Contractors follow the same requirements as they relate to excavations. The Engineer may stop work at any time should the working area be deemed unstable. Method statements are to be approved by the Engineer and risk assessments are required. Workers are to be trained in the risks and protection measures, and the appropriate PPE is to be issued as highlighted in the risk assessments.

A competent person is to be appointed to manage excavations. All equipment and conditions are to be checked daily prior to work commencing. Communal registers for excavations on site are not permitted. Excavations should preferably not be open beyond what can be worked daily. Where excavations need to remain open, all excavations are to be properly protected, candy striped tape is not acceptable. Plastic mesh

supported on adequate droppers 1m high should be used (approved by the Engineer). Berms are required to be a safe distance from the edge of the excavation. Stepped excavations are encouraged.

Adequate numbers of ladders are to be available to ensure safe access and egress from excavations. Ladders are required for excavations of greater than 900mm, and the ladder is to extend at least 1m above the edge of the excavation. No wooden ladders are allowed on site. Registers are to be kept current and placed in the H&S file.

Failure to do so will be considered a serious offence.

9.12 INCLEMENT WEATHER

Information regarding climates for the specific regions must be accessed from <http://www.saexplorer.co.za>

Should the discomfort index rise above 105, work may be partially or totally stopped. Workers must be supplied with adequate protective clothing and shelters provided as necessary. A wind speed should be set at which work may be stopped or the workers in an affected area moved. Note must be taken of the environmental regulations particularly section 2.1 *“Provided that, where outdoor work is performed, the employer shall take such measures and such precautions in an environment in which the actual dry-bulb temperature is less than 6°C at any time”*

The emergency plan is to include how these and other weather extremes identified are to be managed. All decisions regarding work stoppage will be decided between the PC, the H&S Officer and the Engineer.

Failure to manage specific conditions or address issues timeously will be considered a serious offence.

9.13 AUDITING

External auditing by the H&S Agent will be done at least monthly or more frequently if deemed required by the H&S Agent, Client or Engineer. The site will be inspected and the documentation audited relative to the activities and H&S plan. The H&S Officer of the PC must accompany the Client, or the H&S Agent, on all audits and inspections.

The PC will ensure that all their Contractors are audited at least monthly prior to the H&S Agents monthly audits. Audits may be done more frequently where short term contracts are in place, or deemed high risk. Audit results will be acted upon and non-conformances and penalties issued. The Client, Engineer or H&S Agent may act or require further outcomes if non-compliances are noted or unsafe acts are noted on site. Internal audits are to include site conditions as well as ensuring H&S files are appropriate, and compliant.

Failure to address findings or non-conformances will be considered a serious offence.

9.14 COMMUNICATION ON SITE

All communication on site will be done through the Engineer to the PC and be in writing, including the issue and responses to non-conformances and H&S audit results.

Failure to address issues timeously will be considered a serious offence.

9.15 CARE OF WORKERS ON SITE (WELFARE)

Adequate toilets, clean, safe drinking water and decent shelter will be afforded workers at all times.

Toilets will be within reasonable distance of workers, or placed with each working team in safe, with reasonable privacy. Only bacterial or enzyme based products may be used in portable toilets; the use of products containing formaldehyde is not allowed. The ratio of portable toilets on site will be a minimum of 1:10. Daily cleaning and increased removal of waste may be required if deemed necessary. Proof of safe disposal of waste will be required. Waste removal Contractors, or the PC are to ensure the appropriate H&S systems are available to limit exposure to sewage.

Hand washing facilities will be provided. The Environmental and Facilities Regulations will be adhered to at all times.

Failure to address issues timeously will be considered a serious offence.

9.16 DISCIPLINE, ALCOHOL AND SUBSTANCE ABUSE

All employees (management included) are to follow instructions given in the interest of H&S. Disciplinary action is to be imposed on those who do not follow such instructions or company rules or policies.

No person is allowed to work or access site if under the influence of alcohol or other substances that could impact on their own or others safety. The PC is to have a drug and alcohol policy available to manage such instances.

These requirements are applicable to any employee of any organization providing services on site. Penalties may also be applied by the Client, OHS Agent or Engineer.

9.17 ELECTRICAL EQUIPMENT

In addition to the requirements of the Electrical Machinery Regulations and the General Machinery Regulations any electrical distribution board used for construction work shall be fitted with suitable earth leakage protection. Leads must be properly and firmly connected. Plugs and sockets shall be in good and safe condition.

All electrical apparatus, other than electrical hand tools, shall have a physical "lock out" system which will prevent any operation other than that authorized by a supervisor. A "lock out" sign shall be displayed when the apparatus is not in use.

Method statements and safe work procedures will be required for all work involving electrical apparatus.

10. HEALTH AND SAFETY FILE

The documentation submitted and approved following the awarding of the contract will be used to form the H&S file. The H&S file is required to be laid out in a logical manner, and documentation filed within the file is to be easily accessible. The following completed information shall be included (but not be limited to):

- The PSHSS;
- The H&S Plan;
- Appointment by Client;
- Mandatary Agreement with Client;
- Notification of construction work;
- A record of all working drawings, calculations and design where applicable;
- Detailed list of Contractors with contact details, appointments, Mandataries etc.;
- Record of Competencies;
- Training Records.
- Permits;
- Method statements;
- Risk assessments;
- Safe work procedures;
- Emergency and injury management;
- Safety data Sheets..Medical surveillance records;
- Registers, and
- Records of audits, minutes etc.
- Plant lists
- Temporary electrical installations
- Employee records (who is on site)

10.1 SUPPORTING DOCUMENTATION

The following list is not absolute, and the PC is expected to assess if further any further information should be submitted as supporting documentation, as it relates to the H&S plan. The inclusion of other, relevant documents is encouraged.

All documents as required by the Act and Regulations, including (but not limited to):

- Proof of registration with the Compensation Commissioner or FEMA;
- Proposed Organogram;
- Appointments under the Regulations;
- Examples of internal audits;
- Inspection registers of plant and equipment;
- Non-conformance system;
- Information relating to hazardous materials used and stored on site with SDSs;
- All Method Statements, Hazard Identification and Risk Assessments for the project;
- All Health and Safety Plans for the project;
- Examples of minutes of all relevant meetings related to H&S;
- Registers for all plant and equipment
- Incident records, including investigations and results, and
- Medical certificates of fitness and medical surveillance programme.

The H&S File shall closed out following the hand-over of the project. A list will be made available and the contents will be agreed to between the H&S Agent and the PC towards the end of the project.

11 NON-CONFORMANCES

Should, at any time, the works, or part of the works, be stopped due to unsafe acts or non-compliance with the Clients or PCs H&S Plan; neither the PC nor any other Contractor shall have a claim for extension of time or any other compensation.

The following constitute examples of the types of non-conformances that will attract penalties:

Minor: Penalty: R50/count	Medium: Penalty: R500/count and a non- conformance	Severe Penalty: R5000/count, a non- conformance and/or activity stoppage
Non-use of PPE supplied	Toilets not supplied or regularly serviced; lack of drinking water	Contractors working without Health and Safety Plan approval
Non completion of registers for plant and equipment on site	Contractors not audited	Workers transported in contravention of the OHS plan or legal requirements
Lack of H&S signage at work areas	Working without training or the appropriate H&S method statements	Invalid Letters of Good Standing
Tools and equipment identified in poor condition during inspections	Legal non-conformances identified during the previous audit and not addressed within the agreed time frame	Non-compliance with traffic accommodation requirements: layout or physical conditions
	No monthly OHS report at site meeting to report on	Fall protection harness not tied off / not worn
	No certificates of fitness for workers as required	Employees performing work without a medical certificate of fitness allowing them to perform such activities.
	Working without approved method statements	Any breach of legal requirements

11.1 FAILURE TO COMPLY WITH PROVISIONS

Failure or refusal on the part of the contractor to take the necessary steps to ensure the safety of workers and the general public in accordance with these specifications or as required by statutory authorities or ordered by the engineer or the Client’s H&S Agent, shall be sufficient cause for the engineer to apply penalties as follows:

- (i) A penalty as shown in the Table above shall be deducted for each and every occurrence of non-compliance with any of the requirements of the PSHSS.
- (ii) In addition, a time-related penalty of R500,00 per hour over and above the fixed penalty shall be deducted for non-compliance to rectify any non-conformance within the allowable time after a site instruction to this effect has been given by the RE or Engineer. The site instruction shall state the agreed time, which shall be the time in hours for reinstatement of the defects. Should the Contractor fail to adhere to this instruction, the time-related penalty shall be applied from the time the instruction was given.

12: MEASUREMENT AND PAYMENT

The payment items for Occupational Health & Safety are contained in Schedule C of the Bill of Quantities. The same rules are applicable in respect of the pricing of these items as for every other payment item. Attention is drawn to the Pricing Instructions in Part C2.1 of this document.

Item and Unit B13001	Preparation of Contractor’s Project Specific Health and Safety Plan.	(Lump Sum
(L.S)) The rate for this item must cover all expenses incurred in preparing the Contractor’s project specific Health and Safety Plan as required by the Client’s project specific Health and Safety Specification in this document		
B13002	Principal Contractor’s initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations.	(Lump Sum
(L.S))		
The full amount will be paid in one instalment only when the Client’s Agent has verified and approved the following		
(a) The Principal Contractor has notified the Provincial Director of the Department of Labour in writing of the project, Annexure A to the Regulations.		
(b) The Principal Contractor has made the required initial Appointments of Employees and Contractors.		
(c) The Client has approved the Principal Contractor’s project Health and Safety Plan.		
(d) The Principal Contractor has set up his Health and Safety File.		
B13003	Principal Contractor’s time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations.	(Mo
nth (Mth)		
The amount shall represent full compensation for that part of the Principal Contractor’s general obligations in terms of the Occupational Health and Safety Act and Regulations which are mainly a function of time. Payment will be made when the Client’s Agent has verified the Principle Contractor’s compliance as part of the audit. This will include the updating and administration of the Health and Safety file		
B13004	Provision of Personal Protective Equipment (PPE) as listed in the Bill of Quantities. (Number (No))	
The rates for these items shall include for the procurement, delivery, storage, distribution and all other actions required for the supply of PPE to the employees of the Principle Contractor, full or part time, requiring them. Contractors are responsible for their on costs in this regard. Any items of PPE not included on the list will be paid for only after the Engineer has agreed to their acquisition.		

Items listed will include, among others which may be noted, are: hard hats, reflective vests, reflective bibs, high visibility overalls, protective foot wear, fall arrestor harness and tethers, gloves, ear muffs, earplugs and dust masks of appropriate type. Normal items such as standard overalls, waterproof clothing, gum boots and standard workshop safety equipment such as welding masks and goggles will not be paid for.

Payment will be based on the issues register for PPE as kept by the Construction Health and Safety Officer, backed up by paid invoices if requested.

B13005 Provision of full time Construction Health and Safety Officer as per 8.1.2 (Month)

The Tender sum shall include for the cost of a Construction Health and Safety Officer on a full time basis, his overheads, transport and all others items necessary for the proper carrying out of his duties, which include the induction and training of all persons on site. The Health and Safety Officer will attend site meetings.

B13006 Costs of Medical Surveillance (Unit (No))

This item shall covers all costs in involved in the obtaining of baseline, periodic (at least annually) and exit medical certification and conducting medical surveillance for all workers and especially operators of Construction vehicles and mobile plant as contemplated in CR 21(d) (ii); Workers at Heights, Regulation 10 (2) of the Construction Regulations and Workers exposed to hazardous chemicals including bituminous fumes under Regulation 7 of the HCSR; for temporary workers and workers exposed to noises at or above the limits given in the Noise-induced Hearing Loss regulations, as stipulated above.

Workers in the permanent employ of the Contractor will only be paid for if their certificates require updating. Chest x-rays will be required in the case of workers who may be exposed to high concentrations of dust (silica).

- (i) Initial (baseline) medical examinations, including audiometric and lung function testing.
- ii) Periodic examinations
- iii) Exit examinations.

B13007 Induction Training (Unit (No))

This item shall cover all costs incurred for the health and safety inductions as set out on Regulation 7 of the Construction regulations and the proof of induction required. Payment will be made on the figures contained in the induction section of the Health and Safety File.

B13008 Environmental Monitoring. (Unit (No) of tests)

- i) Air quality monitoring

Payment for this item shall cover all costs incurred in testing and monitoring the environment in respect of general health hazards including the presence of hazardous chemicals, as required by the Construction Regulations and the Mine Health and Safety Act.

- ii). Compliance with Amendment of the Occupational Exposure Control Limit for Silica in Table 1 of the Hazardous Chemical Substances Regulations (February 2010) **(Unit (No))**
- iii) Air sampling in situ **(Unit (No))**
- iv) Analysing samples **(Unit (No))**
- v) Tests on Workers **(Unit (No))**

The rates for these items shall include for all air monitoring, air sample testing and tests in workers for silica exposure as required by the above amendment. It should be noted that these items must be under the control of an authorised inspection authority which would normally be a registered H&S hygienist or occupational health practitioner familiar with the Hazardous Chemical Regulations and include for all necessary costs in this regard including travelling to and from site and all required reporting.

B13009 **Establishment of noise levels** **(Unit**
(No))

This item shall cover all costs involved in the establishment of noise zones, including any workshops, in terms of Regulation 9 of the Noise-induced Hearing Loss Regulations. Where a zone has previously been established for a particular item of plant within the last two years, the test need not be repeated but must be kept valid for the duration of the Contract.

B13010 **Payment for Health and Safety Representatives at H&S committee meetings.** **(Unit Hr)**

The rate for this item shall cover the cost to the Contractor of the attendance of Health and Safety representatives at monthly meetings and shall compensate the Contractor for loss of productive time at these meetings

B13011 **Provision of First Aid Boxes.** **(Unit (No))**

The rate for this item shall cover all costs incurred in the provision and maintaining of first aid boxes as outlined in Paragraph 7 above.

B13012 **Transportation of Workers.** **(Lump Sum)**

The Lump sum tendered under this Item shall cover all costs involved in the safe transportation of workers as outlined above. Payment will be made in equal amounts for the duration of the contract.

B13013 **Submission of the Consolidated Health and Safety File.** **(Lump Sum)**

Expenditure under this item shall be made in accordance with the General Conditions of Contract.

This amount will be paid only once the Principal Contractor has met all his obligations in respect of the Occupational Health and Safety Act and the Construction Regulations and has submitted his Health and Safety File complete as envisaged on this specification to the Client's satisfaction. This must be done prior to the issue of a Certificate of Completion

Notwithstanding any statements in section 1300 of the COLTO Specifications, should the Certificate of Practical Completion be issued after the Contractual Completion date no payment will be made under items C.02 and C.03 for the period between the Contractual Completion date and the date of issue of the Certificate of Practical Completion. This, however does not relieve the Principal Contractor of any of his legal responsibilities for Occupational Health and Safety in terms of the Act and Regulations

ANNEXURE A

RECORDS TO BE KEPT ON SITE

ITEM	RECORD TO BE KEPT	RESPONSIBLE PERSON
1.	Notification to Provincial Director – Annexure A Available on site	Principal Contractor
2.	Copy of Principal Contractor's Health & Safety Plan Available on request	Client (Consultant)
3	A Valid Letter on Good Standing in respect of Workman's Compensation.	
4	Copy of Principal Contractor's Health & Safety Plan As well as each Contractor's Health & Safety Plan Available on request	Principal Contractor
5	Health & Safety File opened and kept on site (including all documentation-required in respect of the OHS & Regulations. Available on request	Principal Contractor
6.	Consolidated Health & Safety File handed to Client on completion of Construction work. To include all documentation required by the OHS & Regulations.	Principal Contractor
7.	Comprehensive and Updated List of all Contractors on site, the agreements between the parties and the work being done.	Principal Contractor
8.	Keep record on the Health & Safety File of the input by Construction Health and Safety Officer [CR 6 (6)]	Principal Contractor
9.	Risk Assessments, kept up to date and available on site for inspection	Principal Contractor
10.	Proof of Health & Safety Induction Training	Every Employee on site
11.	Construction Supervisor [CR 6 (1)] has latest updated version of Fall Protection Plan [CR 8 (1)]	Principal Contractor
12.	Inform Principal Contractor in writing of dangers and hazards relating to construction work	Designer of Structure
C.	All drawings pertaining to the design of structure On site available for inspection	Principal Contractor
14.	Record of inspection of the structure [First 2 years – once every 6 months, thereafter yearly]	Owner of Structure
15.	Maintenance records – safety of structure Available on request	Owner of Structure
16.	Drawings pertaining to the design of formwork/support work structure. Kept on site, available on request	Principal Contractor
17.	Record of excavation inspection On site available on request	Principal Contractor
18.	Suspended Platform inspection and performance test records. Kept on site available on request	Principal Contractor
19.	Material Hoist daily inspection entered and signed in record book kept on the premises	Principal Contractor
20.	Maintenance records for Material Hoist Available on site	Principal Contractor
21.	Records of Batch Plant maintenance and repairs On site available for inspection	Principal Contractor
22.	Issuing and collection of cartridges and nails or studs (Explosive Powered Tools) recorded in register – recipient signed for receipt as well as return	Principal Contractor
23.	Findings of daily inspections (prior to use) of Construction Vehicles and Mobile Plant	Principal Contractor
24	Record of temporary electrical installation inspections [once a week] and electrical machinery [daily before use] in a register and kept on site	Principal Contractor
25	Copies of all appointments made in regard to safety supervisors and inspectors	Principal Contractor
26	Record of safety inspections on equipment using radioactive materials.	Principal Contractor
27	Any other records as required by the Client or his OHS Agent	

ANNEXURE B

CLOSE OUT REQUIREMENTS

The H&S files for the Principal Contractors and all Contractors require closure and handover to the Client at the completion of the project. The following list is an example of what should be included, but is not exhaustive. The OHS Agent or the Client may require further information at the time of completion and the Principal Contractor is to ensure that all instructions are met. Documentation would include all records from the start of the project. Daily or monthly plant inspection records are not required unless they are related to an accident. All records to be in electronic format and submitted to the OHS agent for approval in adequately formatted lists and folders. Layout should be logical and in the same order as in the site files.

Health and Safety close out file requirements include:

- a) Client H&S Specification
- b) Principal Contractor's OHS Plan(s)
- c) Organograms
- d) Legal Appointments
- e) Notification to Department of Labour of commencement of work
- f) Letters of Good Standing for the Project
- g) Full files for all Contractors as well as their close out reports
 - List of Contractors
 - Letters of Approval of Contractors
 - Mandatary Agreements
 - Letters of Good Standing
 - Appointments
- h) Incident Records
- i) Non- Conformance records
- j) Agent's Audits
- k) Method Statements
- l) Risk assessments
- m) Safe work procedures
- n) Medical surveillance certificates of fitness. Medical records are to be kept according to the OH&S Act as amended.
- o) All drawings for temporary structures{if required during contract} (suspended beams/scaffolds etc)
- p) Copies of test results, policies and procedures for environmental monitoring (silica, noise, dusts etc.)
- q) Traffic management records and photographs,

Defect and Liability Period

The H&S files are to be kept 'live' for the defect and liability period by the Principal Contractor, including those of their Contractors. Any work required during the defect and liability period will require an assessment of the H&S file by the OH&S Agent prior to any work commencing.

A copy of the as-built Drawings is to be placed on file by the Designers once complete.

ANNEXURE C

NON CONFORMANCES

HEALTH AND SAFETY SITE INSPECTION NON CONFORMANCE NO		
AGENT:	PROJECT:	
Consultant:	Date and time:	
Client	Area:	
Contractor:		
ASPECTS NOTED:	COMMENTS:	COMPLETION REQUIRED BY (DATE):
	□	
	□	
	□	
	□	
	□	
PHOTOGRAPHIC EVIDENCE (if available):		
1	2	
3	4	
OTHER:		
The following penalties are to be applied:		
Signature of RE		
Signature of H&S Officer/Site Agent		
Signature: of H&S Agent		

CLOSE OUT OF CONFORMANCE			
VERIFIED BY AGENT	COMMENTS ON WHAT WAS DONE (ATTACH PROOF IF AVAILABLE)	DATE COMPLETED	
PHOTOGRAPHIC EVIDENCE, OR LIST OF ANNEXURE TO PROVE CLOSURE			
SIGNATURE OF H&S OFFICER OR SITE AGENT			
SIGNATURE OF RE			

SECTION 14000: HEALTH AWARENESS IN THE CONSTRUCTION INDUSTRY

CONTENTS

- B14001 SCOPE
- B14002 DEFINITIONS AND ABBREVIATIONS B14003 BASIC METHOD REQUIREMENT
- B14004 HIV / AIDS AWARENESS EDUCATION AND TRAINING B14005 PROVIDING WORKERS WITH ACCESS TO CONDOMS B14006 ENSURING ACCESS TO HIV / AIDS TESTING
- B14007 APPOINTMENT OF AN HIV / AIDS AWARENESS CHAMPION B14008 MONITORING
- B14009 MEASUREMENT AND PAYMENT

B14001 SCOPE

This specification contains all requirements applicable to the Contractor for creating HIV/AIDS awareness amongst all of the Workers involved in this project for the duration of the construction period, through the following strategies:

- Raising awareness about HIV/AIDS through education and information on the nature of the disease, how it is transmitted, safe sexual behaviour, attitudes towards people affected and people living with HIV/AIDS, how to live a healthy lifestyle with HIV/AIDS, the importance of voluntary testing and counselling, the diagnosis and treatment of Sexually Transmitted Infections and the closest health Service Providers
- Informing Workers of their rights with regard to HIV/AIDS in the workplace
- Providing Workers with access to condoms and other awareness material that will enable them to make informed decisions about sexual practices

B14002 DEFINITIONS AND ABBREVIATIONS

B14002.1 Definitions

Service Provider: The natural or juristic person recognised and approved by the Department of Transport as a specialist in conducting HIV/AIDS awareness programmes

Service Provider Workshop Plan: A plan outlining the content, process and schedule of the training and education workshops, presented by a Service Provider which has been approved by the Representative/Agent

Worker: Person in the employ of the Contractor or under the direction or supervision of the Contractor or any of his Sub-contractors, who is on site for a minimum period of 30 days in all.

B14002.2 Abbreviations

- HIV:Human Immunodeficiency Virus
- AIDS: Acquired Immune Deficiency Syndrome
- STI : Sexually Transmitted Infection

B14003 BASIC METHOD REQUIREMENT

The Contractor shall, through a Service Provider, conduct onsite workshops with the Workers

The Service Provider shall develop and compile a Service Provider Workshop Plan to be presented at the workshops and which will be best suited for this project to achieve the specified objectives with regard to HIV/AIDS awareness.

The Service Provider Workshop Plan shall be based on the following information provided by the Contractor:

- Number of Workers and Sub-contractors on site
- When new Workers or Sub-contractors will join the construction project
- Duration of Workers and Sub-contractors on site
- How the maximum number of Workers can be targeted with workshops
- How the Contractor prefers workshops to be scheduled, e.g. three hourly sessions per Worker, or one 2.5 hour workshop per Worker
- Profile of Workers, including educational level, age and gender (if available)
- Preferred time of day or month to conduct workshops
- A Gantt chart reflecting the construction programme, for scheduling of workshops
- Suitable venues for workshops

The Contractor shall submit the Service Provider Workshop Plan for approval within 21 days after the site handover. After approval by the Representative/Agent, the Contractor shall make available a suitable venue that will be conducive to education and training

The Service Provider Workshop Plan shall address, but will not be limited to the following:

- 3.1 The nature of the disease;
- 3.2 How it is transmitted;
- 3.3 Safe sexual behaviour;
- 3.4 Post exposure services such as voluntary counselling and testing (VCT) and nutritional plans for people living with HIV/AIDS;
- 3.5 Attitudes towards other people with HIV/AIDS;
- 3.6 Rights of the Worker in the workplace;
- 3.7 How the Awareness Champion will be equipped prior to commencement of the HIV/AIDS awareness programme with basic HIV/AIDS information and the necessary skills to handle questions regarding the HIV/AIDS awareness programme on site sensitively and confidentially;
- 3.8 How the Service Provider will support the Awareness Champion;
- 3.9 Location and contact numbers of the closest clinics, VCT facilities, counselling services and referral systems;
- 3.10 How the workshops will be presented, including frequency and duration;
- 3.11 How the workshops will fit in with the construction programme;
- 3.12 How the Service Provider will assess the knowledge and attitude levels of attendees to structure workshops accordingly;
- 3.13 How the video will be used;
- 3.14 How the Service Provider will elicit maximum participation from the Workers;
- 3.15 A questions and answers slot (interactive session)

The Service Provider Workshop Plan shall encompass the Specific Learning Outcomes (SLO) as stipulated

B14004 HIV/ AIDS AWARENESS EDUCATION AND TRAINING

4.1 Workshops

The Contractor shall ensure that all Workers attend the workshops

The workshops shall adequately deal with all the aspects contained in the Service Provider Workshop Plan. A video of HIV/AIDS in the construction industry, which can be obtained from all Regional Offices of the Department of Transport, is to be screened to Workers at workshops. In order to enhance the learning experience, groups of not exceeding 25 people shall attend the interactive sessions of the workshops.

4.2 Recommended practice

4.2.1 Workshop Schedule

Presenting information contained in the Service Provider Workshop Plan can be divided in as many workshop sessions as deemed practicable by the Contractor, provided that all Workers are exposed to all aspects of the workshops as outlined in the Service Provider Workshop Plan

Breaking down the content of information to be presented to Workers into more than one workshop session however, has the added advantage that messages are reinforced over time while providing opportunity between workshop sessions for Workers to reflect and test information. Workers will also have an opportunity to ask questions at a following session

4.2.2 Service Providers

A database of recommended Service Providers is available from all Regional Offices of the Department of Transport

4.2.3 HIV/AIDS Specific Learning Outcomes and Assessment Criteria

Workers shall be exposed to workshops for a minimum duration of two-and-a-half hours. In order to set a minimum standard requirement, the following specific learning outcomes and assessment criteria shall be met

4.2.3.1 UNIT 1: The nature of HIV/AIDS

After studying and understanding this unit, the Worker will be able to differentiate between HIV and AIDS and comprehend whether or not it is curable. The Worker will also be able to explain how the HI virus operates once a person is infected and identify the symptoms associated with the progression of HIV/AIDS

Assessment Criteria:

1. Define and describe HIV and AIDS
2. List and describe the progression of HIV/AIDS

4.2.3.2 UNIT 2: Transmission of the HI virus

After studying and understanding this unit, the Worker will be able to identify bodily fluids that carry the HI virus. The Worker will be able to recognise how HIV/AIDS is transmitted and how it is not transmitted

Assessment Criteria:

1. Record in what bodily fluids the HI virus can be found
2. Describe how HIV/AIDS can be transmitted
3. Demonstrate the ability to distinguish between how HIV/AIDS is transmitted and misconceptions around transmittance of HIV/AIDS

4.2.3.3 UNIT 3: HIV/AIDS preventative measures

After studying and understanding this unit, the Worker will comprehend how to act in a way that would minimise the risk of HIV/AIDS infection and to use measures to prevent the HI virus from entering the bloodstream

Assessment Criteria:

1. Report on how to minimise the risk of HIV/AIDS infection
2. Report on precautions that can be taken to prevent HIV/AIDS infection
3. Explain or demonstrate how to use a male and female condom
4. List the factors that could jeopardize the safety of condoms provided against HIV/AIDS transmission

4.2.3.4 UNIT 4: Voluntary HIV/AIDS counselling and testing

After studying and understanding this unit, the Worker will be able to recognise methods of testing for HIV/AIDS infection. The Worker will be able to understand the purpose of voluntary HIV/AIDS testing and pre- and post-test counselling

Assessment Criteria:

1. Describe methods of testing for HIV/AIDS infection
2. Report on why voluntary testing is important
3. Report on why pre- and post-test counselling is important

4.2.3.5 UNIT 5: Living with HIV/AIDS

After studying and understanding this unit, the Worker will be able to recognise the importance of caring for people living with HIV/AIDS and be able to manage HIV/AIDS

Assessment Criteria:

1. List and describe ways to manage HIV/AIDS
2. Describe nutritional needs of people living with HIV/AIDS
3. Describe ways to embrace a healthy lifestyle as a person living with HIV/AIDS
4. Explain the need for counselling and support to people living with HIV/AIDS

4.2.3.6 UNIT 6: Treatment options for people with HIV/AIDS

After studying and understanding this unit, the Worker will be familiar with the various treatments available to HIV/AIDS infected or potentially HIV/AIDS infected people

Assessment Criteria:

1. Discuss anti-retroviral therapy
2. List methods of treatment to prevent HIV/AIDS transmission from mother-to-child
3. Describe the need for treatment of opportunistic diseases for people living with HIV/AIDS
4. Describe post exposure prophylactics

4.2.3.7 UNIT 7: The rights and responsibilities of Workers in the workplace with regard to HIV/AIDS

After studying and understanding this unit, the Worker will be able to identify the rights and responsibilities of the Worker living with HIV/AIDS in the workplace. The Worker will recognise the importance of accepting colleagues living with HIV/AIDS and treating them in a non-discriminative way

Assessment Criteria:

1. Discuss the rights of a person living with HIV/AIDS in the workplace
2. Discuss the responsibilities of a person living with HIV/AIDS in the workplace
3. Report on why acceptance and non-discrimination of colleagues living with HIV/AIDS is important

4.3 Displaying of plastic laminated posters and distribution of information booklets

The Contractor shall obtain a set of four laminated posters conveying different key messages and information booklets, which are available from all Regional Offices of the Department of Transport

The above-mentioned posters and information booklets have been prepared to raise awareness and to share information about HIV/AIDS and STI's

Posters or display stands shall be displayed on site as soon as possible, but not later than 14 days after the date of site handover

Posters shall be displayed in areas highly trafficked by Workers, including toilets, rest areas, the site office and compounds

The posters on display must always be intact, clear and readable

Information booklets must be distributed to all Workers as soon as possible, but not later than 14 days after site handover, or as soon as the Worker joins the site

B14005 PROVIDING WORKERS WITH ACCESS TO CONDOMS

The Contractor shall provide and maintain condom dispensers and make both male and female condoms, complying with the requirements of SABS ISO 4074, available at all times to all Workers at readily accessible points on site, for the duration of the contract. The Contractor may obtain condom dispensers from the Department of Health and condoms may be obtained from the Local Clinic or the Department of Health.

At least one male and one female condom dispenser and a sufficient supply of condoms, all to the approval of the Representative/Agent, shall be made available on site within 14 days of site hand over. Contractors should note that arrangements to obtain condoms from the Department of Health Clinics prior to site hand over may be necessary, to ensure that condoms are available within 14 days of site handover.

Condoms shall be made available in areas highly trafficked by Workers, including toilets, the site office and compounds.

B14006 ENSURING ACCESS TO HIV/AIDS TESTING AND COUNSELLING FACILITIES AND TREATMENT OF SEXUALLY TRANSMITTED INFECTIONS (STI)

The Contractor shall provide Workers with the names of the closest Service Providers that provide HIV/AIDS testing and counselling and Clinics providing Sexually Transmitted Infection (STI) diagnosis and treatment. Information on these Service Providers and Clinics must be displayed on a poster of a size not smaller than A1 in an area highly trafficked by Workers.

B14007 APPOINTMENT OF AN HIV/AIDS AWARENESS CHAMPION

Within 14 days of site handover the Contractor shall appoint an Awareness Champion from amongst the Workers, who speaks, reads and writes English, who speaks and understands all the local languages spoken by the Workers and who shall be on site during all stages of the construction period. The Contractor shall ensure that the Awareness Champion has been trained by the Service Provider on basic HIV/AIDS information, the support services available and the necessary skills to handle questions regarding the HIV/AIDS programme in a sensitive and confidential manner

The Awareness Champion shall be responsible for:

- 7.1 Liasing with the Service Provider on organising awareness workshops;
- 7.2 Filling condom dispensers and monitoring condom distribution;
- 7.3 Handing out information booklets;
- 7.4 Placing and maintaining posters

B14008 MONITORING

The Contractor shall grant to the Representative/Agent reasonable access to the construction site, in order to establish that the Contractor complies with his obligations regarding HIV/AIDS awareness under this contract

The Contractor must report problems experienced in implementing the HIV/AIDS requirements to the Representative/Agent

The attached SITE CHECKLIST (SCHEDULE A) shall be completed and submitted at every construction progress inspection to the Representative/Agent

The attached SERVICE PROVIDER REPORT (SCHEDULE B) shall be completed and submitted on a monthly basis to the Department’s Project Manager, through the Representative/Agent

The attached CONTRACTOR HIV/AIDS PROGRAMME REPORT (SCHEDULE C), a close out programme report, shall be completed by the Contractor at the end of the contract

B14009 MEASUREMENT AND PAYMENT

It is required of the Contractor to thoroughly study the HIV/AIDS Specification of the Department that must be read together with and is deemed to be incorporated in the Bills of Quantities. Provision for pricing of HIV/AIDS awareness is made under items B130.1, B130.2, B130.3, B130.4 and B130.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

The Contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the Representative/Agent, notwithstanding the provisions of any other clauses to the contrary, reserves the right to delay issuing any progress payment certificate until the Contractor provides satisfactory proof of compliance. The Contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.

Item	Unit
B1400.1 AWARENESS CAMPAIGN	
(i) Fixed	Lump Sum
(ii) Value Related	Sum
(iii) Time Related.....	Month

Selection, appointment, briefing and making available of an Awareness Campaign including provision of all relevant services, all in accordance with the HIV/AIDS Specification

Item	Unit
B1400.2 AWARENESS WORKSHOPS	
(i) Fixed	Lump Sum
(ii) Value Related	Sum
(iii) Time Related.....	Month
<p>Selection and appointment of a competent Service Provider approved by the Representative/Agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification</p>	

Item	Unit
B1400.3 POSTERS, BOOKLETS, VIDEOS, ETC.	
(i) Fixed	Lump Sum
(ii) Value Related	Sum
(iii) Time Related.....	Month
<p>Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification.</p>	

Item	Unit
B1400.4 ACCESS TO CONDOMS	
(i) Fixed.....	Lump Sum
(ii) Value Related	Sum
(iii) Time Related.....	Month
<p>Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p>	

Item	Unit
B1400.5 MONITORING	
(i) Fixed	Lump Sum
(ii) Value Related	Sum
(iii) Time Related.....	Month
<p>Monitoring HIV/AIDS awareness of workers, providing the Representative/Agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification.</p>	

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B15001 SCOPE: ME MANAGEMENT

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REQUIREMENT: TRAINING OF LOCAL LABOUR

B15005 MEASUREMENT AND PAYMENT

15000 OBJECTIVE

A major objective of the targeted procurement procedure is to extend economic opportunities and entrepreneurial capacity to all localities by the optimum utilisation of the resources existing in the vicinity of projects, the development of these resources in the execution of the project, and by maximising the amount of project funds retained within the project locality.

A further objective is to ensure that the S'hamba Sonke, Integrated Contractor Development Programme (ICDP) and Provincial Roads Maintenance Grant (PRMG) requirements and principles, which are applicable, are to be adhered to in the implementation of the project.

B15001 SCOPE:

This section provides the specifications that relate to the contractor's implementation of the policies and initiatives of the Government, community participation, and employment of Micro Enterprises (ME), training and mentoring of Micro Enterprises, and engagement and training of labour recruited from local communities. These specifications should be read in conjunction with the various statutes and legislation that relate to small businesses and Broad-Based Black Economic Empowerment.

In this regard all tenders will be considered with specific reference to applicable legislation in force from time to time and which are specifically applicable to organs of state for example the following:-

- (i) The Constitution of the Republic of South Africa, 1993;
- (ii) Public Finance Management Act, 1999 (Act No 1 of 1999);
- (iii) Preferential Procurement Policy Framework Act, 2000 (Act No 5 of 2000);
- (iv) Broad-Based Black Economic Empowerment Act, 2003 (Act No 53 of 2003);
- (v) Construction Industry Development Board Act, 2000 (Act No 38 of 2000) and Regulations; and
- (vi) National Small Business Amendment Act, 2003 (Act No 26 of 2003).

15001.1 DEFINITIONS

The following words and expressions shall have the meanings stated.

Project Management Team (PMT): three persons comprising the Employer, Engineer and Contractor.

Micro Enterprise (ME): a separate and distinct business entity, including cooperative enterprises and non-governmental organisations, managed by one owner or more, including its branches or subsidiaries, if any, and is registered with the South African Revenue Service, and which can be classified as a micro enterprise by satisfying the size variation criteria according to the type of enterprise in table 15001a below:

TABLE 15001a: SMME SUPPLIERS AND OTHER SERVICE PROVIDERS *				
Size	Total Full-time Equivalent of Paid Employees	Total Annual Turnover	Total Gross Asset Value (fixed property excluded)	CIDB Grading
	<i>less than</i>	<i>less than</i>	<i>less than</i>	
Medium	200	R26 m	R5 m	7
Small	50	R6 m	R1 m	5 & 6
Micro	5	R0.2 m	R0.1 m	1 to 4

* In terms of the National Small Business Amendment Act, 2003 (Act No 26 of 2003)

It is the Employers objective that a minimum of **30%** of the contract value be subcontracted to Micro Enterprises in the relevant 1 to 4 CIDB grading to be procured from the local municipal area.

15002 BASIC METHOD REQUIREMENT: ME MANAGEMENT

15002.1 Project Management Team (PMT)

(a) Appointment

A Project Management Team is to be set up comprising a representative from each of the Employer, Engineer and Contractor.

(b) The duties and functions of the PMT are as follows:

- (i) determine the scope and extent of the works to be included in any particular subcontract;
- (ii) make decisions regarding the tender pre-qualification process;
- (iii) compile subcontract tenders
- (iv) adjudicate and approve subcontract tenders;
- (v) approve the extension of subcontracts, which shall be subject to satisfactory performance by the subcontractor and;
- (vi) Decide when a ME requires dedicated and structured mentoring from the Departmentally appointed Professional Service Provider in this regard. This will be provided on an ad hoc basis as and when required.

Once the appointment of the ME's has been made, the relationship between the Main Contractor and the ME will be strictly as set out in sub-clause 4.4 of the General Conditions of Contract for Construction Works, 2015.

15002.2 General responsibilities of the Contractor

(a) Obligations

The Contractor shall ensure that he complies with the following obligations:

- (i) identify work to be executed from his inspections, and submit these to the Engineer who will determine which work must be carried out;
- (ii) institute a quality assurance system;

- (iii) provide training (limited to technical matters), general on site mentoring (not dedicated or structured mentoring), general guidance and assistance to ME's;
 - (iv) ensure that the contract goals and objectives are achieved, and
 - (v) compile subcontract agreements with the ME's
 - (vi) submit a monthly report to the Engineer on items (iii) and (iv) above
- (b) Subcontracts involving ME's

In the subcontracts arranged by the contractor involving ME's, the following shall apply:

- (i) no provision or requirements set out in the specifications shall be deemed to relieve the Contractor of any liability or obligation under the contract and in accordance with the provisions of clause 4 of the General Conditions of Contract for Construction Works, 2015, the Contractor shall be fully liable for the acts, defaults and neglects of any ME, their agent or employees, as fully as if they were the acts, defaults and neglects of the Contractor, his agents or employees;
- (ii) the appointment of the ME subcontractor by the Contractor, shall be made according to sub-clause 4.4 of the General Conditions of Contract for Construction Works, 2015; and
- (iii) any failure or neglect by the Contractor to comply with the provisions of the specifications, or any omission or neglect by the Contractor in adhering to or applying the principles as are described and inherent in the specifications, shall be deemed to constitute a warrant for the Engineer to act in terms of clause 9 of the General Conditions of Contract for Construction Works, 2015.

15002.3 Selection of ME's for tender purposes

The Contractor is to subcontract a minimum of 30% of the Contract Value to ME Contractors. selected from local ME Contractors.

Request for Quotations will be done for the 30% ME's procured locally and will be done via an application from the Local Municipality in which the Contractor indicates the work package and required CIDB grading. A list of prospective tenderers will then be forwarded from the Municipality to the Contractor to be invited to tender on the said package.

15002.3.1 Compilation of tenders

In compiling the tenders the Contractor shall take note of the following.

- (a) The PMT shall compile the tenders in such a manner that it will facilitate the achievement of all objectives and principles pertaining to the use and development of the ME's, as are stated in or as may reasonably be inferred from the conditions of this contract.
The Contractor shall be responsible for the compilation of each subcontract agreement and for ensuring that the terms and conditions are consistent with all requirements therefore, as are specified in or reasonably to be inferred from the provisions of this contract. The Contractor shall bear all costs associated with the compilation of the documentation for the subcontracts and the conclusion of the agreement.
- (c) Nothing contained in the specification shall be deemed to constitute or imply any warranty given by the Contractor to any party that any ME to whom a subcontract is awarded in accordance with the provisions of the specification:
 - (i) can or will actually achieve the successful execution and completion of the subcontractor, nor;
 - (ii) will not suffer losses or damages as a result of the acceptance of his tender.

- (d) Scope of work for subcontracts ;

In determining the scope of work to be included in any particular subcontract, the PMT shall be responsible for the identification of the:

- (i) total number of subcontracts to be let;
- (ii) scheduling of the time when subcontracts will be let;
- (iii) limitation, if any, of how many subcontracts may be awarded to the same tenderer on the same contract.

- (d) Types of subcontracts

The following types of subcontracts may be let to ME's:

- (i) full or part service for a specific activity on the whole road;
- (ii) full or part of service on a section of road;
- (iii) labour only;

- (e) Target tender amount

- (i) The target tender amount of all the subcontracts shall be a minimum of 15% of the contract value.

15002.3.2 Tender process for ME's

- (a) Tender invitation

The ME's who are selected from the Municipal data base, will be invited to tender for the scope of work as specified.

- (b) Issue of tender documents

The tender documents shall be issued by the Contractor at his site office.

- (c) Tender closure

Tenders shall close at the stipulated date and time and be deposited in a proper tender box at the Contractor's site office. Tenders shall be opened in public in the presence of the Engineer and Contractor.

- (d) Adjudication of Tender

Tenders are to be adjudicated by the PMT together with a representative of the ICDP unit. Should the preferred ME tendered amount for a specific package vary by more than 10% to that of the work priced using the Main Contractors rates, specific approval will be required from the Department.

15002.3.3 Management of Subcontracts

The Contractor shall compile the subcontract agreements and provide the necessary management support to the ME's as set out in this section. Failure by the subcontractor to comply with the terms and conditions of the subcontract agreement shall result in penalties being applied or the subcontract terminated.

15002.3.4 Compilation

The Contractor in liaison with the Engineer shall be responsible for the compilation of each subcontract agreement. The agreement shall be in accordance with the provisions of sub-clause 4.4 of the General Conditions of Contract for Construction Works, 2015, and shall be consistent with the terms and conditions in this contract. The agreement shall be subject to approval by the Project Management Team.

15002.3.5 Quality of work and performance of the subcontractor

- (a) The Contractor shall closely monitor and supervise all ME's and shall guide and assist each ME in all aspects of management, execution and completion of his subcontract. This shall typically include assistance with planning of the works, sourcing and ordering of materials, labour relations, monthly measurements and invoicing procedures. The extent and level of such guidance and assistance, to be provided by the Contractor shall be commensurate with the basic level of subcontract applicable and shall be directed at enabling the ME to achieve the successful execution and completion of his subcontract.
- (c) The Contractor shall give reasonable warning to the ME when any contravention of the terms and conditions of the subcontract has occurred or appears likely to occur. The Contractor shall, whenever feasible, give the ME reasonable opportunity to make good any such contravention or to avoid such contravention and shall render all reasonable assistance to the ME in this regard.

The ratio of all local labour employed on the project must conform to the following:

- At least 20% women (Preference must be given to single heads of household)
- At least 40% youth (Persons above school going age of 18 to 35 years old)
- 40% men (Over the age of 35 years)

B15003 UTILISATION OF LOCAL LABOUR AND LIMITED TECHNICAL TRAINING

B15003.1 EMPLOYMENT OF LOCAL LABOUR

The Contractor shall be required to create employment (min of 5% of works value) for the duration of the contract period. These employment opportunities are over and above of those created by the ME's.

B15003.2 LABOUR INTENSIVE WORK

The guiding principles upon which the labour intensive work to be provided is based, include:-

- creating sustainable job opportunities,
- poverty alleviation,
- local authority empowerment, and
- ensuring financial accountability

In line with the above, the following targets have been set in order to reach objectives and this Contract will be subject to these targets:

- **Labour intensive methods of construction** are to be used where possible.
- **Women** are to make up at least **20%** of the **Total Local Labour** employed on this project with an emphasis on "*Women who are the single head of households and have dependants*".
- **Youth** are required to make up at least **40%** of the **Total Local Labour** employed.
- **Men** are required to make the **40%** balance of the **Total Local Labour** employed.

The Contractor shall therefore be required to plan his activities to maximise the use of local labour. A "local labourer" is defined as a person whose domicilium citandi ex executandi shall be in the Local Municipal Area in which the project is being implemented. The rates tendered shall cover the full cost of all labour intensive work.

B15003.3 LIMITED TECHNICAL TRAINING – LOCAL LABOUR

The Contractor shall be responsible for providing limited technical accredited training to local labour employed on the project (eg. 2 day on site SARF courses – patching potholes). The Contractor shall facilitate initial training sessions as approved by the Engineer, as well as training sessions at specified intervals to revive and supplement the initial training. An accredited trainer shall present all training sessions.

Training for ME Contractors will be provided by the Departments Professional Services Providers as and when required on an ad hoc basis.

This specification includes all requirements and methods to be employed, for the training of the Local personnel, as well as the measurement and payment.

B15003.4 LIMITED TECHNICAL TRAINING – GOVERNMENT TECHNICAL EMPLOYEES

The Contractor shall be responsible for providing limited technical accredited training for government officials.

B15004 BASIC METHOD REQUIREMENT : TRAINING OF LOCAL LABOUR

The Contractor shall be responsible for conducting a complete investigation of the groups that need to be trained in order to compile an approved **training plan**.

The investigation shall cover at least the following aspects:

- (a) Assess likelihood of conformance to task-specific requirements (*status quo*) of capabilities in terms of a formal skills audit.
- (b) Identify minimum pre-qualification criteria in terms of existing knowledge and skill levels in relation to reaching target requirements.
- (c) Evaluate personnel in terms of pre-qualification criteria and tasks to be performed (skills profile).
- (d) Identify training needs.
- (e) Identify the appropriate accredited training courses in terms of task-specific activities and identified training needs. The Contractor is to ensure that the identified course content is as per the activities listed in the Routine Road Maintenance Procedures Manual of the Department.

The Contractor shall identify an accredited training service provider to assist in the above skills audit and to help finalise the compilation of a training plan setting out the proposed courses. Once the training plan and proposed courses have been approved by the Engineer, the Contractor shall liaise with the accredited service provider to establish a date and appropriate training venue that would be conducive to learning and to perform training. On-site training is preferred.

The training shall be reviewed within one month after initial training to determine its effectiveness. Further regular training sessions shall be scheduled according to the effectiveness of initial training.

The Contractor will be responsible for recording all training sessions and shall keep an attendance register.

B15005 PAYMENT OF ME CONTRACTORS

It is an express condition of the project that the Main Contractor pay all his ME Contractors within 14 days of the ME submitting their invoice of work done. Should there be a discrepancy between the value of the certificate submitted by the ME and the value calculated by the Main Contractor, the ME will be paid the amount determined by the Main Contractor, all still within 14 days.

A PMT meeting may then be called to discuss and resolve the differences.

B15006 PROVISION OF BRIDGING FINANCE TO CIDB REGISTERED 1 & 3 ME CONTRACTORS

The Main Contractor will make "*bridging finance*" available to the ME's (only CIDB grade 1 & 3), to a minimum of 30% of the package value, to act as start-up capital or to assist in purchasing materials and small items of plant, eg. weed eaters.

The amount of bridging finance provided to an ME will be paid in instalments as agreed to and set out in the Sub Contract agreement between the two parties.

B15007 MEASUREMENT AND PAYMENT

Item

Unit

B15007.1 Conducting of skills audit and the development of a training planProvisional Sum

A provisional sum is allowed for the conducting of a skills audit of the Local Labour, as well as the compilation of a training plan.

The provisional sum shall include full compensation for identification of pre-qualification criteria and training needs, staff assessment and evaluation prior to training, all technical research, identification of accredited training courses, and all other actions necessary for commencement of official training sessions in accordance with the specification.

Any expenditure under this item requires the written prior approval of the Engineer and Employer.

Item **Unit**

B15007.2 Presenting accredited training course for Local Labour/MEsProvisional Sum

The provisional sum shall include full compensation for presenting the courses, including lectures, demonstrations, on-site training and hands-on development, and improvement of maintenance personnel's skills to enable them to maintain and repair installations safely and efficiently at the satisfactory functional condition specified.

The provisional sum shall also include full compensation for the Contractor's time, appointment of the accredited trainer for the course, and for all material expenses such as paper hand-outs and slides for the whole group of trainees, the number of which shall be determined during development of the training course.

Any expenditure under this item requires the written prior approval of the Engineer and Employer.

Item **Unit**

B15007.3 Mark Up for Management of MEs%

The percentage Mark Up tendered on the value of the ME's work shall include full compensation **for all** guidance, supervision, setting out and monitoring activities that may be deemed necessary to ensure the Works carried out by MEs are in accordance with the technical and OHS specifications and within the agreed timeframes.

The payment will be made on a monthly basis, based on the actual certificate value of the ME, for the said month.

Item **Unit**

B15007.4 Provision of bridging finance to MEs (only CIDB 1 & 3).....%

The percentage tendered on the value of the bridging finance will cover all costs incurred such as interest, bank charges and any other costs.

Payment will be made on a monthly basis on actual bridging funds made available to the ME's for the particular month. Proof of funds made available for the month will be required before payment is made for this item.

Item **Unit**

B15007.4 Provisional Sum to cater for ME Rate Variance Prov Sum

The Provisional Sum shall cater for the difference in price between the value of works conducted at the Main Contractors tendered rates, versus that of the ME Contractors to a maximum of 10%. The Main Contractor will get paid, in his certificate, the **actual value of the ME's work** under a new item "B15007.5 - Payment to ME Contractors" to be created in the payment certificates. The rate variance is merely to make an allowance for any anticipated financial difference in price between the two parties works, at Tender Stage and will not be used, as a payment item once the Contract is awarded. (Any savings will remain in the Contract to be used for additional work).

PROVINCE OF THE EASTERN CAPE

DEPARTMENT OF TRANSPORT TENDER NO.:

SCMU10-24/25-0008 A-F

APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND MAINTENANCE OF GRAVEL ROADS IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36] MONTHS

C3.5: MANAGEMENT

C3.5.1 MANAGEMENT OF THE WORKS**C3.5.1.1 Applicable standards**

The following documents and COLTO standards and associated specification data are applicable and form part of the Contract

- i) **Volume 1:** The General Conditions of Contract (2015, Third Edition), issued by SAICE, which the tenderer must purchase himself.
- ii) **Volume 2:** The COLTO Standard Specifications for Road and Bridge Works for State Road Authorities (1998 Edition), issued by the Committee of Land Transport Officials which the tenderer must purchase himself.
- iii) **Volume 3:** This document
- iv) **Volume 4:** Set of Drawings issued with Volume 3
- v) **Volume 5:** The Routine Road Maintenance Procedures Manual as issued by the Department Roads and Transport of the Eastern Cape (Version 1, February 2002)
- vi) **Volume 6:** Regravelling and Road Betterment Procedures Manual (Version : 3–Feb 2005)
- vii) Guidelines for the Implementation of Labour-Intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP).
- viii) Health and Safety Specification (may be bound in at the back of Volume 3 or issued as a separate volume)
- ix) South African Road Traffic Signs Manual
- x) Occupational Health and Safety Act
- xi) Environmental Management Programme

C3.5.1.2 Particular or Generic specifications

- a) The Standard Specifications for Road and Bridge Works for State Road Authorities 1998, prepared by the Committee of Land Transport Officials, (COLTO), as amended, shall apply to this Contract.
- b) In addition, the following Particular Specifications that are bound into this document will also apply:

□	Section 1800	:	Collection & Removal of Debris & Litter
□	Section 1900	:	Dayworks (provisional)
□	Section 9100	:	Controlling Vegetation Growth –Cutting
□	Section 11000	:	Polymerised Bitumen Rejuvenator with a Mastic Filler
□	Section 12000	:	Environmental Management Programme implementation
□	Section 13000	:	Occupation Health & Safety specifications
□	Section 14000	:	Health Training for the Construction Industry
□	Section 15000	:	ME Management & Training of Local Labour

C3.5.1.3 Planning and programming

The extent of the works contained in the Bill of Quantities is aimed at upgrading certain of the district road over the contract period. However, should the tender amount exceed the Employer's budget, or should the Employer's annual budget be reduced during the course of the contract, the Employer reserves the right to reduce the scope of the works to suit the available budget.

The contract duration is 36 Months .

The Engineer will determine the extent of the work to be executed in terms of the contract. A preliminary overall maintenance plan indicating the anticipated maintenance activities over the 36-month period, based upon an initial needs analysis and current budgets.

The Contractor should also note that, during the contract period, other contracts may be running on the section of road requiring maintenance.

The Contractor should take cognisance of this for his programme and will be required to fully accommodate these contractors. No additional payment will be made for any inconvenience in this regard.

The Contractor shall submit his programme within the time stated in the Contract Data to the Engineer in bar chart form showing clearly, in addition to the requirements of Clause 5.6 of the General Conditions of Contract, the following:

- The various stages of work planned to be completed per month to suite the overall programme.
- Critical path activities
- Anticipated value of work to be done during each month.
- His labour resources schedule which must distinguish between the Contractor's permanent labour and his temporary local labour employment.
- The lead time for training local labour if required.

When drawing up his programme, the Contractor shall also, *inter alia*, take into consideration and make allowance for:

- Expected weather conditions and their effects (e.g., for grading work).
- The requirements and effects of employing labour-intensive construction methods.
- The accommodation and safeguarding of public access and traffic.
- Presence of other contractors on site.
- All other actions required in terms of this document.

The Engineer will agree on a general programme of work per route section with the Contractor and any changes to this programme will be finalised with the Contractor at least one month in advance. Once the programmes have been finalised a detailed monthly programme will be drawn up which will be used to monitor performance. When drawing up his construction programme, the Contractor shall consider the time for completion for the activity as indicated in the Preliminary Programme. The Contractor will be required to pay special attention to the preceding table and project drawings, which represent a guideline programme for the execution of the maintenance works.

Once the monthly programme has been approved by the Engineer, the Contractor will be notified of the work that he is to undertake for the month by means of a Works Instruction from the Engineer.

Failure on the part of the Contractor to submit or to work according to the programme or revised programmes shall be sufficient reason for the Engineer to take steps as set out in Clause 5.13 of the General Conditions of Contract.

Certain maintenance activities may be restricted on certain roads on days with increased traffic flows. The Contractor must allow for these restrictions in his monthly programme and no extension of time or claims in this regard will be considered. For this contract, the days with restrictions are indicated in the table overleaf:

DATE	ACTIVITY TO BE RESTRICTED	PERIOD OF RESTRICTION
Weekends	All routine road maintenance activities which may disrupt the normal flow of traffic.	From 16h00 on Friday till 07h00 on Monday
School closure		For 2 days before closing
School opening		For 2 days before opening
Long weekends		From 12h00 on day preceding, for duration
December holidays		Duration of holidays (taken as 15/12 – 08/01)

The Contractor will only be allowed to undertake work on the affected roads during these periods with the approval of the Engineer.

Should the Contractor fall behind his monthly programme he shall produce a revised programme showing the modifications to the original programme necessary to ensure completion of the Works, or any part thereof, within the time for completion as defined or any extended time granted.

Failure to produce a revised programme may prejudice the Contractor in any claim for an extension of time.

C3.5.1.4 Sequence of the works

The Engineer will agree on a general programme of work per route section with the Contractor and any changes to this programme will be finalised with the Contractor at least one month in advance. Once the annual programmes have been finalised a detailed monthly programme will be drawn up which will be used to monitor performance. When drawing up his construction programme, the Contractor shall consider the time for completion for the activity as indicated in the Preliminary Programme. The Contractor will be required to pay special attention to the preceding table and project drawings, which represent a guideline programme for the execution of the maintenance works.

Once the monthly programme has been approved by the Engineer, the Contractor will be notified of the work that he is to undertake for the month (or emergency works, as they occur) by means of a Works Instruction from the Engineer.

Failure on the part of the Contractor to submit or to work according to the programme or revised programmes shall be sufficient reason for the Engineer to take steps as set out in Clause 5.13 of the General Conditions of Contract.

C3.5.1.5 Methods and procedures

All work to be carried out will be in compliance with the following minimum requirements;

- The Routine Road Maintenance Procedures Manual as issued by the Department Transport of the Eastern Cape (Version 1, February 2002)
- Regravelling and Road Betterment Procedures Manual (Version: 3–Feb 2005)
- The OHS Act
- Environmental Management Programme
- Departmental Details drawings
- COLTO Standard Specifications for Road and Bridge Works for State Road Authorities (1998 edition)

C3.5.1.6 Materials and Road Condition Reports

Preliminary road condition surveys and road logs indicating the existing condition of the proposed roads to be maintained are available at the Engineer's offices for perusal during working hours.

Control Testing of Earthworks and Road Layers

The Contractor is required to carry out his own control testing, but if he so wishes, and agrees to abide by the results of the Engineer's check test, he may dispense with his own tests. However, should the Contractor wish to use the Engineer's testing facilities, he will be charged for the various tests at the rates ruling at the time.

Any additional tests requested by the Contractor or any retests required, due to failure of the initial tests, will be charged to the Contractor at the rates ruling at the time.

Process Control Testing

The Contractor is required to carry out his own control testing. The results of these control tests together with the location of the tests shall be submitted to the Engineer for approval. No payments will be made without this information unless partial payment is allowed for special items in terms of the project specification.

Acceptance Control Testing

The Engineer may order that additional tests be carried out from time to time. A provisional sum is allowed for these additional tests. The cost of any additional tests that might fail, together with the remedial work ordered by the Engineer, will be for the account of the Contractor.

C3.5.1.7 Environment

The Contractor will prior to the commencement of any construction or repair work prepare and submit an Environmental Management Programme (EMPR), for approval by the Engineer.

The EMPR shall clearly demonstrate how the Contractor intends mitigating damage to the environment, as a result of their construction activities.

The Contractor shall further appoint an Environmental Control Officer (ECO), who shall inspect all construction related activities and who shall report on non-compliance items.

Further, the ECO will submit his/her Environmental Audits at monthly site meetings, for discussion by all role players.

a) Sand and dust control

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

b) Environmental Management

The Contractor will be required to compile a comprehensive Environmental Management Programme (EMPR), which should address the management and monitoring of environmental impacts related to this repair contract.

The EMPR should therefore identify potential environmental impacts and should further demonstrate how there would be mitigated and controlled.

The Contractor shall be responsible for implementing and managing an Environmental Management Programme in terms of the particular specifications for the borrow pits. The Contractor's authorised agent shall report to the Engineer regarding compliance with the conditions as stipulated in the Environmental Management Programme.

The Contractor shall take the utmost care to minimise the impact of his establishment and other construction activities on the environment and shall adhere to the requirements as set

out in Section 12000 of the Project Specifications. Where, in the opinion of the Engineer, the Contractor has not adhered to these requirements, the Contractor shall rectify the damage at his expense and to the satisfaction of the Engineer.

Trees and shrubs established in the landscaped areas of the road reserve may under no circumstances be disturbed without specific instruction from the Engineer for their removal. Trees and shrubs inadvertently destroyed by the Contractor shall be replaced with the equivalent at the Contractor's expense.

Disposal of any bituminous-based material shall only be at an approved location and by means of an approved method, arranged beforehand with the Engineer.

Storage sites for all bituminous products in the road reserve, or on private property, are to be approved by the Engineer prior to use. The containers used for storage shall be free of leaks and placed on a firm surface. No spoiling of any bituminous products shall be allowed in these areas. Unused or rejected products shall be removed from site and returned to the supplier. Solvents used for flushing spray tankers shall be treated likewise.

No separate payment items will be scheduled for the compliance by the Contractor with the EMPR. These costs will be deemed to be inclusive of the rates tender for the works.

C3.5.1.8 Accommodation of traffic on public roads occupied by the contractor

The Works will be undertaken in a manner that will minimise the interference with public traffic, consistent with established routine road maintenance practices. Although inconvenience to road users will be inevitable, the Contractor must ensure that road users have continuous access on and to, a public road.

Temporary road traffic signs shall at all times be displayed at the works as specified on the drawings and in accordance with the requirements of this document, as well as the South African Road Traffic Signs Manual, in conjunction with Manual K56 "Safety at Roadworks in Rural Areas", and the Routine Road Maintenance Procedures Manual of the Department of Transport and Roads of the Eastern Cape. The Contractor may not commence constructional activities before adequate provision has been made to accommodate traffic in accordance with the above requirements.

The traffic signs shall be covered or removed when not required at night and over weekends. No diversions are generally required and the Contractor shall regulate the traffic with flagmen and take all precautions necessary to promote the safe and easy flow of traffic on or next to the roadway under repair.

The Contractor, if so instructed in writing, shall nevertheless provide a diversion at places with a high traffic safety risk. Except where otherwise specified, additional payment over and above payment under the payment items included in the Contract, will be made for the construction of the diversion and the additional measures required to control traffic as specified by the Engineer.

Should the Contractor neglect to apply the road traffic safety measures specified without due diligence, the Engineer may temporarily stop the works until the Contractor has rectified the situation or impose a penalty for each contravention of the requirements of the Specifications as detailed in Section 1500.

The Contractor will be responsible for the accommodation of traffic on, and maintenance of the existing roadways used by the public as instructed by the Engineer, from the date of site handover to the issuing of the Certificate of Completion for the works as a whole.

No separate payment items have been scheduled for the accommodation of traffic or traffic signage and all these costs will be deemed to have been included in the relevant payment items of the appropriate works.

The Contractor must ensure that a competent person, that can act as a Traffic Safety Officer, is always present on site to deal with all issues relating to traffic accommodation. This person will, at all times, be responsible for the construction, spacing, placement and maintenance of traffic control devices.

C3.5.1.9 Other Contractors on site

When drawing up his programme, the Contractor shall also, inter alia, take into consideration and make allowance for the presence of other contractors on site.

C3.5.1.10 Testing, completion, commissioning, and correction of defects

The Routine Road Maintenance Procedures Manual (RRMPM) of the Department of Transport of the Eastern Cape describes the causes and type of defects, as well as providing a guide on how to conduct the works. This is covered in the Scope of Works.

C3.5.1.11 Recording of weather

The Contractor will be responsible for recording and maintaining a daily log of weather conditions throughout the duration of the contract. During the execution of the Works, The Engineer's Representative will certify a day lost due to abnormal rainfall and adverse weather conditions only if less than 30% of the work force and plant on site could work during that specific working day.

C3.5.1.12 Format of communications

The Contractor will keep on site at all times a Site Instruction Book in which the Engineer's Representative will issue any Site Instructions for variations of the Work. All correspondence will be written, signed, copied to the Employer and Contractor. The Engineer will maintain a file of all original correspondence.

The Contractor shall furnish the Engineer daily with records, as per the Employers Web Based Reporting System of work executed by him for each activity. The records shall include information such as description, location, measurement, plant and labour hours, where applicable, and all other information the Engineer may require for the record and measurement purposes.

C3.5.1.13 Key personnel

A Schedule of Key Personnel is included in Volume 3 of the Contract document.

C3.5.1.18 Use of borrow pits

The Contractor is to obtain all gravel wearing course material from the existing or new borrow pits in the vicinity of the project, as instructed by the Engineer. The Contractor is to adhere to the specific requirements contained in the EMPR pertaining to work methods in borrow pits.

C3.5.1.19 Construction Regulations, 2014

The Contractor shall be required to comply with the Occupational Health and Safety Act, 1993: Construction Regulations, 2014 (the regulations) as promulgated in Government Gazette No 37305 and Regulation Gazette No 84 of 7 February 2014. Non-compliance with these regulations, in any way whatsoever, will be adequate reason for suspending the Works.

The proposed type of work, materials to be used and potential hazards likely to be encountered on this Contract are detailed in the Scope of Works, the Bill of Quantities, the Drawings, and in the Employers' Health and Safety specification (regulation 5(1) of the Construction Regulations 2014), which is bound into the Contract document.

The Contractor shall, in terms of regulation 7(1), provide a comprehensive Health and Safety Plan detailing his proposed compliance with the regulations, for approval by the Employer.

The Contractor shall at all times be responsible for full compliance with the approved plan as well as with the Construction Regulations and no extension of time will be considered for delays due to non-compliance with the abovementioned plan or regulations.

Payment items are included in the Schedule of Quantities to cover the Contractor's cost for compliance with the OHS Act and the abovementioned Regulations.

C3.5.1.20 HANDING OVER SITE, SETTING OUT AND CONFIRMING THE SCOPE OF WORKS WITH THE CONTRACTOR

The entire road reserve within the Local Municipal Area (and indicating any “soft boundaries” if applicable) will be handed over to the Contractor at the commencement of the Contract.

The Contractor will be responsible for executing the routine maintenance and construction activities as specified in the maintenance plan. He will work on all the roads for the duration of the Contract but will only occupy certain specific roads as agreed to and indicated in the approved monthly programme. The Contractor will be responsible for all gravel provincial roads within the LMA from the Commencement Date until the issuing of the Certificate of Completion.

The Engineer, the Contractor and supervisory staff shall together carry out a joint inspection at the time of the handing over of the site. During such an inspection the scope of the works will be set out for each of the roads / road sections indicating the various activities to be conducted, as well as making notes of all damaged fences, guardrails, signs and any other notable problems or features that exist.

The following matters are to be confirmed at the time of handing over and before the commencement of any work:

- (i) Confirming position of the site camp and/or any additional temporary site camps that may be required.
- (ii) The construction limits, lengths, widths and areas of routine maintenance or construction to be conducted for the various sections of road.
- (iii) The determination of the trial section for each type of maintenance / construction activity to be performed.
- (iv) The location of kilometre markers and reference beacons to be used for setting out purposes.
- (v) The scope of remedial / repair / general maintenance and preparatory work to be carried out.
- (vi) The location of the proposed stockpile areas and the responsibilities of the Contractor with regard to the road reserve area in terms of the clearing and grubbing if required, fencing, motor gates, stock grids, road markings, road signage, mowing of grass and the like.
- (vii) The proposed method of accommodation of public traffic with regard to safety, sight distance, interference with existing road signs and road markings within the work section and providing advance warning before the work section.
- (viii) The method of construction / treatment envisaged for each of the sections (sections to be receive edge break repair, crack sealing, light blading, pothole patching etc.) and the like, are to be confirmed and set out with the Contractor.
- (ix) Supervisory, test control measures and procedures are to be confirmed.
- (x) The position of all the existing pipe culverts (all hydraulic control structures), concrete lined cause ways and the like, is to be confirmed.
- (xi) Confirm the position of all existing services.

C3.5.1.21 TRIAL SECTION

Before the Contractor commences with the construction/maintenance works, he shall demonstrate on a test section (for each type of maintenance activity) that the equipment and processes he intends to use, will enable him to execute the Works in accordance with the specified requirements. The trial sections for the various maintenance activities shall also serve as a basis to agree the interpretation of the Specifications for application during the Contract Period and the criteria and methods to be used by the Engineer for acceptance control.

Only when the trial sections have been satisfactorily completed in conformity with the specified requirements, will the Contractor be allowed to commence the maintenance/repair works. The Engineer shall, as far as is practical, select the location of the trial section at a position with characteristics which are representative of the general conditions to be found with the balance of the proposed works. The Engineer may require the construction of additional trial sections should the materials available or methods of construction significantly change during the course of the Contract.

No additional payment will be made for the demonstration at the trial section, other than for the work completed and accepted as part of the Works, at tender rates.

C3.5.1.22 COMPLETION TIME OF SPECIFIED ACTIVITIES AND PENALTIES

Due to the nature of maintenance work, certain items of work shall be carried out as a matter of routine, and others as emergency cases. The Contractor will be called upon to do remedial work at very short notice in some instances, in which case the Contractor shall proceed to carry out the work without delay and report to the Engineer in writing as soon as practically possible the extent of the work carried out.

It is a condition of the contract that certain specified activities must either be completed within a specified period or responded to within a specified time if they have been classified as emergency repairs by the Engineer. All other construction or maintenance activities will be classified as routine, and conducted as per the programme and works instructions.

Completion time for an activity:

Completion time is defined as that period from the date on which an instruction is received by the Contractor from the Engineer, to the date of full completion of the specific activity. The completion times are as indicated in the attached programme.

Responding time:

Responding time is defined as that period of time on which an instruction is received by the Contractor from the Engineer, to the time of reporting at an indicated place, by the designated team.

Emergency response and completion times:

Emergency Activity	Completion Time	Responding Time	Penalty for late responding	Penalty for late completion	Penalty for not meeting specification
Road Repairs	As specified by Engineer	1 day	R500/day	R300/day	R1000/occur

C3.5.2 EMPOWERMENT PRINCIPLES

C3.5.2.1 Labour Intensive Construction Methods

Labour intensive construction methods based on the Expanded Public Works Programme (EPWP) will be utilised where practically possible and feasible. Construction activities that are undertaken using labour intensive methods shall be based on the prevailing statutory minimum wage as determined by the Department of Labour.

C3.5.2.2 Training

The Contractor shall be responsible for providing diverse accredited training to various groups, as well as to provide normal in-service training for all staff that he will be employing on the Contract. The Contractor shall develop and facilitate initial training sessions for all parties, as well as training sessions at specified intervals to supplement the initial training. An accredited trainer shall be present at all training sessions. All training courses must be approved by the Engineer and the Employer before they are implemented by the Contractor. All training modules or courses must be accredited.

Provision is made in the Bill of Quantities for the training of the Employer's personnel, and local labour. The Contractor will be responsible for normal in-service training of his own permanent employees and he shall allow for this in his tender rates and prices.

C3.5.2.3 Communication with Local Communities

A Project Steering Committee / Roads Forums will be formed by the Engineer through the appropriate Local Ward Councillors or existing official structures if required, to act as the communication channel between the Contractor and the residents. This Project Steering Committee / Roads Forums will identify a Community Liaison Officer to be appointed by the Contractor. A provisional sum is allowed in the schedule of quantities to cover the cost of the Community Liaison Officer.

The Contractor shall use the Community Liaison Officer as indicated in Section B1232, and the Project Steering Committee / Roads Forums to timeously reach mutually acceptable employment agreements with the affected communities and to deal with any labour-related issues.

The Contractor must include in his rates for the cost of attending an average of one Project Steering Committee / Roads Forum meeting each month. The meetings will not necessarily be during normal working hours and it is accepted that the Contractor tendering for the works is familiar with dealing with communities and understands the implications of keeping the community informed. Minutes of such meetings must be recorded and distributed by the Contractor and the cost is deemed to be included in the rates.

C3.5.2.4 Local Labour

Should personnel and labour, in addition to that provided by the Contractor, be required, the Contractor must endeavour to employ labourers, artisans and subcontractors from the community within the Local Municipal Area for the execution and completion of the work. The Contractor will fill in and submit to the Engineer all the required forms as enclosed in **Appendix B**. It will be deemed that the cost of this will be in the applicable rates.

The Contractor and his sub-contractors shall ensure that they enter into a Contract of Employment with each employee engaged on the labour intensive aspects of this Contract.

SCMU10-24/25-0008 A-F

PROVINCE OF THE EASTERN CAPE

DEPARTMENT OF TRANSPORT TENDER NO.:

SCMU10-24/25-0008 A-F

APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND MAINTENANCE OF
GRAVEL ROADS IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36] MONTHS

CONTRACT
PART 4 (OF 4): SITE INFORMATION

PROVINCE OF THE EASTERN CAPE

DEPARTMENT OF TRANSPORT

TENDER NO.: SCMU10-24/25-0008 A-F

APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND MAINTENANCE OF GRAVEL ROADS IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36] MONTHS

C4: SITE INFORMATION

C 4.1 Scope

The documentation included in this section describes the site as at the time of tendering to enable the tenderer to price his tender and to decide upon his method of working and programming.

C4.2 Geotechnical information (can be sourced on request with approval of the employer)

C4.3 Environmental Management Programme (EMPr)

APPENDIX A
MAPS

APPENDIX B
LIST OF ROADS

APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND MAINTENANCE OF GRAVEL ROADS IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36] MONTHS

Road	Route	Provincial Road Length (km)				Total (km)
		Paved Roads	Gravel Roads			
			Trunk, Main,	District	Minor	
<i>PROVINCIAL PROCLAIMED ROADS IN THE EASTERN CAPE PROVINCE</i>	<i>PROVINCIAL PROCLAIMED ROADS IN THE EASTERN CAPE PROVINCE</i>	3 861,0	36 805,2			40 666,2

APPENDIX C
EPWP FORMS

BENEFICIARY LIST

Name of Contractor
 Project Name Project
 Number: SCMU10-
 21/22-0038
 Month:

Youth = 35yrs and less

Number of workers	Surname	Initials	Name	ID Number	Date of Birth	Male/Female	Has Disability (Y?N)	Is Youth (Y/N)	Education Level*	Date Start	Contact Number
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											

 Signature of CLO

DAILY SITE ATTENDANCE REGISTER

Name of Contractor
Project Name

Validation: Cannot be more than 23 days per person per month.

Project Number
Month:

1 = At Work A = Absent L = Leave SC = Site Closed
SL = Sick Leave P = Public Holiday 2 = Training

	Surname	Initials	ID Number	Birth Date	Rate per day (R)																																Total Work days	Total Training Days	Total work days & training days	
						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
1																																					0	0	0	
2																																					0	0	0	
3																																					0	0	0	
4																																					0	0	0	
5																																					0	0	0	
6																																					0	0	0	
7																																					0	0	0	
8																																					0	0	0	
9																																					0	0	0	
10																																					0	0	0	
11																																					0	0	0	
12																																					0	0	0	
13																																					0	0	0	
14																																					0	0	0	
15																																					0	0	0	
15	TOTALS																																				TOTALS	0	0	0

Signature of CLO

Week 1: Signature of Contractor

Validation: Total work days 0
Total training days 0

Week 1 -2: Signature of Contractor Organisation

Week 2: Signature of Contractor Week

3: Signature of Contractor

Total work days + training days 0
Variance 0
Variance must be 0

Week 3-4: Signature of Contractor Organisation

Week 4: Signature of Contractor

LABOUR MONTHLY SUMMARY SHEET

Name of Contractor
 Project Name Project
 Number Applicable
 Month

No of Working Days: Maximum including training = 23 days per month

Number of workers	Surname	Initials	First Name	ID Number	Birth Date	(M)ale / (F)emale	(D)isabled	Rate per day	Number of days worked this month	Number of training days this month	Total amount paid to beneficiary	Course name	Course Code	
1											0			
2											0			
3											0			
4											0			
5											0			
6											0			
7											0			
8											0			
9											0			
10											0			
11											0			
12											0			
13											0			
14											0			
15											0			
16											0			
17											0			
18											0			
19											0			
20											0			
											0			
20	Totals for month										0	0	0	

Signature Consultant _____

APPENDIX D
FORMS TO BE COMPLETED BY THE CONTRACTOR

AGREEMENT FORMS TO BE COMPLETED AFTER AWARD OF THE TENDER

DESCRIPTION

1. AGREEMENT IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT 1993
2. CERTIFICATE OF AUTHORITY FOR AGREEMENT IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT 1993
3. AGREEMENT IN TERMS OF CONSTITUTION OF THE REPUBLIC OF SOUTH AFRICA, ENVIRONMENTAL CONSERVATION ACT & ENVIRONMENTAL MANAGEMENT ACT AND MPRDA
4. CERTIFICATE OF AUTHORITY FOR AGREEMENT IN TERMS OF CONSTITUTION OF THE REPUBLIC OF SOUTH AFRICA, ENVIRONMENTAL CONSERVATION ACT & ENVIRONMENTAL MANAGEMENT ACT AND MPRDA

THESE FORMS ARE FOR INFORMATION ONLY AND WILL ONLY BE COMPLETED BY THE SUCCESSFUL TENDERER ONCE THE CONTRACT IS AWARDED.

AGREEMENT IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT (ACT NO 85 OF 1993)

CONTRACT : SCMU10-24/25-0008 A-F

Error! Not a valid link.

THIS AGREEMENT made aton this the day
of.....in the year..... between the PROVINCE OF THE EASTERN CAPE DEPARTMENT OF
TRANSPORT (hereinafter called "the Employer") of the one part, herein represented by
.....in his capacity as
and delegate of the Employer in terms of the Employer's standard powers of delegation pursuant to the provisions of Act No 7 of 1998.
and (hereinafter called "the
Mandatory") of the other part, herein represented by
..... in his capacity as.....

and being duly authorised by virtue of a resolution appended hereto; WHEREAS
the Employer is desirous that certain works be constructed, viz : **CONTRACT NO.**

SCMU10-24/25-0008 A-F

**APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND MAINTENANCE OF GRAVEL
ROADS IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36] MONTHS**

and has accepted a tender by the Mandatory for the construction, completion & maintenance of such works and whereas the Employer and
the Mandatory have agreed to certain arrangements and procedures to be followed in order to ensure compliance by the Mandatory with the
provisions of the Occupational Health and Safety Act 1993 (Act 85 of 1993);

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. The Mandatory shall execute the work in accordance with the contract documents pertaining to this contract.
2. This Agreement shall hold good from its commencement date, which shall be the date of a written notice from the Employer or
Engineer requiring him to commence the execution of the Works, to either:
 - a) the date of the final certificate issued in terms of clause 5.14 of the General Conditions of Contract 2010 (hereinafter referred
to as "the General Conditions of Contract"), as contained in Volume 1 of the contract documents pertaining to this Contract,
or
 - b) the date of termination of the Contract in terms of clauses 9.1, 9.2 or 9.3 of the General Conditions of Contract.
3. The Mandatory declares himself to be conversant with the following:-
 - a) All relevant 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.
 - b) The procedures and safety rules of the Employer as contained in the project Health & Safety specifications pertaining to
the Mandatory and to all his sub-contractors.

**AGREEMENT IN TERMS OF CONSTITUTION OF THE REPUBLIC OF SOUTH AFRICA, ENVIRONMENT
CONSERVATION ACT, NATIONAL ENVIRONMENTAL MANAGEMENT ACT AND MPRDA**

CONTRACT NO.: SCMU10-24/25-0008 A-F

**APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND MAINTENANCE OF GRAVEL
ROADS IN THE EASTERN CAPE PROVINCE FOR THIRTY-SIX [36] MONTHS**

THIS AGREEMENT made aton this the day

of.....in the year..... between the PROVINCE OF THE EASTERN CAPE DEPARTMENT OF
TRANSPORT (hereinafter called "the Employer") of the one part, herein represented by

.....in his capacity as

and delegate of the Employer in terms of the Employer's standard powers of delegation pursuant to the provisions of Act No 7 of 1998.

and (hereinafter called "the
Mandatory") of the other part, herein represented by

..... in his capacity as.....

and being duly authorised by virtue of a resolution appended hereto;

WHEREAS the Employer is desirous that certain works be constructed, viz :

CONTRACT NO.: SCMU10-24/25-0008 A-F

**APPOINTMENT OF A PANEL OF SERVICE PROVIDERS TO PROVIDE PLANT HIRE SERVICES AND MAINTENANCE OF GRAVEL
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and has accepted a tender by the Mandatory for the construction, completion & maintenance of such works and whereas the Employer and
the Mandatory have agreed to certain arrangements and procedures to be followed in order to ensure compliance by the Mandatory with the
provisions of the Occupational Health and Safety Act 1993 (Act 85 of 1993);

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. The Mandatory shall execute the work in accordance with the contract documents pertaining to this contract.
2. This Agreement shall hold good from its commencement date, which shall be the date of a written notice from the Employer or
Engineer requiring him to commence the execution of the Works, to either:
 - a) the date of the final certificate issued in terms of clause 5.14 of the General Conditions of Contract 2010 (hereinafter referred
to as "the General Conditions of Contract"), as contained in Volume 1 of the contract documents pertaining to this Contract,
or
 - b) the date of termination of the Contract in terms of clauses 9.1, 9.2 or 9.3 of the General Conditions of Contract.

